1987

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BOOK 42
SEPTEMBER 1987

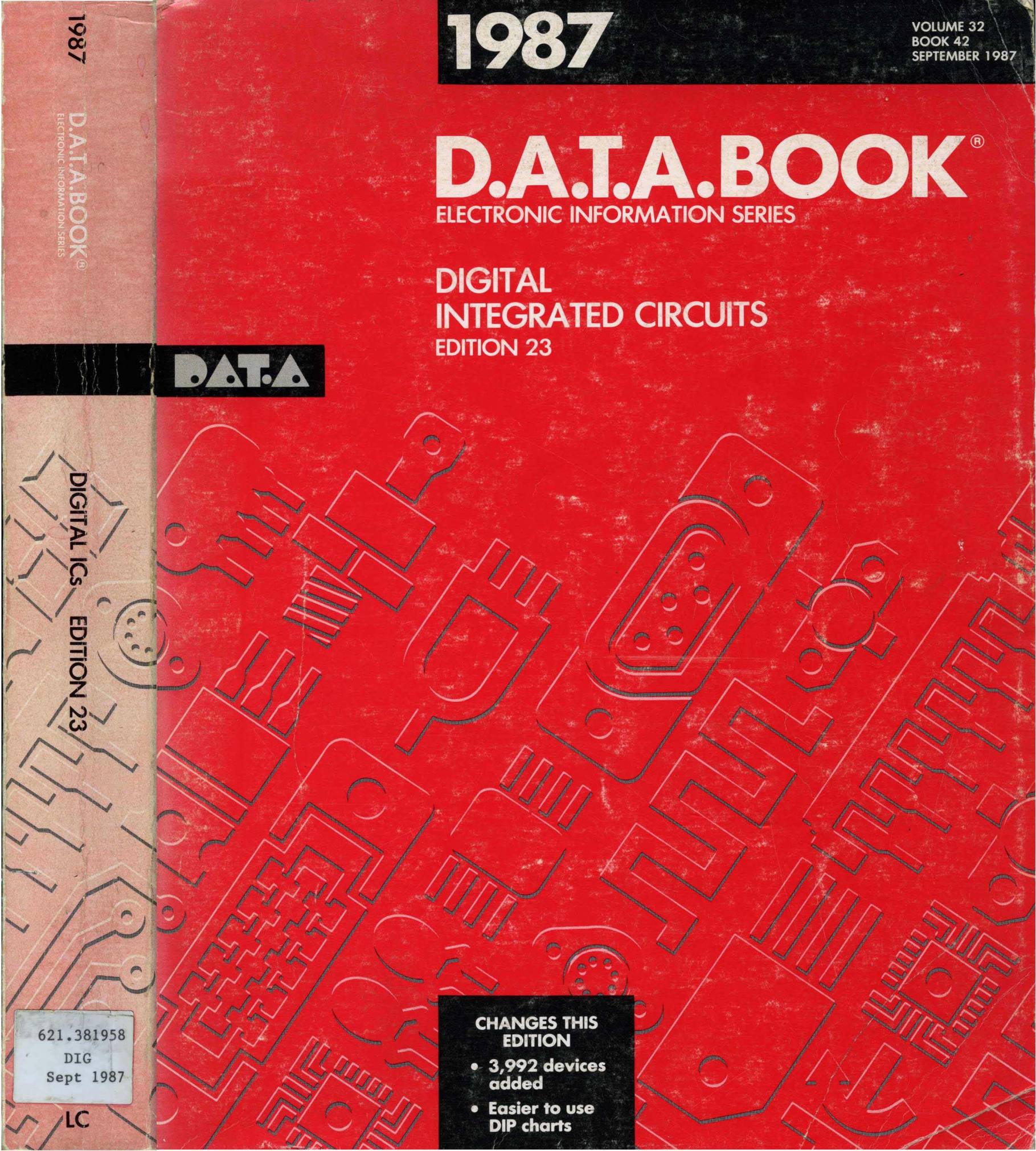
D.A.T.A.BOOK®

ELECTRONIC INFORMATION SERIES

DIGITAL INTEGRATED CIRCUITS

EDITION 23

D.A.T.A.



CHANGES THIS EDITION

- 3,992 devices added
- Easier to use DIP charts

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DIGITAL ICs EDITION 23

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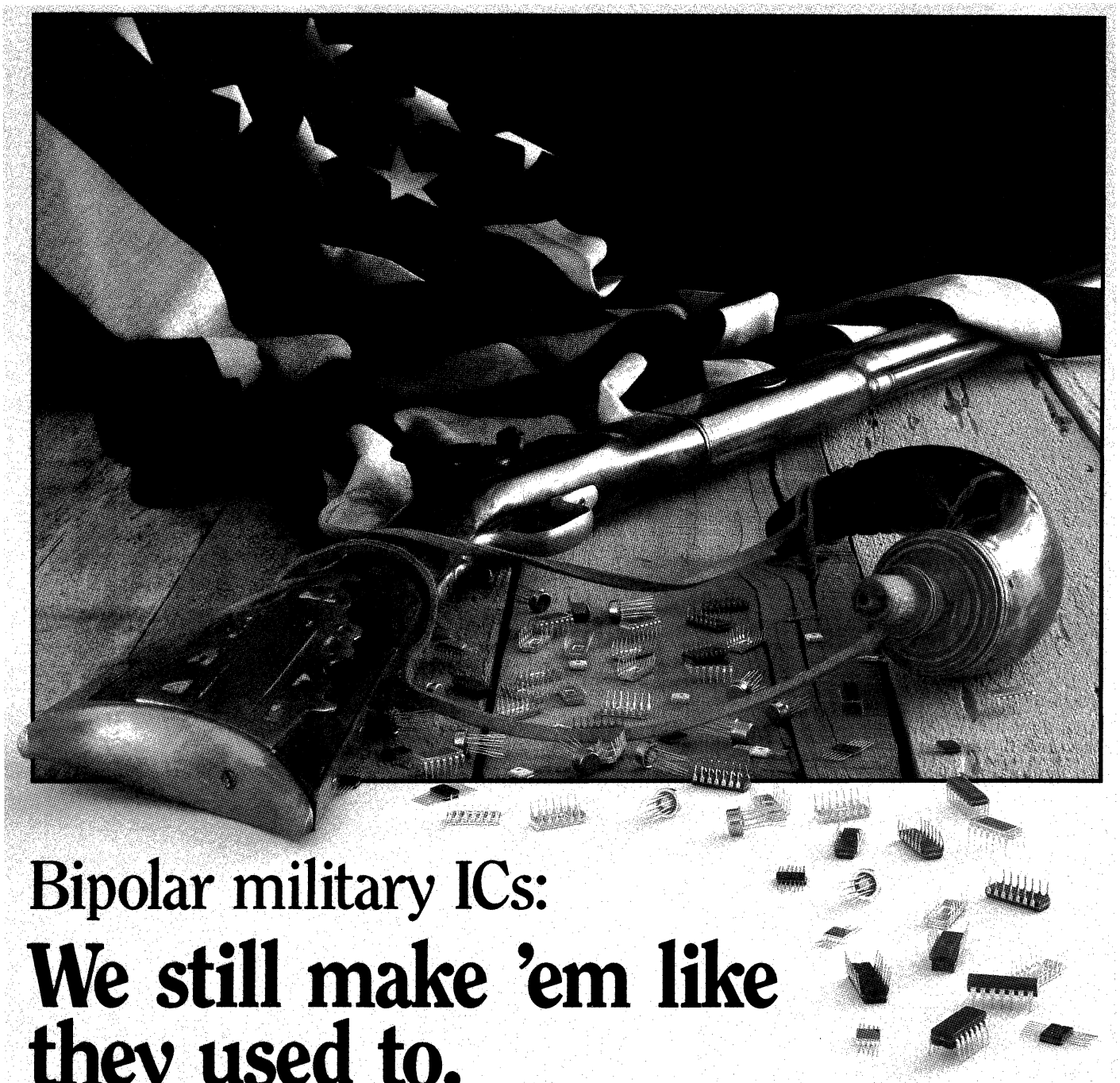

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ELECTRONIC INFORMATION SERIES
VOLUME 32 – BOOK 42 – SEPTEMBER 1987

DIGITAL INTEGRATED CIRCUITS

EDITION 23
21,117 TYPES 98 MANUFACTURERS

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EDITORIAL POLICY AND PROCEDURES

PURPOSE

This D.A.T.A.BOOK is designed to report comprehensively on what is presently being produced throughout the world in the field of Logic Computational ICs. While a publication such as this cannot provide 100% of the information you might need, its primary aim is that of facilitating the selection of types suitable to your technical requirements, and of directing you to the sources of their manufacture.

TECHNICAL DATA ACQUISITION

D.A.T.A. acquires and processes the information presented in this D.A.T.A.BOOK with the cooperation of the participating manufacturers who supply us with their latest technical information. Manufacturers are not charged for the listing of their products.

SUBSTITUTE TYPES AND COMPATIBILITY

While this D.A.T.A.BOOK does not claim to be an interchangeability guide, Logic and Computational ICs with the same or similar characteristics are grouped together, thereby enabling the user to identify candidate alternate sources. The final authority for a replacement or alternate source is the manufacturer's catalog or datasheet.

PRICE AND AVAILABILITY

Because of the rapidly changing and complex nature of this field, current price and delivery information should be obtained directly from the manufacturers. The Manufacturers' Profile and Sales Office Listings in the back of the book will assist you.

MANUFACTURERS' SPECIFICATIONS

This book includes currently manufactured devices and devices soon-to-be available with their major characteristics, drawings and manufacturers. Every effort is made to ensure the accuracy of the entries herein; however, the publisher cannot be held responsible nor guarantee against the possibility of error or omission. Only the manufacturers or their authorized representatives can provide you with complete technical details.

GSA APPROVED

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THREE BASIC WAYS:

	If you know:	And need to know:	Read:
1	Electrical & mechanical Requirements	A type number (Maufacturers' part number)	Explanation 1
2	A type number	The electrical and/or mechanical characteristics or its circuit and outline configuration or who manufactures it or an equivalent type	Explanation 2
3	A Generic device number or Functional Equivalent Device number or circuit drawing number	The manufacturer or the type number or product class or equivalent types or electrical and/or mechanical characteristics	Explanation 3

EXPLANATION 1

If you know:
The electrical and mechanical requirements
And need to know:
A suitable type number:
First: Turn to the TABLE OF CONTENTS

a. Select from the Table of Contents the Technical Section corresponding to the known device type.
EXAMPLE: Technical Section 5

TABLE OF CONTENTS **Page**

4. FLIP-FLOPS
D-Type 48
JK-Type 61
RS-Type 75
RST-Type 75
T-Type 76
5. GATES
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AND-OR 85
AND-OR-INVERT 86
Exclusive NOR 92

EXPLANATION 2

If you know:
The type number
And need to know:
The electrical characteristics:
First:
Turn to the TYPE NUMBER CROSS INDEX and find your type number.

a. Note the page and line number beside your Type. EXAMPLE: **87-8**

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
MB406M	FCAJ	81 - 63	MB84008B	FCAJ	201 - 26	MC10H105P	♦MOTA	122 - 39	MC10H160N	♦MMI	227 - 92	MC54F86N	♦MOTA	93 - 13
MB407	FCAJ	65 - 35	MB84008BM	FCAJ	201 - 27	MC10H105PD	♦MOTA	122 - 40	MC10H160P	♦MOTA	227 - 88	MC54F109J	♦MOTA	74 - 35
MB407M	FCAJ	65 - 36	MB84011B	FCAJ	100 - 67	MC10H105PDS	♦MOTA	122 - 41	MC10H160PD	♦MOTA	227 - 89	MC54F109N	♦MOTA	74 - 36
MB408	FCAJ	198 - 46	MB84011BM	FCAJ	100 - 68	MC10H106FN	♦MOTA	117 - 75	MC10H160PDS	♦MOTA	227 - 90	MC54F112J	♦MOTA	74 - 61
MB408M	FCAJ	198 - 47	MB84012B	FCAJ	108 - 21	MC10H106L	♦MOTA	117 - 76	MC10H166FN	♦MOTA	217 - 97	MC54F112N	♦MOTA	74 - 62
MB410	FCAJ	68 - 54	MB84012BM	FCAJ	108 - 22	MC10H106LD	♦MOTA	117 - 77	MC10H166J	♦MMI	217 -104	MC54F113J	♦MOTA	74 - 63
MB410M	FCAJ	68 - 55	M[illegible]013B	FCAJ	50 -110	MC10H106LDS	♦MOTA	117 - 78	MC10H166L	♦MOTA	217 - 98	MC54F113N	♦MOTA	74 - 64
MB411	FCAJ	87 - 7	[illegible]013BM	FCAJ	51 - 1	MC10H106P	♦MOTA	117 - 79	MC10H166LD	♦MOTA	217 - 99	MC54F114J	♦MOTA	73 -103
MB411M	FCAJ	87 - 8	[illegible]017B	FCAJ	183 - 26	MC10H106PD	♦MOTA	117 - 80	MC10H166LDS	♦MOTA	217 -100	MC54F114N	♦MOTA	73 -104
MB416	FCAJ	96 - 57	[illegible]017BM	FCAJ	183 - 27	MC10H106PDS	♦MOTA	117 - 81	MC10H166N	♦MMI	217 -105	MC54F138J(2A)		125 - 25
MB416M	FCAJ	96 - 58	M[illegible]4019B	FCAJ	84 - 87	MC10H107FN	♦MOTA	91 - 8	MC10H166NL	♦MMI	217 -106		♦MOTA	
MB417	FCAJ	112 - 81	MB84019BM	FCAJ	84 - 88	MC10H107J(A)	♦MMI	91 - 15	MC10H166P	♦MOTA	217 -101	MC54F160AJ	♦MOTA	176 - 79
MB417M	FCAJ	112 - 82	MB84020B	FCAJ	171 - 20	MC10H107L	♦MOTA	91 - 9	MC10H166PD	♦MOTA	217 -102	MC54F160AN	♦MOTA	176 - 80
MB420	FCAJ	51 - 63	MB84020BM	FCAJ	171 - 21	MC10H107LD	♦MOTA	91 - 10	MC10H166PDS	♦MOTA	217 -103	MC54F161AJ	♦MOTA	159 - 10
MB420M	FCAJ	51 - 64	MB84022B	FCAJ	184 -101	MC10H107LDS	♦MOTA	91 - 11	MC10H175FN	♦MOTA	233 - 10	MC54F161AN	♦MOTA	159 - 11

b. Locate that page and line number, and you will find the electrical characteristics. The circuit and outline drawings numbers **74-53N** and **DIP14b** are in the last column and the drawings are listed sequentially in the Drawing Index. (See Table of Contents)

5. GATES

IN ORDER OF: (1) TYPE (2) INPUTS (3) CKTS PER PKG (4) tpd MAX & (5) [illegible] NO.

LINE No.	5 TYPE NUMBER	TECH	1 TYPE OF GATE	2 INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	4 tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	3 CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	HEF4086	CMS	AOI	2-2-2-2	XI	11	4.0	16e		15		400m	6.7	4	8	1	40-86B	DL ☑
2♦	HEF4086B	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		5.0uQ		4	8	1	40-86B	TO-116
3♦	HEF4086BPN	CMS	AOI	2-2-2-2	XI	11.0	4.0	16e		15		400m	6.7	4	8	1	40-86B	DIP14b
4♦	HEF4086BTD	CMS	AOI	2-2-2-2	XI	11.0	4.0	50e		15		200m	6.7	4	8	1	40-86B	FP147
5♦	HEF4086P	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		300uQ		4	8	1	40-86B	DIP14b
6♦	M53253P	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		22m†	1.0	0	7	1	74-53N	DIP14a
7♦	MB411	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
8♦	MB411M	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
9♦	MSM4086	CMS	AOI	2-2-2-2	XI	7.2	2.0	16e		10		1.4mQ	2.0 *	2	7	1	40-86B	DIP14a
10♦	MSM4086RS	CMS	AOI	2-2-2-2	XI	3.6	1.0	40		16		200m	0.6	4	8	1	40-86B	DIP14 ☑
11♦	N7453F	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0 †	0	7	1	74-53N	DIP14b
12♦	N7453N	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m		0	7	1	74-53N	DIP14a

c. Locate the drawing number in the Drawing Index and note the page number listed. EXAMPLE: 74-53N

CIRCUIT DRAWINGS

DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE
54LS568W	280	74LS49N	289	74H118P	316	74LS261N	297	74-451N	302	74LS631N	305	74AS894N	318
54-569W	280	74-50N	286	74H119P	293	74AS264N	308	74-452N	299	74LS636N	314	74C922	304
54LS573W	280	74L51N	289	74-121N	293	74-265N	297	74-453N	300	74S637N	314	74C923	304
54LS574W	280	74LS51N	289	74-122N	293	74LS266N	297	74-454P	286	74LS677N	307	74-965N	311
54ALS575	28[illegible]	74H52N	289	74-123N	293	74S268N	312	74-455P	312	74LS678N	307	74ALS1000	304
54AS576	28[illegible]	74-53N	289	74LS124N	293	74-269N	307	74-456P	314	74LS679N	307	74ALS1002N	304
54ALS577	28[illegible]	74H53N	289	74-130N	316	74-273N	297	74LS460N	305	74LS680N	307	74ALS1003N	304
54AS580	281	74H54N	289	74-131N	316	74S274	297	74LS461N	312	74LS681N	306	74ALS1008N	311
54LS591	283	74L54N	289	74LS132N	286	74S275	297	74-462	302	74LS682N	319	74ALS1020N	304

b. Turn to that section. Locate the type number that is in general agreement with your requirements. EXAMPLE: **MB411M**
Because of the sequencing, similar types will appear together.
Notice the sequencing parameters in top right corner of each page.

5. GATES

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	5 TYPE NUMBER	TECH	1 TYPE OF GATE	2 INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	4 tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	3 CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	HEF4086	CMS	AOI	2-2-2-2	XI	11	4.0	16e		15		400m	6.7	4	8	1	40-86B	DL ☑
2♦	HEF4086B	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		5.0uQ		4	8	1	40-86B	TO-116
3♦	HEF4086BPN	CMS	AOI	2-2-2-2	XI	11.0	4.0	16e		15		400m	6.7	4	8	1	40-86B	DIP14b
4♦	HEF4086BTD	CMS	AOI	2-2-2-2	XI	11.0	4.0	50e		15		200m	6.7	4	8	1	40-86B	FP147
5♦	HEF4086P	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		300uQ		4	8	1	40-86B	DIP14b
6♦	M53253P	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		22m†	1.0	0	7	1	74-53N	DIP14a
7♦	MB411	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
8♦	MB411M	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
9♦	MSM4086	CMS	AOI	2-2-2-2	XI	7.2	2.0	16e		10		1.4mQ	2.0 *	2	7	1	40-86B	DIP14a
10♦	MSM4086RS	CMS	AOI	2-2-2-2	XI	3.6	1.0	40		16		200m	0.6	4	8	1	40-86B	DIP14 ☑
11♦	N7453F	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0 †	0	7	1	74-53N	DIP14b
12♦	N7453N	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m		0	7	1	74-53N	DIP14a

Second: Turn to the TYPE NO. CROSS INDEX Section.

a. Find your selected type number '**MB411M**
b. Note manufacturers' code(s) to the right of device number. EXAMPLE: **FCAJ**
c. Note page and line number. EXAMPLE: **87-8**

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
MB406M	FCAJ	81 - 63	MB84008B	FCAJ	201 - 26	MC10H105P	♦MOTA	122 - 39	MC10H160N	♦MMI	227 - 92	MC54F86N	♦MOTA	93 - 13
MB407	FCAJ	65 - 35	MB84008BM	FCAJ	201 - 27	MC10H105PD	♦MOTA	122 - 40	MC10H160P	♦MOTA	227 - 88	MC54F109J	♦MOTA	74 - 35
MB407M	FCAJ	65 - 36	MB84011B	FCAJ	100 - 67	MC10H105PDS	♦MOTA	122 - 41	MC10H160PD	♦MOTA	227 - 89	MC54F109N	♦MOTA	74 - 36
MB408	FCAJ	198 - 46	MB84011BM	FCAJ	100 - 68	MC10H106FN	♦MOTA	117 - 75	MC10H160PDS	♦MOTA	227 - 90	MC54F112J	♦MOTA	74 - 61
MB408M	FCAJ	198 - 47	MB84012B	FCAJ	108 - 21	MC10H106L	♦MOTA	117 - 76	MC10H166FN	♦MOTA	217 - 97	MC54F112N	♦MOTA	74 - 62
MB410	FCAJ	68 - 54	MB84012BM	FCAJ	108 - 22	MC10H106LD	♦MOTA	117 - 77	MC10H166J	♦MMI	217 -104	MC54F113J	♦MOTA	74 - 63
MB410M	FCAJ	68 - 55	MB84013B	FCAJ	50 -110	MC10H106LDS	♦MOTA	117 - 78	MC10H166L	♦MOTA	217 - 98	MC54F113N	♦MOTA	74 - 64
MB411	FCAJ	87 - 7	MB84013BM	FCAJ	51 - 1	MC10H106P	♦MOTA	117 - 79	MC10H166LD	♦MOTA	217 - 99	MC54F114J	♦MOTA	73 -103
MB411M	FCAJ	87 - 8	MB84017B	FCAJ	183 - 26	MC10H106PD	♦MOTA	117 - 80	MC10H166LDS	♦MOTA	217 -100	MC54F114N	♦MOTA	73 -104
MB416	FCAJ	96 - 57	MB84017BM	FCAJ	183 - 27	MC10H106PDS	♦MOTA	117 - 81	MC10H166N	♦MMI	217 -105	MC54F138J(2A)		125 - 25
MB416M	FCAJ	96 - 58	MB84019B	FCAJ	84 - 87	MC10H107FN	♦MOTA	91 - 8	MC10H166NL	♦MMI	217 -106		♦MOTA	
MB417	FCAJ	112 - 81	MB84019BM	FCAJ	84 - 88	MC10H107J(A)	♦MMI	91 - 15	MC10H166P	♦MOTA	217 -101	MC54F160AJ	♦MOTA	176 - 79
MB417M	FCAJ	112 - 82	MB84020B	FCAJ	171 - 20	MC10H107L	♦MOTA	91 - 9	MC10H166PD	♦MOTA	217 -102	MC54F160AN	♦MOTA	176 - 80
MB420	FCAJ	51 - 63	MB84020BM	FCAJ	171 - 21	MC10H107LD	♦MOTA	91 - 10	MC10H166PDS	♦MOTA	217 -103	MC54F161AJ	♦MOTA	159 - 10
MB420M	FCAJ	51 - 64	MB84022B	FCAJ	184 -101	MC10H107LDS	♦MOTA	91 - 11	MC10H175FN	♦MOTA	233 - 10	MC54F161AN	♦MOTA	159 - 11

d. Turn to the MANUFACTURERS' CODES, & NAMES section
e. Locate manufacturers' code and name. EXAMPLE: **FCAJ**

MANUFACTURERS' CODES & NAMES

The manufacturers listed below are in order of D.A.T.A. Mfrs.' Code and reference the company name. Additional Manufacturers Profile information, sorted by company name, can be obtained on page 595.

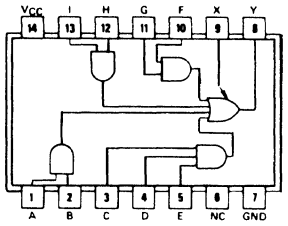
D.A.T.A. MFRS.' CODE	MANUFACTURER
AMD	Advanced Micro Devices, Inc.
AMR	American Microsemiconductor
ANA	Analog Devices, Inc.
BELI	Bharat Electronics Ltd.
CCL	★ Cal Crystal Labs, Inc.
DDC	ILC Data Device Corp.
DIS	Discon Industries, Inc.
DTL	G.E. Datel
EXR	Exar Corp.
FCAJ	Fujitsu Limited
FERB	Ferranti Electronics Ltd.

D.A.T.A. MFRS.' CODE	MANUFACTURER
NSC	National Semiconductor
OKIJ	OKI Electric Industry Co., Ltd.
PHIN	* Philips Electronic Components & Material Div.
PLSB	* Plessey Semiconductors
PUL	★ Pulse Engineering Products
RCA	RCA Corporation
RSCB	★ R. S. Components Ltd.
RTCF	* RTC-Compelec
RTN	Raytheon Company
SEP	Semi Processes Inc.
SGSI	SGS-ATES Componenti Ellectronici S.p.A.

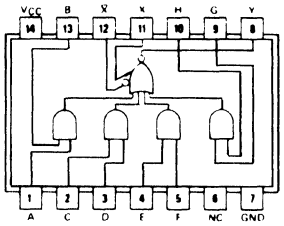
d. Turn to the page indicated and locate the drawing.

29. CIRCUIT DRAWINGS

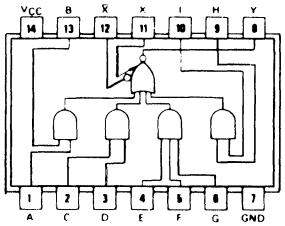
74H52N Expandable 4-Wide AND-OR Gate



74-53N Expandable 4-Wide AND-OR-INVERT Gates



74H53N Expandable 4-Wide AND OR INVERT Gates

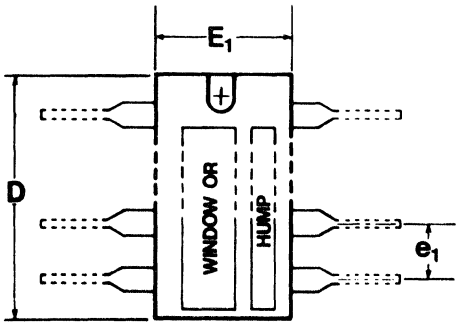


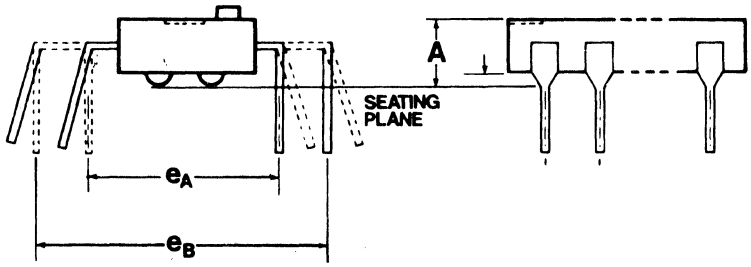
e. Locate the Outline drawing number in the Outline Drawing Index and note the page number listed. EXAMPLE: **DIP14b**

OUTLINE DRAWINGS

DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE
CH131	517	DIP12a	528	FP59a-c	555	FP134	559	FP174	568	LC42	572	PG68A	589
CH132	517	DIP14a	528	FP66	555	FP136	559	FP175	568	LC43	573	PG84	588
CH133	517	DIP14b	528	FP66a-b	555	FP137	559	FP177	569	LC44	573	PG88A	588
CH134	517	DIP14c	533	FP79	555	FP138	559	FP178	569	LC45	580	SL3A	589
CH135	517	DIP14d	533	FP79a-c	555	FP139	559	FP179	569	MD2A	581	SL4B	589

f. Turn to the page indicated and locate the drawing and it's dimensions.





OUTLINE DRAWINGS SPECIFICATIONS TABLE

Dwg. No.	Dwg. No. Suffix	DIMENSIONS IN INCHES					
		Pkg. Height A	Pkg. Length D	Pkg. Width E_1	Pin Spacing e_1	Row Sep. e_A	Offset Row Sep. e_B
DIP14	a	.105 .210	.660 .830	.220 .310	.100 BSC	.300 BSC	
	b	.065 .314	.590 .830	.200 .340	.100 BSC	.300 BSC	

DIMENSIONS IN MM					
Pkg. Height A	Pkg. Length D	Pkg. Width E_1	Pin Spacing e_1	Row Sep. e_A	Offset Row Sep. e_B
2.66 5.33	16.7 21.0	5.59 7.87	2.54 BSC	7.62 BSC	
1.65 7.98	14.98 21.0	5.08 8.63	2.54 BSC	7.62 BSC	

EXPLANATION 3

If you know:

A generic or functional equivalent device number or circuit drawing number

And need to know:

Available manufacturers, type numbers, product class, or electrical and/or mechanical characteristics

First:

Simply turn to the "Generic Index" or the "Functional Equivalence Index."

Locate the generic or functional number

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH (3)TYPE NUMBER

LINE No.	[1] FUNCTIONAL NUMBER	[2] TECH	[3] TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	[1] FUNCTIONAL NUMBER	[2] TECH	[3] TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1♦	74-50N	TTL	SFC450HE	THEF	DL	LC05	97- 24	111	74LS51	CMS	M74HC51B1(A)	SGSI	DL	LC05	90- 32
2♦	74-50N	TTL	SFC451E	THEF	DL	LC05	97- 27	112	74LS51	CMS	M74HC51F1(A)	SGSI	DL	LC05	90- 33
3	74-50N	TTL	SFC451EM	THEF	DL	LC05	88- 40	113▾	74LS51	TTL	DN74LS51P1	MATJ	DL	LC05	90- 29

GENERIC PRODUCT INDEX

IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	417	MB417M	FCAJ	GATE	123- 60	111	472	SFC472EM	THEF	FLIP FLOP	63- 65
2♦	420	MB420	FCAJ	FLIP FLOP	50- 9	112	472	SFC472ET	THEF	FLIP FLOP	63- 66
3♦	420	MB420M	FCAJ	FLIP FLOP	50- 10	113	472	SFC472HE	THEF	FLIP FLOP	61-110

Note the manufacturer type number, code, and product class and the last columns will give you page and line numbers for full details.

NOTE - Symbols and codes used in these technical sections are explained in the "Interpreter" pages at the back of the book.

DEFINITIONS OF TERMS

Interpreters and Definitions

This section defines column headings and symbols appearing in the Technical Sections of this book.

SECTION 17 MAGNITUDE COMPARATORS SECTION 17

17. MAGNITUDE COMPARATORS

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	ENABLE	TECH	[1] TYPE CODE	[2] BITS	[3] tpd MAX (s)	FEATURES	INPUTL OGIC LEVELS VIH MIN (V)	INPUTL OGIC LEVELS VIL MAX (V)	VOL IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
	✪	✪		⑤				✪						✪	✪	✪	✪	✪

⑤

A - Address Comparator
I - Identity Comparator
M - Magnitude Comparator
U - Comparator as coded above has Unified Bus application

✪ SYMBOLS AND CODES AT TOP OF FIRST INTERPRETER PAGE

INTERPRETER (Also See Symbols & Codes)

SYMBOLS: Symbols such as #,△, and $ are used in all columns, numeric or otherwise, whenever the data entries differ in some way from the entity defined in the column heading. For instance, if a given heading specifies Max. Power (in Watts) and the numeric value being entered for a given type represents the minimum power instead, the variance is denoted by the appearance of a special symbol alongside the numeric entry.

CODES: Codes are used in some columns as means to abbreviate the data being entered. The codes may be alphabetic (A,B,C, etc.) numeric (1,2,3 etc.) or some combination of both.

POWERS-OF-TEN MULTIPLIERS

The powers-of-ten multipliers shown below are used in numeric columns when the value being entered is many times greater or smaller than the units of measure indicated in the column heading. Usually, the latter are the so-called 'basic' units; such as V (volts), A (amperes) and s (seconds). The multipliers and an explanation of their use are given below:

EXPLANATION

Value of Data To Be Entered	Basic Unit In Column Heading	Actual Entry
3 milliamperes	A (amperes)	3.0m
9 megaohms	Ω (ohms)	9.0M
0.5 volt	V (volts)	500m*
10 amperes	A (amperes)	10

*May also be written as 0.5 with no multiplier

MULTIPLIERS

Power	Prefix	Symbol
10^{12}	tera	T
10^{9}	giga	G
10^{6}	mega	M
10^{3}	kilo	k
10^{-3}	milli	m
10^{-6}	micro	μ
10^{-9}	nano	n
10^{-12}	pico	p
10^{-15}	femto	f
10^{-18}	atto	a

SEQUENCING PARAMETERS

The arrangement of types in the technical sections is keyed to a set of special characteristics selected for their importance from among the general group of characteristics tabulated in each section. These selected characteristics or sequencing parameters differ from one section to another, and are identified at the top of each page as shown in the sample below.

The different types within a section are first arranged in ascending numeric (or alphabetic) order of the first such parameters. Groups of types having a common value for the first parameter are then arranged in ascending order of the second parameter. This process continues for each parameter in turn, up to and including the last parameter which, in every instance, is the type number itself. The final arrangement, by type number, is done in accordance with the sequencing of type numbers in the cross-index. The absence of an entry for any sequencing parameter is regarded as a zero and precedes any actual entries in the sequencing.

MAJOR CHARACTERISTICS — **SEQUENCING PARAMETERS**

5. GATES - AND-OR-Invert (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	RG301DC	TTL	AOI	3-3-3		1.7	1.1	6		5.0		105m†	1.0	5	C	1	4-04P	DIP14e
2♦	RG302CJ	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	FP52j
3♦	RG302CK	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	FP52k
4♦	RG302DC	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	DIP14e
5♦	RG303CJ	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	FP52j
6♦	RG303CK	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	FP52k
7♦	RG303DC	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	DIP14e
8♦	TC40H051F	CMS	AOI	3-3/2-2		4.0	1.0			10	36n	180m	.95	4	8	2	74L51N	FP166
9♦	TC40H051P	CMS	AOI	3-3/2-2		4.0	1.0	50		10	36n	300m	.95	4	8	2	74L51N	MO001AA

USING THE FUNCTIONAL EQUIVALENCE INDEX

As an aid to the design, component, repair, maintenance and purchasing professional who spends a good portion of his time looking for ICs, D.A.T.A., Inc. has developed the concept of Functional Equivalence as an aid to locating possible alternate sources.

What is a Functionally Equivalent Device?

D.A.T.A., Inc. defines an IC to be functionally equivalent to another IC if both devices exhibit identical pinouts and logic diagrams. Devices found to be functionally equivalent are assigned identical Functional Equivalent (FEMI) Numbers which are used to enable an electronic search for an alternate source. Functional Equivalence Numbers take two forms. Those that are completely numeric (ex: 54-107) indicate functional equivalence was determined by analysis of the representative device logic diagrams only. A functional equivalence number with a capital letter at the end (ex: 54-107N) indicates functional equivalence was first determined by analysis of the representative device logic diagrams AND confirmed by an independent testing laboratory.

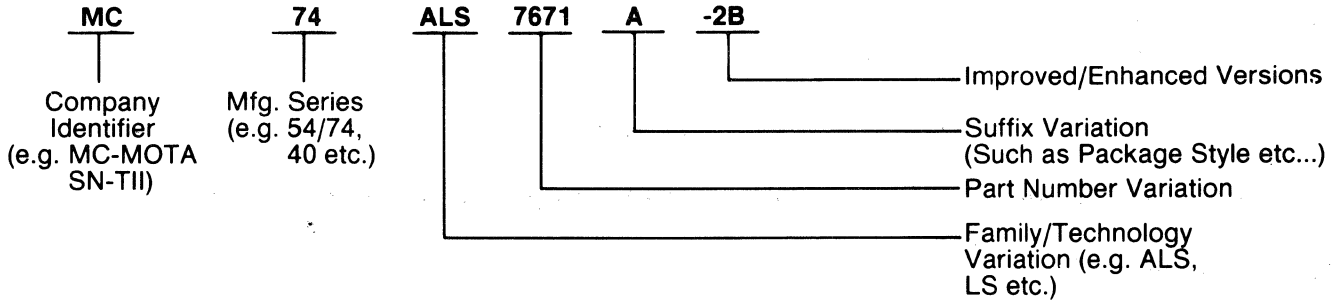
It is important to note that functional equivalence indicates pin for pin compatibility by function, but not necessarily by technology, or even less apparent subtleties such as power needs, timing diagrams, package dimensions, materials, and/or dissipation factors.

Upon identification of a specific functionally equivalent part number, which you believe will be of proper form, fit and function, it is recommended that you obtain the most recent datasheet directly from the manufacturer before making a final decision on the device.

The Type to Functional Number Equivalence Section provides the Functional Equivalence Number if the type number is known. The Functional Equivalence Number also corresponds to a drawing number which allows easy cross-reference between the Functional Equivalence Index and the drawings.

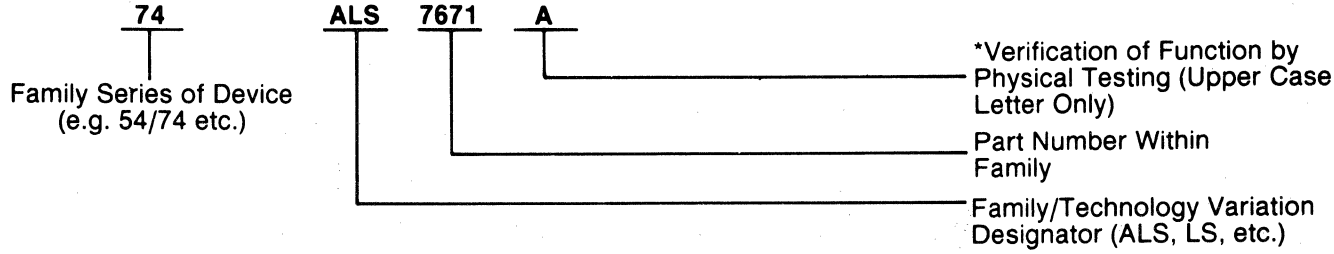
Most manufacturers use a numbering scheme as follows:

EXAMPLE: Manufacturer's type number: **MC74ALS7671A-2B**



The numbering scheme for a Functional Equivalence Number follows as closely as possible to industry practices. It is configured as follows:

EXAMPLE: Functional Equivalent Number: **74ALS7671A**



*A letter suffix indicates a verification of function by physical testing. Functional Numbers with a suffix letter have been tested for Pin-for-Pin compatibility by an independent testing facility.

DREI GRUNDSÄTZLICHE MÖGLICHKEITEN:

	Wenn Sie schon wissen:	Und Sie möchten wissen:	Lesen Sie:
1	Die elektrischen und mechanischen Anforderungen	Eine Typennummer (Bestandteil Nummer des Herstellers)	Erklärung 1
2	Eine Typennummer	Die elektrischen und/oder mechanischen Merkmale oder die Schaltkreis Zusammenstellung und Außenabmessungen oder den Hersteller oder eine Äquivalenztype	Erklärung 2
3	Eine Bauteilgattungsnummer oder eine Nummer eines funktionell gleichwertigen Bauteiles oder die Nummer des Schaltschemas	Den Hersteller oder die Typennummer oder Produktklasse oder eine Äquivalenztype oder die elektrischen und/oder mechanischen Merkmale	Erklärung 3

ERKLÄRUNG 1

Wenn Sie schon wissen:
Die elektrischen und mechanischen Anforderungen
Und Sie möchten wissen:
Eine geeignete Typennummer
Erstens:
Lesen Sie weiter bei TABLE OF CONTENTS

a. Wählen Sie aus dem Inhaltsverzeichnis den technischen Abschnitt aus der dem schon bekannten Bauteiltyp entspricht. BEISPIEL: Technischer Abschnitt 5.

4. FLIP-FLOPS
D-Type 48
JK-Type 61
RS-Type 75
RST-Type 75
T-Type 76
5. GATES
AND 77
AND-OR 85
AND-OR-INVERT 86
Exclusive NOR 92

b. Lesen Sie beim entsprechenden Abschnitt weiter. Ermitteln Sie die Typennummer, welche generell Ihren Anforderungen entspricht. BEISPIEL: **MB411M**

Auf Grund der gewählten Reihenfolge werden Sie ähnliche Typen in unmittelbarer Nachbarschaft angeführt finden.

Beachten Sie die Parameter für die gewählte Reihenfolge; diese sind in der oberen rechten Ecke auf jeder Seite angeführt.

5. GATES

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	HEF4086	CMS	AOI	2-2-2-2	XI	11	4.0	16e		15		400m	6.7	4	8	1	40-86B	DL ☑
2♦	HEF4086B	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		5.0uQ		4	8	1	40-86B	TO-116
3♦	HEF4086BPN	CMS	AOI	2-2-2-2	XI	11.0	4.0	16e		15		400m	6.7	4	8	1	40-86B	DIP14b
4♦	HEF4086BTD	CMS	AOI	2-2-2-2	XI	11.0	4.0	50e		15		200m	6.7	4	8	1	40-86B	FP147
5♦	HEF4086P	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		300uQ		4	8	1	40-86B	DIP14b
6♦	M53253P	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		22m†	1.0	0	7	1	74-53N	DIP14a
7♦	MB411	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
8♦	MB411M	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
9♦	MSM4086	CMS	AOI	2-2-2-2	XI	7.2	2.0	16e		10		1.4mQ	2.0 *	2	7	1	40-86B	DIP14a
10♦	MSM4086RS	CMS	AOI	2-2-2-2	XI	3.6	1.0	40		16		200m	0.6	4	8	1	40-86B	DIP14 ☑
11♦	N7453F	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0 †	0	7	1	74-53N	DIP14b
12♦	N7453N	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m		0	7	1	74-53N	DIP14a

Zweitens:

Lesen Sie weiter beim Abschnitt TYPE NUMBER CROSS INDEX

a. Finden Sie Ihre gewählte Typennummer **MB411M**

b. Beachten Sie den/die Hersteller-Code(s) rechts von der Bauteilnummer. BEISPIEL: **FCAJ**

c. Beachten Sie die Seitenzahl und Zeilennummer. BEISPIEL: **87-8**

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
MB406M	FCAJ	81 - 63	MB84008B	FCAJ	201 - 26	MC10H105P	♦MOTA	122 - 39	MC10H160N	♦MMI	227 - 92	MC54F86N	♦MOTA	93 - 13
MB407	FCAJ	65 - 35	MB84008BM	FCAJ	201 - 27	MC10H105PD	♦MOTA	122 - 40	MC10H160P	♦MOTA	227 - 88	MC54F109J	♦MOTA	74 - 35
MB407M	FCAJ	65 - 36	MB84011B	FCAJ	100 - 67	MC10H105PDS	♦MOTA	122 - 41	MC10H160PD	♦MOTA	227 - 89	MC54F109N	♦MOTA	74 - 36
MB408	FCAJ	198 - 46	MB84011BM	FCAJ	100 - 68	MC10H106FN	♦MOTA	117 - 75	MC10H160PDS	♦MOTA	227 - 90	MC54F112J	♦MOTA	74 - 61
MB408M	FCAJ	198 - 47	MB84012B	FCAJ	108 - 21	MC10H106L	♦MOTA	117 - 76	MC10H166FN	♦MOTA	217 - 97	MC54F112N	♦MOTA	74 - 62
MB410	FCAJ	68 - 54	MB84012BM	FCAJ	108 - 22	MC10H106LD	♦MOTA	117 - 77	MC10H166J	♦MMI	217 -104	MC54F113J	♦MOTA	74 - 63
MB410M	FCAJ	68 - 55	MB84013B	FCAJ	50 -110	MC10H106LDS	♦MOTA	117 - 78	MC10H166L	♦MOTA	217 - 98	MC54F113N	♦MOTA	74 - 64
MB411	FCAJ	87 - 7	MB84013BM	FCAJ	51 - 1	MC10H106P	♦MOTA	117 - 79	MC10H166LD	♦MOTA	217 - 99	MC54F114J	♦MOTA	73 -103
MB411M	FCAJ	87 - 8	MB84017B	FCAJ	183 - 26	MC10H106PD	♦MOTA	117 - 80	MC10H166LDS	♦MOTA	217 -100	MC54F114N	♦MOTA	73 -104
MB416	FCAJ	96 - 57	MB84017BM	FCAJ	183 - 27	MC10H106PDS	♦MOTA	117 - 81	MC10H166N	♦MMI	217 -105	MC54F138J(2A)		125 - 25
MB416M	FCAJ	96 - 58	MB84019B	FCAJ	84 - 87	MC10H107FN	♦MOTA	91 - 8	MC10H166NL	♦MMI	217 -106		♦MOTA	
MB417	FCAJ	112 - 81	MB84019BM	FCAJ	84 - 88	MC10H107J(A)	♦MMI	91 - 15	MC10H166P	♦MOTA	217 -101	MC54F160AJ	♦MOTA	176 - 79
MB417M	FCAJ	112 - 82	MB84020B	FCAJ	171 - 20	MC10H107L	♦MOTA	91 - 9	MC10H166PD	♦MOTA	217 -102	MC54F160AN	♦MOTA	176 - 80
MB420	FCAJ	51 - 63	MB84020BM	FCAJ	171 - 21	MC10H107LD	♦MOTA	91 - 10	MC10H166PDS	♦MOTA	217 -103	MC54F161AJ	♦MOTA	159 - 10
MB420M	FCAJ	51 - 64	MB84022B	FCAJ	184 -101	MC10H107LDS	♦MOTA	91 - 11	MC10H175FN	♦MOTA	233 - 10	MC54F161AN	♦MOTA	159 - 11

d. Fahren Sie fort mit dem Abschnitt MANUFACTURERS' CODES & NAMES.

e. Finden Sie den Hersteller-Code und -Namen. BEISPIEL: **FCAJ**

MANUFACTURERS' CODES & NAMES

The manufacturers listed below are in order of D.A.T.A. Mfrs.' Code and reference the company name. Additional Manufacturers Profile information, sorted by company name, can be obtained on page 595.

D.A.T.A. MFRS.' CODE	MANUFACTURER
AMD	Advanced Micro Devices, Inc.
AMR	American Microsemiconductor
ANA	Analog Devices, Inc.
BELI	Bharat Electronics Ltd.
CCL	★ Cal Crystal Labs, Inc.
DDC	ILC Data Device Corp.
DIS	Discon Industries, Inc.
DTL	G.E. Datel
EXR	Exar Corp.
FCAJ	Fujitsu Limited
FERB	Ferranti Electronics Ltd.
NSC	National Semiconductor
OKIJ	OKI Electric Industry Co., Ltd.
PHIN	* Philips Electronic Components & Material Div.
PLSB	* Plessey Semiconductors
PUL	★ Pulse Engineering Products
RCA	RCA Corporation
RSCB	★ R. S. Components Ltd.
RTCF	* RTC-Compelec
RTN	Raytheon Company
SEP	Semi Processes Inc.
SGSI	SGS-ATES Componenti Ellectronici S.p.A.

ERKLÄRUNG 2

Wenn Sie schon wissen:
Die Typennummer

Und Sie möchten wissen:
Die elektrischen Merkmale

Erstens:
Fahren Sie fort mit TYPE NUMBER CROSS INDEX und finden Sie dort Ihre Typennummer.

a. Merken Sie sich die Seitenzahl und Zeilennummer neben Ihrer Type. BEISPIEL: **87-8**

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
MB406M	FCAJ	81 - 63	MB84008B	FCAJ	201 - 26	MC10H105P	♦MOTA	122 - 39	MC10H160N	♦MMI	227 - 92	MC54F86N	♦MOTA	93 - 13
MB407	FCAJ	65 - 35	MB84008BM	FCAJ	201 - 27	MC10H105PD	♦MOTA	122 - 40	MC10H160P	♦MOTA	227 - 88	MC54F109J	♦MOTA	74 - 35
MB407M	FCAJ	65 - 36	MB84011B	FCAJ	100 - 67	MC10H105PDS	♦MOTA	122 - 41	MC10H160PD	♦MOTA	227 - 89	MC54F109N	♦MOTA	74 - 36
MB408	FCAJ	198 - 46	MB84011BM	FCAJ	100 - 68	MC10H106FN	♦MOTA	117 - 75	MC10H160PDS	♦MOTA	227 - 90	MC54F112J	♦MOTA	74 - 61
MB408M	FCAJ	198 - 47	MB84012B	FCAJ	108 - 21	MC10H106L	♦MOTA	117 - 76	MC10H166FN	♦MOTA	217 - 97	MC54F112N	♦MOTA	74 - 62
MB410	FCAJ	68 - 54	MB84012BM	FCAJ	108 - 22	MC10H106LD	♦MOTA	117 - 77	MC10H166J	♦MMI	217 -104	MC54F113J	♦MOTA	74 - 63
MB410M	FCAJ	68 - 55	M[illegible]4013B	FCAJ	50 -110	MC10H106LDS	♦MOTA	117 - 78	MC10H166L	♦MOTA	217 - 98	MC54F113N	♦MOTA	74 - 64
MB411	FCAJ	87 - 7	[illegible]4013BM	FCAJ	51 - 1	MC10H106P	♦MOTA	117 - 79	MC10H166LD	♦MOTA	217 - 99	MC54F114J	♦MOTA	73 -103
MB411M	FCAJ	87 - 8	[illegible]4017B	FCAJ	183 - 26	MC10H106PD	♦MOTA	117 - 80	MC10H166LDS	♦MOTA	217 -100	MC54F114N	♦MOTA	73 -104
MB416	FCAJ	96 - 57	[illegible]4017BM	FCAJ	183 - 27	MC10H106PDS	♦MOTA	117 - 81	MC10H166N	♦MMI	217 -105	MC54F138J(2A)		125 - 25
MB416M	FCAJ	96 - 58	M[illegible]4019B	FCAJ	84 - 87	MC10H107FN	♦MOTA	91 - 8	MC10H166NL	♦MMI	217 -106		♦MOTA	
MB417	FCAJ	112 - 81	MB84019BM	FCAJ	84 - 88	MC10H107J(A)	♦MMI	91 - 15	MC10H166P	♦MOTA	217 -101	MC54F160AJ	♦MOTA	176 - 79
MB417M	FCAJ	112 - 82	MB84020B	FCAJ	171 - 20	MC10H107L	♦MOTA	91 - 9	MC10H166PD	♦MOTA	217 -102	MC54F160AN	♦MOTA	176 - 80
MB420	FCAJ	51 - 63	MB84020BM	FCAJ	171 - 21	MC10H107LD	♦MOTA	91 - 10	MC10H166PDS	♦MOTA	217 -103	MC54F161AJ	♦MOTA	159 - 10
MB420M	FCAJ	51 - 64	MB84022B	FCAJ	184 -101	MC10H107LDS	♦MOTA	91 - 11	MC10H175FN	♦MOTA	233 - 10	MC54F161AN	♦MOTA	159 - 11

b. Wenn Sie die entsprechende Seite aufschlagen, werden Sie bei der angegebenen Zeilennummer die elektrischen Merkmale finden. Die Nummern für das entsprechende Schaltschema und für die Zeichnung der Außenabmessungen des Bauteiles, **74-53N** und **DIP14b** sind in der letzten Kolonne angegeben, während die Zeichnungen selbst der Reihenfolge nach im "Drawing Index" angeführt sind. (Siehe Inhaltsverzeichnis.)

5. GATES

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	HEF4086	CMS	AOI	2-2-2-2	XI	11	4.0	16e		15		400m	6.7	4	8	1	40-86B	DL ☑
2♦	HEF4086B	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		5.0uQ		4	8	1	40-86B	TO-116
3♦	HEF4086BPN	CMS	AOI	2-2-2-2	XI	11.0	4.0	16e		15		400m	6.7	4	8	1	40-86B	DIP14b
4♦	HEF4086BTD	CMS	AOI	2-2-2-2	XI	11.0	4.0	50e		15		200m	6.7	4	8	1	40-86B	FP147
5♦	HEF4086P	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		300uQ		4	8	1	40-86B	DIP14b
6♦	M53253P	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		22m†	1.0	0	7	1	74-53N	DIP14a
7♦	MB411	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
8♦	MB411M	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
9♦	MSM4086	CMS	AOI	2-2-2-2	XI	7.2	2.0	16e		10		1.4mQ	2.0 *	2	7	1	40-86B	DIP14a
10♦	MSM4086RS	CMS	AOI	2-2-2-2	XI	3.6	1.0	40		16		200m	0.6	4	8	1	40-86B	DIP14 ☑
11♦	N7453F	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0 †	0	7	1	74-53N	DIP14b
12♦	N7453N	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m		0	7	1	74-53N	DIP14a

c. Wenn Sie die Zeichnungsnummer im "Drawing Index" gefunden haben, merken Sie sich Sie die angegebene Seitenzahl. BEISPIEL: 74-53N

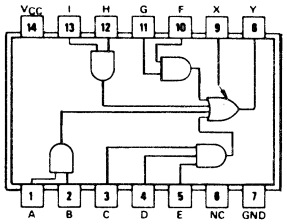
CIRCUIT DRAWINGS

DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE
54LS568W	280	74LS49N	289	74H118P	316	74LS261N	297	74-451N	302	74LS631N	305	74AS894N	318
54-569W	280	74-50N	286	74H119P	293	74AS264N	308	74-452N	299	74LS636N	314	74C922	304
54LS573W	280	74L51N	289	74-121N	293	74-265N	297	74-453N	300	74S637N	314	74C923	304
54LS574W	280	74LS51N	289	74-122N	293	74LS266N	297	74-454P	286	74LS677N	307	74-965N	311
54ALS575	28[illegible]	74H52N	289	74-123N	293	74S268N	312	74-455P	312	74LS678N	307	74ALS1000	304
54AS576	28[illegible]	74-53N	289	74LS124N	293	74-269N	307	74-456P	314	74LS679N	307	74ALS1002N	304
54ALS577	28[illegible]	74H53N	289	74-130N	316	74-273N	297	74LS460N	305	74LS680N	307	74ALS1003N	304
54AS580	281	74H54N	289	74-131N	316	74S274	297	74LS461N	312	74LS681N	306	74ALS1008N	311
54LS591	283	74L54N	289	74LS132N	286	74S275	297	74-462	302	74LS682N	319	74ALS1020N	304

d. Auf der angeführten Seite finden Sie dann die gewünschte Schaltskizze.

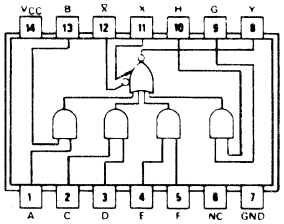
29. CIRCUIT DRAWINGS

74H52N Expandable 4-Wide AND-OR Gat



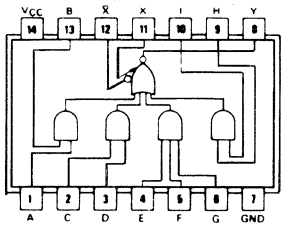
74-53N

Expandable 4-Wide AND-OR-INVERT Gates



74H53N

Expandable 4-Wide AND-OR INVERT Gates

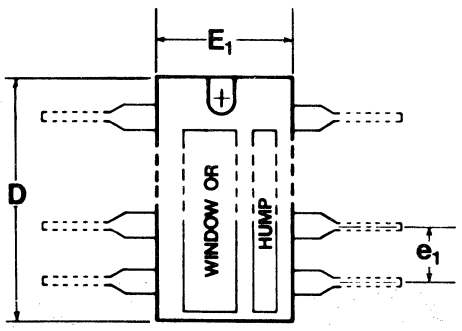


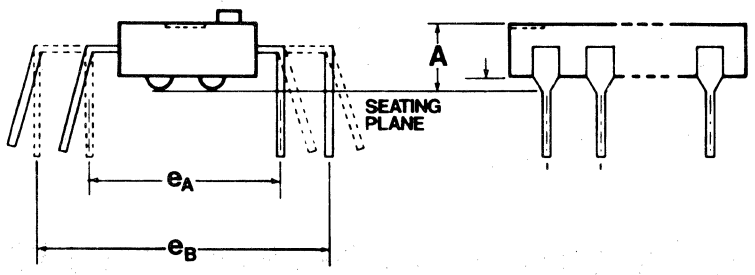
e. Nachdem Sie die Nummer für die Zeichnung der Außenabmessungen im "Outline Drawing Index" gefunden haben, merken Sie sich die angeführte Seitenzahl. BEISPIEL: **DIP14b**

OUTLINE DRAWINGS

DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE
CH131	517	DIP12a	528	FP59a-c	555	FP134	559	FP174	568	LC42	572	PG68A	589
CH132	517	DIP14a	528	FP66	555	FP136	559	FP175	568	LC43	573	PG84	588
CH133	517	DIP14b	528	FP66a-b	555	FP137	559	FP177	569	LC44	573	PG88A	588
CH134	517	DIP14c	533	FP79	555	FP138	559	FP178	569	LC45	580	SL3A	589
CH135	517	DIP14d	533	FP79a-c	555	FP139	559	FP179	569	MD2A	581	SL4B	589

f. Schlagen Sie die angegebene Seite auf. Sie werden dort die gesuchte Zeichnung und die dazugehörigen Abmessungen finden.





OUTLINE DRAWINGS SPECIFICATIONS TABLE

Dwg. No.	Dwg. No. Suffix	DIMENSIONS IN INCHES: Pkg. Height A	Pkg. Length D	Pkg. Width E_1	Pin Spacing e_1	Row Sep. e_A	Offset Row Sep. e_B
DIP14	a	.105 / .210	.660 / .830	.220 / .310	.100 BSC	.300 BSC	
	b	.065 / .314	.590 / .830	.200 / .340	.100 BSC	.300 BSC	

DIMENSIONS IN MM: Pkg. Height A	Pkg. Length D	Pkg. Width E_1	Pin Spacing e_1	Row Sep. e_A	Offset Row Sep. e_B
2.66 / 5.33	16.7 / 21.0	5.59 / 7.87	2.54 BSC	7.62 BSC	
1.65 / 7.98	14.98 / 21.0	5.08 / 8.63	2.54 BSC	7.62 BSC	

ERKLÄRUNG 3

Wenn Sie schon wissen:
Eine Bauteilgattungsnummer oder die Nummer eines funktionell gleichwertigen Bauteils oder die Nummer des Schaltschemas
Und Sie möchten wissen:
Verfügbare Hersteller, Typennummern, Produktklasse, oder elektrische und/oder mechanische Merkmale
Erstens:
Lesen Sie beim "Generic Index" oder "Functional Equivalent Index" weiter und finden Sie die Bauteilgattungsnummer oder funktionell gleichwertige Bauteilnummer.

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH (3)TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1♦	74-50N	TTL	SFC450HE	THEF	DL	LC05	97- 24	111	74LS51	CMS	M74HC51B1(A)	SGSI	DL	LC05	90- 32
2♦	74-50N	TTL	SFC451E	THEF	DL	LC05	97- 27	112	74LS51	CMS	M74HC51F1(A)	SGSI	DL	LC05	90- 33
3	74-50N	TTL	SFC451EM	THEF	DL	LC05	88- 40	113▾	74LS51	TTL	DN74LS51P1	MATJ	DL	LC05	90- 29

GENERIC PRODUCT INDEX

IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	417	MB417M	FCAJ	GATE	123- 60	111	472	SFC472EM	THEF	FLIP FLOP	63- 65
2♦	420	MB420	FCAJ	FLIP FLOP	50- 9	112	472	SFC472ET	THEF	FLIP FLOP	63- 66
3♦	420	MB420M	FCAJ	FLIP FLOP	50- 10	113	472	SFC472HE	THEF	FLIP FLOP	61-110

Beachten Sie die Hersteller-Typennummer und -Code sowie die Produktklasse; die letzte Kolonne weist Sie dann auf die Seitenzahl und Zeilennummer hin wo Sie volle Einzelheiten finden können.

HINWEIS—Die in diesen technischen Abschnitten verwandten Symbole und Codes sind am Ende des Buches unter "Interpreter" erklärt.

BEGRIFFSDEFINITIONEN

ERLÄUTERUNGEN UND DEFINITIONEN

In diesem Abschnitt werden die Kolonnenüberschriften und Symbole, welche in den technischen Abschnitten dieses Buches erscheinen, definiert.

SECTION 17 MAGNITUDE COMPARATORS SECTION 17

17. MAGNITUDE COMPARATORS

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	ENABLE	TECH	1 TYPE CODE	2 BITS	3 tpd MAX (s)	FEATURES	INPUTL OGIC LEVELS VIH MIN (V)	VIL MAX (V)	VOL IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪			(5)				✪						✪	✪	✪	✪	✪

(5)

A - Address Comparator
I - Identity Comparator
M - Magnitude Comparator
U - Comparator as coded above has Unified Bus application

✪ SYMBOLS AND CODES AT TOP OF FIRST INTERPRETER PAGE

ERLÄUTERUNGEN (siehe auch Symbole & Codes)

SYMBOLE: Symbole wie #, ▲, und $ werden in allen Kolonnen verwendet, wenn immer sich die Eintragungen in irgendeiner Weise von den in den Kolonnentiteln definierten unterscheiden, gleichgültig ob diese von numerischer oder anderer Natur sind. Zum Beispiel, ist der gegebene Titel definiert als "Max. Power (in Watts)" und der eingetragene numerische Wert repräsentiert aber die Minimalleistung, so wird diese Abweichung durch ein spezielles Symbol neben der numerischen Eintragung gekennzeichnet.

CODES: Codes werden in manchen Kolonnen benutzt um eingetragene Daten abzukürzen. Diese Codes können alphabetischer (A, B, C etc.), numerischer (1, 2, 3 etc.) Natur oder auch eine Kombination aus beiden sein.

MULTIPLIKATIONSFAKTOREN FÜR ZEHNERPOTENZEN

Die Multiplikationsfaktoren für Zehnerpotenzen, die im Folgenden angeführt sind, werden dann in numerischen Kolonnen gebraucht wenn der eingetragene Wert viele Male größer oder kleiner ist als die Maßeinheit welche im Kolonnentitel angegeben ist. Diese sind normalerweise die sogenannten Grundeinheiten wie V (Volt), A (Ampere) und s (Sekunden). Die Multiplikationsfaktoren und eine Erklärung für ihren Gebrauch sind wie folgt:

ERKLÄRUNG

Einzutragender Zahlenwert	Grundeinheit im Kolonnentitel	Tatsächliche Eintragung
3 milliamperes	A (amperes)	3.0m
9 megaohms	Ω (ohms)	9.0M
0.5 volt	V (volts)	500m *
10 amperes	A (amperes)	10

*Kann auch mit 0.5 ohne Multiplikator angegeben sein.

MULTIPLIKATOREN

Zehnerpotenz	Präfix	Symbol
10^{12}	tera	T
10^{9}	giga	G
10^{6}	mega	M
10^{3}	kilo	k
10^{-3}	milli	m
10^{-6}	micro	μ
10^{-9}	nano	n
10^{-12}	pico	p
10^{-15}	femto	f
10^{-18}	atto	a

SEQUENZ-BESTIMMENDE PARAMETER

Die Reihenfolge der angeführten Typen in den technischen Abschnitten ist durch eine Gruppe von speziellen Merkmalen bestimmt, welche nach ihrer Wichtigkeit unter den angegebenen allgemeinen Merkmalen eines Abschnittes ausgewählt wurden. Diese gewählten Merkmale oder Sequenz-Parameter unterscheiden sich von einem Abschnitt zum anderen und sind am Kopf jeder Seite, wie das Beispiel unten zeigt, identifiziert.

Die verschiedenen Typen innerhalb eines Abschnittes sind zuerst in steigender numerischer (oder alphabetischer) Reihenfolge des ersten Parameters angeordnet. Jene Gruppe von Typen, welche einen gemeinsamen Wert für den ersten Parameter aufweist, ist in steigender Reihenfolge des zweiten Parameters angeführt. Dieser Prozess setzt sich für jeden einzelnen Parameter der Reihe nach fort bis einschließlich des letzten welcher dann in jedem Fall die Typennummer selbst ist. Die endgültige Anordnung nach Typennummern ist in Übereinstimmung mit der im "Cross Index" verwandten Reihenfolge. Das Fehlen einer Eintragung für einen Sequenz-Parameter wird als Null gewertet und wird deshalb allen anderen tatsächlichen Eintragungen in der Reihenfolge vorangestellt.

MAJOR CHARACTERISTICS — **SEQUENCING PARAMETERS**

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

5. GATES - AND-OR-Invert (Cont'd)

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	RG301DC	TTL	AOI	3-3-3		1.7	1.1	6		5.0		105m†	1.0	5	C	1	4-04P	DIP14e
2♦	RG302CJ	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	FP52j
3♦	RG302CK	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	FP52k
4♦	RG302DC	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	DIP14e
5♦	RG303CJ	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	FP52j
6♦	RG303CK	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	FP52k
7♦	RG303DC	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	DIP14e
8♦	TC40H051F	CMS	AOI	3-3/2-2		4.0	1.0			10	36n	180m	.95	4	8	2	74L51N	FP166
9♦	TC40H051P	CMS	AOI	3-3/2-2		4.0	1.0	50		10	36n	300m	.95	4	8	2	74L51N	MO001AA

TRES MODOS BASICOS:

	Si conoce:	Y necesita saber:	Lea:
1	Los requerimientos eléctricos y mecánicos	Un número de tipo (Número de parte del fabricante)	Explicación 1
2	Un número de tipo	Las características eléctricas y/o mecánicas o su circuito y configuración de trazo o el fabricante o un tipo equivalente	Explicación 2
3	Un número genérico de la parte o un número funcional equivalente de la parte o un número del esquema del circuito	El fabricante o el número de tipo o la clase del producto o los tipos equivalentes o las características eléctricas y/o mecánicas	Explicación 3

EXPLICACION 1

Si conoce:
Los requerimientos eléctricos y mecánicos
Y necesita saber:
Un número de tipo adecuado
Primero:
Refiérase a la Sección TABLE OF CONTENTS

a. Seleccione del Contenido la Sección Técnica correspondiente al tipo conocido de la parte. EJEMPLO: Sección Técnica 5

4. FLIP-FLOPS
D-Type 48
JK-Type 61
RS-Type 75
RST-Type 75
T-Type 76
5. GATES
AND 77
AND-OR 85
AND-OR-INVERT 86
Exclusive NOR 92

b. Refiérase a esa Sección. Localice el número de tipo que concuerde en general con sus requerimientos. EJEMPLO: **MB411M**

Debido al orden en secuencia, los tipos similares aparecerán juntos.

Nótense los parámetros secuenciales en la esquina superior derecha de cada página.

5. GATES

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	HEF4086	CMS	AOI	2-2-2-2	XI	11	4.0	16e		15		400m	6.7	4	8	1	40-86B	DL ⊠
2♦	HEF4086B	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		5.0uQ		4	8	1	40-86B	TO-116
3♦	HEF4086BPN	CMS	AOI	2-2-2-2	XI	11.0	4.0	16e		15		400m	6.7	4	8	1	40-86B	DIP14b
4♦	HEF4086BTD	CMS	AOI	2-2-2-2	XI	11.0	4.0	50e		15		200m	6.7	4	8	1	40-86B	FP147
5♦	HEF4086P	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		300uQ		4	8	1	40-86B	DIP14b
6♦	M53253P	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		22m†	1.0	0	7	1	74-53N	DIP14a
7♦	MB411	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
8♦	MB411M	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
9♦	MSM4086	CMS	AOI	2-2-2-2	XI	7.2	2.0	16e		10		1.4mQ	2.0 *	2	7	1	40-86B	DIP14a
10♦	MSM4086RS	CMS	AOI	2-2-2-2	XI	3.6	1.0	40		16		200m	0.6	4	8	1	40-86B	DIP14 ⊠
11♦	N7453F	TTL	AOI	2-2-2-2	XI	2.0	0.8	10	5.0			47m	1.0 †	0	7	1	74-53N	DIP14b
12♦	N7453N	TTL	AOI	2-2-2-2	XI	2.0	0.8	10	5.0			47m		0	7	1	74-53N	DIP14a

Segundo:

Refiérase a la Sección TYPE NUMBER CROSS INDEX

a. Encuentre su número de tipo seleccionado **MB411M**

b. Note el (los) código(s) a la derecha del número de parte. EJEMPLO: **FCAJ**

c. Note el número de página y línea. EJEMPLO: **87-8**

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
MB406M	FCAJ	81 - 63	MB84008B	FCAJ	201 - 26	MC10H105P	♦MOTA	122 - 39	MC10H160N	♦MMI	227 - 92	MC54F86N	♦MOTA	93 - 13
MB407	FCAJ	65 - 35	MB84008BM	FCAJ	201 - 27	MC10H105PD	♦MOTA	122 - 40	MC10H160P	♦MOTA	227 - 88	MC54F109J	♦MOTA	74 - 35
MB407M	FCAJ	65 - 36	MB84011B	FCAJ	100 - 67	MC10H105PDS	♦MOTA	122 - 41	MC10H160PD	♦MOTA	227 - 89	MC54F109N	♦MOTA	74 - 36
MB408	FCAJ	198 - 46	MB84011BM	FCAJ	100 - 68	MC10H106FN	♦MOTA	117 - 75	MC10H160PDS	♦MOTA	227 - 90	MC54F112J	♦MOTA	74 - 61
MB408M	FCAJ	198 - 47	MB84012B	FCAJ	108 - 21	MC10H106L	♦MOTA	117 - 76	MC10H166FN	♦MOTA	217 - 97	MC54F112N	♦MOTA	74 - 62
MB410	FCAJ	68 - 54	MB84012BM	FCAJ	108 - 22	MC10H106LD	♦MOTA	117 - 77	MC10H166J	♦MMI	217 -104	MC54F113J	♦MOTA	74 - 63
MB410M	FCAJ	68 - 55	MB84013B	FCAJ	50 -110	MC10H106LDS	♦MOTA	117 - 78	MC10H166L	♦MOTA	217 - 98	MC54F113N	♦MOTA	74 - 64
MB411	FCAJ	87 - 7	MB84013BM	FCAJ	51 - 1	MC10H106P	♦MOTA	117 - 79	MC10H166LD	♦MOTA	217 - 99	MC54F114J	♦MOTA	73 -103
MB411M	FCAJ	87 - 8	MB84017B	FCAJ	183 - 26	MC10H106PD	♦MOTA	117 - 80	MC10H166LDS	♦MOTA	217 -100	MC54F114N	♦MOTA	73 -104
MB416	FCAJ	96 - 57	MB84017BM	FCAJ	183 - 27	MC10H106PDS	♦MOTA	117 - 81	MC10H166N	♦MMI	217 -105	MC54F138J(2A)		125 - 25
MB416M	FCAJ	96 - 58	MB84019B	FCAJ	84 - 87	MC10H107FN	♦MOTA	91 - 8	MC10H166NL	♦MMI	217 -106		♦MOTA	
MB417	FCAJ	112 - 81	MB84019BM	FCAJ	84 - 88	MC10H107J(A)	♦MMI	91 - 15	MC10H166P	♦MOTA	217 -101	MC54F160AJ	♦MOTA	176 - 79
MB417M	FCAJ	112 - 82	MB84020B	FCAJ	171 - 20	MC10H107L	♦MOTA	91 - 9	MC10H166PD	♦MOTA	217 -102	MC54F160AN	♦MOTA	176 - 80
MB420	FCAJ	51 - 63	MB84020BM	FCAJ	171 - 21	MC10H107LD	♦MOTA	91 - 10	MC10H166PDS	♦MOTA	217 -103	MC54F161AJ	♦MOTA	159 - 10
MB420M	FCAJ	51 - 64	MB84022B	FCAJ	184 -101	MC10H107LDS	♦MOTA	91 - 11	MC10H175FN	♦MOTA	233 - 10	MC54F161AN	♦MOTA	159 - 11

d. Refiérase a la Sección MANUFACTURERS' CODES & NAMES.

e. Localice el código y nombre del fabricante. EJEMPLO: **FCAJ**

MANUFACTURERS' CODES & NAMES

The manufacturers listed below are in order of D.A.T.A. Mfrs.' Code and reference the company name. Additional Manufacturers Profile information, sorted by company name, can be obtained on page 595.

D.A.T.A. MFRS.' CODE	MANUFACTURER
AMD	Advanced Micro Devices, Inc.
AMR	American Microsemiconductor
ANA	Analog Devices, Inc.
BELI	Bharat Electronics Ltd.
CCL	★ Cal Crystal Labs, Inc.
DDC	ILC Data Device Corp.
DIS	Discon Industries, Inc.
DTL	G.E. Datel
EXR	Exar Corp.
FCAJ	Fujitsu Limited
FERB	Ferranti Electronics Ltd.
NSC	National Semiconductor
OKIJ	OKI Electric Industry Co., Ltd.
PHIN	* Philips Electronic Components & Material Div.
PLSB	* Plessey Semiconductors
PUL	★ Pulse Engineering Products
RCA	RCA Corporation
RSCB	★ R. S. Components Ltd.
RTCF	* RTC-Compelec
RTN	Raytheon Company
SEP	Semi Processes Inc.
SGSI	SGS-ATES Componenti Ellectronici S.p.A.

EXPLICACION 2

Si conoce:
El número de tipo
Y necesita saber:
Las características eléctricas
Primero:
Refiérase a la sección TYPE NUMBER CROSS INDEX y encuentre su número de tipo.

a. Note el número de página y línea al lado de su tipo. EJEMPLO: **87-8**

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
MB406M	FCAJ	81 - 63	MB84008B	FCAJ	201 - 26	MC10H105P	♦MOTA	122 - 39	MC10H160N	♦MMI	227 - 92	MC54F86N	♦MOTA	93 - 13
MB407	FCAJ	65 - 35	MB84008BM	FCAJ	201 - 27	MC10H105PD	♦MOTA	122 - 40	MC10H160P	♦MOTA	227 - 88	MC54F109J	♦MOTA	74 - 35
MB407M	FCAJ	65 - 36	MB84011B	FCAJ	100 - 67	MC10H105PDS	♦MOTA	122 - 41	MC10H160PD	♦MOTA	227 - 89	MC54F109N	♦MOTA	74 - 36
MB408	FCAJ	198 - 46	MB84011BM	FCAJ	100 - 68	MC10H106FN	♦MOTA	117 - 75	MC10H160PDS	♦MOTA	227 - 90	MC54F112J	♦MOTA	74 - 61
MB408M	FCAJ	198 - 47	MB84012B	FCAJ	108 - 21	MC10H106L	♦MOTA	117 - 76	MC10H166FN	♦MOTA	217 - 97	MC54F112N	♦MOTA	74 - 62
MB410	FCAJ	68 - 54	MB84012BM	FCAJ	108 - 22	MC10H106LD	♦MOTA	117 - 77	MC10H166J	♦MMI	217 -104	MC54F113J	♦MOTA	74 - 63
MB410M	FCAJ	68 - 55	MB84013B	FCAJ	50 -110	MC10H106LDS	♦MOTA	117 - 78	MC10H166L	♦MOTA	217 - 98	MC54F113N	♦MOTA	74 - 64
MB411	FCAJ	87 - 7	MB84013BM	FCAJ	51 - 1	MC10H106P	♦MOTA	117 - 79	MC10H166LD	♦MOTA	217 - 99	MC54F114J	♦MOTA	73 -103
MB411M	FCAJ	87 - 8	MB84017B	FCAJ	183 - 26	MC10H106PD	♦MOTA	117 - 80	MC10H166LDS	♦MOTA	217 -100	MC54F114N	♦MOTA	73 -104
MB416	FCAJ	96 - 57	MB84017BM	FCAJ	183 - 27	MC10H106PDS	♦MOTA	117 - 81	MC10H166N	♦MMI	217 -105	MC54F138J(2A)		125 - 25
MB416M	FCAJ	96 - 58	MB84019B	FCAJ	84 - 87	MC10H107FN	♦MOTA	91 - 8	MC10H166NL	♦MMI	217 -106		♦MOTA	
MB417	FCAJ	112 - 81	MB84019BM	FCAJ	84 - 88	MC10H107J(A)	♦MMI	91 - 15	MC10H166P	♦MOTA	217 -101	MC54F160AJ	♦MOTA	176 - 79
MB417M	FCAJ	112 - 82	MB84020B	FCAJ	171 - 20	MC10H107L	♦MOTA	91 - 9	MC10H166PD	♦MOTA	217 -102	MC54F160AN	♦MOTA	176 - 80
MB420	FCAJ	51 - 63	MB84020BM	FCAJ	171 - 21	MC10H107LD	♦MOTA	91 - 10	MC10H166PDS	♦MOTA	217 -103	MC54F161AJ	♦MOTA	159 - 10
MB420M	FCAJ	51 - 64	MB84022B	FCAJ	184 -101	MC10H107LDS	♦MOTA	91 - 11	MC10H175FN	♦MOTA	233 - 10	MC54F161AN	♦MOTA	159 - 11

b. Localice ese número de página y línea y encontrará las características eléctricas. Los números del circuito y del dibujo esquemático **74-53N** y **DIP14b** están en la última columna y los dibujos se enumeran en secuencia en el "Drawing Index". (Véase el Contenido.)

5. GATES

IN ORDER OF: (1) TYPE (2) INPUTS PER GATE (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	5 TYPE NUMBER	TECH	1 TYPE OF GATE	2 INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	4 tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	3 CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	HEF4086	CMS	AOI	2-2-2-2	XI	11	4.0	16e		15		400m	6.7	4	8	1	40-86B	DL ☑
2♦	HEF4086B	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		5.0uQ		4	8	1	40-86B	TO-116
3♦	HEF4086BPN	CMS	AOI	2-2-2-2	XI	11.0	4.0	16e		15		400m	6.7	4	8	1	40-86B	DIP14b
4♦	HEF4086BTD	CMS	AOI	2-2-2-2	XI	11.0	4.0	50e		15		200m	6.7	4	8	1	40-86B	FP147
5♦	HEF4086P	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		300uQ		4	8	1	40-86B	DIP14b
6♦	M53253P	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		22m†	1.0	0	7	1	74-53N	DIP14a
7♦	MB411	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
8♦	MB411M	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
9♦	MSM4086	CMS	AOI	2-2-2-2	XI	7.2	2.0	16e		10		1.4mQ	2.0 *	2	7	1	40-86B	DIP14a
10♦	MSM4086RS	CMS	AOI	2-2-2-2	XI	3.6	1.0	40		16		200m	0.6	4	8	1	40-86B	DIP14 ☑
11♦	N7453F	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0 †	0	7	1	74-53N	DIP14b
12♦	N7453N	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m		0	7	1	74-53N	DIP14a

c. Localice el número del dibujo en el "Drawing Index" y note el número de página indicado. EJEMPLO: 74-53N

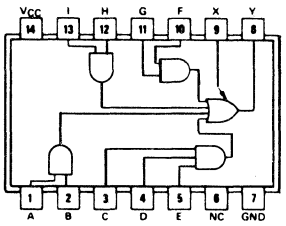
CIRCUIT DRAWINGS

DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE
54LS568W	280	74LS49N	289	74H118P	316	74LS261N	297	74-451N	302	74LS631N	305	74AS894N	318
54-569W	280	74-50N	286	74H119P	293	74AS264N	308	74-452N	299	74LS636N	314	74C922	304
54LS573W	280	74L51N	289	74-121N	293	74-265N	297	74-453N	300	74S637N	314	74C923	304
54LS574W	280	74LS51N	289	74-122N	293	74LS266N	297	74-454P	286	74LS677N	307	74-965N	311
54ALS575	28	74H52N	289	74-123N	293	74S268N	312	74-455P	312	74LS678N	307	74ALS1000	304
54AS576	28	74-53N	289	74LS124N	293	74-269N	307	74-456P	314	74LS679N	307	74ALS1002N	304
54ALS577	28	74H53N	289	74-130N	316	74-273N	297	74LS460N	305	74LS680N	307	74ALS1003N	304
54AS580	281	74H54N	289	74-131N	316	74S274	297	74LS461N	312	74LS681N	306	74ALS1008N	311
54LS591	283	74L54N	289	74LS132N	286	74S275	297	74-462	302	74LS682N	319	74ALS1020N	304

d. Refiérase a la página indicada y localice el dibujo.

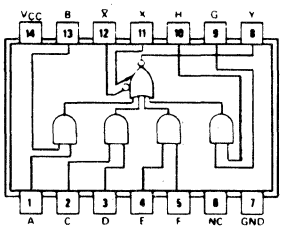
29. CIRCUIT DRAWINGS

74H52N Expandable 4-Wide AND-OR Gate



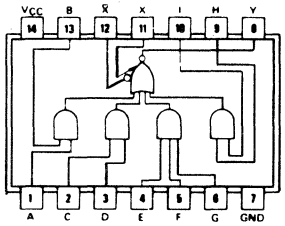
74-53N

Expandable 4-Wide AND-OR-INVERT Gates



74H53N

Expandable 4-Wide AND OR INVERT Gates



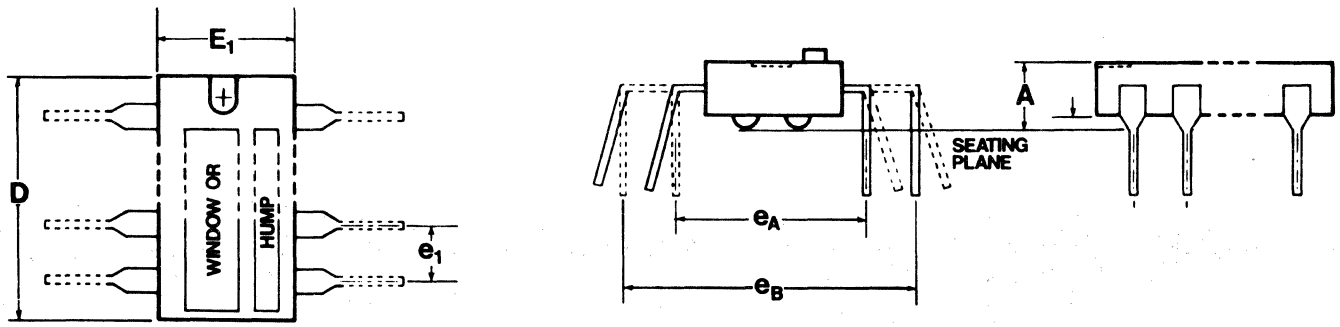
e. Localice el número del dibujo esquemático en el "Outline Drawing Index" y note el número de página indicado. EJEMPLO: **DIP14b**

OUTLINE DRAWINGS

DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE
CH131	517	DIP12a	528	FP59a-c	555	FP134	559	FP174	568	LC42	572	PG68A	589
CH132	517	DIP14a	528	FP66	555	FP136	559	FP175	568	LC43	573	PG84	588
CH133	517	DIP14b	528	FP66a-b	555	FP137	559	FP177	569	LC44	573	PG88A	588
CH134	517	DIP14c	533	FP79	555	FP138	559	FP178	569	LC45	580	SL3A	589
CH135	517	DIP14d	533	FP79a-c	555	FP139	559	FP179	569	MD2A	581	SL4B	589

f. Refiérase a la página indicada y localice el dibujo y sus dimensiones.

30. OUTLINE DRAWINGS



OUTLINE DRAWINGS SPECIFICATIONS TABLE

Dwg. No.	Dwg. No. Suffix	DIMENSIONS IN INCHES					
		Pkg. Height A	Pkg. Length D	Pkg. Width E_1	Pin Spacing e_1	Row Sep. e_A	Offset Row Sep. e_B
DIP14	a	.105 .210	.660 .830	.220 .310	.100 BSC	.300 BSC	
	b	.065 .314	.590 .830	.200 .340	.100 BSC	.300 BSC	

DIMENSIONS IN MM					
Pkg. Height A	Pkg. Length D	Pkg. Width E_1	Pin Spacing e_1	Row Sep. e_A	Offset Row Sep. e_B
2.66 5.33	16.7 21.0	5.59 7.87	2.54 BSC	7.62 BSC	
1.65 7.98	14.98 21.0	5.08 8.63	2.54 BSC	7.62 BSC	

EXPLICACION 3

Si conoce:
Un número genérico o funcional equivalente de parte, o un número del dibujo del circuito

Y necesita saber:
Quiénes son los fabricantes disponibles, números de tipo, clase del producto o características eléctricas y/o mecánicas

Primero:
Simplemente refierase a la seccion "Generic Index" o "Functional Equivalence Index."
Localice el numero generico o el numero funcional.

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH (3)TYPE NUMBER

LINE No.	[1] FUNCTIONAL NUMBER	[2] TECH	[3] TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	[1] FUNCTIONAL NUMBER	[2] TECH	[3] TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1♦	74-50N	TTL	SFC450HE	THEF	DL	LC05	97- 24	111	74LS51	CMS	M74HC51B1(A)	SGSI	DL	LC05	90- 32
2♦	74-50N	TTL	SFC451E	THEF	DL	LC05	97- 27	112	74LS51	CMS	M74HC51F1(A)	SGSI	DL	LC05	90- 33
3	74-50N	TTL	SFC451EM	THEF	DL	LC05	88- 40	113▼	74LS51	TTL	DN74LS51P1	MATJ	DL	LC05	90- 29

GENERIC PRODUCT INDEX

IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	417	MB417M	FCAJ	GATE	123- 60	111	472	SFC472EM	THEF	FLIP FLOP	63- 65
2♦	420	MB420	FCAJ	FLIP FLOP	50- 9	112	472	SFC472ET	THEF	FLIP FLOP	63- 66
3♦	420	MB420M	FCAJ	FLIP FLOP	50- 10	113	472	SFC472HE	THEF	FLIP FLOP	61-110

Note el número de tipo del fabricante, código y clase del producto, y las últimas columnas le darán los números de página y línea para complementar detalles.

NOTA – Los símbolos y códigos utilizados en estas secciones técnicas se explican en las páginas "Interpreter" al final del libro.

DEFINICION DE TERMINOS
INTERPRETACION Y DEFINICIONES

Esta sección define los encabezamientos de las columnas y los símbolos que aparecen en las Secciones Técnicas de este libro.

SECTION 17 MAGNITUDE COMPARATORS SECTION 17

17. MAGNITUDE COMPARATORS

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	ENABLE	TECH	[1] TYPE CODE	[2] BITS	[3] tpd MAX (s)	FEATURES	INPUTL OGIC LEVELS VIH MIN (V)	INPUTL OGIC LEVELS VIL MAX (V)	VOL IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪			(5)				✪						✪	✪	✪	✪	✪

(5)

A - Address Comparator
I - Identity Comparator
M - Magnitude Comparator
U - Comparator as coded above has Unified Bus application

✪ SYMBOLS AND CODES AT TOP OF FIRST INTERPRETER PAGE

INTERPRETADOR (Véanse también Símbolos y Códigos)

SIMBOLOS: Símbolos tales como #, ▲, y $ se usan en todas las columnas, ya sean numéricas o de otro tipo, cuando las entradas de información difieren de algún modo de la entidad definida en el encabezamiento de la columna. Por ejemplo, si un encabezamiento dado especifica Max. Power (in Watts) y el valor numérico que se ha entrado para un tipo dado representa en cambio la potencia mínima, la variación se denota por medio de un símbolo especial al lado de la entrada numérica.

CODIGOS: Los códigos se usan en algunas columnas como medio para abreviar la información entrada. Los códigos pueden ser alfabéticos (A,B,C etc.) o numéricos (1,2,3 etc.) o una combinación de ambos.

MULTIPLICADORES DE POTENCIA DE DIEZ

Los multiplicadores de potencia de diez mostrados abajo se usan en las columnas numéricas cuando el valor que se entra es muchas veces más grande o pequeño que las unidades de medida indicadas en el encabezamiento de la columna. Usualmente, éstas últimas son las llamadas unidades básicas tales como V (voltios), A (amperios) y s (segundos). A continuación se dan los multiplicadores y una explicación de su uso:

EXPLICACION

Valor de la información a que se dará entrada	Unidad básica en el encabezamiento de la columna	Entrada efectiva
3 milliamperes	A (amperes)	3.0m
9 megaohms	Ω (ohms)	90M
0.5 volt	V (volts)	500m*
10 amperes	A (amperes)	10

*También puede ser escrito como 0.5 sin multiplicador

MULTIPLICADORES

Power	Prefix	Symbol
10^{12}	tera	T
10^{9}	giga	G
10^{6}	mega	M
10^{3}	kilo	k
10^{-3}	milli	m
10^{-6}	micro	μ
10^{-9}	nano	n
10^{-12}	pico	p
10^{-15}	femto	f
10^{-18}	atto	a

PARAMETROS SECUENCIALES

El ordenamiento de los tipos en las secciones técnicas está asociado a un conjunto de características especiales seleccionadas por su importancia de entre el grupo general de características tabuladas en cada sección. Estas características seleccionadas o parámetros secuenciales difieren de una sección a otra, y se identifican en la parte superior de la página tal como se muestra en el ejemplo de abajo.

Los diferentes tipos dentro de una misma sección presentan inicialmente un orden numérico (o alfabético) ascendente desde el primero de tales parámetros. Los grupos de tipos que tienen un valor común para el primer parámetro son luego ordenados en orden ascendente desde el segundo parámetro. Este proceso continua para cada parámetro de turno, hasta el último parámetro inclusive, el cual es, en cada caso, el número de tipo en sí. El ordenamiento final, por el número de tipo, se hace de acuerdo con la secuencia de los números de tipo en el índice de referencia. La ausencia de una entrada para cualquier parámetro secuencial se considera como cero y precede cualquier entrada efectiva en la secuencia.

MAJOR CHARACTERISTICS — **SEQUENCING PARAMETERS**

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

5. GATES - AND-OR-Invert (Cont'd)

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	RG301DC	TTL	AOI	3-3-3		1.7	1.1	6		5.0		105m+	1.0	5	C	1	4-04P	DIP14e
2♦	RG302CJ	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m+	1.0	0	7	1	4-04P	FP52j
3♦	RG302CK	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m+	1.0	0	7	1	4-04P	FP52k
4♦	RG302DC	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m+	1.0	0	7	1	4-04P	DIP14e
5♦	RG303CJ	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m+	1.0	0	7	1	4-04P	FP52j
6♦	RG303CK	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m+	1.0	0	7	1	4-04P	FP52k
7♦	RG303DC	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m+	1.0	0	7	1	4-04P	DIP14e
8♦	TC40H051F	CMS	AOI	3-3/2-2		4.0	1.0			10	36n	180m	95	4	8	2	74L51N	FP166
9♦	TC40H051P	CMS	AOI	3-3/2-2		4.0	1.0	50		10	36n	300m	95	4	8	2	74L51N	MO001AA

TROIS FACONS DE BASE:

	Si vous connaissez:	Et avez besoin de connaître:	Lisez:
1	Les caractéristiques électriques et mécaniques requises	La reference du produit (reference du fabricant)	Explication N° 1
2	La reference Du produit	Les caractéristiques mécaniques et/ou électriques ou son circuit et sa configuration d'encombrement ou le fabricant ou un modele equivalent	Explication N° 2
3	Une référence générique de système ou la référence d'un dispositif èquivalent ou la référence du schéma du circuit.	Le fabricant ou la reference du produit ou la classe du produit ou les modeles e quivalents ou les caractéristiques électriques et/ou mécaniques	Explication N° 3

EXPLICATION N° 1

Si vous connaissez:
Les caractéristiques électriques et mécaniques requises
Et avez besoin de connaître:
La référence du produit approprié.
Premièrement:
Reportez-vous a la page de TABLE OF CONTENTS

a. Recherchez dans la Table des Matières la section technique correspondante au type de systéme connu. EXEMPLE: Section technique 5.

4. FLIP-FLOPS
D-Type 48
JK-Type 61
RS-Type 75
RST-Type 75
T-Type 76
5. GATES
AND 77
AND-OR 85
AND-OR-INVERT 86
Exclusive NOR 92

b. Allez à la page de cette section. Trouvez la reference du produit qui correspond globalement à vos caractéristiques requises. EXEMPLE: **MB411M**

A cause du classement séquentiel des genres similaires apparaîtront ensemble.

Notez les paramètres de classement séquentiel dans le coin supérieur à droite de chaque page.

5. GATES

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	HEF4086	CMS	AOI	2-2-2-2	XI	11	4.0	16e		15		400m	6.7	4	8	1	40-86B	DL ☑
2♦	HEF4086B	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		5.0uQ		4	8	1	40-86B	TO-116
3♦	HEF4086BPN	CMS	AOI	2-2-2-2	XI	11.0	4.0	16e		15		400m	6.7	4	8	1	40-86B	DIP14b
4♦	HEF4086BTD	CMS	AOI	2-2-2-2	XI	11.0	4.0	50e		15		200m	6.7	4	8	1	40-86B	FP147
5♦	HEF4086P	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		300uQ		4	8	1	40-86B	DIP14b
6♦	M53253P	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		22m†	1.0	0	7	1	74-53N	DIP14a
7♦	MB411	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
8♦	MB411M	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
9♦	MSM4086	CMS	AOI	2-2-2-2	XI	7.2	2.0	16e		10		1.4mQ	2.0 *	2	7	1	40-86B	DIP14a
10♦	MSM4086RS	CMS	AOI	2-2-2-2	XI	3.6	1.0	40		16		200m	0.6	4	8	1	40-86B	DIP14 ☑
11♦	N7453F	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0 †	0	7	1	74-53N	DIP14b
12♦	N7453N	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m		0	7	1	74-53N	DIP14a

Deuxièmement:

Reportez-vous à la page de la section TYPE NUMBER CROSS INDEX.

a. Trouvez la reference du produit choisie **MB411M**

b. Notez le/les codes de fabricants à droite du numéro de dispositif. EXEMPLE: **FCAJ**

c. Notez les numéros de page et de ligne. EXEMPLE: **87-8**

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
MB406M	FCAJ	81 - 63	MB84008B	FCAJ	201 - 26	MC10H105P	♦MOTA	122 - 39	MC10H160N	♦MMI	227 - 92	MC54F86N	♦MOTA	93 - 13
MB407	FCAJ	65 - 35	MB84008BM	FCAJ	201 - 27	MC10H105PD	♦MOTA	122 - 40	MC10H160P	♦MOTA	227 - 88	MC54F109J	♦MOTA	74 - 35
MB407M	FCAJ	65 - 36	MB84011B	FCAJ	100 - 67	MC10H105PDS	♦MOTA	122 - 41	MC10H160PD	♦MOTA	227 - 89	MC54F109N	♦MOTA	74 - 36
MB408	FCAJ	198 - 46	MB84011BM	FCAJ	100 - 68	MC10H106FN	♦MOTA	117 - 75	MC10H160PDS	♦MOTA	227 - 90	MC54F112J	♦MOTA	74 - 61
MB408M	FCAJ	198 - 47	MB84012B	FCAJ	108 - 21	MC10H106L	♦MOTA	117 - 76	MC10H166FN	♦MOTA	217 - 97	MC54F112N	♦MOTA	74 - 62
MB410	FCAJ	68 - 54	MB84012BM	FCAJ	108 - 22	MC10H106LD	♦MOTA	117 - 77	MC10H166J	♦MMI	217 -104	MC54F113J	♦MOTA	74 - 63
MB410M	FCAJ	68 - 55	MB84013B	FCAJ	50 -110	MC10H106LDS	♦MOTA	117 - 78	MC10H166L	♦MOTA	217 - 98	MC54F113N	♦MOTA	74 - 64
MB411	FCAJ	87 - 7	MB84013BM	FCAJ	51 - 1	MC10H106P	♦MOTA	117 - 79	MC10H166LD	♦MOTA	217 - 99	MC54F114J	♦MOTA	73 -103
MB411M	FCAJ	87 - 8	MB84017B	FCAJ	183 - 26	MC10H106PD	♦MOTA	117 - 80	MC10H166LDS	♦MOTA	217 -100	MC54F114N	♦MOTA	73 -104
MB416	FCAJ	96 - 57	MB84017BM	FCAJ	183 - 27	MC10H106PDS	♦MOTA	117 - 81	MC10H166N	♦MMI	217 -105	MC54F138J(2A)		125 - 25
MB416M	FCAJ	96 - 58	MB84019B	FCAJ	84 - 87	MC10H107FN	♦MOTA	91 - 8	MC10H166NL	♦MMI	217 -106		♦MOTA	
MB417	FCAJ	112 - 81	MB84019BM	FCAJ	84 - 88	MC10H107J(A)	♦MMI	91 - 15	MC10H166P	♦MOTA	217 -101	MC54F160AJ	♦MOTA	176 - 79
MB417M	FCAJ	112 - 82	MB84020B	FCAJ	171 - 20	MC10H107L	♦MOTA	91 - 9	MC10H166PD	♦MOTA	217 -102	MC54F160AN	♦MOTA	176 - 80
MB420	FCAJ	51 - 63	MB84020BM	FCAJ	171 - 21	MC10H107LD	♦MOTA	91 - 10	MC10H166PDS	♦MOTA	217 -103	MC54F161AJ	♦MOTA	159 - 10
MB420M	FCAJ	51 - 64	MB84022B	FCAJ	184 -101	MC10H107LDS	♦MOTA	91 - 11	MC10H175FN	♦MOTA	233 - 10	MC54F161AN	♦MOTA	159 - 11

d. Allez à la page de la section MANUFACTURERS CODES AND NAMES.

e. Trouvez le nom et le code du fabricant. EXEMPLE: **FCAJ**

MANUFACTURERS' CODES & NAMES

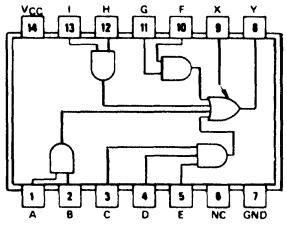
The manufacturers listed below are in order of D.A.T.A. Mfrs.' Code and reference the company name. Additional Manufacturers Profile information, sorted by company name, can be obtained on page 595.

D.A.T.A. MFRS.' CODE	MANUFACTURER
AMD	Advanced Micro Devices, Inc.
AMR	American Microsemiconductor
ANA	Analog Devices, Inc.
BELI	Bharat Electronics Ltd.
CCL	★ Cal Crystal Labs, Inc.
DDC	ILC Data Device Corp.
DIS	Discon Industries, Inc.
DTL	G.E. Datel
EXR	Exar Corp.
FCAJ	Fujitsu Limited
FERB	Ferranti Electronics Ltd.
NSC	National Semiconductor
OKIJ	OKI Electric Industry Co., Ltd.
PHIN	* Philips Electronic Components & Material Div.
PLSB	* Plessey Semiconductors
PUL	★ Pulse Engineering Products
RCA	RCA Corporation
RSCB	★ R. S. Components Ltd.
RTCF	* RTC-Compelec
RTN	Raytheon Company
SEP	Semi Processes Inc.
SGSI	SGS-ATES Componenti Ellectronici S.p.A.

d. Allez à la page indiquée et localisez le schéma.

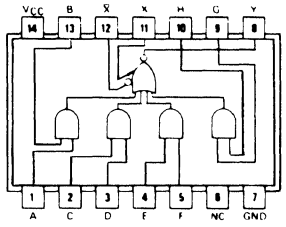
29. CIRCUIT DRAWINGS

74H52N Expandable 4-Wide AND-OR Gate



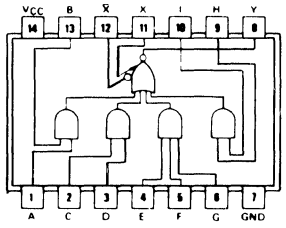
74-53N

Expandable 4-Wide AND-OR-INVERT Gates



74H53N

Expandable 4-Wide AND OR INVERT Gates

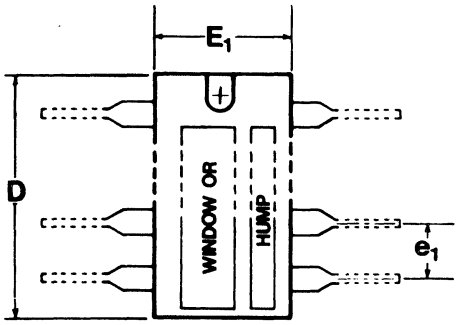


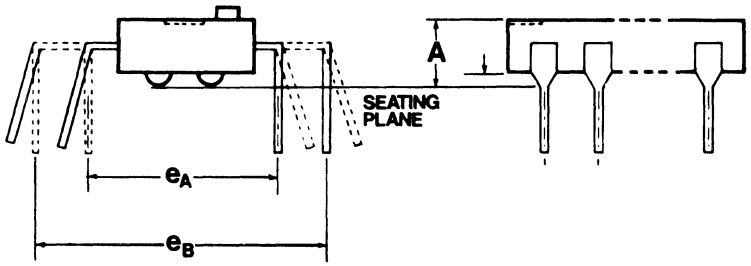
e. Localisez le numéro de schéma d'encombrement dans le "Outline Drawing Index" et notez le numéro de la page inscrit. EXEMPLE: **DIP14b**

OUTLINE DRAWINGS

DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE
CH131	517	DIP12a	528	FP59a-c	555	FP134	559	FP174	568	LC42	572	PG68A	589
CH132	517	DIP14a	528	FP66	555	FP136	559	FP175	568	LC43	573	PG84	588
CH133	517	DIP14b	528	FP66a-b	555	FP137	559	FP177	569	LC44	573	PG88A	588
CH134	517	DIP14c	533	FP79	555	FP138	559	FP178	569	LC45	580	SL3A	589
CH135	517	DIP14d	533	FP79a-c	555	FP139	559	FP179	569	MD2A	581	SL4B	589

f. Allez à la page indiquée et trouvez le schéma et les dimensions.





OUTLINE DRAWINGS SPECIFICATIONS TABLE

Dwg. No.	Dwg. No. Suffix	DIMENSIONS IN INCHES					
		Pkg. Height A	Pkg. Length D	Pkg. Width E_1	Pin Spacing e_1	Row Sep. e_A	Offset Row Sep. e_B
DIP14	a	.105 .210	.660 .830	.220 .310	.100 BSC	.300 BSC	
	b	.065 .314	.590 .830	.200 .340	.100 BSC	.300 BSC	

DIMENSIONS IN MM					
Pkg. Height A	Pkg. Length D	Pkg. Width E_1	Pin Spacing e_1	Row Sep. e_A	Offset Row Sep. e_B
2.66 5.33	16.7 21.0	5.59 7.87	2.54 BSC	7.62 BSC	
1.65 7.98	14.98 21.0	5.08 8.63	2.54 BSC	7.62 BSC	

EXPLICATION N° 2

Si vous connaissez:
La reference du produit
Et avez besoin de connaître:
Les caractéristiques électriques
Premièrement:
Allez à la page du TYPE NUMBER CROSS INDEX et trouvez votre référence du produit.

a. Notez les numéros de page et de ligne en plus du genre. EXEMPLE: **87-8**

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
MB406M	FCAJ	81 - 63	MB84008B	FCAJ	201 - 26	MC10H105P	♦MOTA	122 - 39	MC10H160N	♦MMI	227 - 92	MC54F86N	♦MOTA	93 - 13
MB407	FCAJ	65 - 35	MB84008BM	FCAJ	201 - 27	MC10H105PD	♦MOTA	122 - 40	MC10H160P	♦MOTA	227 - 88	MC54F109J	♦MOTA	74 - 35
MB407M	FCAJ	65 - 36	MB84011B	FCAJ	100 - 67	MC10H105PDS	♦MOTA	122 - 41	MC10H160PD	♦MOTA	227 - 89	MC54F109N	♦MOTA	74 - 36
MB408	FCAJ	198 - 46	MB84011BM	FCAJ	100 - 68	MC10H106FN	♦MOTA	117 - 75	MC10H160PDS	♦MOTA	227 - 90	MC54F112J	♦MOTA	74 - 61
MB408M	FCAJ	198 - 47	MB84012B	FCAJ	108 - 21	MC10H106L	♦MOTA	117 - 76	MC10H166FN	♦MOTA	217 - 97	MC54F112N	♦MOTA	74 - 62
MB410	FCAJ	68 - 54	MB84012BM	FCAJ	108 - 22	MC10H106LD	♦MOTA	117 - 77	MC10H166J	♦MMI	217 -104	MC54F113J	♦MOTA	74 - 63
MB410M	FCAJ	68 - 55	MB84013B	FCAJ	50 -110	MC10H106LDS	♦MOTA	117 - 78	MC10H166L	♦MOTA	217 - 98	MC54F113N	♦MOTA	74 - 64
MB411	FCAJ	87 - 7	MB84013BM	FCAJ	51 - 1	MC10H106P	♦MOTA	117 - 79	MC10H166LD	♦MOTA	217 - 99	MC54F114J	♦MOTA	73 -103
MB411M	FCAJ	87 - 8	MB84017B	FCAJ	183 - 26	MC10H106PD	♦MOTA	117 - 80	MC10H166LDS	♦MOTA	217 -100	MC54F114N	♦MOTA	73 -104
MB416	FCAJ	96 - 57	MB84017BM	FCAJ	183 - 27	MC10H106PDS	♦MOTA	117 - 81	MC10H166N	♦MMI	217 -105	MC54F138J(2A)		125 - 25
MB416M	FCAJ	96 - 58	MB84019B	FCAJ	84 - 87	MC10H107FN	♦MOTA	91 - 8	MC10H166NL	♦MMI	217 -106		♦MOTA	
MB417	FCAJ	112 - 81	MB84019BM	FCAJ	84 - 88	MC10H107J(A)	♦MMI	91 - 15	MC10H166P	♦MOTA	217 -101	MC54F160AJ	♦MOTA	176 - 79
MB417M	FCAJ	112 - 82	MB84020B	FCAJ	171 - 20	MC10H107L	♦MOTA	91 - 9	MC10H166PD	♦MOTA	217 -102	MC54F160AN	♦MOTA	176 - 80
MB420	FCAJ	51 - 63	MB84020BM	FCAJ	171 - 21	MC10H107LD	♦MOTA	91 - 10	MC10H166PDS	♦MOTA	217 -103	MC54F161AJ	♦MOTA	159 - 10
MB420M	FCAJ	51 - 64	MB84022B	FCAJ	184 -101	MC10H107LDS	♦MOTA	91 - 11	MC10H175FN	♦MOTA	233 - 10	MC54F161AN	♦MOTA	159 - 11

b. Localisez ces numéros de page et de ligne et vous trouverez les caractéristiques électriques. Les numéros de schémas d'encombrement et de circuit **74-53N** et **DIP14b** sont situés dans la dernière colonne et sont inscrits successivement dans le "Drawing Index". (Voir à la Table des Matières.)

5. GATES

IN ORDER OF: (1) TYPE (2) INPUTS PER (3) CKTS PER PKG (4) tpd MAX & (5) TYPE

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	HEF4086	CMS	AOI	2-2-2-2	XI	11	4.0	16e		15		400m	6.7	4	8	1	40-86B	DL ☑
2♦	HEF4086B	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		5.0uQ		4	8	1	40-86B	TO-116
3♦	HEF4086BPN	CMS	AOI	2-2-2-2	XI	11.0	4.0	16e		15		400m	6.7	4	8	1	40-86B	DIP14b
4♦	HEF4086BTD	CMS	AOI	2-2-2-2	XI	11.0	4.0	50e		15		200m	6.7	4	8	1	40-86B	FP147
5♦	HEF4086P	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		300uQ		4	8	1	40-86B	DIP14b
6♦	M53253P	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		22m†	1.0	0	7	1	74-53N	DIP14a
7♦	MB411	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
8♦	MB411M	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
9♦	MSM4086	CMS	AOI	2-2-2-2	XI	7.2	2.0	16e		10		1.4mQ	2.0 *	2	7	1	40-86B	DIP14a
10♦	MSM4086RS	CMS	AOI	2-2-2-2	XI	3.6	1.0	40		16		200m	0.6	4	8	1	40-86B	DIP14 ☑
11♦	N7453F	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0 †	0	7	1	74-53N	DIP14b
12♦	N7453N	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m		0	7	1	74-53N	DIP14a

c. Trouvez le numéro de schéma dans le "Drawing Index" et notez le numéro de la page inscrit. EXEMPLE: 74-53N

CIRCUIT DRAWINGS

DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE
54LS568W	280	74LS49N	289	74H118P	316	74LS261N	297	74-451N	302	74LS631N	305	74AS894N	318
54-569W	280	74-50N	286	74H119P	293	74AS264N	308	74-452N	299	74LS636N	314	74C922	304
54LS573W	280	74L51N	289	74-121N	293	74-265N	297	74-453N	300	74S637N	314	74C923	304
54LS574W	280	74LS51N	289	74-122N	293	74LS266N	297	74-454P	286	74LS677N	307	74-965N	311
54ALS575	28	74H52N	289	74-123N	293	74S268N	312	74-455P	312	74LS678N	307	74ALS1000	304
54AS576	28	74-53N	289	74LS124N	293	74-269N	307	74-456P	314	74LS679N	307	74ALS1002N	304
54ALS577	28	74H53N	289	74-130N	316	74-273N	297	74LS460N	305	74LS680N	307	74ALS1003N	304
54AS580	281	74H54N	289	74-131N	316	74S274	297	74LS461N	312	74LS681N	306	74ALS1008N	311
54LS591	283	74L54N	289	74LS132N	286	74S275	297	74-462	302	74LS682N	319	74ALS1020N	304

EXPLICATION N° 3

Si vous connaissez:
Une reference de systeme d'équivalence fonctionelle ou générique ou le numéro de schéma

Et avez besoin de connaître:
Les fabricants disponibles, les references du produit, la classe du produit, ou les caractéristiques mécaniques et/ou électriques

Premièrement:
Allez simplement a la page du "Generic Index" ou "Functional Equivalence Index."

Localisez la reference generique ou fonctionelle.

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH (3)TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1♦	74-50N	TTL	SFC450HE	THEF	DL	LC05	97- 24	111	74LS51	CMS	M74HC51B1(A)	SGSI	DL	LC05	90- 32
2♦	74-50N	TTL	SFC451E	THEF	DL	LC05	97- 27	112	74LS51	CMS	M74HC51F1(A)	SGSI	DL	LC05	90- 33
3	74-50N	TTL	SFC451EM	THEF	DL	LC05	88- 40	113▼	74LS51	TTL	DN74LS51P1	MATJ	DL	LC05	90- 29

GENERIC PRODUCT INDEX

IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	417	MB417M	FCAJ	GATE	123- 60	111	472	SFC472EM	THEF	FLIP FLOP	63- 65
2♦	420	MB420	FCAJ	FLIP FLOP	50- 9	112	472	SFC472ET	THEF	FLIP FLOP	63- 66
3♦	420	MB420M	FCAJ	FLIP FLOP	50- 10	113	472	SFC472HE	THEF	FLIP FLOP	61-110

Notez la reference du produit du fabricant, le code et la classe du produit et les dernières colonnes vous donneront les numéros de page et de ligne pour y trouver des détails complets.

N.B.: Les symboles et les codes utilisés dans ces sections techniques sont expliqués dans les pages "Interpreter" à la fin du livre.

DEFINITION DES TERMES

INTERPRETATIONS ET DEFINITIONS

Cette section définit les têtes de colonnes et les symboles qui apparaissent dans les sections techniques du livre. Classées alphabétiquement selon la description du domaine d'applications, les "Column Definitions" interprètent les titres des domaines d'applications et indiquent l'usage de la section.

SECTION 17 MAGNITUDE COMPARATORS SECTION 17

17. MAGNITUDE COMPARATORS

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	ENA-BLE	TECH	1 TYPE	2 BITS	3 tpd MAX (s)	FEATURES	INPUTL OGIC LEVELS VIH MIN (V)	INPUTL OGIC LEVELS VIL MAX (V)	VOL IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪			(5)				✪						✪	✪	✪	✪	✪

(5) _____

A - Address Comparator
I - Identity Comparator
M - Magnitude Comparator
U - Comparator as coded above has Unified Bus application

✪ SYMBOLS AND CODES AT TOP OF FIRST INTERPRETER PAGE

INTERPRETATIONS (Voir aussi: Symboles et Codes)

SYMBOLES: Les symboles tels que #, ▲, et $ sont utilisés dans toutes les colonnes, que ce soit de valeurs numériques ou autres, chaque fois que les entrées de données diffèrent d'une certaine façon de l'entité définie dans la tête de colonne. Par exemple, si une tête de colonne particulière spécifie "MAX Power (in Watts)" et que la valeur numérique inscrite pour un produit particulier correspond au lieu de cela à la puissance minimale, la variation est signalée par l'apparition d'un symbole spécial à côté de la valeur numérique.

CODES: Des codes sont utilisés dans certaines colonnes de façon à abréger les données qui sont entrées. Les codes peuvent être alphabétiques (A, B, C etc. . .) ou numériques (1, 2, 3 etc. . .) ou bien une combinaison des deux.

MULTIPLICATEURS POUR LES PUISSANCES DE DIX

Les multiplicateurs pour les puissances de dix indiqués ci-après sont utilisés dans les colonnes numériques quand la valeur à inscrire est beaucoup plus grande ou beaucoup plus petite que celle qui peut être inscrite selon l'unité de mesure indiquée dans la tête de colonne. Normalement cette dernière est ce que l'on appelle l'unité de base: telle que V (volts), A (ampères), s (secondes). La liste des multiplicateurs ainsi que l'explication de leur emploi sont données ci-après:

EXPLICATION

Valeurs des données à inscrire	Unité de base dans la tête de colonne.	Entrée inscrite
3 milliamperes	A (amperes)	3.0m
9 megaohms	Ω (ohms)	9.0M
0.5 volt	V (volts)	500m*
10 amperes	A (amperes)	10

*peut aussi être écrit ainsi: 0.5 sans multiplicateur

MULTIPLICATEURS

Puissance	Préfixe	Symbole
10^{12}	tera	T
10^{9}	giga	G
10^{6}	mega	M
10^{3}	kilo	k
10^{-3}	milli	m
10^{-6}	micro	μ
10^{-9}	nano	n
10^{-12}	pico	p
10^{-15}	femto	f
10^{-18}	atto	a

PARAMETRES DE CLASSEMENT SEQUENTIEL

Le classement des produits dans les sections techniques est lié à un groupement de caractéristiques spéciales choisies selon leur importance parmi le groupe général de caractéristiques classifié dans chaque section. Ces caractéristiques choisies ou ces paramètres de classement séquentiel diffèrent d'une section à l'autre, et sont identifiés au début de chaque page comme indiqué dans l'exemple ci-après.

Les différents produits à l'intérieur d'une section sont d'abord classés selon un ordre numérique (ou alphabétique) croissant pour le premier des paramètres. Les groupes de produits ayant une valeur commune pour le premier paramètre sont alors classés selon un ordre croissant pour le deuxième paramètre. Ce procédé continue pour chaque paramètre successif jusqu'à et y compris le dernier paramètre qui dans chaque cas est lui-même la reference du produit. Le classement final, par reference du produit est fait selon le classement séquentiel des reference du produit dans la table des renvois. L'absence d'une entrée pour n'importe quel paramètre de classement séquentiel est considérée comme étant un zéro et précède toutes les entrées actuelles dans le classement séquentiel.

MAJOR CHARACTERISTICS — **SEQUENCING PARAMETERS**

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

5. GATES - AND-OR-Invert (Cont'd)

LINE No.	5 TYPE NUMBER	TECH	1 TYPE OF GATE	2 INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	4 tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	3 CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	RG301DC	TTL	AOI	3-3-3		1.7	1.1	6		5.0		105m†	1.0	5	C	1	4-04P	DIP14e
2♦	RG302CJ	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	FP52j
3♦	RG302CK	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	FP52k
4♦	RG302DC	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	DIP14e
5♦	RG303CJ	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	FP52j
6♦	RG303CK	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	FP52k
7♦	RG303DC	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	DIP14e
8♦	TC40H051F	CMS	AOI	3-3/2-2		4.0	1.0			10	36n	180m	.95	4	8	2	74L51N	FP166
9♦	TC40H051P	CMS	AOI	3-3/2-2		4.0	1.0	50		10	36n	300m	.95	4	8	2	74L51N	MO001AA

三 べ方は三通りあります。

1	電気的及び機械的に要求される事柄	型式番号(製品番号)	説明 1
2	型式番号	電気的 / 機械的特性 または回路図と外観図 または製造元 または同一規格品	説明 2
3	素子の総称番号か同一規格品の型式番号か回路図番号	製造元の名 または型式番号 または製品の種類 または同一規格品 または電気的 / 機械的特性	説明 3

がわかっていて　を知りたい時は　をお読みください

説明 1

電気的、又は機械的に要求されることがら
わかっていて、その目的に合った型式を知りたいときは、まず
TABLE OF CONTENTSを開きます。

a. TABLE OF CONTENTS の中から、わかっている素子の型式に一致する項目を選びます。
例：項目 5

4. FLIP-FLOPS
D-Type 48
JK-Type 61
RS-Type 75
RST-Type 75
T-Type 76
5. GATES
AND 77
AND-OR 85
AND-OR-INVERT 86
Exclusive NOR 92

b．その項目を開けます。要求される条件を満足する型式を見付けます。
例：MB411M。
検索に便利なように同様の型式のものは一箇所にまとめてあります。各ページの右上の見出しをご利用ください。

5. GATES

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	HEF4086	CMS	AOI	2-2-2-2	XI	11	4.0	16e		15		400m	6.7	4	8	1	40-86B	DL ☑
2♦	HEF4086B	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		5.0uQ		4	8	1	40-86B	TO-116
3♦	HEF4086BPN	CMS	AOI	2-2-2-2	XI	11.0	4.0	16e		15		400m	6.7	4	8	1	40-86B	DIP14b
4♦	HEF4086BTD	CMS	AOI	2-2-2-2	XI	11.0	4.0	50e		15		200m	6.7	4	8	1	40-86B	FP147
5♦	HEF4086P	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		300uQ		4	8	1	40-86B	DIP14b
6♦	M53253P	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		22m†	1.0	0	7	1	74-53N	DIP14a
7♦	MB411	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
8♦	MB411M	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
9♦	MSM4086	CMS	AOI	2-2-2-2	XI	7.2	2.0	16e		10		1.4mQ	2.0 *	2	7	1	40-86B	DIP14a
10♦	MSM4086RS	CMS	AOI	2-2-2-2	XI	3.6	1.0	40		16		200m	0.6	4	8	1	40-86B	DIP14 ☑
11♦	N7453F	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0 †	0	7	1	74-53N	DIP14b
12♦	N7453N	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m		0	7	1	74-53N	DIP14a

次に、TYPE NO. CROSS INDEXセクションを開きます。

a．選んだ型式番号 **MB411M** を探し出します。
b．素子番号の右の製造元コードを確認します。**FCAJ**
c．何ページの何行目かを確認します。**87-8**

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
MB406M	FCAJ	81 - 63	MB84008B	FCAJ	201 - 26	MC10H105P	♦MOTA	122 - 39	MC10H160N	♦MMI	227 - 92	MC54F86N	♦MOTA	93 - 13
MB407	FCAJ	65 - 35	MB84008BM	FCAJ	201 - 27	MC10H105PD	♦MOTA	122 - 40	MC10H160P	♦MOTA	227 - 88	MC54F109J	♦MOTA	74 - 35
MB407M	FCAJ	65 - 36	MB84011B	FCAJ	100 - 67	MC10H105PDS	♦MOTA	122 - 41	MC10H160PD	♦MOTA	227 - 89	MC54F109N	♦MOTA	74 - 36
MB408	FCAJ	198 - 46	MB84011BM	FCAJ	100 - 68	MC10H106FN	♦MOTA	117 - 75	MC10H160PDS	♦MOTA	227 - 90	MC54F112J	♦MOTA	74 - 61
MB408M	FCAJ	198 - 47	MB84012B	FCAJ	108 - 21	MC10H106L	♦MOTA	117 - 76	MC10H166FN	♦MOTA	217 - 97	MC54F112N	♦MOTA	74 - 62
MB410	FCAJ	68 - 54	MB84012BM	FCAJ	108 - 22	MC10H106LD	♦MOTA	117 - 77	MC10H166J	♦MMI	217 -104	MC54F113J	♦MOTA	74 - 63
MB410M	FCAJ	68 - 55	MB84013B	FCAJ	50 -110	MC10H106LDS	♦MOTA	117 - 78	MC10H166L	♦MOTA	217 - 98	MC54F113N	♦MOTA	74 - 64
MB411	FCAJ	87 - 7	MB84013BM	FCAJ	51 - 1	MC10H106P	♦MOTA	117 - 79	MC10H166LD	♦MOTA	217 - 99	MC54F114J	♦MOTA	73 -103
MB411M	FCAJ	87 - 8	MB8017B	FCAJ	183 - 26	MC10H106PD	♦MOTA	117 - 80	MC10H166LDS	♦MOTA	217 -100	MC54F114N	♦MOTA	73 -104
MB416	FCAJ	96 - 57	MB8017BM	FCAJ	183 - 27	MC10H106PDS	♦MOTA	117 - 81	MC10H166N	♦MMI	217 -105	MC54F138J(2A)		125 - 25
MB416M	FCAJ	96 - 58	MB84019B	FCAJ	84 - 87	MC10H107FN	♦MOTA	91 - 8	MC10H166NL	♦MMI	217 -106		♦MOTA	
MB417	FCAJ	112 - 81	MB84019BM	FCAJ	84 - 88	MC10H107J(A)	♦MMI	91 - 15	MC10H166P	♦MOTA	217 -101	MC54F160AJ	♦MOTA	176 - 79
MB417M	FCAJ	112 - 82	MB84020B	FCAJ	171 - 20	MC10H107L	♦MOTA	91 - 9	MC10H166PD	♦MOTA	217 -102	MC54F160AN	♦MOTA	176 - 80
MB420	FCAJ	51 - 63	MB84020BM	FCAJ	171 - 21	MC10H107LD	♦MOTA	91 - 10	MC10H166PDS	♦MOTA	217 -103	MC54F161AJ	♦MOTA	159 - 10
MB420M	FCAJ	51 - 64	MB84022B	FCAJ	184 -101	MC10H107LDS	♦MOTA	91 - 11	MC10H175FN	♦MOTA	233 - 10	MC54F161AN	♦MOTA	159 - 11

d．MANUFACTURERS' CODES & NAMESの項目を開きます。
e．製造元のコードと名前を探し出します。**FCAJ**

MANUFACTURERS' CODES & NAMES

The manufacturers listed below are in order of D.A.T.A. Mfrs.' Code and reference the company name. Additional Manufacturers Profile information, sorted by company name, can be obtained on page 595.

D.A.T.A. MFRS.' CODE	MANUFACTURER
AMD	Advanced Micro Devices, Inc.
AMR	American Microsemiconductor
ANA	Analog Devices, Inc.
BELI	Bharat Electronics Ltd.
CCL	★ Cal Crystal Labs, Inc.
DDC	ILC Data Device Corp.
DIS	Discon Industries, Inc.
DTL	G.E. Datel
EXR	Exar Corp.
FCAJ	Fujitsu Limited
FERB	Ferranti Electronics Ltd.
NSC	National Semiconductor
OKIJ	OKI Electric Industry Co., Ltd.
PHIN	* Philips Electronic Components & Material Div.
PLSB	* Plessey Semiconductors
PUL	★ Pulse Engineering Products
RCA	RCA Corporation
RSCB	★ R. S. Components Ltd.
RTCF	* RTC-Compelec
RTN	Raytheon Company
SEP	Semi Processes Inc.
SGSI	SGS-ATES Componenti Ellectronici S.p.A.

説明 2

型式番号がわかっていて、
電気的特性を知りたいときは、まずTYPE NUMBER
CROSS INDEX のところを開き、型式番号を探し出します。

a．型式番号の横に書いてあるページ番号と行番号(例: **87-8**)を確認します。

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
MB406M	FCAJ	81 - 63	MB84008B	FCAJ	201 - 26	MC10H105P	♦MOTA	122 - 39	MC10H160N	♦MMI	227 - 92	MC54F86N	♦MOTA	93 - 13
MB407	FCAJ	65 - 35	MB84008BM	FCAJ	201 - 27	MC10H105PD	♦MOTA	122 - 40	MC10H160P	♦MOTA	227 - 88	MC54F109J	♦MOTA	74 - 35
MB407M	FCAJ	65 - 36	MB84011B	FCAJ	100 - 67	MC10H105PDS	♦MOTA	122 - 41	MC10H160PD	♦MOTA	227 - 89	MC54F109N	♦MOTA	74 - 36
MB408	FCAJ	198 - 46	MB84011BM	FCAJ	100 - 68	MC10H106FN	♦MOTA	117 - 75	MC10H160PDS	♦MOTA	227 - 90	MC54F112J	♦MOTA	74 - 61
MB408M	FCAJ	198 - 47	MB84012B	FCAJ	108 - 21	MC10H106L	♦MOTA	117 - 76	MC10H166FN	♦MOTA	217 - 97	MC54F112N	♦MOTA	74 - 62
MB410	FCAJ	68 - 54	MB84012BM	FCAJ	108 - 22	MC10H106LD	♦MOTA	117 - 77	MC10H166J	♦MMI	217 -104	MC54F113J	♦MOTA	74 - 63
MB410M	FCAJ	68 - 55	MB84013B	FCAJ	50 -110	MC10H106LDS	♦MOTA	117 - 78	MC10H166L	♦MOTA	217 - 98	MC54F113N	♦MOTA	74 - 64
MB411	FCAJ	87 - 7	MB84013BM	FCAJ	51 - 1	MC10H106P	♦MOTA	117 - 79	MC10H166LD	♦MOTA	217 - 99	MC54F114J	♦MOTA	73 -103
MB411M	FCAJ	87 - 8	MB84017B	FCAJ	183 - 26	MC10H106PD	♦MOTA	117 - 80	MC10H166LDS	♦MOTA	217 -100	MC54F114N	♦MOTA	73 -104
MB416	FCAJ	96 - 57	MB84017BM	FCAJ	183 - 27	MC10H106PDS	♦MOTA	117 - 81	MC10H166N	♦MMI	217 -105	MC54F138J(2A)		125 - 25
MB416M	FCAJ	96 - 58	MB84019B	FCAJ	84 - 87	MC10H107FN	♦MOTA	91 - 8	MC10H166NL	♦MMI	217 -106		♦MOTA	
MB417	FCAJ	112 - 81	MB84019BM	FCAJ	84 - 88	MC10H107J(A)	♦MMI	91 - 15	MC10H166P	♦MOTA	217 -101	MC54F160AJ	♦MOTA	176 - 79
MB417M	FCAJ	112 - 82	MB84020B	FCAJ	171 - 20	MC10H107L	♦MOTA	91 - 9	MC10H166PD	♦MOTA	217 -102	MC54F160AN	♦MOTA	176 - 80
MB420	FCAJ	51 - 63	MB84020BM	FCAJ	171 - 21	MC10H107LD	♦MOTA	91 - 10	MC10H166PDS	♦MOTA	217 -103	MC54F161AJ	♦MOTA	159 - 10
MB420M	FCAJ	51 - 64	MB84022B	FCAJ	184 -101	MC10H107LDS	♦MOTA	91 - 11	MC10H175FN	♦MOTA	233 - 10	MC54F161AN	♦MOTA	159 - 11

b．そのページ番号と行番号の箇所を見ると、それに相当する電気的特性が
すぐ見つかります。回路図と外観図の番号 **74-53N** と **DIP14b** は一番最後の欄に
書かれており、また図面は順番にDrawing Index（目次参照）のところ
に示されています。

5. GATES

IN ORDER OF: (1) TYPE (2) INPUTS PER [redacted]
(3) CKTS PER PKG (4) tpd MAX & (5) T[redacted]

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEA-TURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	HEF4086	CMS	AOI	2-2-2-2	XI	11	4.0	16e		15		400m	6.7	4	8	1	40-86B	DL ☑
2♦	HEF4086B	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		5.0uQ		4	8	1	40-86B	TO-116
3♦	HEF4086BPN	CMS	AOI	2-2-2-2	XI	11.0	4.0	16e		15		400m	6.7	4	8	1	40-86B	DIP14b
4♦	HEF4086BTD	CMS	AOI	2-2-2-2	XI	11.0	4.0	50e		15		200m	6.7	4	8	1	40-86B	FP147
5♦	HEF4086P	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		300uQ		4	8	1	40-86B	DIP14b
6♦	M53253P	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		22m†	1.0	0	7	1	74-53N	DIP14a
7♦	MB411	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
8♦	MB411M	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
9♦	MSM4086	CMS	AOI	2-2-2-2	XI	7.2	2.0	16e		10		1.4mQ	2.0 *	2	7	1	40-86B	DIP14a
10♦	MSM4086RS	CMS	AOI	2-2-2-2	XI	3.6	1.0	40		16		200m	0.6	4	8	1	40-86B	DIP14 ☑
11♦	N7453F	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0 †	0	7	1	74-53N	DIP14b
12♦	N7453N	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m		0	7	1	74-53N	DIP14a

c．図面の番号をDrawing Indexの中から探し出し、ページ番号を確認しま
す。例： 74-53N 。

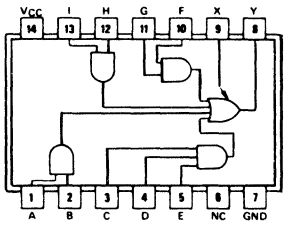
CIRCUIT DRAWINGS

DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE
54LS568W	280	74LS49N	289	74H118P	316	74LS261N	297	74-451N	302	74LS631N	305	74AS894N	318
54-569W	280	74-50N	286	74H119P	293	74AS264N	308	74-452N	299	74LS636N	314	74C922	304
54LS573W	280	74L51N	289	74-121N	293	74-265N	297	74-453N	300	74S637N	314	74C923	304
54LS574W	280	74LS51N	289	74-122N	293	74LS266N	297	74-454P	286	74LS677N	307	74-965N	311
54ALS575	28[redacted]	74H52N	289	74-123N	293	74S268N	312	74-455P	312	74LS678N	307	74ALS1000	304
54AS576	28[redacted]	74-53N	289	74LS124N	293	74-269N	307	74-456P	314	74LS679N	307	74ALS1002N	304
54ALS577	28[redacted]	74H53N	289	74-130N	316	74-273N	297	74LS460N	305	74LS680N	307	74ALS1003N	304
54AS580	281	74H54N	289	74-131N	316	74S274	297	74LS461N	312	74LS681N	306	74ALS1008N	311
54LS591	283	74L54N	289	74LS132N	286	74S275	297	74-462	302	74LS682N	319	74ALS1020N	304

d．示されているページを開き、該当する図面を探し出します。

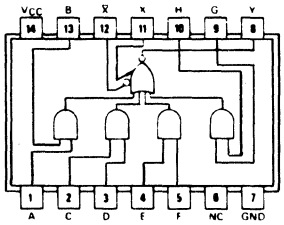
29. CIRCUIT DRAWINGS

74H52N Expandable 4-Wide AND-OR Gate



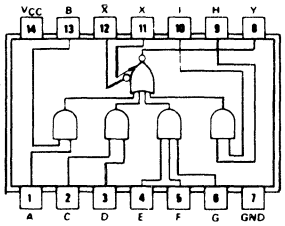
74-53N

Expandable 4-Wide AND-OR-INVERT Gates



74H53N

Expandable 4-Wide AND OR INVERT Gates

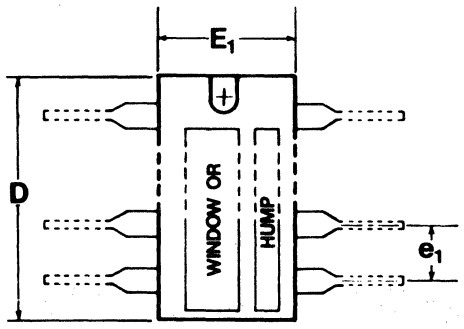


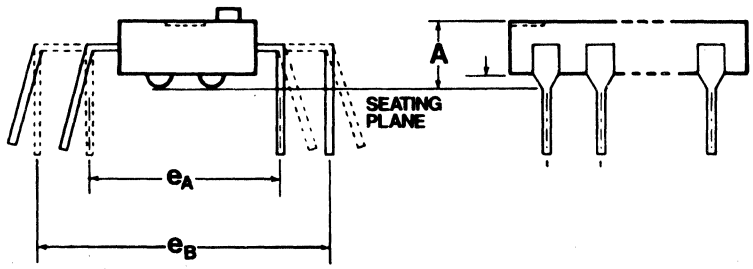
e．Outline Drawing Indexのところで外観図の番号を探し出し、ページ番号を確認します。例：**DIP14b**

OUTLINE DRAWINGS

DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE	DRAWING NO.	PAGE
CH131	517	DIP12a	528	FP59a-c	555	FP134	559	FP174	568	LC42	572	PG68A	589
CH132	517	DIP14a	528	FP66	555	FP136	559	FP175	568	LC43	573	PG84	588
CH133	517	DIP14b	528	FP66a-b	555	FP137	559	FP177	569	LC44	573	PG88A	588
CH134	517	DIP14c	533	FP79	555	FP138	559	FP178	569	LC45	580	SL3A	589
CH135	517	DIP14d	533	FP79a-c	555	FP139	559	FP179	569	MD2A	581	SL4B	589

f．示されているページを開き、外観図と寸法を求めます。





OUTLINE DRAWINGS SPECIFICATIONS TABLE

Dwg. No.	Dwg. No. Suffix	DIMENSIONS IN INCHES Pkg. Height A	Pkg. Length D	Pkg. Width E_1	Pin Spacing e_1	Row Sep. e_A	Offset Row Sep. e_B
DIP14	a	.105 .210	.660 .830	.220 .310	.100 BSC	.300 BSC	
	b	.065 .314	.590 .830	.200 .340	.100 BSC	.300 BSC	

DIMENSIONS IN MM Pkg. Height A	Pkg. Length D	Pkg. Width E_1	Pin Spacing e_1	Row Sep. e_A	Offset Row Sep. e_B
2.66 5.33	16.7 21.0	5.59 7.87	2.54 BSC	7.62 BSC	
1.65 7.98	14.98 21.0	5.08 8.63	2.54 BSC	7.62 BSC	

説明 3

素子の総称番号か同一規格の素子の番号または回路図番号がわかっていて、製造元、型式番号、製品の種類、または電気的/機械的特性を調べたいときは、まず Generic Functional Equivalent Index を開き、素子の総称番号を探し出します。

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1)FUNCTIONAL NO. (2) TECH (3)TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE	LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PT KY GP E	USE CODE	PAGE & LINE
1♦	74-50N	TTL	SFC450HE	THEF	DL	LC05	97- 24	111	74LS51	CMS	M74HC51B1(A)	SGSI	DL	LC05	90- 32
2♦	74-50N	TTL	SFC451E	THEF	DL	LC05	97- 27	112	74LS51	CMS	M74HC51F1(A)	SGSI	DL	LC05	90- 33
3	74-50N	TTL	SFC451EM	THEF	DL	LC05	88- 40	113▾	74LS51	TTL	DN74LS51P1	MATJ	DL	LC05	90- 29

GENERIC PRODUCT INDEX

IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	417	MB417M	FCAJ	GATE	123- 60	111	472	SFC472EM	THEF	FLIP FLOP	63- 65
2♦	420	MB420	FCAJ	FLIP FLOP	50- 9	112	472	SFC472ET	THEF	FLIP FLOP	63- 66
3♦	420	MB420M	FCAJ	FLIP FLOP	50- 10	113	472	SFC472HE	THEF	FLIP FLOP	61-110

次いで、製造元の分類番号、コード、製品の種類を確認します。そして一番最後の欄でページ番号と行番号を調べると、それによって詳細な説明が書いてある箇所がわかります。

なお、各項目で使われている記号やコードは巻末のInterpreterの部分で解説してあります。

用語の定義

解説と定義

この項目では、この本の各項目で使われている表の欄の見出しや記号(シンボル)の定義が示されています。

SECTION 17 MAGNITUDE COMPARATORS SECTION 17

17. MAGNITUDE COMPARATORS

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	ENA-BLE	TECH	1 TYPE CODE	2 BITS	3 tpd MAX (s)	FEATURES	INPUTL OGIC LEVELS VIH MIN (V)	VIL MAX (V)	VOL IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪			(5)				✪						✪	✪	✪	✪	✪

(5)

A - Address Comparator
I - Identity Comparator
M - Magnitude Comparator
U - Comparator as coded above
~ has Unified Bus application

✪ SYMBOLS AND CODES AT TOP OF FIRST INTERPRETER PAGE

INTERPRETER（記号とコードの項参照）

記号(シンボル)：全ての欄にわたって、見出しで定義されているのとは何らかの形で異なる種類の情報が記載されているときに、数字と＃とか△とか$のような記号が使われています。例えば、ある欄の見出しにMax.Power(Watts単位)とあるのに、記入されている特定の型の数値が最小電力のときは、数字の横に付される特別の記号により示されます。

コード：いくつかの欄では記入されるデータを簡素化するためにコードが用いられています。コードはアルファベットの文字(A、B、Cなど)か、数字（1、2、3など)か、その組合わせにより構成されています。

10の累乗数

欄の見出しで指示されている単位をはるかに上回るか、下回るような値が記入されるときは、下記のような10の累乗数を用いて表記してあります。後者に属するものとしては、通常V(ボルト)、A(アンペア)、s(秒)などの、いわゆる基本的単位があげられます。乗数とその使い方は次のとおりです。

説明 記入するデータの値	欄の基本単位	実際の記入例
3 milliamperes	A (amperes)	3.0m
9 megaohms	Ω (ohms)	9.0M
0.5volt	V (volts)	500m*
10amperes	A (amperes)	10

＊ 乗数として0.5という形で記入されていることもあります。

乗数

累乗	接頭辞	記号
10^{12}	tera	T
10^{9}	giga	G
10^{6}	mega	M
10^{3}	kilo	k
10^{-3}	milli	m
10^{-6}	micro	μ
10^{-9}	nano	n
10^{-12}	pico	p
10^{-15}	femto	f
10^{-18}	atto	a

見出しパラメタ

各項目における型式の配列は、その項目で表の中の各々の特性の中から重要と思われる特性の順となっています。これらの重要な特性(見出しパラメタ)は、項目毎に異なりますが、下記の例におけるように、各ページの一番上に明記されています。各項目内の異なる型式は、まず最初のパラメタの数値の増す順、またはアルファアベット順に配列されています。最初の見出しパラメタが同一の場合は、二番目のパラメタの数値の増す順に配列されます。各パラメタについて、最後のパラメタまでこの要領で配列順を決めていきます。最後のパラメタは常に型式番号そのものに一致します。型式番号別の配列は、cross-indexの型式番号の順に従ってなされます。

見出しパラメタが記入されていない場合は、ゼロと見なされ、他の数値より前に置かれます。

MAJOR CHARACTERISTICS — **SEQUENCING PARAMETERS**

5. GATES - AND-OR-Invert (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	RG301DC	TTL	AOI	3-3-3		1.7	1.1	6		5.0		105m†	1.0	5	C	1	4-04P	DIP14e
2♦	RG302CJ	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	FP52j
3♦	RG302CK	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	FP52k
4♦	RG302DC	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	DIP14e
5♦	RG303CJ	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	FP52j
6♦	RG303CK	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	FP52k
7♦	RG303DC	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	DIP14e
8♦	TC40H051F	CMS	AOI	3-3/2-2		4.0	1.0			10	36n	180m	95	4	8	2	74L51N	FP166
9♦	TC40H051P	CMS	AOI	3-3/2-2		4.0	1.0	50		10	36n	300m	95	4	8	2	74L51N	MO001AA

D.A.T.A.BOOK®
COMPONENT LOCATOR

The Component Locator is designed to assist you in identifying which D.A.T.A.BOOK should be consulted to find information on a specific type of device.

Part 1:
Locator information for the Replacement and Alternate Source Series

At the top of the matrix, locate the type of component for which you need replacement information – then identify which book(s) in the Replacement and Alternate Source Series you should consult.

IC Generic Source Guide
Includes alternate source information on digital, interface, microprocessor, audio/video, linear and memory ICs. ICs are grouped and sorted by generic or root number as an aid in identifying possible alternate sources.

Diode Replacement & Alternate Source Guide
Includes direct and suggested replacement information on diodes, including optoelectronic and microwave types. The Direct Replacement section contains information on devices that have the same part number as the device to be replaced. The Suggested Replacement section contains information on replacement devices with a different part number than the device to be replaced.

Transistor Replacement & Alternate Source Guide
Includes direct and suggested replacement information on transistor, including optoelectronic and microwave types. The Direct Replacement section contains information on devices that have the same part number as the device to be replaced. The Suggested Replacement section contains information on replacement devices with a different part number than the device to be replaced.

Thyristor Replacement & Alternate Source Guide
Includes direct and suggested replacement information on thyristor, including optoelectronic and microwave types. The Direct Replacement section contains information on devices that have the same part number as the device to be replaced. The Suggested Replacement section contains information on replacement devices with a different part number than the device to be replaced.

IC Replacement & Alternate Source Guide
Includes direct and suggested replacement information on digital, interface, microprocessor, audio/video, linear and memory ICs. The Direct Replacement section contains information on devices that have the same part number as the device to be replaced. The Suggested Replacement section contains information on replacement devices with a different part number than the device to be replaced.

IC Functional Equivalence Guide
Identifies memory, digital, interface and linear IC devices that have been determined to be pin-for-pin functionally equivalent. Highlights those devices whose functional equivalence has been verified by an independent testing laboratory.

International Directory of ICs & Discrete Semiconductors (Formerly Master Type Locator)
Consolidated listing of ICs, discrete semiconductors, optoelectronic and microwave devices in current production. Identifies the function of each device, its manufacturers and where to locate additional information on each device.

International Directory of Discontinued ICs & Discrete Semiconductors
Consolidated listing of ICs, discrete semiconductors, optoelectronic and microwave devices that are discontinued – no longer in production. Identifies the function of each device, its manufacturers and where to locate additional information.

D.A.T.A.BOOKS Alternate Source and Replacement Series	COMPONENT														
TITLE OF PUBLICATION	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES
IC Replacement & Alternate Source Guide					●	●	●	●	●	●	●				
Diode Replacement & Alternate Source Guide		●		●								●	●		
Transistor Replacement & Alternate Source Guide	●			●								●	●		
Thyristor Replacement & Alternate Source Guide			●	●								●	●		
IC Generic Source Guide					●	●	●	●	●	●					
IC Functional Equivalence Guide					●	●	●	●							
International Directory of ICs & Discrete Semiconductors/International Directory of Discontinued ICs & Discrete Semiconductors	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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PART II: Locator information for the other D.A.T.A.BOOKS in the Electronic Information Series
At the left side of the matrix, locate the type of component for which you need detailed information such as design parameters, logic and outline drawings, names of manufacturers, etc. – then identify which D.A.T.A.BOOK you should consult.

TITLE OF PUBLICATION	COMPONENT															
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
A/D Converter						●								●		●
A/A I/O Converter										●	●					
AC Switch (ACS)			●	●										●		
Active Filter							●									
A/D I/O Converter										●	●					
Adder: Half, Full					●											●
Adder/Subtractor					●											●
Address MUX/Refresh Counter						●										●
AFC Circuit									●							●
AGC Circuit									●							
ALARM Circuit							●									
ALU Status/Shift Controller										●						●
ALU					●											●
AM Receiver									●							
AM/FM RF-IF Circuit									●							●
Amorphous Sense Amplifier						●										
Amplifier-Antilog							●									
Amplifier-Audio									●					●		●
Amplifier-Buffer							●									●
Amplifier-CATV									●					●		
Amplifier-Current							●							●		●
Amplifier-Differential							●							●		●
Amplifier-Gas FET														●		
Amplifier-Instrumentation							●							●		●
Amplifier-Isolation							●							●		
Amplifier-Logarithmic							●							●		
Amplifier-Microwave													●			
Amplifier-Operational							●							●		●
Amplifier-Optoelectronic												●		●		
Amplifier, Power							●							●		●
Amplifier-Programmable Gain							●							●		●
Amplifier-Read/Write						●										
Amplifier-Reference							●									
Amplifier-RF/IF							●		●					●		●
Amplifier-Sample/Hold						●								●		●
Amplifier-Sense						●								●		
Amplifier-Sense-Mag Bubble Mem						●		●								●
Amplifier-Sense-Magnetic Tape						●										●
Amplifier-Sense-MOS						●										●
Amplifier-Sense-NMOS						●										●
Amplifier-Sense-Plated Wire						●										
Amplifier-Servo							●									
Amplifier-Squaring							●									●
Amplifier-Track & Hold						●								●		●
Amplifier-Video							●		●							●
Amplifier-VDLT							●									
Amplifier-Wideband							●		●					●		●
Analog Signal Level Detector							●							●		●
Analog MUX						●								●		●
Analog Multiplier							●									●
Analog Delay (SAD)							●									
Analog Shift Register							●									
Analog Switches-SPDT						●								●		●
Analog Switches-SSNC						●								●		●
Analog Switches-SSNO						●								●		●
Antilog Amplifiers							●									
Arithmetic Logic Unit					●											●
Array-Analog Switch						●										●

TITLE OF PUBLICATION	COMPONENT																
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
Array-Diode		●														●
Array-LED												●				
Array-Photodiode												●				
Array-Phototransistor												●				
Array-Photovoltaic												●				
Array-Programmable Gate								●								●
Array-Programmable Logic								●								●
Array-Transistor							●									●
Astable Multivibrator					●											●
Attenuator							●									
Audio Amplifier									●							●
Audio Processor (Stereo/4 Channel)									●							
Automatic Call Processing Unit (ACPU)										●						
Automatic Frequency Control									●							●
Automatic Gain Control									●							●
Automotive ICs							●		●							
Avalanche Diode		●														●
Avalanche Mode Transistor	●															
Backward Diode													●			
Backward Wave Tube													●			
Bar Graph Display												●				
Bar Graph Generator						●										
Battery-on-Chip RAM								●								
Baud Rate Generator						●										●
Bi-Directional Transistor	●															
Bi-Directional Switch			●													
Binary Coded Decimal Counter					●											●
Bit Slice Correlator										●						
Bridges-Silicon Controlled			●													
Bridge Rectifier		●														
Bubble Memory/Support								●								
Buffer Amplifier							●									●
Buffer Hex Bus					●											●
Buffer/Driver						●				●						●
Buffer/Driver-Logic						●	●									●
Buffer Gates						●										●
Buffer Octal						●										●
Bus Arbiter										●						
Bus Controller										●						
Bus Driver						●										●
Bus Interface						●										●
Bus Receiver						●										●
Bus/Line Transceiver						●								●		●
Calculators									●							
Capstan/Servo Controller									●							
CAM								●								
CATV Amplifier									●							
CATV Amplifier Module														●		
Card Controller											●					
CPU Board											●					
CCD							●	●								
Channel Scanner									●							
Character Generator								●								
Charge-Coupled Device (CCD)							●	●								
Checker-Parity					●											●
Chip Set Microprocessor										●						
Chopper Stabilized Op Amp							●									
Circular Detector												●				
Clamp						●										
Clamp/Terminator						●								●		
Clock-Digital									●							
Clock Driver						●								●		●
Clock Generator/Driver										●						●
Clocks/Multivibrators					●											●
Code Converter								●								●
CODEC							●									
Color TV Circuits									●					●		
COMFET	●															

TITLE OF PUBLICATION	COMPONENT															
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
Compact Disk Circuit									●							
Compact Disk D/A						●			●							
Compander							●									
Comparator-Current							●									
Comparator-Identity					●											●
Comparator-Magnitude					●											●
Comparator-Phase							●									
Comparator-Unified Bus					●											
Comparator-Voltage							●							●		●
Complementary Symm (PNP & NPN)	●						●									
Computer-on-a-chip										●						
Consumer Product Microprocessor										●						
Contact Protector Diode		●														●
Content Addressable Memory								●								
Control-Store Sequencer										●						
Controller-ALU Status										●						
Controller-Card											●					
Controller-Data Interface						●				●						●
Controller-DMA										●						
Controller-Diskette						●				●						
Controller-Display						●				●						
Controller-Floppy Disk						●				●						
Controller-Interrupt System										●						●
Controller-Industrial Timer					●											
Controller-Keyboard Encoder						●				●						
Controller-Magnetic Tape						●				●						
Controller-Memory/Interface						●				●						●
Controller-Microcomputer Bus										●						
Controller-Motor Speed							●		●					●		
Controller-Optoelectronic												●				
Controller-Paper Tape						●				●						
Controller-Power Supply							●									●
Controller-Printer						●				●						
Controller-Program Sequence										●						
Controller-Serial Communication						●				●	●					●
Controller-Shift										●						
Controller-Switching Power Supply							●									●
Controller-TTY Interface						●				●						
Controller-Winchester Chip (Flop Disk)						●					●					
Controls					●											
Controls/Counters/Converters					●											
Converter-A/D (All)						●								●		●
Converter-A to A I/O										●	●					
Converter-A to D I/O										●	●					
Converter-Code								●								●
Converter-D to A						●								●		●
Converter-D to A I/O										●	●					●
Converter-Digital to Synchro						●								●		
Converter-Freq. to DC							●							●		●
Converter, Hybrid, Volt-Freq.							●							●		
Converter-Logic Level						●								●		●
Converter-Volt to Current							●							●		
Converter-Voltage to Freq.							●							●		●
Converter Sub-System						●								●		●
Converter-Synchro to Digital														●		
Converters																●
Core Sense Amplifier						●										●
Counter-A/D Converter						●								●		●
Counter-BCD					●											●
Counter-Decimal					●											●
Counter-Display Driver						●										
Counter-Hexadecimal					●											●
Counter-Straight Binary					●											●
Counters					●											●
Crosspoint Switch							●									
CRT/Display Controller										●						

TITLE OF PUBLICATION	COMPONENT																
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
CRT Correction Circuit									●							
Crystal Controlled Oscillator					●											●
Current Amplifier							●							●		●
Current Limiter		●					●									●
Current Mirror							●									
Current Source							●									●
Current Stabilizer							●							●		●
DAC Current Switching Network						●										
Darlington Transistor	●			●												●
Data Acquisition System						●				●				●		●
Data Interface Controller										●						●
Data Security Device										●						
Data Selectors/MUX's						●										●
DC/DC Converters															●	
DC/DC Converter Controller							●									
DC/DC Converter Support IC							●									
Decade Counter					●											
Decoder-Display Driver						●										●
Decoder-DTMF							●									
Decoder/Encoder					●				●					●		
Decoders					●											●
Decryption						●										
Dedicated Microcontroller										●						
Deglitcher						●										
Delay Line (Analog)							●		●					●		
Delay Line (Digital)					●											
Demodulator						●										
Demultiplexer										●						●
Demultiplexer-Digital						●										●
Detector-Carrier							●							●		
Detector Error/Corrector					●											●
Detector-Analog Signal Level							●							●		●
Detector-Address Mark										●						
Detector Devices-Microwave Video													●			
Detector-Emitter/Sensor Pairs/Arrays												●				
Detector-Fluid Level							●									
Detector-Gap												●				
Detector-Infrared												●				
Detector-Microwave													●			
Detector-Null												●				
Detector-Overvoltage							●									
Detector-Phase									●							●
Detector-Quadrant												●				
Detector-Reflex												●				
Detector-Thermopile												●				
Detector-Zero Crossing						●	●									●
Diac			●													
Dialer-DTMF						●										
Dialer-Phone							●									
Differential Amplifiers							●									●
Differential Line Driver/Transmitter						●										●
Differential Line Receiver						●										●
Differential Line Transceiver						●										●
Differential Pair-Temperature Cont.							●									
Digital Audio Circuit									●							
Digital Multiplexer						●										●
Digital Panel Meter Circuit						●								●		
Digital Signal Processor										●						
Digital to Synchro Converter														●		
Diode-Array		●														●
Diode-Avalanche		●														●
Diode-Backward													●			
Diode-Breakover		●														
Diode-Bridge		●														●
Diode-Contact Protector		●														●
Diode-Current Limiter		●					●									●

TITLE OF PUBLICATION	COMPONENT															
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
Diode-Detector													●			●
Diode-Detector-UHF		●														●
Diode-Gunn													●			
Diode-Harmonic Generator													●			
Diode-Impatt													●			
Diode-Infrared Emitter												●				
Diode-Infrared Emitter-Array												●				
Diode-Infrared Emitter-Laser												●				
Diode-Infrared Emitter-Negative Resis.												●				
Diode-JFET		●														●
Diode-Laser-LED												●				
Diode-LED												●				●
Diode-LED-Array												●				
Diode-Light Emitting												●				●
Diode-Limiter		●											●			●
Diode-Logarithmic Conversion		●														
Diode-Matched		●														●
Diode-Matrixes		●														●
Diode-Microwave-Mixer													●			
Diode-Negative Resistive-LED												●				
Diode-Noise		●											●			
Diode-Noise Generator		●														
Diode-Oscillator													●			
Diode-PIN												●	●			
Diode-Radiation Detector		●														
Diode-Radiation Resistant		●														●
Diode-Rectifier		●		●												●
Diode-Reference		●														●
Diode-Ring/Quad													●			
Diode-Schottky Barrier		●														●
Diode-Shockley			●													
Diode-Silicon Asym Trigger (SAT)			●													
Diode-Step Recovery .													●			●
Diode-Switching		●														●
Diode-Transient Voltage Suppressor		●														●
Diode-Tuning		●											●			●
Diode-Tunnel													●			●
Diode-UHF Detector		●											●			●
Diode-UHF Mixer		●											●			●
Diode-Varactor		●											●			●
Diode-Varistor		●														
Diode-Voltage Regulator		●														●
Diode Array		●														●
Diode Matrix		●														●
Diodes		●														●
Diodes-Zener		●		●												●
Diskette Controller						●				●	●					
Disk Interface Circuit						●										
Display-Integrated Logic												●				
Display-LED												●				
Display-Liquid Crystal												●				
Display-Misc.(Incand.,Gas,Disch.,etc.)												●				
Display-Multiplexer						●								●		
Display-Oscillator						●								●		
Display-Shift Register						●								●		
Display Controller										●	●					
Display Driver-Multiplexer						●								●		●
Display Driver-Shift Register						●								●		
Display Driver/Counter						●								●		●
Display Driver/Decoder						●								●		
Display Driver/Latch						●								●		
Display Driver/Oscillator						●								●		
Divider														●		●
Divider, Frequency					●											●
DMA Controller										●						
DPM Module						●								●		

TITLE OF PUBLICATION	COMPONENT															
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
Driver-Bus						●										●
Driver-Clock						●								●		●
Driver-Clock Generator										●						●
Driver-Display (Digital)						●								●		
Driver-Line						●										
Driver-Memory						●								●		●
Driver-Optoelect Photoelectronic, IR												●				
Driver-Peripheral						●										●
Driver-Power						●								●		●
Drivers/Predrivers/Scalers					●											●
DTMF Decoder							●							●		
DTMF Dialer							●							●		
DTMF Filter							●							●		
DTMF Generator							●							●		
DTMF Receiver							●							●		
Dual Gate MOSFET	●															
Dual/Quad Transistor	●						●									●
Dual Ramp (Slope)-A/D Converter						●								●		●
Duplexer Tube													●			●
DVM Module						●										
Emitter-Sensor Array Detector												●				
Emitter-Sensor Pair Detector												●				
Emitter Array												●				●
Encoder-Keyboard						●										
Encoder-Priority						●										●
Encoder-"X" Input to "Y" Output																●
Encoder-"X" Line to "Y" Line																●
Encoder/Decoder					●									●		●
Encoder/Decoder Remote Cont. Sets									●							
Encryption																●
Erasable Programmable Logic								●								
EAROM								●								
EPROM								●								
EEPROM								●								
Error Detection/Correction Unit										●						
Facsimile Circuit							●									
Fast Carry Counter					●											●
Fast Recovery Diode		●														
Fiberoptic XCURS/XMTRS												●				
Field Effect Transistor	●			●												●
Field Prog Logic Array (FPLA)								●								●
FIFO								●								
FIFO Support Circuit								●								
Filter-Active							●							●		
Filter-DTMF, Telecomm Equipment							●									
Filter (Transversal)							●									
Flip/Flop					●											●
Flip/Flop (J-K)					●											●
Flip/Flop (R-S)					●											●
Flip/Flop (R-S-T)					●											●
Flip/Flop (T)					●											●
Flip/Flop, Complementary (R-S)					●											●
Flip/Flop (D Type)					●											●
Floppy Disk Controller										●	●					
Floppy Disk Read Amplifier						●										
Fluid Detector							●									
FM Multiplexer									●					●		
FM Receiver									●							
Frequency Divider					●											●
Frequency Synthesizer							●									●
Frequency to DC Converter							●							●		●
Full Adder					●											●
Function Generator							●							●		●
Fuse Programmable ICs								●								
Game-Video									●							
Gap Detector												●				
Gate Turnoff			●	●												

TITLE OF PUBLICATION	COMPONENT																
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
Gates					●											●
Generator					●											
Generator-Baud Rate						●										
Generator-Character								●								
Generator-Clock										●						●
Generator-DTMF						●										
Generator-Function							●							●		●
Generator-Look-ahead Carry					●											●
Generator-Parity Checker					●											●
Generator-Sin/Cos Function							●							●		
Generator-Digital Function					●											●
Generator/Oscillator-Sine/Sq/Tri							●									
Generic Array Logic								●								
Generator-Video Display									●							
Gray Code Counter					●											
Ground Fault Interrupt							●									
Gunn Diode													●			
Half Adder					●											
Hall Effect Device							●									
Hard Array Logic								●								
Harmonic Generator Diode													●			
Hearing Aid Amplifier									●							
Hex Bus Buffer, Inverting/Non-Invert					●											●
Hexadecimal Counter					●											●
High Voltage/High Current Driver														●		●
Home Appliance Circuit									●							
I/O Converter										●						
I/O Modules														●		
Identity Comparator					●											●
IGBIT	●															
Image Scanning/Matrix Sensor												●				
Infrared Detector												●				
Infrared Emitting Diode												●				
Instrumentation Amplifier							●									
Integrated Logic/Display												●				
Integrated Thyristor/Rectifier (ITR)			●													
Intelligent Display												●				
Interface-General Purpose										●						●
Interface-Parallel Peripheral										●						●
Interface-Programmable										●						●
Interrupt System-Priority Encoder						●				●						●
Interrupt System Controller										●						●
Interrupter (Optical)												●				
Inverters-Hex						●										●
I/O Peripheral										●						●
ISDN ICs						●				●						
Isolation Amplifier							●									
Keyboard Encoder						●										
Keyboard Encoder Controller										●	●					
Keyless Lock CKT						●			●							
Klystron Tube													●			
Ladder Network						●										
Laser Diode												●				
Latches					●											●
Latches Display						●										
LC Oscillator					●											
LDR-Light Dependent Resistor												●				
LED-Negative Resistive												●				
LED Array												●				
LED Display												●				
LED-Dichromatic, Multicolor												●				
Level Detector, Analog							●							●		●
Level Detector, Voltage							●									●
LIFO								●								
Light Activated Switch			●	●								●				
Light Dependent Resistor												●				
Light Dimmer Circuit							●		●							

TITLE OF PUBLICATION	COMPONENT															
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
Light Emitting Diode												●				●
Light Pen												●				
Limiter-Current		●					●									●
Limiter-Microwave													●			
Limiter-Voltage							●									●
Line Driver/Transmitter-Differential						●										●
Line Driver/Transmitter-Single-Ended						●										●
Line Receiver-Differential						●										●
Line Receiver-Single-Ended						●										●
Line Scanning Sensor												●				
Line Transceiver-Differential						●										●
Line Transceiver-Single-Ended						●										●
Linear Power Supplies																
Liquid Crystal Display												●				
Logarithmic Amplifier							●							●		
Logic-Special Device					●											●
Logic Buffer/Driver						●										●
Logic Level Converter						●								●		●
Logic Level Translators						●										●
Logarithmic Conversion Diode		●														
Look-Ahead Carry Generator					●											●
Magnetic Bubble Memory								●								●
Magnetic Bubble Memory Sense Amp.						●										
Magnetic Tape Controller										●	●					
Magnetic Tape Preamplifier						●										
Magnetic Tape Sense Amplifier						●										
Magnetron Tube													●			
Magnitude Comparator					●											●
Manchester Encoder/Decoder						●										
Matched Pair (PNP & NPN)	●						●								●	
Matrix/Image Scanning Sensor												●				
Melody Generator ICs									●							
Memory-Content Addressable								●								
Memory-Magnetic Bubble								●								
Memory-Mgmt Unit										●						
Memory Driver						●		●						●		
Memory Interface Controller										●	●					●
Memory Interface Sub-system						●										●
Memory Support Circuit								●								
Microcomputer Bus Controller										●						●
Microcomputer Chip Sets										●						
Microcontroller										●						●
Microprocessor-Card Set											●					
Microprocessor-Chip-Single										●						
Microprocessor-Chip-Set										●						
Microprocessor Converter										●						
Microwave-Ring/Bridge Quad													●			
Microwave-Special Device													●			
Microwave Amplifier													●			
Microwave Detector													●			
Microwave Limiter													●			
Microwave Mixer Diode													●			
Microwave Oscillator													●			
Microwave Transistor													●			
Microwave Trans.-Junction Field Eff.													●			
Microwave Transistor-MOSFET													●			
Microwave Video Detector Devices													●			
Mixer, Microwave													●	●		
Mixer/IF Strip/Front End							●		●							●
MOD/DEMOD-Slope Delta (Telephone)							●									
MODEM							●		●					●		
Modulator-Pulse Width							●									●
Modulator-Ring							●									
Monostable Multivibrator					●											●
MOS FET-Microwave													●			
MOS Sense Amplifier						●										●
Motion Detector									●							
Motor Speed Controller							●		●					●		

TITLE OF PUBLICATION	COMPONENT																
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
Motor Starting CKT							●									
Music Synthesizer ICs							●		●							
Multiplexer						●										●
Multiplexer-FM									●					●		
Multiplier					●		●	●					●	●		●
Multivibrator-Astable					●											●
Multivibrator-Monostable					●		●									●
MUX-Analog						●								●		●
MUX-Display						●										
MUX-Digital						●										●
MUX-Programmable								●								●
Negative Resistive LED												●				●
NMOS Sense Amplifier						●										
Noise Diode													●			
Noise Generator Circuit							●									
Noise Generator Diode		●														
Non-Volatile RAM (NVRAM)								●								
Null Detector												●				
On-Screen Display ICs									●							
Operational Amplifiers							●							●		●
Optical Limit Switch												●				
Optically Isolated Logic Gate												●				
Optoelectronic Amplifier												●				
Optoelectronic Controller												●				
Optoelectronic Driver												●				
Optoelectronic Switch or Relay												●				
Opto-isolator												●				●
Oscillator							●							●		●
Oscillator Diode													●			
Oscillator-Crystal Controlled					●											
Oscillator-Display						●										
Oscillator-LC					●											
Oscillator-Microwave													●			
Oscillator-RC					●		●									●
Oscillator-Sine/Sq/Triangle Wave							●							●		
Oscillator-Tuning Fork					●											
Oscillator-Varactor Tuner													●			
Oscillator-Voltage Controlled					●									●		●
Oscillator-Volt. Controlled Crystal							●									
Over Voltage Protector							●							●		●
Paper Tape Controller						●				●						
Parallel A/D Converter						●								●		●
Parallel Communication Transceiver										●						
Parallel Peripheral Interface										●						●
Parity Generator/Checker					●											●
Peltier Module							●									
Peripheral Driver						●										●
Peripheral Interface Adapter (PIA)										●						●
PGA (Programmable Gate Array)								●								●
Phase Control Circuit							●							●		●
Phase/Frequency Detector							●		●							●
Phase Lock Loop							●							●		●
Phonograph Motor Control									●							
Photo Circuit												●				
Photoconductive Cell												●				
Photocoupler-Photocell Output												●				
Photocoupler-Photocircuit Output												●				
Photocoupler-Photodarlington Output												●				
Photocoupler-Photothyristor Output												●				
Photocoupler-Phototransistor Output												●				
Photodarlington												●				
Photodiode												●				
Photodiode, IR Detector												●				
Photodiode, LASER Detector												●				
Photodiode Array												●				
Photo Potentiometer												●				
Photothyristor												●				

TITLE OF PUBLICATION	COMPONENT															
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
Phototransistor												●				
Phototransistor Array												●				
Photovoltaic Array												●				
Photovoltaic Cell (Solar;IR Detectors)												●				
PIN Diode													●			
PIN Photo Diode												●				
PLA (Programmable Logic Array)								●								
PLL-Phase Lock Loop							●									●
PLS (Programmable Logic Sequence)								●								
Potentiometer Circuit							●									
Potentiometer-Photo												●				
Power-Integrated Thyristor/Rectifier			●	●												
Power-SCR			●	●												●
Power-Triac			●	●												
Power Device						●										●
Power-Drivers Peripheral						●								●		●
Power Supplies Linear															●	
Power Supplies Switching															●	
Power Supply-Switching-Controller							●									●
Power Supply Controller, TV							●		●							
Pre-drivers					●											●
Prescaler					●				●							●
Pressure/Temp Sensor Transistor							●									
Printer Controller										●	●					
Priority Encoder						●										●
Priority Encoder-Interrupt System						●				●						●
Program Sequence Controller										●						
Program Storage Unit (PSU)								●		●						
Programmable Gain Amplifier							●							●		●
Programmable Gate Array (PGA)								●								●
Programmable Interface						●										●
Programmable Logic Array (PLA)								●								●
Programmable Logic Sequence (PLS)								●								
Programmable Multiplexer								●								●
Programmable Power Source						●								●		
Programmable Read Only Memory								●								●
Programmable ROM Patch (PRP)								●								
Prog. Unijunc. Trans. (PUT)-Thyristor			●													●
Programmer/Sequencer						●								●		
PROM								●								●
PROM (Low Programming Voltage)								●								
Proximity Switch, Solid State							●									
PRP (Programmable ROM Patch)								●								
PSU (Program Storage Unit)								●		●						
Pulse Dialer						●										
Pulse Width Modulator							●									●
Pulse Width Modulator Control CKT							●									●
PUT (Prog. Unijunction Trans.)			●													●
Pyroelectric Detector												●				
Quadrant Detector												●				
Radiation Detector Diode		●														
Radiation Resistant Diode		●														●
Radiation Resistant Transistor	●															●
Radio, AM									●							
Radio, FM									●							
RAM								●		●						●
RAM-I/O-Timer										●						
RAM Module (multi-chip)								●								
Rate Multiplier					●											
RC Oscillator					●											●
RC Timer					●											●
RCT (Reverse Conducting Triode)			●	●												
Read/Write Memory								●		●						●
Receiver-DTMF						●										
Rectifier		●		●												●
Rectifier-Bridge		●														●
Rectifier Diode		●		●												●

TITLE OF PUBLICATION	COMPONENT															
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
Rectifier-Silicon Controlled			●	●												●
Reference Amplifier							●							●		
Reference Diode		●														●
Reflex Detector												●				
Register File								●								●
Regulator-Voltage							●							●		●
Relay Lamp Driver						●										
Relay Solid State						●										
Remote Control Unit-General Purpose						●			●							
Remote Control Unit-Receiver									●							
Remote Control Unit-Transmitter									●							
Repertory Dialer							●									
Resolver to Digital A/D Converter						●										
Reverse Conducting Triode (RCT)			●	●												
RF/IF Amplifiers							●		●					●		●
RF Power Amplifier Transistor	●															●
RF Signal Processing ICs							●		●							
Ring/Bridge Quad													●			●
Ring/Johnson Counter					●											●
Ring Modulator							●									
Ring/Quad Diode													●			
RMS to DC Converter							●									
ROM								●		●						●
ROM, Speech Synthesis									●							
SAS			●													
Sample/Hold						●								●		●
Sample/Hold Amplifier						●								●		●
SAT (Silicon Asymmetrical Trigger)			●													
SBS (Silicon Bi-directional Switch)			●													
SCA (Silicon Controlled Assembly)			●													
Scaler					●											
Schmitt Trigger						●										●
Schottky-Barrier Diode		●														●
SCR			●	●												●
Sense Amplifier						●										●
Sense Amplifier-Amorphous						●										
Sense Amplifier-Core						●										●
Sense Amp-Magnetic Bubble Mem.						●										●
Sense Amplifier-Magnetic Tape						●										●
Sense Amplifier-MOS						●										●
Sense Amplifier-NMOS						●										●
SenseFET	●															
Sensor-Array-Photodiode												●				
Sensor-Array-Phototransistor												●				
Sensor-Array-Photovoltaic												●				
Sensor-Line-Scanning												●				
Sensor-Matrix/Image Scanning												●				
Sensor-Photocircuit-Camera Control									●			●				
Sensor-Photocircuit-Darlington Stage												●				
Sensor-Photocircuit-Light to Freq.												●				
Sensor-Photocircuit-Multifunc. Proc.												●				
Sensor-Photocircuit-Oper. Amp.												●				
Sensor-Photocircuit-Optical Receiv.												●				
Sensor-Photocircuit-Oscillator												●				
Sensor-Photocircuit-Schmitt Trigger												●				
Sensor-Photocircuit-Transistor Stage												●				
Sensor-Photoconductive Cell												●				
Sensor-Photodarlington												●				
Sensor-Photodiode-Avalanche												●				
Sensor-Photodiode-IR Detector												●				
Sensor-Photodiode-Laser Detector												●				
Sensor-Photodiode-Multielement												●				
Sensor-Photodiode-Pin												●				
Sensor-Photodiode-Special Purpose												●				
Sensor-Photothyristor												●				
Sensor-Phototransistor-Field Eff.												●				
Sensor-Photovoltaic Cell												●				

TITLE OF PUBLICATION	COMPONENT															
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
Sensor-Temperature							●									●
Serial Communication Controller						●					●					
Servo Amplifier							●									
Shift Controller										●						
Shift Matrix								●								
Shift Register								●								●
Shift Register/Analog							●									
Shockley Diode			●													
Signal Processor						●	●		●					●		
Signal Conditioner						●	●							●		
Silicon Asymm. Switch (SAS) Trig.			●													
Silicon Asymmetrical Trigger (SAT)			●													
Silicon Bi-directional Switch (SBS)			●													
Silicon Bi-directional Switch Trigger			●													
Silicon Controlled Assembly (SCA)			●													
Silicon Controlled Bridges			●													
Silicon Controlled Rectifier (SCR)			●	●												●
Silicon Controlled Switches (4 Term)			●													
Silicon Field Effect Trans.-P Channel	●			●												●
Silicon Field Effect Trans.-N Channel	●			●												●
Silicon Unidirectional Switch			●													
Sin/Cos Function Generator							●							●		●
Sine/Square/Triangle Wave Oscillator							●							●		●
Single Chip Microprocessor										●						●
Single Ended Line Driver/Transmitter						●										●
Single Ended Line Receiver						●										●
Single Ended Line Transceiver						●										●
Solar Cell												●				
Solid State Cooling Device							●									
Solid State Relay														●		
Solid State Relay (Optically Coupled)												●		●		
Solid State Video Sensor												●				
Speech Circuit (telephone)							●									
Speech Generator									●							
Speech Synthesizer									●							
SPDT Analog Gate Switches						●										●
Squaring Amplifier							●									●
SSNC Analog Gate Switches						●										●
SSNO Analog Gate Switches						●										●
Stabilizer-Current							●							●		●
Stabilizer-Voltage							●							●		●
Stabistor-Regulating Diode		●														●
Static Column Dynamic RAM								●								
Step Recovery Diode													●			●
Stepper Motor Circuit							●									
Stereo Decoder									●							
Stereo Power Amplifier									●							
Storage Register								●								●
Storage-Special Device					●											●
Storage/Shift Register/RAM-ROM								●								●
Straight Binary Counter					●											●
Subscriber Loop Interface (SLIC)						●	●									
Subtractor					●											●
Successive Approx A/D Converter						●								●		●
Successive Approximation Register						●								●		
Surface Acoustic (SAW) Filter									●							
Surge Suppressor Diode		●														
SUS (Silicon Unidirectional Switch)			●													
Switch-Cross Point							●									
Switch-Debouncer						●										
Switch-Hall Effect							●									
Switch-Light Activated			●	●												
Switch-Optical Limit												●				

TITLE OF PUBLICATION	COMPONENT															
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
Switch, Proximity, Solid State							●									
Switch-Silicon Unidirectional			●													
Switch-Solid State					●								●			
Switch-Zero Voltage							●									●
Switch, Touch Control, Interface						●										
Switch Driver						●								●		●
Switches (4 Term)-Silicon Controlled			●													
Switch Mode Regulator							●									●
Switching Diode		●														●
Switching Network-DAC Current						●										
Switching Power Supply Controller							●									●
Switching Power Supplies																
Switching Transistor	●			●									●			●
Switching Voltage Regulator							●									●
Synchro Conversion Device						●								●		
Synchro Related Devices						●										
Synchro to Digital A/D Converter						●										
T-1 Interface						●	●									
Tape Deck Motor Control									●							
Tape Deck Control IC									●							
Tape System									●							
Telephone Switching Circuit							●									
Telex Circuit							●									
Telecom. Device (Telephone)						●								●		
Temp. Controlled Differential Pair							●									
Temperature Transducer						●	●									
Terminator						●										
Thermopile Detector												●				
Thyristor-ACS-AC Switch			●	●												
Thyristor-GTO-Gate Turnoff Device			●	●												
Thyristor-ITR-Integrated			●	●												
Thyristor/Rectifier			●	●												●
Thyristor-LAS-Light Activated Switch			●	●												
Transistor (PUT)			●													●
Thyristor-RCT-Rev Conducting Triode			●	●												
Thyristor-Silicon Asym. Switch (SAS)			●													
Thyristor-Silicon Bidirect Switch (SBS)			●													
Thyristor-Silicon Unidirect Switch (SUS)			●													
Time Base/Counter					●											●
Time Delays					●											
Timer-RC					●		●									●
Time Slot Assigner Circuit							●									
Tone Ringer							●									
Touch Control Switch Interface							●		●							
Track & Hold Amplifier						●								●		●
Transceiver-Line						●										●
Transceiver-Parallel Communications						●										●
Transducer-Device						●								●		
Transient Voltage Suppressor Diode		●														●
Transistor-Avalanche Mode	●															
Transistor-Bidirectional	●															
Transistor-Complementary Symmetry	●															●
Transistor-Darlington	●			●												●
Transistor-Dual/Quad	●						●									●
Transistor-Field Effect	●			●												●
Transistor-Field Effect-N Channel	●			●												●
Transistor-Field Effect-P Channel	●			●												●
Transistor-Junction Field Effect MW													●			
Transistor-Matched Pair	●															●
Transistor-Microwave													●			
Transistor-MOSFET-Microwave													●			
Transistor-NPN-HiPower-Germanium	●			●												●
Transistor-NPN-HiPower-Silicon	●			●												●
Transistor-NPN-LoPower-Germanium	●															●
Transistor-NPN-LoPower-Silicon	●															●
Transistor-Photo												●				

TITLE OF PUBLICATION	COMPONENT															
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
Transistor-PNP-HiPower-Germanium	●			●												●
Transistor-PNP-HiPower-Silicon	●			●												●
Transistor-PNP-LoPower-Germanium	●															●
Transistor-PNP-LoPower-Silicon	●															●
Transistor-Pressure/Temp. Sensor	●						●									
Transistor-Programmable Unijunction			●													
Transistor-Radiation Resistant	●															●
Transistor-Silicon Field Eff. N Channel	●			●												●
Transistor-Silicon Field Eff. P Channel	●			●												●
Transistor-Switching	●			●									●			●
Transistor-UHF/Microwave													●			
Transistor-Unijunction N	●															●
Transistor-Unijunction P	●															●
Transistor Array	●															●
Transistor Chips	●															
Transistor Chopper	●															●
Translators-Logic Level						●										●
Transmitter/Encoder						●										
Traveling Wave Tube													●			
Triac			●	●												
Trigger-Schmitt						●										●
Trigger-Silicon Asymmetrical			●													
Trigger-Silicon Asymmetrical Switch			●													
Triode-Reverse Conducting			●	●												
TTY Interface/Controller						●				●						
Tube-Backward Wave													●			
Tube-Duplexer													●			
Tube-Klystron													●			
Tube-Magnetron													●			
Tube-Traveling Wave													●			
Tuning Fork Controlled Oscillator					●											
Tunnel Diode													●			●
TV-B/W									●							
TV-Color									●							
UART						●				●				●		●
UHF Detector Diode		●											●			●
UHF Mixer Diode		●											●			●
UHF Microwave Transistor													●			
Ultrasonic Device						●			●							
Unified Bus Comparator					●											
Unijunction Transistor-Programmable			●													●
Univ Asynchronous Rec/Trans						●				●				●		●
Univ Synchronous Rec/Trans						●				●				●		●
(USYNR/T)						●				●						
USYNRT						●				●						
UVEPROM								●								
Varactor Diode													●			●
Varistor		●														
Video Circuits									●							●
VCR Motor Control									●							
VCR REC/PLAY Circuit									●							
Video Detector Devices													●			●
Video Game									●							
Video Modulator							●		●							●
Videotext Display ICs									●							
Voice/Data Circuit							●									
Voice Synthesis									●							
Voltage Comparator							●							●		●
Voltage Controlled Amp							●									
Voltage Controlled Crystal Oscillator					●		●									
Voltage Controlled Oscillator					●		●		●					●		●
Voltage Follower							●							●		●
Voltage Level Detector							●									●
Voltage Limiter							●									●
Voltage Reference Precision							●									●
Voltage Reference Amplifier							●									

TITLE OF PUBLICATION	COMPONENT															
	TRANSISTOR	DIODE	THYRISTOR	POWER SEMICONDUCTOR	DIGITAL ICs	INTERFACE ICs	LINEAR ICs	MEMORY ICs	AUDIO/VIDEO ICs	MICROPROCESSOR ICs	MICROCOMPUTER SYSTEMS	OPTOELECTRONICS	MICROWAVE	MODULES/HYBRIDS	POWER SUPPLIES	MILITARY ELECTRONIC DEVICES GUIDE
Voltage Regulator							●		●					●		●
Voltage Regulator-Diode		●														●
Voltage Stabilizer							●		●					●		●
Voltage to Frequency Converter							●							●		●
Voltage Variable Capacitor													●			●
Wideband Amplifier							●		●					●		●
Window Detector							●									●
X.25 Protocol ICs						●	●			●						
X-Mitter (UART)						●										●
X-Mitter (USYNR/T)						●										
XTAL Oscillator (external XTAL)					●											
XTAL Oscillator w/XTAL														●		
Zero Voltage Switch							●									

FUNCTIONAL EQUIVALENCE INDEX

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4▼	1-800	DTL	MC1800P	MOTA		DIP	108- 68
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31♦	1-804	DTL	MC1904F	MOTA	*	FP	111- 35
32♦	1-804	DTL	MC1904L	MOTA		DIP	111- 36
33♦	1-804	DTL	MC1905F	MOTA	*	FP	111- 20
34♦	1-804	DTL	MC1905L	MOTA		DIP	111- 21
35♦	1-813P	DTL	MC1813L	MOTA		DIP	229- 99
36♦	1-813P	DTL	MC1813P	MOTA		DIP	229-100
37♦	1-814P	DTL	MC1814L	MOTA		DIP	229-101
38♦	1-814P	DTL	MC1814P	MOTA		DIP	229-102
39♦	1-814P	DTL	MC1914F	MOTA		DIP	229-103
40♦	1-814P	DTL	MC1914L	MOTA		DIP	229-104
41	2-009	TTL	RF200CJ	RTN	*	FP	66- 41
42	2-009	TTL	RF200CK	RTN	*	FP	66- 42
43♦	2-009	TTL	RF200DC	RTN		DIP	66- 43
44	2-009	TTL	RF201CJ	RTN	*	FP	66- 44
45	2-009	TTL	RF201CK	RTN	*	FP	66- 45
46♦	2-009	TTL	RF201DC	RTN		DIP	66- 46
47	2-009	TTL	RF202CJ	RTN	*	FP	66- 47
48	2-009	TTL	RF202CK	RTN	*	FP	66- 48
49♦	2-009	TTL	RF202DC	RTN		DIP	66- 49
50	2-009	TTL	RF203CJ	RTN	*	FP	66- 50
51	2-009	TTL	RF203CK	RTN	*	FP	66- 51
52♦	2-009	TTL	RF203DC	RTN		DIP	66- 52
53	2-010	TTL	RF210CJ	RTN	*	FP	66- 53
54	2-010	TTL	RF210CK	RTN	*	FP	66- 54
55♦	2-010	TTL	RF210DC	RTN		DIP	66- 55
56	2-010	TTL	RF211CJ	RTN	*	FP	66- 56
57	2-010	TTL	RF211CK	RTN	*	FP	66- 57
58♦	2-010	TTL	RF211DC	RTN		DIP	66- 58
59	2-010	TTL	RF212CJ	RTN	*	FP	66- 59
60	2-010	TTL	RF212CK	RTN	*	FP	66- 60
61♦	2-010	TTL	RF212DC	RTN		DIP	66- 61
62	2-010	TTL	RF213CJ	RTN	*	FP	66- 62
63	2-010	TTL	RF213CK	RTN	*	FP	66- 63
64♦	2-010	TTL	RF213DC	RTN		DIP	66- 64
65	02-10	TTL	33A125	ESAN			128- 28
66♦	3-25C	HNL	TSC326AL	TSC		DIP	101- 15
67♦	3-33C	HNL	TSC333AL	TSC		DIP	94- 93
68♦	3-90C	DTL	H109D1	SGSI		DIP	83- 38
69♦	3-90C	DTL	H109D2	SGSI		DIP	83- 39
70♦	3-90C	DTL	H109D6	SGSI		DIP	83- 40
71♦	3-90C	DTL	H209B1	SGSI		DIP	83- 41
72	4-000P	TTL	MC4000L	MOTA			125-109
73	4-000P	TTL	MC4000P	MOTA			125-110
74	4-000P	TTL	MC4300F	MOTA			126- 3
75	4-000P	TTL	MC4300L	MOTA			126- 4
76♦	4-00P	TTL	RG240CJ	RTN	*	FP	105- 98
77♦	4-00P	TTL	RG240CK	RTN	*	FP	105- 99
78♦	4-00P	TTL	RG240DC	RTN		DIP	105-100
79♦	4-00P	TTL	RG241CJ	RTN	*	FP	105-101
80♦	4-00P	TTL	RG241CK	RTN	*	FP	105-102
81♦	4-00P	TTL	RG241DC	RTN		DIP	105-103
82♦	4-00P	TTL	RG242CJ	RTN	*	FP	105-104
83♦	4-00P	TTL	RG242CK	RTN	*	FP	105-105
84♦	4-00P	TTL	RG242DC	RTN		DIP	105-106
85♦	4-00P	TTL	RG243CJ	RTN	*	FP	105-107
86♦	4-00P	TTL	RG243CK	RTN	*	FP	105-108
87♦	4-00P	TTL	RG243DC	RTN		DIP	105-109
88♦	4-00P	TTL	RG320CJ	RTN	*	FP	102- 72
89♦	4-00P	TTL	RG320CK	RTN	*	FP	102- 73
90♦	4-00P	TTL	RG320DC	RTN		DIP	102- 74
91♦	4-00P	TTL	RG321CJ	RTN	*	FP	102- 75
92♦	4-00P	TTL	RG321CK	RTN	*	FP	102- 76
93♦	4-00P	TTL	RG321DC	RTN		DIP	102- 77
94♦	4-00P	TTL	RG322CJ	RTN	*	FP	102- 78
95♦	4-00P	TTL	RG322CK	RTN	*	FP	102- 79
96♦	4-00P	TTL	RG322DC	RTN		DIP	102- 80
97♦	4-00P	TTL	RG323CJ	RTN	*	FP	102- 81
98♦	4-00P	TTL	RG323CK	RTN	*	FP	102- 82
99♦	4-00P	TTL	RG323DC	RTN		DIP	102- 83
100♦	4-00P	TTL	RG40CJ	RTN	*	FP	106- 43
101♦	4-00P	TTL	RG40CK	RTN	*	FP	106- 44
102♦	4-00P	TTL	RG40DC	RTN		DIP	106- 45
103♦	4-00P	TTL	RG41CJ	RTN	*	FP	106- 46
104♦	4-00P	TTL	RG41CK	RTN	*	FP	106- 47
105♦	4-00P	TTL	RG41DC	RTN		DIP	106- 48
106♦	4-00P	TTL	RG42CJ	RTN	*	FP	106- 49
107♦	4-00P	TTL	RG42CK	RTN	*	FP	106- 50
108♦	4-00P	TTL	RG42DC	RTN		DIP	106- 51
109♦	4-00P	TTL	RG43CJ	RTN	*	FP	106- 52
110♦	4-00P	TTL	RG43CK	RTN	*	FP	106- 53
111♦	4-00P	TTL	RG43DC	RTN		DIP	106- 54
112♦	4-001P	TTL	MC4001P	MOTA		DIP	125- 4
113♦	4-01P	TTL	RG250CJ	RTN	*	FP	87- 43
114♦	4-01P	TTL	RG250CK	RTN	*	FP	87- 44
115♦	4-01P	TTL	RG250DC	RTN		DIP	87- 45
116♦	4-01P	TTL	RG251CJ	RTN	*	FP	87- 46
117♦	4-01P	TTL	RG251CK	RTN	*	FP	87- 47
118♦	4-01P	TTL	RG251DC	RTN		DIP	87- 48
119♦	4-01P	TTL	RG252CJ	RTN	*	FP	87- 49
120♦	4-01P	TTL	RG252CK	RTN	*	FP	87- 50
121♦	4-01P	TTL	RG252DC	RTN		DIP	87- 51
122♦	4-01P	TTL	RG253CJ	RTN	*	FP	87- 52
123♦	4-01P	TTL	RG253CK	RTN	*	FP	87- 53
124♦	4-01P	TTL	RG253DC	RTN		DIP	87- 54
125♦	4-01P	TTL	RG50CJ	RTN	*	FP	87- 82
126♦	4-01P	TTL	RG50CK	RTN	*	FP	87- 83
127♦	4-01P	TTL	RG50DC	RTN		DIP	87- 84
128♦	4-01P	TTL	RG51CJ	RTN	*	FP	87- 85
129♦	4-01P	TTL	RG51CK	RTN	*	FP	87- 86
130♦	4-01P	TTL	RG51DC	RTN		DIP	87- 87
131♦	4-01P	TTL	RG52CJ	RTN	*	FP	87- 88
132♦	4-01P	TTL	RG52CK	RTN	*	FP	87- 89
133♦	4-01P	TTL	RG52DC	RTN		DIP	87- 90
134♦	4-01P	TTL	RG53CJ	RTN	*	FP	87- 42
135♦	4-01P	TTL	RG53CK	RTN	*	FP	87- 91
136♦	4-01P	TTL	RG53DC	RTN		DIP	87- 92
137	4-002P	TTL	MC4002L	MOTA			126- 1
138	4-002P	TTL	MC4002P	MOTA			126- 2
139♦	4-02P	TTL	RG260CJ	RTN	*	FP	109- 20
140♦	4-02P	TTL	RG260CK	RTN	*	FP	109- 21
141♦	4-02P	TTL	RG260DC	RTN		DIP	109- 22
142♦	4-02P	TTL	RG261CJ	RTN	*	FP	109- 23
143♦	4-02P	TTL	RG261CK	RTN	*	FP	109- 24
144♦	4-02P	TTL	RG261DC	RTN		DIP	109- 25
145♦	4-02P	TTL	RG262CJ	RTN	*	FP	109- 26
146♦	4-02P	TTL	RG262CK	RTN	*	FP	109- 27
147♦	4-02P	TTL	RG262DC	RTN		DIP	109- 28
148♦	4-02P	TTL	RG263CJ	RTN	*	FP	109- 29
149♦	4-02P	TTL	RG263CK	RTN	*	FP	109- 30
150♦	4-02P	TTL	RG263DC	RTN		DIP	109- 31
151♦	4-02P	TTL	RG60CJ	RTN	*	FP	109- 68
152♦	4-02P	TTL	RG60CK	RTN	*	FP	109- 69
153♦	4-02P	TTL	RG60DC	RTN		DIP	109- 70
154♦	4-02P	TTL	RG61CJ	RTN	*	FP	109- 71
155♦	4-02P	TTL	RG61CK	RTN	*	FP	109- 72
156♦	4-02P	TTL	RG61DC	RTN		DIP	109- 73
157♦	4-02P	TTL	RG62CJ	RTN	*	FP	109- 74
158♦	4-02P	TTL	RG62CK	RTN	*	FP	109- 75
159♦	4-02P	TTL	RG62DC	RTN		DIP	109- 76
160♦	4-02P	TTL	RG63CJ	RTN	*	FP	109- 77
161♦	4-02P	TTL	RG63CK	RTN	*	FP	109- 78
162♦	4-02P	TTL	RG63DC	RTN		DIP	109- 79
163♦	4-03P	TTL	RG90CJ	RTN	*	FP	94- 60
164♦	4-03P	TTL	RG90CK	RTN	*	FP	94- 61
165♦	4-03P	TTL	RG90DC	RTN		DIP	94- 62
166♦	4-03P	TTL	RG91CJ	RTN	*	FP	94- 63
167♦	4-03P	TTL	RG91CK	RTN	*	FP	94- 64
168♦	4-03P	TTL	RG91DC	RTN		DIP	94- 65
169♦	4-03P	TTL	RG92CJ	RTN	*	FP	94- 66
170♦	4-03P	TTL	RG92CK	RTN	*	FP	94- 67
171♦	4-03P	TTL	RG92DC	RTN		DIP	94- 68
172♦	4-03P	TTL	RG93CJ	RTN	*	FP	94- 69
173♦	4-03P	TTL	RG93CK	RTN	*	FP	94- 70
174♦	4-03P	TTL	RG93DC	RTN		DIP	94- 71
175♦	4-04P	TTL	RG300CJ	RTN	*	FP	88-106
176♦	4-04P	TTL	RG300CK	RTN	*	FP	88-107
177♦	4-04P	TTL	RG300DC	RTN		DIP	88-108
178♦	4-04P	TTL	RG301CJ	RTN	*	FP	88-109
179♦	4-04P	TTL	RG301CK	RTN	*	FP	88-110
180♦	4-04P	TTL	RG301DC	RTN		DIP	89- 1
181♦	4-04P	TTL	RG302CJ	RTN	*	FP	89- 2
182♦	4-04P	TTL	RG302CK	RTN	*	FP	89- 3
183♦	4-04P	TTL	RG302DC	RTN		DIP	89- 4
184♦	4-04P	TTL	RG303CJ	RTN	*	FP	89- 5
185♦	4-04P	TTL	RG303CK	RTN	*	FP	89- 6
186♦	4-04P	TTL	RG303DC	RTN		DIP	89- 7
187♦	4-05P	TTL	RG110CJ	RTN	*	FP	89- 32
188♦	4-05P	TTL	RG110CK	RTN	*	FP	89- 33
189♦	4-05P	TTL	RG110DC	RTN		DIP	89- 34
190♦	4-05P	TTL	RG111CJ	RTN	*	FP	89- 35
191♦	4-05P	TTL	RG111CK	RTN	*	FP	89- 36
192♦	4-05P	TTL	RG111DC	RTN		DIP	89- 37
193♦	4-05P	TTL	RG112CJ	RTN	*	FP	89- 38
194♦	4-05P	TTL	RG112CK	RTN	*	FP	89- 39
195♦	4-05P	TTL	RG112DC	RTN		DIP	89- 40
196♦	4-05P	TTL	RG113CJ	RTN	*	FP	89- 41
197♦	4-05P	TTL	RG113CK	RTN	*	FP	89- 42
198♦	4-05P	TTL	RG113DC	RTN		DIP	89- 43
199♦	4-05P	TTL	RG210CJ	RTN	*	FP	89- 44
200♦	4-05P	TTL	RG210CK	RTN	*	FP	89- 45
201♦	4-05P	TTL	RG210DC	RTN		DIP	89- 46
202♦	4-05P	TTL	RG211CJ	RTN	*	FP	89- 47
203♦	4-05P	TTL	RG211CK	RTN	*	FP	89- 48
204♦	4-05P	TTL	RG211DC	RTN		DIP	89- 49
205♦	4-05P	TTL	RG212CJ	RTN	*	FP	89- 50
206♦	4-05P	TTL	RG212CK	RTN	*	FP	89- 51
207♦	4-05P	TTL	RG212DC	RTN		DIP	89- 52
208♦	4-05P	TTL	RG213CJ	RTN	*	FP	89- 53
209♦	4-05P	TTL	RG213CK	RTN	*	FP	89- 54
210♦	4-05P	TTL	RG213DC	RTN		DIP	89- 55
211♦	4-06P	TTL	RG120CJ	RTN	*	FP	111- 22
212♦	4-06P	TTL	RG120CK	RTN	*	FP	111- 23
213♦	4-06P	TTL	RG120DC	RTN		DIP	111- 24
214♦	4-06P	TTL	RG121CJ	RTN	*	FP	111- 25
215♦	4-06P	TTL	RG121CK	RTN	*	FP	111- 26
216♦	4-06P	TTL	RG121DC	RTN		DIP	111- 27
217♦	4-06P	TTL	RG122CJ	RTN	*	FP	111- 28
218♦	4-06P	TTL	RG122CK	RTN	*	FP	111- 29
219♦	4-06P	TTL	RG122DC	RTN		DIP	111- 30
220♦	4-06P	TTL	RG123CJ	RTN	*	FP	111- 31

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG SMD	PKG TYPE	PAGE & LINE
1♦	4-06P	TTL	RG123CK	RTN	*	FP	111- 32
2♦	4-06P	TTL	RG123DC	RTN		DIP	111- 33
3♦	4-06P	TTL	RG200CJ	RTN	*	FP	109- 94
4♦	4-06P	TTL	RG200CK	RTN	*	FP	109- 95
5♦	4-06P	TTL	RG200DC	RTN		DIP	109- 96
6♦	4-06P	TTL	RG201CJ	RTN	*	FP	111- 14
7♦	4-06P	TTL	RG201CK	RTN	*	FP	111- 15
8♦	4-06P	TTL	RG201DC	RTN		DIP	111- 16
9♦	4-06P	TTL	RG202CJ	RTN	*	FP	109- 97
10♦	4-06P	TTL	RG202CK	RTN	*	FP	109- 98
11♦	4-06P	TTL	RG202DC	RTN		DIP	109- 99
12♦	4-06P	TTL	RG203CJ	RTN	*	FP	109-100
13♦	4-06P	TTL	RG203CK	RTN	*	FP	109-101
14♦	4-06P	TTL	RG203DC	RTN		DIP	109-102
15♦	4-007P	TTL	MC4007L	MOTA		DIP	126- 11
16♦	4-007P	TTL	MC4007P	MOTA		DIP	126- 12
17♦	4-007P	TTL	MC4307L	MOTA		DIP	126- 13
18♦	4-08	TTL	RG220CJ	RTN	*	FP	98- 7
19♦	4-08	TTL	RG220CK	RTN	*	FP	98- 8
20♦	4-08	TTL	RG220DC	RTN		DIP	98- 9
21♦	4-08	TTL	RG221CJ	RTN	*	FP	98- 10
22♦	4-08	TTL	RG221CK	RTN	*	FP	98- 11
23♦	4-08	TTL	RG221DC	RTN		DIP	98- 12
24♦	4-08	TTL	RG222CJ	RTN	*	FP	98- 13
25♦	4-08	TTL	RG222CK	RTN	*	FP	98- 14
26♦	4-08	TTL	RG222DC	RTN		DIP	98- 15
27♦	4-08	TTL	RG223CJ	RTN	*	FP	98- 16
28♦	4-08	TTL	RG223CK	RTN	*	FP	98- 17
29♦	4-08	TTL	RG223DC	RTN		DIP	98- 18
30♦	4-09P	TTL	RG150CJ	RTN	*	FP	94- 87
31♦	4-09P	TTL	RG150CK	RTN	*	FP	94- 88
32♦	4-09P	TTL	RG150DC	RTN		DIP	94- 89
33♦	4-09P	TTL	RG151CJ	RTN	*	FP	94- 90
34♦	4-09P	TTL	RG151CK	RTN	*	FP	94- 91
35♦	4-09P	TTL	RG151DC	RTN		DIP	94- 92
36♦	4-09P	TTL	RG152CJ	RTN	*	FP	84- 99
37♦	4-09P	TTL	RG152CK	RTN	*	FP	84-100
38♦	4-09P	TTL	RG152DC	RTN		DIP	84-101
39♦	4-09P	TTL	RG153CJ	RTN	*	FP	84-102
40♦	4-09P	TTL	RG153CK	RTN	*	FP	84-103
41♦	4-09P	TTL	RG153DC	RTN		DIP	84-104
42♦	4-09P	TTL	RG230CJ	RTN	*	FP	87- 95
43♦	4-09P	TTL	RG230CK	RTN	*	FP	87- 96
44♦	4-09P	TTL	RG230DC	RTN		DIP	87- 97
45♦	4-09P	TTL	RG231CJ	RTN	*	FP	87- 98
46♦	4-09P	TTL	RG231CK	RTN	*	FP	87- 99
47♦	4-09P	TTL	RG231DC	RTN		DIP	87-100
48♦	4-09P	TTL	RG232CJ	RTN	*	FP	87-101
49♦	4-09P	TTL	RG232CK	RTN	*	FP	87-102
50♦	4-09P	TTL	RG232DC	RTN		DIP	87-103
51♦	4-09P	TTL	RG233CJ	RTN	*	FP	87-104
52♦	4-09P	TTL	RG233CK	RTN	*	FP	87-105
53♦	4-09P	TTL	RG233DC	RTN		DIP	87-106
54♦	4-010	TTL	MC4010L	MOTA		DIP	226- 6
55♦	4-010	TTL	MC4010P	MOTA		DIP	226- 7
56♦	4-010	TTL	MC4310F	MOTA	*	FP	226- 8
57♦	4-010	TTL	MC4310L	MOTA		DIP	226- 9
58♦	4-10P	TTL	RG270CJ	RTN	*	FP	123- 93
59♦	4-10P	TTL	RG270CK	RTN	*	FP	123- 94
60♦	4-10P	TTL	RG270DC	RTN		DIP	123- 95
61♦	4-10P	TTL	RG271CJ	RTN	*	FP	123- 96
62♦	4-10P	TTL	RG271CK	RTN	*	FP	123- 97
63♦	4-10P	TTL	RG271DC	RTN		DIP	123- 98
64♦	4-10P	TTL	RG272CJ	RTN	*	FP	123- 99
65♦	4-10P	TTL	RG272CK	RTN	*	FP	123-100
66♦	4-10P	TTL	RG272DC	RTN		DIP	123-101
67♦	4-10P	TTL	RG273CJ	RTN	*	FP	123-102
68♦	4-10P	TTL	RG273CK	RTN	*	FP	123-103
69♦	4-10P	TTL	RG273DC	RTN		DIP	123-104
70♦	4-11P	TTL	RG180CJ	RTN	*	FP	81- 90
71♦	4-11P	TTL	RG180CK	RTN	*	FP	81- 91
72♦	4-11P	TTL	RG180DC	RTN		DIP	81- 92
73♦	4-11P	TTL	RG181CJ	RTN	*	FP	81- 93
74♦	4-11P	TTL	RG181CK	RTN	*	FP	81- 94
75♦	4-11P	TTL	RG181DC	RTN		DIP	81- 95
76♦	4-11P	TTL	RG182CJ	RTN	*	FP	81- 96
77♦	4-11P	TTL	RG182CK	RTN	*	FP	81- 97
78♦	4-11P	TTL	RG182DC	RTN		DIP	81- 98
79♦	4-11P	TTL	RG183CJ	RTN	*	FP	81- 99
80♦	4-11P	TTL	RG183CK	RTN	*	FP	81-100
81♦	4-11P	TTL	RG183DC	RTN		DIP	81-101
82	4-15	TTL	RF250CJ	RTN	*	FP	65-106
83	4-15	TTL	RF250CK	RTN	*	FP	65-107
84♦	4-15	TTL	RF250DC	RTN		DIP	65-108
85	4-15	TTL	RF251CJ	RTN	*	FP	65-109
86	4-15	TTL	RF251CK	RTN	*	FP	65-110
87♦	4-15	TTL	RF251DC	RTN		DIP	66- 1
88	4-15	TTL	RF252CJ	RTN	*	FP	66- 2
89	4-15	TTL	RF252CK	RTN	*	FP	66- 3
90♦	4-15	TTL	RF252DC	RTN		DIP	66- 4
91	4-15	TTL	RF253CJ	RTN	*	FP	66- 5
92	4-15	TTL	RF253CK	RTN	*	FP	66- 6
93♦	4-15	TTL	RF253DC	RTN		DIP	66- 7
94	4-15P	TTL	RF50CJ	RTN	*	FP	65- 39
95	4-15P	TTL	RF50CK	RTN	*	FP	65- 40
96♦	4-15P	TTL	RF50DC	RTN		DIP	65- 41
97	4-15P	TTL	RF51CJ	RTN	*	FP	65- 42
98	4-15P	TTL	RF51CK	RTN	*	FP	65- 43
99♦	4-15P	TTL	RF51DC	RTN		DIP	65- 44
100	4-15P	TTL	RF52CJ	RTN	*	FP	65- 45
101	4-15P	TTL	RF52CK	RTN	*	FP	65- 46
102♦	4-15P	TTL	RF52DC	RTN		DIP	65- 47
103	4-15P	TTL	RF53CJ	RTN	*	FP	65- 48
104	4-15P	TTL	RF53CK	RTN	*	FP	65- 49
105♦	4-15P	TTL	RF53DC	RTN		DIP	65- 50
106	4-16P	TTL	RF60CJ	RTN	*	FP	65- 51
107	4-16P	TTL	RF60CK	RTN	*	FP	65- 52
108♦	4-16P	TTL	RF60DC	RTN		DIP	65- 53
109	4-16P	TTL	RF61CJ	RTN	*	FP	65- 54
110	4-16P	TTL	RF61CK	RTN	*	FP	65- 55
111♦	4-16P	TTL	RF61DC	RTN		DIP	65- 56
112	4-16P	TTL	RF62CJ	RTN	*	FP	65- 57
113	4-16P	TTL	RF62CK	RTN	*	FP	65- 58
114♦	4-16P	TTL	RF62DC	RTN		DIP	65- 59
115	4-16P	TTL	RF63CJ	RTN	*	FP	65- 60
116	4-16P	TTL	RF63CK	RTN	*	FP	65- 61
117♦	4-16P	TTL	RF63DC	RTN		DIP	65- 62
118♦	4-20P	TTL	RG310CJ	RTN	*	FP	86- 26
119♦	4-20P	TTL	RG310CK	RTN	*	FP	86- 27
120♦	4-20P	TTL	RG310DC	RTN		DIP	86- 28
121♦	4-20P	TTL	RG311CJ	RTN	*	FP	86- 29
122♦	4-20P	TTL	RG311CK	RTN	*	FP	86- 30
123♦	4-20P	TTL	RG311DC	RTN		DIP	86- 31
124♦	4-20P	TTL	RG312CJ	RTN	*	FP	86- 32
125♦	4-20P	TTL	RG312CK	RTN	*	FP	86- 33
126♦	4-20P	TTL	RG312DC	RTN		DIP	86- 34
127♦	4-20P	TTL	RG313CJ	RTN	*	FP	86- 35
128♦	4-20P	TTL	RG313CK	RTN	*	FP	86- 36
129♦	4-20P	TTL	RG313DC	RTN		DIP	86- 37
130♦	4-20P	TTL	RG70CJ	RTN	*	FP	86- 14
131♦	4-20P	TTL	RG70CK	RTN	*	FP	86- 15
132♦	4-20P	TTL	RG70DC	RTN		DIP	86- 16
133♦	4-20P	TTL	RG71CJ	RTN	*	FP	86- 17
134♦	4-20P	TTL	RG71CK	RTN	*	FP	86- 18
135♦	4-20P	TTL	RG71DC	RTN		DIP	86- 19
136♦	4-20P	TTL	RG72CJ	RTN	*	FP	86- 20
137♦	4-20P	TTL	RG72CK	RTN	*	FP	86- 21
138♦	4-20P	TTL	RG72DC	RTN		DIP	86- 22
139♦	4-20P	TTL	RG73CJ	RTN	*	FP	86- 23
140♦	4-20P	TTL	RG73CK	RTN	*	FP	86- 24
141♦	4-20P	TTL	RG73DC	RTN		DIP	86- 25
142▼	4-023P	TTL	MC4023L	MOTA		DIP	185-108
143▼	4-023P	TTL	MC4023P	MOTA		DIP	185-109
144♦	4-024	TTL	MC4024F	MOTA	*	FP	188- 15
145♦	4-024	TTL	MC4024L	MOTA		DIP	192- 6
146♦	4-024	TTL	MC4024L,P	MOTA		DIP	188- 16
147♦	4-024	TTL	MC4024P	MOTA		DIP	192- 7
148♦	4-024	TTL	MC4324F	MOTA	*	FP	188- 17
149♦	4-024	TTL	MC4324L	MOTA		DIP	188- 18
150♦	4-026P	TTL	MC4026L	MOTA		DIP	198- 50
151♦	4-026P	TTL	MC4026P	MOTA		DIP	198- 51
152♦	4-026P	TTL	MC4326F	MOTA	*	FP	198- 57
153♦	4-026P	TTL	MC4326L	MOTA		DIP	198- 58
154♦	4-028P	TTL	MC4028F	MOTA	*	FP	198- 52
155♦	4-028P	TTL	MC4028L	MOTA		DIP	198- 53
156♦	4-028P	TTL	MC4028P	MOTA		DIP	198- 54
157♦	4-028P	TTL	MC4328F	MOTA	*	FP	198- 59
158♦	4-028P	TTL	MC4328L	MOTA		DIP	198- 60
159♦	4-030P	TTL	MC4030L	MOTA		DIP	198- 55
160♦	4-030P	TTL	MC4030P	MOTA		DIP	198- 56
161♦	4-030P	TTL	MC4330F	MOTA	*	FP	198- 61
162♦	4-030P	TTL	MC4330L	MOTA		DIP	198- 62
163	4-032P	TTL	MC4032F	MOTA			125- 56
164	4-032P	TTL	MC4032L	MOTA			125- 57
165	4-032P	TTL	MC4032P	MOTA			125- 58
166	4-032P	TTL	MC4332F	MOTA			125- 59
167	4-032P	TTL	MC4332L	MOTA			125- 60
168♦	4-035P	TTL	MC4035L	MOTA		DIP	232- 11
169♦	4-035P	TTL	MC4035P	MOTA		DIP	232- 12
170♦	4-035P	TTL	MC4335F	MOTA	*	FP	232- 13
171♦	4-035P	TTL	MC4335L	MOTA		DIP	232- 14
172♦	4-037P	TTL	MC4037L	MOTA		DIP	231- 32
173♦	4-037P	TTL	MC4037P	MOTA		DIP	231- 33
174♦	4-037P	TTL	MC4337F	MOTA	*	FP	231- 34
175♦	4-038P	TTL	MC4038P	MOTA		DIP	125- 29
176♦	4-040P	TTL	MC4040P	MOTA		DIP	126- 19
177	4-044	TTL	MC4044F	MOTA	*	FP	247- 19
178♦	4-044	TTL	MC4044L	MOTA		DIP	247- 20
179♦	4-044	TTL	MC4044P	MOTA		DIP	247- 21
180	4-044	TTL	MC4344F	MOTA	*	FP	247- 22
181♦	4-044	TTL	MC4344L	MOTA		DIP	247- 23
182♦	4-048P	TTL	MC4048P	MOTA		DIP	125- 30
183▼	6-60P	DTL	MC660L	MOTA		DIP	108- 83
184▼	6-60P	DTL	MC660P	MOTA		DIP	108- 84
185▼	6-60P	DTL	MC661L	MOTA		DIP	108- 85
186▼	6-60P	DTL	MC661P	MOTA		DIP	108- 86
187▼	6-60P	DTL	MC662L	MOTA		DIP	108- 87
188▼	6-60P	DTL	MC662P	MOTA		DIP	108- 88
189▼	6-63P	DTL	MC663L	MOTA		DIP	67- 28
190▼	6-63P	DTL	MC663P	MOTA		DIP	67- 29
191▼	6-64P	DTL	MC664L	MOTA		DIP	75- 36
192▼	6-64P	DTL	MC664P	MOTA		DIP	75- 37
193▼	6-68P	DTL	MC668L	MOTA		DIP	100-106
194▼	6-68P	DTL	MC668P	MOTA		DIP	100-107
195▼	6-68P	DTL	MC672L	MOTA		DIP	100- 99
196▼	6-68P	DTL	MC672P	MOTA		DIP	100-100
197▼	6-69P	DTL	MC669L	MOTA		DIP	105- 1
198▼	6-69P	DTL	MC669P	MOTA		DIP	105- 2
199▼	6-70P	DTL	MC670L	MOTA		DIP	104- 14
200▼	6-70P	DTL	MC670P	MOTA		DIP	104- 15
201▼	6-70P	DTL	MC671L	MOTA		DIP	104- 9
202▼	6-70P	DTL	MC671P	MOTA		DIP	104- 10
203♦	6-73P	DTL	H105D1	SGSI		DIP	89- 73
204♦	6-73P	DTL	H105D2	SGSI		DIP	89- 74
205♦	6-73P	DTL	H105D6	SGSI		DIP	89- 75
206♦	6-73P	DTL	H205B1	SGSI		DIP	89- 76
207▼	6-73P	DTL	MC673L	MOTA		DIP	86- 76
208▼	6-73P	DTL	MC673P	MOTA		DIP	86- 77
209▼	6-73P	DTL	MC674L	MOTA		DIP	86- 78
210▼	6-73P	DTL	MC674P	MOTA		DIP	86- 79
211▼	6-75P	MON	MC675L	MOTA		DIP	246- 91
212▼	6-75P	MON	MC675P	MOTA		DIP	246- 92
213♦	6-76P	DTL	MC676L	MOTA		DIP	127- 20
214♦	6-76P	DTL	MC676P	MOTA		DIP	127- 21
215♦	6-82P	TTL	MC682L	MOTA		DIP	233- 5
216♦	6-82P	TTL	MC682P	MOTA		DIP	233- 6
217▼	6-83P	DTL	MC683L	MOTA		DIP	94- 42
218▼	6-83P	DTL	MC683P	MOTA		DIP	94- 43
219♦	6-84P	DTL	MC684L	MOTA		DIP	172- 57
220♦	6-84P	DTL	MC684P	MOTA		DIP	172- 58

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG SMD	PKG TYPE	PAGE & LINE
1♦	6-85P	DTL	MC685L	MOTA		DIP	154- 29
2♦	6-85P	DTL	MC685P	MOTA		DIP	154- 30
3♦	6-88P	DTL	MC688L	MOTA		DIP	67- 26
4♦	6-88P	DTL	MC688P	MOTA		DIP	67- 27
5♦	9-020D	TTL	9020DC	FSC		DIP	72- 82
6♦	9-020D	TTL	9020DM	FSC		DIP	72- 83
7	9-020D	TTL	9020FM	FSC	*	FP	72- 84
8♦	9-022D	TTL	9022DC	FSC		DIP	72- 85
9♦	9-022D	TTL	9022DM	FSC		DIP	72- 86
10	9-022D	TTL	9022FM	FSC	*	FP	72- 87
11♦	9-30	DTL	E304D2	SGSI	*	FP	104- 92
12♦	9-30	DTL	E304D7	SGSI	*	FP	104- 93
13♦	9-30	DTL	E304F2	SGSI		DIP	104- 94
14♦	9-30	DTL	E304F7	SGSI		DIP	104- 95
15▼	9-30	DTL	MC830L	MOTA		DIP	105- 3
16▼	9-30	DTL	MC830P	MOTA		DIP	105- 4
17▼	9-30	DTL	MC832L	MOTA		DIP	105- 5
18▼	9-30	DTL	MC832P	MOTA		DIP	105- 6
19▼	9-30	DTL	MC861L	MOTA		DIP	105- 9
20▼	9-30	DTL	MC861P	MOTA		DIP	105- 10
21♦	9-30	DTL	MC930L	MOTA		DIP	105- 11
22♦	9-30	DTL	MC932L	MOTA		DIP	105- 12
23♦	9-30	DTL	MC961L	MOTA		DIP	105- 14
24♦	9-30	DTL	N8416A	MULB		DIP	105- 23
25♦	9-30	DTL	N8416A	PHIN		DIP	105- 23
26♦	9-30	DTL	N8416F	MULB		DIP	105- 24
27♦	9-30	DTL	N8416F	PHIN		DIP	105- 24
28♦	9-30	DTL	N8416J	MULB	*	FP	105- 25
29♦	9-30	DTL	N8416J	PHIN	*	FP	105- 25
30♦	9-30	DTL	SFC930E	THEF		DIP	105- 38
31♦	9-30	DTL	SFC932E	THEF		DIP	105- 39
32♦	9-30	DTL	S8416A	MULB		DIP	105- 35
33♦	9-30	DTL	S8416A	PHIN		DIP	105- 35
34♦	9-30	DTL	S8416F	MULB		DIP	105- 36
35♦	9-30	DTL	S8416F	PHIN		DIP	105- 36
36♦	9-30	DTL	S8416J	MULB	*	FP	105- 37
37♦	9-30	DTL	S8416J	PHIN	*	FP	105- 37
38♦	9-30	DTL	930DM	FSC		DIP	104- 43
39♦	9-30	DTL	930FM	FSC	*	FP	104- 44
40♦	9-30	DTL	930HM	FSC	*	FP	104- 45
41♦	9-30	DTL	932DM	FSC		DIP	104- 46
42♦	9-30	DTL	932FM	FSC	*	FP	104- 47
43♦	9-30	DTL	932HM	FSC		Can	104- 48
44♦	9-30	DTL	961DC	FSC		DIP	104- 52
45♦	9-30	DTL	961DM	FSC		DIP	104- 53
46♦	9-30	DTL	961FM	FSC	*	FP	104- 54
47♦	9-30	DTL	9930BC	SGSI		DIP	104- 58
48♦	9-30	DTL	9930DC	SGSI		DIP	104- 59
49♦	9-30	DTL	9930DM	SGSI		DIP	104- 60
50♦	9-30	DTL	9930FC	SGSI	*	FP	104- 61
51♦	9-30	DTL	9930FM	SGSI	*	FP	104- 62
52♦	9-30	DTL	9932BC	SGSI		DIP	104- 63
53♦	9-30	DTL	9932DC	SGSI		DIP	104- 64
54♦	9-30	DTL	9932DM	SGSI		DIP	104- 65
55♦	9-30	DTL	9932FC	SGSI	*	FP	104- 66
56♦	9-30	DTL	9932FM	SGSI	*	FP	104- 67
57▼	9-31	DTL	MC845L	MOTA		DIP	75- 21
58▼	9-31	DTL	MC845P	MOTA		DIP	75- 22
59▼	9-31	DTL	MC848L	MOTA		DIP	75- 23
60▼	9-31	DTL	MC848P	MOTA		DIP	75- 24
61♦	9-31L	DTL	MC945L	MOTA		DIP	75- 27
62♦	9-31L	DTL	MC948L	MOTA		DIP	75- 28
63♦	9-31L	DTL	SFC945E	THEF		DIP	75- 34
64♦	9-31L	DTL	SFC948E	THEF		DIP	75- 35
65♦	9-31L	DTL	931FM	FSC	*	FP	75- 2
66♦	9-31L	DTL	945DM	FSC		DIP	75- 3
67	9-31L	DTL	945FM	FSC	*	FP	75- 4
68♦	9-31L	DTL	945HM	FSC		Can	75- 5
69♦	9-31L	DTL	948DM	FSC		DIP	75- 6
70	9-31L	DTL	948FM	FSC	*	FP	75- 7
71♦	9-31L	DTL	948HM	FSC		Can	75- 8
72♦	9-31L	DTL	9945BC	SGSI		DIP	75- 11
73♦	9-31L	DTL	9945DC	SGSI		DIP	75- 12
74♦	9-31L	DTL	9945DM	SGSI		DIP	75- 13
75	9-31L	DTL	9945FC	SGSI	*	FP	75- 14
76	9-31L	DTL	9945FM	SGSI	*	FP	75- 15
77♦	9-31L	DTL	9948BC	SGSI		DIP	75- 16
78♦	9-31L	DTL	9948DC	SGSI		DIP	75- 17
79♦	9-31L	DTL	9948DM	SGSI		DIP	75- 18
80	9-31L	DTL	9948FC	SGSI	*	FP	75- 19
81	9-31L	DTL	9948FM	SGSI	*	FP	75- 20
82♦	9-33L	DTL	FZH261	SIEG		DIP	108- 47
83♦	9-33L	DTL	FZH261	VALG		DIP	108- 47
84▼	9-33L	DTL	MC833L	MOTA		DIP	81- 65
85▼	9-33L	DTL	MC833P	MOTA		DIP	81- 66
86♦	9-33L	DTL	MC933L	MOTA		DIP	81- 67
87♦	9-33L	DTL	SFC933E	THEF		DIP	81- 86
88♦	9-33L	DTL	933DM	FSC		DIP	81- 36
89♦	9-33L	DTL	933FM	FSC	*	FP	81- 37
90♦	9-33L	DTL	933HM	FSC		DIP	81- 38
91♦	9-33L	DTL	9933BC	SGSI		DIP	81- 45
92♦	9-33L	DTL	9933DC	SGSI		DIP	81- 46
93♦	9-33L	DTL	9933DM	SGSI		DIP	81- 47
94♦	9-33L	DTL	9933FC	SGSI	*	FP	81- 48
95♦	9-33L	DTL	9933FM	SGSI	*	FP	81- 49
96▼	9-38L	DTL	MC838L	MOTA		DIP	174- 93
97▼	9-38L	DTL	MC838P	MOTA		DIP	174- 94
98♦	9-38L	DTL	MC938L	MOTA		DIP	174- 97
99▼	9-39L	DTL	MC839L	MOTA		DIP	174- 95
100▼	9-39L	DTL	MC839P	MOTA		DIP	174- 96
101♦	9-39L	DTL	MC939L	MOTA		DIP	174- 98
102♦	9-44	DTL	H124D1	SGSI		DIP	104- 96
103♦	9-44	DTL	H124D2	SGSI		DIP	104- 97
104♦	9-44	DTL	H124D6	SGSI		DIP	104- 98
105♦	9-44	DTL	H224B1	SGSI		DIP	104- 99
106▼	9-44	DTL	MC844L	MOTA		DIP	105- 7
107▼	9-44	DTL	MC844P	MOTA		DIP	105- 8
108♦	9-44	DTL	MC944L	MOTA		DIP	105- 13
109♦	9-44	DTL	SFC944E	THEF		DIP	105- 40
110♦	9-44	DTL	944DM	FSC		DIP	104- 49
111♦	9-44	DTL	944FM	FSC	*	FP	104- 50
112♦	9-44	DTL	944HM	FSC		Can	104- 51
113♦	9-44	DTL	9944BC	SGSI		DIP	104- 68
114♦	9-44	DTL	9944DC	SGSI		DIP	104- 69
115♦	9-44	DTL	9944DM	SGSI		DIP	104- 70
116♦	9-44	DTL	9944FC	SGSI	*	FP	104- 71
117♦	9-44	DTL	9944FM	SGSI	*	FP	104- 72
118▼	9-50	DTL	MC850L	MOTA		DIP	75- 25
119▼	9-50	DTL	MC850P	MOTA		DIP	75- 26
120♦	9-50L	DTL	MC950L	MOTA		DIP	75- 29
121♦	9-50L	DTL	950DM	FSC		DIP	75- 41
122♦	9-50L	DTL	950FM	FSC	*	FP	75- 42
123♦	9-50L	DTL	950HM	FSC		Can	75- 9
124♦	9-51	DTL	DN851	MATJ		DIP	165- 50
125♦	9-51	DTL	MC951L	MOTA		DIP	188- 77
126	9-51	DTL	SFC951E	THEF	*	FP	188-104
127♦	9-51	DTL	951DM	FSC		DIP	188- 35
128	9-51	DTL	951FM	FSC	*	FP	188- 36
129♦	9-51	DTL	951HM	FSC		Can	188- 37
130♦	9-51	DTL	9951BC	SGSI		DIP	188- 41
131♦	9-51	DTL	9951DC	SGSI		DIP	188- 42
132♦	9-51	DTL	9951DM	SGSI		DIP	188- 43
133♦	9-51	DTL	9951FC	SGSI		DIP	188- 44
134	9-51	DTL	9951FM	SGSI	*	FP	188- 45
135▼	9-52	DTL	MC852L	MOTA		DIP	66- 95
136▼	9-52	DTL	MC852P	MOTA		DIP	66- 96
137▼	9-52	DTL	MC855L	MOTA		DIP	66- 99
138▼	9-52	DTL	MC855P	MOTA		DIP	66-100
139♦	9-52L	DTL	MC952L	MOTA		DIP	66-103
140♦	9-52L	DTL	MC955L	MOTA		DIP	66-105
141▼	9-53	DTL	MC853L	MOTA		DIP	66- 97
142▼	9-53	DTL	MC853P	MOTA		DIP	66- 98
143▼	9-53	DTL	MC856L	MOTA		DIP	66-101
144▼	9-53	DTL	MC856P	MOTA		DIP	66-102
145♦	9-53L	DTL	MC953L	MOTA		DIP	66-104
146♦	9-53L	DTL	MC956L	MOTA		DIP	66-106
147♦	9-54L		954DC	FSC		DIP	81-102
148▼	9-57	DTL	MC857L	MOTA		DIP	99- 78
149▼	9-57	DTL	MC857P	MOTA		DIP	99- 79
150▼	9-57	DTL	MC858L	MOTA		DIP	99- 44
151▼	9-57	DTL	MC858P	MOTA		DIP	99- 45
152♦	9-57	DTL	MC957L	MOTA		DIP	99- 80
153♦	9-57	DTL	MC958L	MOTA		DIP	99- 46
154♦	9-57	RTL	958DC	FSC		DIP	165- 89
155♦	9-57	RTL	958HM	FSC		Can	165- 90
156♦	9-89L	RTL	989DC	FSC		DIP	165- 47
157♦	9-89L	RTL	989HM	FSC		Can	165- 48
158♦	9-093D	DTL	DM9093N	NSC		DIP	66- 88
159♦	9-093D	DTL	DM9094N	NSC		DIP	66- 89
160♦	9-093D	DTL	9093BC	FSC		DIP	66- 68
161♦	9-093D	DTL	9093DC	FSC		DIP	66- 69
162♦	9-093D	DTL	9093DM	FSC		DIP	66- 70
163	9-093D	DTL	9093FC	FSC	*	FP	66- 71
164	9-093D	DTL	9093FM	FSC	*	FP	66- 72
165♦	9-093D	DTL	9094BC	SGSI		DIP	66- 73
166♦	9-093D	DTL	9094DC	FSC		DIP	66- 74
167♦	9-093D	DTL	9094DC	SGSI		DIP	66- 74
168♦	9-093D	DTL	9094DM	FSC		DIP	66- 75
169♦	9-093D	DTL	9094DM	SGSI		DIP	66- 75
170	9-093D	DTL	9094FC	SGSI	*	FP	66- 76
171	9-093D	DTL	9094FM	FSC	*	FP	66- 77
172	9-093D	DTL	9094FM	SGSI	*	FP	66- 77
173♦	9-097D	DTL	DM9097N	NSC		DIP	66- 90
174♦	9-097D	DTL	DM9099N	NSC		DIP	66- 91
175♦	9-097D	DTL	9097BC	SGSI		DIP	66- 78
176♦	9-097D	DTL	9097DC	FSC		DIP	66- 79
177♦	9-097D	DTL	9097DC	SGSI		DIP	66- 79
178♦	9-097D	DTL	9097DM	FSC		DIP	66- 80
179♦	9-097D	DTL	9097DM	SGSI		DIP	66- 80
180	9-097D	DTL	9097FC	SGSI	*	FP	66- 81
181	9-097D	DTL	9097FM	FSC	*	FP	66- 82
182	9-097D	DTL	9097FM	SGSI	*	FP	66- 82
183♦	9-097D	DTL	9099BC	FSC		DIP	66- 83
184♦	9-097D	DTL	9099BC	SGSI		DIP	66- 83
185♦	9-097D	DTL	9099DC	FSC		DIP	66- 84
186♦	9-097D	DTL	9099DC	SGSI		DIP	66- 84
187♦	9-097D	DTL	9099DM	FSC		DIP	66- 85
188♦	9-097D	DTL	9099DM	SGSI		DIP	66- 85
189	9-097D	DTL	9099FC	FSC	*	FP	66- 86
190	9-097D	DTL	9099FC	SGSI	*	FP	66- 86
191	9-097D	DTL	9099FM	FSC	*	FP	66- 87
192	9-097D	DTL	9099FM	SGSI	*	FP	66- 87
193♦	9-111D	HTL	9111DM	FSC		DIP	75- 51
194	9-111D	HTL	9111FM	FSC	*	FP	75- 52
195♦	10-181	ECL	MC10H181L	MOTA		DIP	220- 27
196▼	10-181	ECL	MC10H181LD	MOTA		DIP	220- 28
197▼	10-181	ECL	MC10H181LDS	MOTA		DIP	220- 29
198♦	10-181	ECL	MC10H181LS	MOTA		DIP	220- 30
199▼	10-181	ECL	MC10H181LW	MOTA		DIP	220- 31
200▼	10-181	ECL	MC10H181LWD	MOTA		DIP	220- 32
201▼	10-181	ECL	MC10H181LWDS	MOTA		DIP	220- 33
202♦	10-181	ECL	MC10H181P	MOTA		DIP	220- 34
203▼	10-181	ECL	MC10H181PD	MOTA		DIP	220- 35
204▼	10-181	ECL	MC10H181PDS	MOTA		DIP	220- 36
205♦	10-181	ECL	MC10H181PS	MOTA		DIP	220- 37
206▼	10-181	ECL	MC10H181PW	MOTA		DIP	220- 38
207▼	10-181	ECL	MC10H181PWD	MOTA		DIP	220- 39
208▼	10-181	ECL	MC10H181PWDS	MOTA		DIP	220- 40
209♦	10-181	ECL	MC10181L	MOTA		DIP	220- 56
210▼	10-181	ECL	MC10181LD	MOTA		DIP	220- 57
211▼	10-181	ECL	MC10181LDS	MOTA		DIP	220- 58
212♦	10-181	ECL	MC10181P	MOTA		DIP	220- 59
213▼	10-181	ECL	MC10181PD	MOTA		DIP	220- 60
214▼	10-181	ECL	MC10181PDS	MOTA		DIP	220- 61
215♦	10-181	ECL	10181F	MULB		DIP	220- 51
216♦	10-181	ECL	10181F	PHIN		DIP	220- 51
217♦	10-181	ECL	10181F	RTCF		DIP	220- 51
218♦	10-181	ECL	10181F	SIC		DIP	220- 51
219♦	10-181	ECL	10181F	VALG		DIP	220- 51
220♦	10-181	ECL	10181N	MULB		DIP	220- 52

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	10-181	ECL	10181N	PHIN		DIP	220- 52
2♦	10-181	ECL	10181N	RTCF		DIP	220- 52
3♦	10-181	ECL	10181N	SIC		DIP	220- 52
4♦	10-181	ECL	10181N	VALG		DIP	220- 52
5▼	12DS15	CMOS	DS1215(A)	DAL		DIP	192- 66
6♦	25WT16	CMOS	WTL2516AJC	WET		DIP	210- 47
7♦	25WT16	CMOS	WTL2516AJE	WET		DIP	211- 49
8♦	25WT16	CMOS	WTL2516AJM	WET		DIP	211- 50
9♦	25WT16	CMOS	WTL2516BJC	WET		DIP	208- 17
10♦	25WT16	CMOS	WTL2516BJE	WET		DIP	209- 31
11♦	25WT16	CMOS	WTL2516BJM	WET		DIP	209- 32
12♦	25WT16	CMOS	WTL2516CJC	WET		DIP	207- 17
13♦	25WT16	CMOS	WTL2516CJE	WET		DIP	208- 21
14♦	25WT16	CMOS	WTL2516CJM	WET		DIP	208- 22
15♦	25WT16	CMOS	WTL2516JC	WET		DIP	212- 17
16♦	25WT16	CMOS	WTL2516JE	WET		DIP	212- 92
17♦	25WT16	CMOS	WTL2516JM	WET		DIP	212- 93
18♦	25WT16	NMOS	WTL1516BJC	WET		DIP	210- 35
19♦	25WT16	NMOS	WTL1516BJM	WET		DIP	211- 37
20	25WTX16	CMOS	WTL2516AGCD	WET		PGA	210- 46
21	25WTX16	CMOS	WTL2516AGMD	WET		PGA	211- 48
22	25WTX16	CMOS	WTL2516BGCD	WET		PGA	208- 16
23	25WTX16	CMOS	WTL2516BGMD	WET		PGA	209- 30
24	25WTX16	CMOS	WTL2516CGCD	WET		PGA	207- 16
25	25WTX16	CMOS	WTL2516CGMD	WET		PGA	208- 20
26	25WTX16	CMOS	WTL2516GCD	WET		PGA	212- 16
27	25WTX16	CMOS	WTL2516GMD	WET		PGA	212- 91
28	25WTX16	NMOS	WTL1516BGCD	WET		PGA	210- 34
29	25WTX16	NMOS	WTL1516BGMD	WET		PGA	211- 36
30	25WTY16	CMOS	WTL2516ALCC	WET	*	LLCC	210- 49
31	25WTY16	CMOS	WTL2516ALMC	WET	*	LLCC	211- 52
32	25WTY16	CMOS	WTL2516BLCC	WET	*	LLCC	208- 19
33	25WTY16	CMOS	WTL2516BLMC	WET	*	LLCC	209- 34
34	25WTY16	CMOS	WTL2516CLCC	WET	*	LLCC	207- 19
35	25WTY16	CMOS	WTL2516CLMC	WET	*	LLCC	208- 24
36	25WTY16	CMOS	WTL2516LCC	WET	*	LLCC	212- 19
37	25WTY16	CMOS	WTL2516LMC	WET	*	LLCC	212- 95
38	25WTY16	NMOS	WTL1516BLCA	WET	*	LLCC	210- 36
39	25WTY16	NMOS	WTL1516BLMA	WET	*	LLCC	211- 38
40	25WTZ16	CMOS	WTL2516ALCA	WET	*	LLCC	210- 48
41	25WTZ16	CMOS	WTL2516ALMA	WET	*	LLCC	211- 51
42	25WTZ16	CMOS	WTL2516BLCA	WET	*	LLCC	208- 18
43	25WTZ16	CMOS	WTL2516BLMA	WET	*	LLCC	209- 33
44	25WTZ16	CMOS	WTL2516CLCA	WET	*	LLCC	207- 18
45	25WTZ16	CMOS	WTL2516CLMA	WET	*	LLCC	208- 23
46	25WTZ16	CMOS	WTL2516LCA	WET	*	LLCC	212- 18
47	25WTZ16	CMOS	WTL2516LMA	WET	*	LLCC	212- 94
48♦	25WT17	CMOS	WTL2517AJC	WET		DIP	210- 51
49♦	25WT17	CMOS	WTL2517AJE	WET		DIP	211- 54
50♦	25WT17	CMOS	WTL2517AJM	WET		DIP	211- 55
51♦	25WT17	CMOS	WTL2517BJC	WET		DIP	208- 26
52♦	25WT17	CMOS	WTL2517BJE	WET		DIP	209- 36
53♦	25WT17	CMOS	WTL2517BJM	WET		DIP	209- 37
54♦	25WT17	CMOS	WTL2517CJC	WET		DIP	207- 21
55♦	25WT17	CMOS	WTL2517CJE	WET		DIP	208- 28
56♦	25WT17	CMOS	WTL2517CJM	WET		DIP	208- 29
57♦	25WT17	CMOS	WTL2517JC	WET		DIP	212- 21
58♦	25WT17	CMOS	WTL2517JE	WET		DIP	212- 97
59♦	25WT17	CMOS	WTL2517JM	WET		DIP	212- 98
60	25WTZ17	CMOS	WTL2517AGCD	WET		PGA	210- 50
61	25WTZ17	CMOS	WTL2517AGMD	WET		PGA	211- 53
62	25WTZ17	CMOS	WTL2517BGCD	WET		PGA	208- 25
63	25WTZ17	CMOS	WTL2517BGMD	WET		PGA	209- 35
64	25WTZ17	CMOS	WTL2517CGCD	WET		PGA	207- 20
65	25WTZ17	CMOS	WTL2517CGMD	WET		PGA	208- 27
66	25WTZ17	CMOS	WTL2517GCD	WET		PGA	212- 20
67	25WTZ17	CMOS	WTL2517GMD	WET		PGA	212- 96
68♦	40-00	MOS	K176LP4	USSR			112- 38
69♦	40-00B	CMOS	BCL4000B	SSS		DIP	112- 28
70♦	40-00B	CMOS	CD4000AD	RCA		DIP	112- 11
71♦	40-00B	CMOS	CD4000AE	RCA		DIP	112- 12
72♦	40-00B	CMOS	CD4000AF	RCA		DIP	112- 13
73♦	40-00B	CMOS	CD4000BD	RCA		DIP	112- 34
74♦	40-00B	CMOS	CD4000BE	RCA		DIP	112- 35
75♦	40-00B	CMOS	CD4000BF	RCA		DIP	112- 36
76♦	40-00B	CMOS	CD4000CJ	NSC		DIP	112- 17
77♦	40-00B	CMOS	CD4000CN	NSC		DIP	112- 18
78♦	40-00B	CMOS	CD4000MJ	NSC		DIP	112- 3
79♦	40-00B	CMOS	CD4000MW	NSC	*	FP	112- 4
80♦	40-00B	CMOS	CD4000UBD	RCA		DIP	112- 14
81♦	40-00B	CMOS	CD4000UBE	RCA		DIP	112- 15
82♦	40-00B	CMOS	CD4000UBF	RCA		DIP	112- 16
83♦	40-00B	CMOS	CM4000AD	SOD		DIP	112- 5
84♦	40-00B	CMOS	CM4000AE	SOD		DIP	112- 19
85♦	40-00B	CMOS	HBC4000AD	SGSI		DIP	112- 6
86♦	40-00B	CMOS	HBC4000AF	SGSI		DIP	112- 7
87♦	40-00B	CMOS	HBC4000AK	SGSI	*	FP	112- 8
88♦	40-00B	CMOS	HBF4000AE	SGSI		DIP	112- 20
89♦	40-00B	CMOS	HBF4000AF	SGSI		DIP	112- 21
90♦	40-00B	CMOS	HCC4000BD	SGSI		DIP	112- 29
91♦	40-00B	CMOS	HCC4000BF	SGSI		DIP	112- 30
92♦	40-00B	CMOS	HCC4000BK	SGSI	*	QSM	112- 31
93♦	40-00B	CMOS	HCF4000BE	SGSI		DIP	112- 32
94♦	40-00B	CMOS	HCF4000BF	SGSI		DIP	112- 33
95♦	40-00B	CMOS	HEF4000B	PHIN		DIP	112- 22
96♦	40-00B	CMOS	HEF4000B	VALG		DIP	112- 22
97♦	40-00B	CMOS	HEF4000BD	MULB		DIP	112- 23
98♦	40-00B	CMOS	HEF4000BD	PHIN		DIP	112- 23
99♦	40-00B	CMOS	HEF4000BD	RTCF		DIP	112- 23
100♦	40-00B	CMOS	HEF4000BD	VALG		DIP	112- 23
101♦	40-00B	CMOS	HEF4000BP(A)	MULB		DIP	112- 24
102♦	40-00B	CMOS	HEF4000BP(A)	PHIN		DIP	112- 24
103♦	40-00B	CMOS	HEF4000BP(A)	RTCF		DIP	112- 24
104♦	40-00B	CMOS	HEF4000BP(A)	VALG		DIP	112- 24
105♦	40-00B	CMOS	HEF4000BPN	SIC		DIP	112- 9
106♦	40-00B	CMOS	HEF4000BT	MULB	*	SO	112- 25
107♦	40-00B	CMOS	HEF4000BT	PHIN	*	SO	112- 25
108♦	40-00B	CMOS	HEF4000BT	RTCF	*	SO	112- 25
109♦	40-00B	CMOS	HEF4000BT	VALG	*	SO	112- 25
110♦	40-00B	CMOS	HEF4000BTD	SIC	*	SO	112- 10
111♦	40-00B	CMOS	MC14000UBAL	MOTA		DIP	111-100
112▼	40-00B	CMOS	MC14000UBALD	MOTA		DIP	111-101
113▼	40-00B	CMOS	MC14000UBALDS	MOTA		DIP	111-102
114▼	40-00B	CMOS	MC14000UBALS	MOTA		DIP	111-103
115♦	40-00B	CMOS	MC14000UBCL	MOTA		DIP	111-104
116▼	40-00B	CMOS	MC14000UBCLD	MOTA		DIP	111-105
117▼	40-00B	CMOS	MC14000UBCLDS	MOTA		DIP	111-106
118▼	40-00B	CMOS	MC14000UBCLS	MOTA		DIP	111-107
119♦	40-00B	CMOS	MC14000UBCP	MOTA		DIP	111-108
120▼	40-00B	CMOS	MC14000UBCPD	MOTA		DIP	111-109
121▼	40-00B	CMOS	MC14000UBCPDS	MOTA		DIP	111-110
122▼	40-00B	CMOS	MC14000UBCPS	MOTA		DIP	112- 1
123▼	40-00B	CMOS	MC14000UBD	MOTA		DIP	112- 2
124♦	40-00B	CMOS	SCL4000B	SSS		DIP	112- 37
125♦	40-00B	CMOS	SFF24000AEV	THEF		DIP	116- 85
126♦	40-00B	CMOS	SFF24000AKM	THEF		DIP	116- 75
127♦	40-00B	CMOS	TC4000BP	IMTM		DIP	112- 26
128♦	40-00B	CMOS	TC4000BP	TOSJ		DIP	112- 26
129♦	40-00B	CMOS	883C4000B	SSS		DIP	112- 27
130♦	40-01	CMOS	HEF4001BT	MULB	*	SO	114- 57
131♦	40-01	CMOS	HEF4001BT	PHIN	*	SO	114- 57
132♦	40-01	CMOS	HEF4001BT	RTCF	*	SO	114- 57
133♦	40-01	CMOS	HEF4001BT	VALG	*	SO	114- 57
134▼	40-01	CMOS	HEF4001UB	PHIN		DIP	114- 67
135♦	40-01	CMOS	HEF4001UBD	MULB		DIP	114- 68
136♦	40-01	CMOS	HEF4001UBD	PHIN		DIP	114- 68
137♦	40-01	CMOS	HEF4001UBD	RTCF		DIP	114- 68
138♦	40-01	CMOS	HEF4001UBD	VALG		DIP	114- 68
139♦	40-01	CMOS	HEF4001UBP	MULB		DIP	114- 69
140♦	40-01	CMOS	HEF4001UBP	PHIN		DIP	114- 69
141♦	40-01	CMOS	HEF4001UBP	RTCF		DIP	114- 69
142♦	40-01	CMOS	HEF4001UBP	VALG		DIP	114- 69
143♦	40-01	CMOS	HEF4001UBT	MULB	*	SO	114- 70
144♦	40-01	CMOS	HEF4001UBT	PHIN	*	SO	114- 70
145♦	40-01	CMOS	HEF4001UBT	RTCF	*	SO	114- 70
146♦	40-01	CMOS	HEF4001UBT	VALG	*	SO	114- 70
147♦	40-01	CMOS	LC4001BM	TSAJ	*	SO	114- 29
148♦	40-01	CMOS	NJU4001BD	NJRC	*	SO	114-110
149♦	40-01	CMOS	NJU4001BN	NJRC		DIP	115- 1
150♦	40-01	CMOS	UPD4001BC	NECJ		DIP	114- 98
151♦	40-01	CMOS	UPD4001BG	NECJ	*	SO	114- 99
152♦	40-01B	CMOS	BCL4001B	SSS		DIP	114-101
153♦	40-01B	CMOS	BCL4001UB	SSS		DIP	114- 54
154▼	40-01B	CMOS	BU4001B	RHM		DIP	112- 55
155▼	40-01B	CMOS	BU4001BF	RHM	*	SO	112- 56
156♦	40-01B	CMOS	CD4001AD	RCA		DIP	114- 60
157♦	40-01B	CMOS	CD4001AE	BELI		DIP	114- 61
158♦	40-01B	CMOS	CD4001AE	RCA		DIP	114- 61
159♦	40-01B	CMOS	CD4001AF	BELI		DIP	114- 62
160♦	40-01B	CMOS	CD4001AF	RCA		DIP	114- 62
161♦	40-01B	CMOS	CD4001BCJ	NSC		DIP	114- 78
162♦	40-01B	CMOS	CD4001BCN	NSC		DIP	114- 79
163♦	40-01B	CMOS	CD4001BD	RCA		DIP	114-107
164♦	40-01B	CMOS	CD4001BE	BELI		DIP	114-108
165♦	40-01B	CMOS	CD4001BE	RCA		DIP	114-108
166♦	40-01B	CMOS	CD4001BF	BELI		DIP	114-109
167♦	40-01B	CMOS	CD4001BF	RCA		DIP	114-109
168♦	40-01B	CMOS	CD4001BMJ	NSC		DIP	114- 80
169♦	40-01B	CMOS	CD4001BMW	NSC	*	FP	114- 81
170♦	40-01B	CMOS	CD4001CJ	NSC		DIP	114- 73
171♦	40-01B	CMOS	CD4001CN	NSC		DIP	114- 74
172♦	40-01B	CMOS	CD4001MJ	NSC		DIP	114- 23
173♦	40-01B	CMOS	CD4001MW	NSC	*	FP	114- 24
174♦	40-01B	CMOS	CD4001UBD	RCA		DIP	114- 63
175♦	40-01B	CMOS	CD4001UBE	RCA		DIP	114- 64
176♦	40-01B	CMOS	CD4001UBF	RCA		DIP	114- 65
177♦	40-01B	CMOS	CM4001AD	SOD		DIP	114- 43
178♦	40-01B	CMOS	CM4001AE	SOD		DIP	114- 75
179♦	40-01B	CMOS	HBC4001AD	SGSI		DIP	114- 44
180♦	40-01B	CMOS	HBC4001AF	SGSI		DIP	114- 45
181♦	40-01B	CMOS	HBC4001AK	SGSI	*	FP	114- 46
182♦	40-01B	CMOS	HBF4001AE	SGSI		DIP	114- 76
183♦	40-01B	CMOS	HBF4001AF	SGSI		DIP	114- 77
184♦	40-01B	CMOS	HCC4001BD	SGSI		DIP	114-102
185♦	40-01B	CMOS	HCC4001BF	SGSI		DIP	114-103
186♦	40-01B	CMOS	HCC4001BK	SGSI	*	QSM	114-104
187♦	40-01B	CMOS	HCF4001BE	SGSI		DIP	114-105
188♦	40-01B	CMOS	HCF4001BF	SGSI		DIP	114-106
189♦	40-01B	CMOS	HEF4001	RTCF		DIP	114- 25
190♦	40-01B	CMOS	HEF4001BD	MULB		DIP	114- 55
191♦	40-01B	CMOS	HEF4001BD	PHIN		DIP	114- 55
192♦	40-01B	CMOS	HEF4001BD	RTCF		DIP	114- 55
193♦	40-01B	CMOS	HEF4001BD	VALG		DIP	114- 55
194♦	40-01B	CMOS	HEF4001BP	MULB		DIP	114- 56
195♦	40-01B	CMOS	HEF4001BP	PHIN		DIP	114- 56
196♦	40-01B	CMOS	HEF4001BP	RTCF		DIP	114- 56
197♦	40-01B	CMOS	HEF4001BP	VALG		DIP	114- 56
198♦	40-01B	CMOS	HEF4001BPN	SIC		DIP	114- 26
199♦	40-01B	CMOS	HEF4001BTD	SIC	*	SO	114- 27
200♦	40-01B	CMOS	HEF4001P	MULB		DIP	114- 13
201♦	40-01B	CMOS	HEF4001P	PHIN		DIP	114- 13
202♦	40-01B	CMOS	HEF4001P	VALG		DIP	114- 13
203♦	40-01B	CMOS	HEF4001U	RTCF		DIP	114- 28
204♦	40-01B	CMOS	HEF4001UBPN	SIC		DIP	113- 91
205♦	40-01B	CMOS	HEF4001UBTD	SIC	*	SO	114- 58
206♦	40-01B	CMOS	LC4001B	TSAJ		DIP	115- 2
207♦	40-01B	CMOS	MB84001B	FCAJ		DIP	114- 82
208♦	40-01B	CMOS	MB84001BM	FCAJ		DIP	114- 83
209♦	40-01B	CMOS	MC14001BAL	MOTA		DIP	114- 84
210▼	40-01B	CMOS	MC14001BALD	MOTA		DIP	114- 85
211▼	40-01B	CMOS	MC14001BALDS	MOTA		DIP	114- 86
212▼	40-01B	CMOS	MC14001BALS	MOTA		DIP	114- 87
213♦	40-01B	CMOS	MC14001BCL	MOTA		DIP	114- 88
214▼	40-01B	CMOS	MC14001BCLD	MOTA		DIP	114- 89
215▼	40-01B	CMOS	MC14001BCLDS	MOTA		DIP	114- 90
216▼	40-01B	CMOS	MC14001BCLS	MOTA		DIP	114- 91
217♦	40-01B	CMOS	MC14001BCP	MOTA		DIP	114- 92
218▼	40-01B	CMOS	MC14001BCPD	MOTA		DIP	114- 93
219▼	40-01B	CMOS	MC14001BCPDS	MOTA		DIP	114- 94
220▼	40-01B	CMOS	MC14001BCPS	MOTA		DIP	114- 95

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG SMD	PKG TYPE	PAGE & LINE
1▼	40-01B	CMOS	MC14001BD	MOTA		DIP	114- 96
2♦	40-01B	CMOS	MC14001UBAL	MOTA		DIP	114- 30
3▼	40-01B	CMOS	MC14001UBALD	MOTA		DIP	114- 31
4▼	40-01B	CMOS	MC14001UBALDS	MOTA		DIP	114- 32
5▼	40-01B	CMOS	MC14001UBALS	MOTA		DIP	114- 33
6♦	40-01B	CMOS	MC14001UBCL	MOTA		DIP	114- 34
7▼	40-01B	CMOS	MC14001UBCLD	MOTA		DIP	114- 35
8▼	40-01B	CMOS	MC14001UBCLDS	MOTA		DIP	114- 36
9▼	40-01B	CMOS	MC14001UBCLS	MOTA		DIP	114- 37
10♦	40-01B	CMOS	MC14001UBCP	MOTA		DIP	114- 38
11▼	40-01B	CMOS	MC14001UBCPD	MOTA		DIP	114- 39
12▼	40-01B	CMOS	MC14001UBCPDS	MOTA		DIP	114- 40
13▼	40-01B	CMOS	MC14001UBCPS	MOTA		DIP	114- 41
14▼	40-01B	CMOS	MC14001UBD	MOTA		DIP	114- 42
15♦	40-01B	CMOS	MM4601AD	NSC		DIP	114- 21
16♦	40-01B	CMOS	MM5601AN	NSC		DIP	114- 22
17♦	40-01B	CMOS	MN4001B	MATJ		DIP	114- 71
18♦	40-01B	CMOS	MSM4001	OKIJ		DIP	115- 8
19♦	40-01B	CMOS	MSM4001RS	OKIJ		DIP	115- 10
20♦	40-01B	CMOS	MSM505	OKIJ		DIP	115- 9
21♦	40-01B	CMOS	MSM505RS	OKIJ		DIP	115- 7
22♦	40-01B	CMOS	M4001BP	MITJ		DIP	115- 3
23♦	40-01B	CMOS	SCL4001B	SSS		DIP	115- 4
24♦	40-01B	CMOS	SCL4001UB	SSS		DIP	115- 5
25♦	40-01B	CMOS	SFF24001AEV	THEF		DIP	114- 59
26♦	40-01B	CMOS	SFF24001AKM	THEF		DIP	114- 47
27♦	40-01B	CMOS	TC4001BP	IMTM		DIP	115- 6
28♦	40-01B	CMOS	TC4001BP	TOSJ		DIP	115- 6
29♦	40-01B	CMOS	TC4001UBP	TOSJ		DIP	114- 97
30♦	40-01B	CMOS	4001BDC	FSC		DIP	114- 48
31♦	40-01B	CMOS	4001BDM	FSC		DIP	114- 49
32♦	40-01B	CMOS	4001BFC	FSC	*	FP	114- 50
33♦	40-01B	CMOS	4001BFM	FSC	*	FP	114- 51
34♦	40-01B	CMOS	4001BPC	FSC		DIP	114- 52
35♦	40-01B	CMOS	883C4001B	SSS		DIP	114-100
36♦	40-01B	CMOS	883C4001UB	SSS		DIP	114- 53
37♦	40-02	CMOS	HEF4002BT	MULB	*	SO	118- 73
38♦	40-02	CMOS	HEF4002BT	PHIN	*	SO	118- 73
39♦	40-02	CMOS	HEF4002BT	RTCF	*	SO	118- 73
40♦	40-02	CMOS	HEF4002BT	VALG	*	SO	118- 73
41♦	40-02	CMOS	M54HC4002F1(A)	SGSI		DIP	118- 7
42♦	40-02	CMOS	M74HC4002B1(A)	SGSI		DIP	118- 18
43♦	40-02	CMOS	M74HC4002F1(A)	SGSI		DIP	118- 20
44♦	40-02	CMOS	PC54HCT4002D(A)	MULB		DIP	118- 60
45♦	40-02	CMOS	PC54HCT4002D(A)	PHIN		DIP	118- 60
46♦	40-02	CMOS	PC54HCT4002D(A)	RTCF		DIP	118- 60
47♦	40-02	CMOS	PC54HCT4002D(A)	VALG		DIP	118- 60
48♦	40-02	CMOS	PC54HC4002D(A)	MULB		DIP	118- 29
49♦	40-02	CMOS	PC54HC4002D(A)	PHIN		DIP	118- 29
50♦	40-02	CMOS	PC54HC4002D(A)	RTCF		DIP	118- 29
51♦	40-02	CMOS	PC54HC4002D(A)	VALG		DIP	118- 29
52♦	40-02	CMOS	PC74HCT4002D(A)	MULB		DIP	118- 37
53♦	40-02	CMOS	PC74HCT4002D(A)	PHIN		DIP	118- 37
54♦	40-02	CMOS	PC74HCT4002D(A)	RTCF		DIP	118- 37
55♦	40-02	CMOS	PC74HCT4002D(A)	VALG		DIP	118- 37
56♦	40-02	CMOS	PC74HCT4002P(A)	MULB		DIP	118- 32
57♦	40-02	CMOS	PC74HCT4002P(A)	PHIN		DIP	118- 32
58♦	40-02	CMOS	PC74HCT4002P(A)	RTCF		DIP	118- 32
59♦	40-02	CMOS	PC74HCT4002P(A)	VALG		DIP	118- 32
60♦	40-02	CMOS	PC74HCT4002T(A)	MULB	*	SO	118- 33
61♦	40-02	CMOS	PC74HCT4002T(A)	PHIN	*	SO	118- 33
62♦	40-02	CMOS	PC74HCT4002T(A)	RTCF	*	SO	118- 33
63♦	40-02	CMOS	PC74HCT4002T(A)	VALG	*	SO	118- 33
64♦	40-02	CMOS	PC74HC4002D(A)	MULB		DIP	119-104
65♦	40-02	CMOS	PC74HC4002D(A)	PHIN		DIP	119-104
66♦	40-02	CMOS	PC74HC4002D(A)	RTCF		DIP	119-104
67♦	40-02	CMOS	PC74HC4002D(A)	VALG		DIP	119-104
68♦	40-02	CMOS	PC74HC4002P(A)	MULB		DIP	118- 30
69♦	40-02	CMOS	PC74HC4002P(A)	PHIN		DIP	118- 30
70♦	40-02	CMOS	PC74HC4002P(A)	RTCF		DIP	118- 30
71♦	40-02	CMOS	PC74HC4002P(A)	VALG		DIP	118- 30
72♦	40-02	CMOS	PC74HC4002T(A)	MULB	*	SO	118- 31
73♦	40-02	CMOS	PC74HC4002T(A)	PHIN	*	SO	118- 31
74♦	40-02	CMOS	PC74HC4002T(A)	RTCF	*	SO	118- 31
75♦	40-02	CMOS	PC74HC4002T(A)	VALG	*	SO	118- 31
76♦	40-02	CMOS	74HCT4002D(A)	MULB		DIP	118- 36
77♦	40-02	CMOS	74HCT4002D(A)	PHIN		DIP	118- 36
78♦	40-02	CMOS	74HCT4002D(A)	RTCF		DIP	118- 36
79♦	40-02	CMOS	74HCT4002D(A)	SIC		DIP	118- 36
80♦	40-02	CMOS	74HCT4002D(A)	VALG		DIP	118- 36
81♦	40-02	CMOS	74HC4002D(A)	MULB		DIP	118- 35
82♦	40-02	CMOS	74HC4002D(A)	PHIN		DIP	118- 35
83♦	40-02	CMOS	74HC4002D(A)	RTCF		DIP	118- 35
84♦	40-02	CMOS	74HC4002D(A)	SIC		DIP	118- 35
85♦	40-02	CMOS	74HC4002D(A)	VALG		DIP	118- 35
86♦	40-02	MOS	K176LE6	USSR			119-105
87♦	40-02B	CMOS	BCL4002B	SSS		DIP	118- 86
88♦	40-02B	CMOS	CD4002AD	RCA		DIP	118- 75
89♦	40-02B	CMOS	CD4002AE	RCA		DIP	118- 76
90♦	40-02B	CMOS	CD4002AF	RCA	*	FP	118- 77
91♦	40-02B	CMOS	CD4002BD	RCA		DIP	118-108
92♦	40-02B	CMOS	CD4002BE	RCA		DIP	118-109
93♦	40-02B	CMOS	CD4002BF	RCA		DIP	118-110
94♦	40-02B	CMOS	CD4002CJ	NSC		DIP	118- 79
95♦	40-02B	CMOS	CD4002CN	NSC		DIP	118- 80
96♦	40-02B	CMOS	CD4002MJ	NSC		DIP	118- 41
97♦	40-02B	CMOS	CD4002MW	NSC	*	FP	118- 42
98♦	40-02B	CMOS	CD54HCT4002F	RCA		DIP	118- 17
99♦	40-02B	CMOS	CD54HC4002F	RCA		DIP	118- 16
100♦	40-02B	CMOS	CD74HCT4002E	RCA		DIP	118- 5
101♦	40-02B	CMOS	CD74HCT4002M	RCA	*	SO	118- 6
102♦	40-02B	CMOS	CD74HC4002E	RCA		DIP	118- 3
103♦	40-02B	CMOS	CD74HC4002M	RCA	*	SO	118- 4
104♦	40-02B	CMOS	CM4002AD	SOD		DIP	118- 61
105♦	40-02B	CMOS	CM4002AE	SOD		DIP	118- 81
106♦	40-02B	CMOS	HBC4002AD	SGSI		DIP	118- 62
107♦	40-02B	CMOS	HBC4002AF	SGSI		DIP	118- 63
108♦	40-02B	CMOS	HBC4002AK	SGSI	*	FP	118- 64
109♦	40-02B	CMOS	HBF4002AE	SGSI		DIP	118- 82
110♦	40-02B	CMOS	HBF4002AF	SGSI		DIP	118- 83
111♦	40-02B	CMOS	HCC4002BD	SGSI		DIP	118- 88
112♦	40-02B	CMOS	HCC4002BF	SGSI		DIP	118- 89
113♦	40-02B	CMOS	HCC4002BK	SGSI	*	QSM	118- 90
114♦	40-02B	CMOS	HCF4002BE	SGSI		DIP	118- 91
115♦	40-02B	CMOS	HCF4002BF	SGSI		DIP	118- 92
116♦	40-02B	CMOS	HEF4002	RTCF		DIP	118- 43
117♦	40-02B	CMOS	HEF4002BD	MULB		DIP	118- 71
118♦	40-02B	CMOS	HEF4002BD	PHIN		DIP	118- 71
119♦	40-02B	CMOS	HEF4002BD	RTCF		DIP	118- 71
120♦	40-02B	CMOS	HEF4002BD	VALG		DIP	118- 71
121♦	40-02B	CMOS	HEF4002BP	MULB		DIP	118- 72
122♦	40-02B	CMOS	HEF4002BP	PHIN		DIP	118- 72
123♦	40-02B	CMOS	HEF4002BP	RTCF		DIP	118- 72
124♦	40-02B	CMOS	HEF4002BP	VALG		DIP	118- 72
125♦	40-02B	CMOS	HEF4002BPN	SIC		DIP	118- 44
126♦	40-02B	CMOS	HEF4002BTD	SIC	*	SO	118- 45
127♦	40-02B	CMOS	HEF4002P	MULB		DIP	118- 46
128♦	40-02B	CMOS	HEF4002P	PHIN		DIP	118- 46
129♦	40-02B	CMOS	HEF4002P	VALG		DIP	118- 46
130♦	40-02B	CMOS	MB84002B	FCAJ		DIP	118- 93
131♦	40-02B	CMOS	MB84002BM	FCAJ		DIP	118- 94
132♦	40-02B	CMOS	MC14002BAL	MOTA		DIP	118- 95
133▼	40-02B	CMOS	MC14002BALD	MOTA		DIP	118- 96
134▼	40-02B	CMOS	MC14002BALDS	MOTA		DIP	118- 97
135▼	40-02B	CMOS	MC14002BALS	MOTA		DIP	118- 98
136♦	40-02B	CMOS	MC14002BCL	MOTA		DIP	118- 99
137▼	40-02B	CMOS	MC14002BCLD	MOTA		DIP	118-100
138▼	40-02B	CMOS	MC14002BCLDS	MOTA		DIP	118-101
139▼	40-02B	CMOS	MC14002BCLS	MOTA		DIP	118-102
140♦	40-02B	CMOS	MC14002BCP	MOTA		DIP	118-103
141▼	40-02B	CMOS	MC14002BCPD	MOTA		DIP	118-104
142▼	40-02B	CMOS	MC14002BCPDS	MOTA		DIP	118-105
143▼	40-02B	CMOS	MC14002BCPS	MOTA		DIP	118-106
144▼	40-02B	CMOS	MC14002BD	MOTA		DIP	118-107
145♦	40-02B	CMOS	MC14002UBAL	MOTA		DIP	118- 47
146▼	40-02B	CMOS	MC14002UBALD	MOTA		DIP	118- 48
147▼	40-02B	CMOS	MC14002UBALDS	MOTA		DIP	118- 49
148▼	40-02B	CMOS	MC14002UBALS	MOTA		DIP	118- 50
149♦	40-02B	CMOS	MC14002UBCL	MOTA		DIP	118- 51
150▼	40-02B	CMOS	MC14002UBCLD	MOTA		DIP	118- 52
151▼	40-02B	CMOS	MC14002UBCLDS	MOTA		DIP	118- 53
152▼	40-02B	CMOS	MC14002UBCLS	MOTA		DIP	118- 54
153♦	40-02B	CMOS	MC14002UBCP	MOTA		DIP	118- 55
154▼	40-02B	CMOS	MC14002UBCPD	MOTA		DIP	118- 56
155▼	40-02B	CMOS	MC14002UBCPDS	MOTA		DIP	118- 57
156▼	40-02B	CMOS	MC14002UBCPS	MOTA		DIP	118- 58
157▼	40-02B	CMOS	MC14002UBD	MOTA		DIP	118- 59
158♦	40-02B	CMOS	MC54HC4002J	MOTA		DIP	118- 13
159♦	40-02B	CMOS	MC74HC4002J	MOTA		DIP	118- 14
160♦	40-02B	CMOS	MC74HC4002N	MOTA		DIP	118- 15
161♦	40-02B	CMOS	MM4602AD	NSC		DIP	118- 38
162♦	40-02B	CMOS	MM4602AF	NSC		DIP	118- 39
163♦	40-02B	CMOS	MM54HC4002J	NSC		DIP	118- 28
164♦	40-02B	CMOS	MM5602AN	NSC		DIP	118- 40
165♦	40-02B	CMOS	MM74HC4002J	NSC		DIP	118- 22
166♦	40-02B	CMOS	MM74HC4002N	NSC		DIP	118- 23
167♦	40-02B	CMOS	MN4002B	MATJ		DIP	118- 78
168♦	40-02B	CMOS	MSM4002	OKIJ		DIP	119- 5
169♦	40-02B	CMOS	MSM4002RS	OKIJ		DIP	119- 9
170♦	40-02B	CMOS	M4002BP	MITJ		DIP	119- 6
171♦	40-02B	CMOS	SCL4002B	SSS		DIP	119- 1
172♦	40-02B	CMOS	SFF24002AEV	THEF		DIP	118- 74
173♦	40-02B	CMOS	SFF24002AKM	THEF		DIP	118- 65
174♦	40-02B	CMOS	SN54HC4002J	TII		DIP	118- 34
175▼	40-02B	CMOS	SN74HC4002D	TII	*	SO	118- 26
176♦	40-02B	CMOS	SN74HC4002N	TII		DIP	118- 27
177♦	40-02B	CMOS	TC4002BP	IMTM		DIP	119- 7
178♦	40-02B	CMOS	TC4002BP	TOSJ		DIP	119- 7
179▼	40-02B	CMOS	TC74HC4002F(A)	TOSA	*	SO	118- 24
180▼	40-02B	CMOS	TC74HC4002P(A)	TOSA		DIP	118- 25
181♦	40-02B	CMOS	US74HCT4002N(A)	UNV		DIP	118- 12
182♦	40-02B	CMOS	4002A	MULB		DIP	119- 3
183♦	40-02B	CMOS	4002A	PHIN		DIP	119- 3
184♦	40-02B	CMOS	4002BDC	FSC		DIP	118- 66
185♦	40-02B	CMOS	4002BDM	FSC		DIP	118- 67
186♦	40-02B	CMOS	4002BFC	FSC	*	FP	118- 68
187♦	40-02B	CMOS	4002BFM	FSC	*	FP	118- 69
188♦	40-02B	CMOS	4002BPC	FSC		DIP	118- 70
189♦	40-02B	CMOS	74HCT4002N	RCA		DIP	118- 2
190♦	40-02B	CMOS	74HCT4002N	SIC		DIP	118- 2
191♦	40-02B	CMOS	74HC4002N	RCA		DIP	118- 1
192♦	40-02B	CMOS	74HC4002N	SIC		DIP	118- 1
193♦	40-02B	CMOS	883C4002B	SSS		DIP	118- 84
194♦	40-08	CMOS	HEF4008BD	MULB		DIP	201- 10
195♦	40-08	CMOS	HEF4008BD	PHIN		DIP	201- 10
196♦	40-08	CMOS	HEF4008BD	RTCF		DIP	201- 10
197♦	40-08	CMOS	HEF4008BD	VALG		DIP	201- 10
198	40-08B	CMOS	BCL4008B	SSS		DIP	201- 20
199	40-08B	CMOS	CD4008AD	RCA		DIP	201- 53
200	40-08B	CMOS	CD4008AE	RCA		DIP	201- 63
201	40-08B	CMOS	CD4008AF	RCA		DIP	201- 54
202♦	40-08B	CMOS	CD4008BCJ	NSC		DIP	201- 13
203♦	40-08B	CMOS	CD4008BCN	NSC		DIP	201- 14
204	40-08B	CMOS	CD4008BD	RCA		DIP	201- 45
205	40-08B	CMOS	CD4008BE	RCA		DIP	201- 46
206	40-08B	CMOS	CD4008BF	RCA		DIP	201- 47
207♦	40-08B	CMOS	CD4008BMJ	NSC		DIP	201- 15
208	40-08B	CMOS	CD4008BMW	NSC	*	FP	201- 16
209♦	40-08B	CMOS	CM4008AD	SOD		DIP	201- 55
210♦	40-08B	CMOS	CM4008AE	SOD		DIP	201- 64
211	40-08B	CMOS	HBC4008AD	SGSI		DIP	201- 56
212	40-08B	CMOS	HBC4008AF	SGSI		DIP	201- 57
213	40-08B	CMOS	HBC4008AK	SGSI	*	FP	201- 58
214	40-08B	CMOS	HBF4008AE	SGSI		DIP	201- 65
215	40-08B	CMOS	HBF4008AF	SGSI		DIP	201- 66
216♦	40-08B	CMOS	HCC4008BD	SGSI		DIP	201- 21
217♦	40-08B	CMOS	HCC4008BF	SGSI		DIP	201- 22
218	40-08B	CMOS	HCC4008BK	SGSI	*	QSM	201- 23
219♦	40-08B	CMOS	HCF4008BE	SGSI		DIP	201- 24
220♦	40-08B	CMOS	HCF4008BF	SGSI		DIP	201- 25

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1	40-08B	CMOS	HEF4008	RTCF		DIP	201- 3
2♦	40-08B	CMOS	HEF4008B	VALG		DIP	201- 2
3♦	40-08B	CMOS	HEF4008BP	MULB		DIP	201- 11
4♦	40-08B	CMOS	HEF4008BP	PHIN		DIP	201- 11
5♦	40-08B	CMOS	HEF4008BP	RTCF		DIP	201- 11
6♦	40-08B	CMOS	HEF4008BP	VALG		DIP	201- 11
7♦	40-08B	CMOS	HEF4008BPN	SIC		DIP	201- 4
8♦	40-08B	CMOS	HEF4008BT	MULB	*	SO	201- 12
9♦	40-08B	CMOS	HEF4008BT	PHIN	*	SO	201- 12
10♦	40-08B	CMOS	HEF4008BT	RTCF	*	SO	201- 12
11♦	40-08B	CMOS	HEF4008BT	VALG	*	SO	201- 12
12	40-08B	CMOS	HEF4008BTD	SIC	*	SO	200-109
13♦	40-08B	CMOS	HEF4008P	MULB		DIP	200-106
14♦	40-08B	CMOS	HEF4008P	PHIN		DIP	200-106
15♦	40-08B	CMOS	HEF4008P	VALG		DIP	200-106
16♦	40-08B	CMOS	MB84008B	FCAJ		DIP	201- 26
17♦	40-08B	CMOS	MB84008BM	FCAJ		DIP	201- 27
18♦	40-08B	CMOS	MC14008BAL	MOTA		DIP	201- 28
19▼	40-08B	CMOS	MC14008BALD	MOTA		DIP	201- 29
20▼	40-08B	CMOS	MC14008BALDS	MOTA		DIP	201- 30
21▼	40-08B	CMOS	MC14008BALS	MOTA		DIP	201- 31
22♦	40-08B	CMOS	MC14008BCL	MOTA		DIP	201- 32
23▼	40-08B	CMOS	MC14008BCLD	MOTA		DIP	201- 33
24▼	40-08B	CMOS	MC14008BCLDS	MOTA		DIP	201- 34
25▼	40-08B	CMOS	MC14008BCLS	MOTA		DIP	201- 35
26♦	40-08B	CMOS	MC14008BCP	MOTA		DIP	201- 36
27▼	40-08B	CMOS	MC14008BCPD	MOTA		DIP	201- 37
28▼	40-08B	CMOS	MC14008BCPDS	MOTA		DIP	201- 38
29▼	40-08B	CMOS	MC14008BCPS	MOTA		DIP	201- 39
30▼	40-08B	CMOS	MC14008BD	MOTA		DIP	201- 40
31♦	40-08B	CMOS	MSM4008	OKIJ		DIP	201- 59
32♦	40-08B	CMOS	MSM4008RS	OKIJ		DIP	201- 76
33♦	40-08B	CMOS	SCL4008B	SSS		DIP	201- 77
34♦	40-08B	CMOS	SFF24008AEV	THEF		DIP	201- 60
35♦	40-08B	CMOS	SFF24008AKM	THEF		DIP	201- 61
36♦	40-08B	CMOS	TC4008BP	IMTM		DIP	201- 48
37♦	40-08B	CMOS	TC4008BP	TOSJ		DIP	201- 48
38♦	40-08B	CMOS	4008BDC	FSC		DIP	201- 5
39♦	40-08B	CMOS	4008BDM	FSC		DIP	201- 6
40	40-08B	CMOS	4008BFC	FSC	*	FP	201- 7
41	40-08B	CMOS	4008BFM	FSC	*	FP	201- 8
42	40-08B	CMOS	4008BPC	FSC			201- 9
43	40-08B	CMOS	883C4008B	SSS		DIP	201- 19
44♦	40-11	CMOS	HEF4011BT	MULB	*	SO	100- 12
45♦	40-11	CMOS	HEF4011BT	PHIN	*	SO	100- 12
46♦	40-11	CMOS	HEF4011BT	RTCF	*	SO	100- 12
47♦	40-11	CMOS	HEF4011BT	VALG	*	SO	100- 12
48♦	40-11	CMOS	HEF4011UBP	MULB		DIP	100- 34
49♦	40-11	CMOS	HEF4011UBP	PHIN		DIP	100- 34
50♦	40-11	CMOS	HEF4011UBP	RTCF		DIP	100- 34
51♦	40-11	CMOS	HEF4011UBP	VALG		DIP	100- 34
52♦	40-11	CMOS	SCL4011UB	SSS		DIP	100-109
53♦	40-11	CMOS	UPD4011BG	NECJ	*	SO	100- 82
54♦	40-11	MOS	K176LA7	USSR			111- 6
55♦	40-11B	CMOS	BCL4011B	SSS		DIP	100- 84
56♦	40-11B	CMOS	BCL4011UB	SSS		DIP	100- 26
57▼	40-11B	CMOS	BU4011B	RHM		DIP	95- 91
58▼	40-11B	CMOS	BU4011BF	RHM	*	SO	95- 92
59♦	40-11B	CMOS	CD4011AD	RCA		DIP	99- 84
60♦	40-11B	CMOS	CD4011AE	BELI		DIP	100- 27
61♦	40-11B	CMOS	CD4011AE	RCA		DIP	100- 27
62♦	40-11B	CMOS	CD4011AF	BELI		DIP	99- 85
63♦	40-11B	CMOS	CD4011AF	RCA		DIP	99- 85
64♦	40-11B	CMOS	CD4011BCJ	NSC		DIP	100- 60
65♦	40-11B	CMOS	CD4011BCN	NSC		DIP	100- 61
66♦	40-11B	CMOS	CD4011BD	RCA		DIP	100-101
67♦	40-11B	CMOS	CD4011BE	BELI		DIP	100-102
68♦	40-11B	CMOS	CD4011BE	RCA		DIP	100-102
69♦	40-11B	CMOS	CD4011BF	BELI		DIP	100-103
70♦	40-11B	CMOS	CD4011BF	RCA		DIP	100-103
71♦	40-11B	CMOS	CD4011BMJ	NSC		DIP	100- 62
72♦	40-11B	CMOS	CD4011BMW	NSC	*	FP	100- 63
73♦	40-11B	CMOS	CD4011CJ	NSC		DIP	100- 28
74♦	40-11B	CMOS	CD4011CN	NSC		DIP	100- 29
75♦	40-11B	CMOS	CD4011MJ	NSC		DIP	99- 86
76♦	40-11B	CMOS	CD4011MW	NSC	*	FP	99- 87
77♦	40-11B	CMOS	CD4011UBD	RCA		DIP	100- 52
78♦	40-11B	CMOS	CD4011UBE	RCA		DIP	100- 53
79♦	40-11B	CMOS	CD4011UBF	RCA		DIP	100- 54
80♦	40-11B	CMOS	CM4011AD	SOD		DIP	99- 88
81♦	40-11B	CMOS	CM4011AE	SOD		DIP	100- 30
82♦	40-11B	CMOS	HBC4011AD	SGSI		DIP	99- 89
83♦	40-11B	CMOS	HBC4011AF	SGSI		DIP	99- 90
84♦	40-11B	CMOS	HBC4011AK	SGSI	*	FP	99- 91
85♦	40-11B	CMOS	HBF4011AE	SGSI		DIP	100- 31
86♦	40-11B	CMOS	HBF4011AF	SGSI		DIP	100- 32
87♦	40-11B	CMOS	HCC4011BD	SGSI		DIP	100- 91
88♦	40-11B	CMOS	HCC4011BF	SGSI		DIP	100- 92
89♦	40-11B	CMOS	HCC4011BK	SGSI	*	QSM	100- 93
90♦	40-11B	CMOS	HCF4011BE	SGSI		DIP	100- 94
91♦	40-11B	CMOS	HCF4011BF	SGSI		DIP	100- 95
92♦	40-11B	CMOS	HEF4011	RTCF		DIP	99- 74
93♦	40-11B	CMOS	HEF4011BD	MULB		DIP	100- 10
94♦	40-11B	CMOS	HEF4011BD	PHIN		DIP	100- 10
95♦	40-11B	CMOS	HEF4011BD	RTCF		DIP	100- 10
96♦	40-11B	CMOS	HEF4011BD	VALG		DIP	100- 10
97♦	40-11B	CMOS	HEF4011BP	MULB		DIP	100- 11
98♦	40-11B	CMOS	HEF4011BP	PHIN		DIP	100- 11
99♦	40-11B	CMOS	HEF4011BP	RTCF		DIP	100- 11
100♦	40-11B	CMOS	HEF4011BP	VALG		DIP	100- 11
101♦	40-11B	CMOS	HEF4011BPN	SIC		DIP	99- 75
102♦	40-11B	CMOS	HEF4011BTD	SIC	*	SO	99- 76
103♦	40-11B	CMOS	HEF4011P	MULB		DIP	99- 43
104♦	40-11B	CMOS	HEF4011P	PHIN		DIP	99- 43
105♦	40-11B	CMOS	HEF4011P	VALG		DIP	99- 43
106♦	40-11B	CMOS	HEF4011U	RTCF		DIP	99- 77
107♦	40-11B	CMOS	HEF4011UBD	MULB		DIP	100- 33
108♦	40-11B	CMOS	HEF4011UBD	PHIN		DIP	100- 33
109♦	40-11B	CMOS	HEF4011UBD	RTCF		DIP	100- 33
110♦	40-11B	CMOS	HEF4011UBD	VALG		DIP	100- 33
111♦	40-11B	CMOS	HEF4011UBPN	SIC		DIP	98- 85
112♦	40-11B	CMOS	HEF4011UBT	MULB	*	SO	100- 35
113♦	40-11B	CMOS	HEF4011UBT	PHIN	*	SO	100- 35
114♦	40-11B	CMOS	HEF4011UBT	RTCF	*	SO	100- 35
115♦	40-11B	CMOS	HEF4011UBT	VALG	*	SO	100- 35
116♦	40-11B	CMOS	HEF4011UBTD	SIC	*	SO	99- 92
117♦	40-11B	CMOS	LC4011B	TSAJ		DIP	100-104
118♦	40-11B	CMOS	LC4011BM	TSAJ	*	SO	99- 93
119♦	40-11B	CMOS	MB84011B	FCAJ		DIP	100- 67
120♦	40-11B	CMOS	MB84011BM	FCAJ		DIP	100- 68
121♦	40-11B	CMOS	MC14011BAL	MOTA		DIP	100- 69
122▼	40-11B	CMOS	MC14011BALD	MOTA		DIP	100- 70
123▼	40-11B	CMOS	MC14011BALDS	MOTA		DIP	100- 71
124♦	40-11B	CMOS	MC14011BCL	MOTA		DIP	100- 72
125▼	40-11B	CMOS	MC14011BCLD	MOTA		DIP	100- 73
126▼	40-11B	CMOS	MC14011BCLDS	MOTA		DIP	100- 74
127▼	40-11B	CMOS	MC14011BCLS	MOTA		DIP	100- 75
128♦	40-11B	CMOS	MC14011BCP	MOTA		DIP	100- 76
129▼	40-11B	CMOS	MC14011BCPD	MOTA		DIP	100- 77
130▼	40-11B	CMOS	MC14011BCPDS	MOTA		DIP	100- 78
131▼	40-11B	CMOS	MC14011BCPS	MOTA		DIP	100- 79
132▼	40-11B	CMOS	MC14011BD	MOTA		DIP	100- 80
133♦	40-11B	CMOS	MC14011UBAL	MOTA		DIP	99- 94
134▼	40-11B	CMOS	MC14011UBALD	MOTA		DIP	99- 95
135▼	40-11B	CMOS	MC14011UBALDS	MOTA		DIP	99- 96
136▼	40-11B	CMOS	MC14011UBALS	MOTA		DIP	99- 97
137♦	40-11B	CMOS	MC14011UBCL	MOTA		DIP	99- 98
138▼	40-11B	CMOS	MC14011UBCLD	MOTA		DIP	99- 99
139▼	40-11B	CMOS	MC14011UBCLDS	MOTA		DIP	99-100
140▼	40-11B	CMOS	MC14011UBCLS	MOTA		DIP	99-101
141♦	40-11B	CMOS	MC14011UBCP	MOTA		DIP	99-102
142▼	40-11B	CMOS	MC14011UBCPD	MOTA		DIP	99-103
143▼	40-11B	CMOS	MC14011UBCPDS	MOTA		DIP	99-104
144▼	40-11B	CMOS	MC14011UBCPS	MOTA		DIP	99-105
145▼	40-11B	CMOS	MC14011UBD	MOTA		DIP	99-106
146♦	40-11B	CMOS	MM4611AD	NSC		DIP	100- 36
147♦	40-11B	CMOS	MM4611AF	NSC	*	FP	100- 37
148♦	40-11B	CMOS	MM5611AN	NSC		DIP	100- 38
149♦	40-11B	CMOS	MN4011B	MATJ		DIP	100- 56
150♦	40-11B	CMOS	MSM4011	OKIJ		DIP	101- 3
151♦	40-11B	CMOS	MSM4011RS	OKIJ		DIP	101- 11
152♦	40-11B	CMOS	MSM500	OKIJ		DIP	101- 10
153♦	40-11B	CMOS	M4011BP	MITJ		DIP	100-105
154♦	40-11B	CMOS	M4011UBP	MITJ		DIP	100- 66
155♦	40-11B	CMOS	SCL4011B	SSS		DIP	100-108
156♦	40-11B	CMOS	SFF24011AEV	THEF		DIP	99-107
157♦	40-11B	CMOS	SFF24011AKM	THEF		DIP	99-108
158♦	40-11B	CMOS	TC4011BP	IMTM		DIP	100-110
159♦	40-11B	CMOS	TC4011BP	TOSJ		DIP	100-110
160♦	40-11B	CMOS	TC4011UBP	TOSJ		DIP	100- 81
161♦	40-11B	CMOS	4011A	MULB		DIP	101- 1
162♦	40-11B	CMOS	4011A	PHIN		DIP	101- 1
163♦	40-11B	CMOS	4011BDC	FSC		DIP	100- 19
164♦	40-11B	CMOS	4011BDM	FSC		DIP	100- 20
165♦	40-11B	CMOS	4011BFC	FSC	*	FP	100- 21
166♦	40-11B	CMOS	4011BFM	FSC	*	FP	100- 22
167♦	40-11B	CMOS	4011BPC	FSC		DIP	100- 23
168♦	40-11B	CMOS	883C4011B	SSS		DIP	100- 83
169♦	40-11B	CMOS	883C4011UB	SSS		DIP	100- 24
170♦	40-12	MOS	K176LA8	USSR			110-109
171♦	40-12B	CMOS	BCL4012B	SSS		DIP	107-100
172♦	40-12B	CMOS	CD4012AD	RCA		DIP	107- 42
173♦	40-12B	CMOS	CD4012AE	BELI		DIP	107- 65
174♦	40-12B	CMOS	CD4012AE	RCA		DIP	107- 65
175♦	40-12B	CMOS	CD4012AF	BELI		DIP	107- 43
176♦	40-12B	CMOS	CD4012AF	RCA		DIP	107- 43
177♦	40-12B	CMOS	CD4012BD	RCA		DIP	108- 23
178♦	40-12B	CMOS	CD4012BE	RCA		DIP	108- 24
179♦	40-12B	CMOS	CD4012BF	RCA		DIP	108- 25
180♦	40-12B	CMOS	CD4012CJ	NSC		DIP	107- 66
181♦	40-12B	CMOS	CD4012CN	NSC		DIP	107- 67
182♦	40-12B	CMOS	CD4012MJ	NSC		DIP	107- 44
183♦	40-12B	CMOS	CD4012MW	NSC	*	FP	107- 45
184♦	40-12B	CMOS	CD4012UBD	RCA		DIP	107- 81
185♦	40-12B	CMOS	CD4012UBE	RCA		DIP	107- 82
186♦	40-12B	CMOS	CD4012UBF	RCA		DIP	107- 83
187♦	40-12B	CMOS	CM4012AD	SOD		DIP	107- 91
188♦	40-12B	CMOS	CM4012AE	SOD		DIP	108- 3
189♦	40-12B	CMOS	HBC4012AD	SGSI		DIP	107- 92
190♦	40-12B	CMOS	HBC4012AF	SGSI		DIP	107- 93
191♦	40-12B	CMOS	HBC4012AK	SGSI	*	FP	107- 94
192♦	40-12B	CMOS	HBF4012AE	SGSI		DIP	108- 6
193♦	40-12B	CMOS	HBF4012AF	SGSI		DIP	108- 7
194♦	40-12B	CMOS	HCC4012BD	SGSI		DIP	107-102
195♦	40-12B	CMOS	HCC4012BF	SGSI		DIP	107-103
196♦	40-12B	CMOS	HCC4012BK	SGSI	*	QSM	107-104
197♦	40-12B	CMOS	HCF4012BE	SGSI		DIP	107-105
198♦	40-12B	CMOS	HCF4012BF	SGSI		DIP	107-106
199♦	40-12B	CMOS	HEF4012	RTCF		DIP	107- 68
200♦	40-12B	CMOS	HEF4012BD	MULB		DIP	107- 69
201♦	40-12B	CMOS	HEF4012BD	PHIN		DIP	107- 69
202♦	40-12B	CMOS	HEF4012BD	RTCF		DIP	107- 69
203♦	40-12B	CMOS	HEF4012BD	VALG		DIP	107- 69
204♦	40-12B	CMOS	HEF4012BP	MULB		DIP	107- 70
205♦	40-12B	CMOS	HEF4012BP	PHIN		DIP	107- 70
206♦	40-12B	CMOS	HEF4012BP	RTCF		DIP	107- 70
207♦	40-12B	CMOS	HEF4012BP	VALG		DIP	107- 70
208♦	40-12B	CMOS	HEF4012BPN	SIC		DIP	107- 71
209♦	40-12B	CMOS	HEF4012BT	MULB	*	SO	107- 72
210♦	40-12B	CMOS	HEF4012BT	PHIN	*	SO	107- 72
211♦	40-12B	CMOS	HEF4012BT	RTCF	*	SO	107- 72
212♦	40-12B	CMOS	HEF4012BT	VALG	*	SO	107- 72
213♦	40-12B	CMOS	HEF4012BTD	SIC	*	SO	107- 73
214♦	40-12B	CMOS	HEF4012P	MULB		DIP	107- 39
215♦	40-12B	CMOS	HEF4012P	PHIN		DIP	107- 39
216♦	40-12B	CMOS	HEF4012P	VALG		DIP	107- 39
217♦	40-12B	CMOS	LC4012B	TSAJ		DIP	107- 97
218♦	40-12B	CMOS	MB84012B	FCAJ		DIP	108- 21
219♦	40-12B	CMOS	MB84012BM	FCAJ		DIP	108- 22
220♦	40-12B	CMOS	MC14012BAL	MOTA		DIP	108- 8

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1▼	40-12B	CMOS	MC14012BALD	MOTA		DIP	108- 9
2▼	40-12B	CMOS	MC14012BALDS	MOTA		DIP	108- 10
3▼	40-12B	CMOS	MC14012BALS	MOTA		DIP	108- 11
4♦	40-12B	CMOS	MC14012BCL	MOTA		DIP	108- 12
5▼	40-12B	CMOS	MC14012BCLD	MOTA		DIP	108- 13
6▼	40-12B	CMOS	MC14012BCLDS	MOTA		DIP	108- 14
7▼	40-12B	CMOS	MC14012BCLS	MOTA		DIP	108- 15
8♦	40-12B	CMOS	MC14012BCP	MOTA		DIP	108- 16
9▼	40-12B	CMOS	MC14012BCPD	MOTA		DIP	108- 17
10▼	40-12B	CMOS	MC14012BCPDS	MOTA		DIP	108- 18
11▼	40-12B	CMOS	MC14012BCPS	MOTA		DIP	108- 19
12▼	40-12B	CMOS	MC14012BD	MOTA		DIP	108- 20
13♦	40-12B	CMOS	MC14012UBCL	MOTA		DIP	107- 46
14▼	40-12B	CMOS	MC14012UBCLD	MOTA		DIP	107- 47
15▼	40-12B	CMOS	MC14012UBCLDS	MOTA		DIP	107- 48
16▼	40-12B	CMOS	MC14012UBCLS	MOTA		DIP	107- 49
17♦	40-12B	CMOS	MC14012UBCP	MOTA		DIP	107- 50
18▼	40-12B	CMOS	MC14012UBCPD	MOTA		DIP	107- 51
19▼	40-12B	CMOS	MC14012UBCPDS	MOTA		DIP	107- 52
20▼	40-12B	CMOS	MC14012UBCPS	MOTA		DIP	107- 53
21▼	40-12B	CMOS	MC14012UBD	MOTA		DIP	107- 54
22♦	40-12B	CMOS	MM4612AD	NSC		DIP	107- 74
23♦	40-12B	CMOS	MM4612AF	NSC	*	FP	107- 75
24♦	40-12B	CMOS	MM5612AN	NSC		DIP	107- 76
25♦	40-12B	CMOS	MN4012B	MATJ		DIP	107- 85
26♦	40-12B	CMOS	MSM4012	OKIJ		DIP	108- 29
27♦	40-12B	CMOS	MSM4012RS	OKIJ		DIP	108- 44
28♦	40-12B	CMOS	M4012BP	MITJ		DIP	108- 38
29♦	40-12B	CMOS	SCL4012B	SSS		DIP	108- 26
30♦	40-12B	CMOS	SFF24012AEV	THEF			107- 95
31♦	40-12B	CMOS	SFF24012AKM	THEF		DIP	107- 96
32♦	40-12B	CMOS	TC4012BP	IMTM		DIP	108- 39
33♦	40-12B	CMOS	TC4012BP	TOSJ		DIP	108- 39
34♦	40-12B	CMOS	4012A	MULB		DIP	108- 42
35♦	40-12B	CMOS	4012A	PHIN		DIP	108- 42
36♦	40-12B	CMOS	4012BDC	FSC		DIP	107- 60
37♦	40-12B	CMOS	4012BDM	FSC		DIP	107- 61
38♦	40-12B	CMOS	4012BFC	FSC	*	FP	107- 62
39♦	40-12B	CMOS	4012BFM	FSC	*	FP	107- 63
40♦	40-12B	CMOS	4012BPC	FSC		DIP	107- 64
41♦	40-12B	CMOS	883C4012B	SSS		DIP	107- 98
42♦	40-13	CMOS	NJU4013BD	NJRC		DIP	51- 46
43♦	40-13	CMOS	NJU4013BM	NJRC	*	SO	51- 47
44	40-13	MOS	K176TM2	USSR			50- 52
45	40-13B	CMOS	BCL4013B	SSS		DIP	51- 56
46	40-13B	CMOS	CD4013AD	RCA		DIP	50-100
47	40-13B	CMOS	CD4013AE	BELI		DIP	50-101
48	40-13B	CMOS	CD4013AE	RCA		DIP	50-101
49	40-13B	CMOS	CD4013AF	BELI		DIP	50-102
50	40-13B	CMOS	CD4013AF	RCA		DIP	50-102
51♦	40-13B	CMOS	CD4013BCJ	NSC		DIP	50- 81
52♦	40-13B	CMOS	CD4013BCN	NSC		DIP	50- 82
53♦	40-13B	CMOS	CD4013BD	RCA		DIP	50- 85
54♦	40-13B	CMOS	CD4013BE	RCA		DIP	50- 86
55♦	40-13B	CMOS	CD4013BF	RCA		DIP	50- 87
56♦	40-13B	CMOS	CD4013BK	RCA	*	FP	50- 88
57♦	40-13B	CMOS	CD4013BMJ	NSC		DIP	50- 83
58	40-13B	CMOS	CD4013BMW	NSC	*	FP	50- 84
59♦	40-13B	CMOS	CM4013AD	SOD		DIP	50-103
60♦	40-13B	CMOS	CM4013AE	SOD		DIP	50-104
61	40-13B	CMOS	HBC4013AD	SGSI		DIP	50-105
62	40-13B	CMOS	HBC4013AF	SGSI		DIP	50-106
63	40-13B	CMOS	HBC4013AK	SGSI	*	FP	50-107
64	40-13B	CMOS	HBF4013AE	SGSI		DIP	50-108
65	40-13B	CMOS	HBF4013AF	SGSI		DIP	50-109
66♦	40-13B	CMOS	HCC4013BD	SGSI		DIP	51- 13
67♦	40-13B	CMOS	HCC4013BF	SGSI		DIP	51- 14
68	40-13B	CMOS	HCC4013BK	SGSI	*	QSM	51- 15
69♦	40-13B	CMOS	HCF4013BE	SGSI		DIP	51- 16
70♦	40-13B	CMOS	HCF4013BF	SGSI		DIP	51- 17
71	40-13B	CMOS	HEF4013	RTCF		DIP	51- 26
72♦	40-13B	CMOS	HEF4013BD	PHIN		DIP	51- 95
73♦	40-13B	CMOS	HEF4013BP	PHIN		DIP	51- 96
74♦	40-13B	CMOS	HEF4013BPN	SIC		DIP	51- 27
75♦	40-13B	CMOS	HEF4013BT	PHIN	*	SO	51- 97
76	40-13B	CMOS	HEF4013BTD	SIC	*	SO	52- 35
77♦	40-13B	CMOS	HEF4013P	MULB		DIP	51- 24
78♦	40-13B	CMOS	HEF4013P	PHIN		DIP	51- 24
79♦	40-13B	CMOS	HEF4013P	VALG		DIP	51- 24
80♦	40-13B	CMOS	LC4013B	TSAJ		DIP	52- 62
81	40-13B	CMOS	LC4013BM	TSAJ	*	SO	50- 64
82	40-13B	CMOS	MB84013B	FCAJ			50-110
83♦	40-13B	CMOS	MB84013BM	FCAJ		DIP	51- 1
84♦	40-13B	CMOS	MC14013BAL	MOTA		DIP	50- 66
85▼	40-13B	CMOS	MC14013BALD	MOTA		DIP	50- 67
86▼	40-13B	CMOS	MC14013BALDS	MOTA		DIP	50- 68
87▼	40-13B	CMOS	MC14013BALS	MOTA		DIP	50- 69
88♦	40-13B	CMOS	MC14013BCL	MOTA		DIP	50- 70
89▼	40-13B	CMOS	MC14013BCLD	MOTA		DIP	50- 71
90▼	40-13B	CMOS	MC14013BCLDS	MOTA		DIP	50- 72
91▼	40-13B	CMOS	MC14013BCLS	MOTA		DIP	50- 73
92♦	40-13B	CMOS	MC14013BCP	MOTA		DIP	50- 74
93▼	40-13B	CMOS	MC14013BCPD	MOTA		DIP	50- 75
94▼	40-13B	CMOS	MC14013BCPDS	MOTA		DIP	50- 76
95▼	40-13B	CMOS	MC14013BCPS	MOTA		DIP	50- 77
96▼	40-13B	CMOS	MC14013BD	MOTA		DIP	50- 78
97♦	40-13B	CMOS	MM4613AD	NSC		DIP	51- 4
98	40-13B	CMOS	MM4613AF	NSC	*	FP	51- 5
99♦	40-13B	CMOS	MM5613AN	NSC		DIP	51- 6
100♦	40-13B	CMOS	MN4013B	MATJ		DIP	52- 36
101♦	40-13B	CMOS	MSM4013	OKIJ		DIP	51- 7
102♦	40-13B	CMOS	MSM4013RS	OKIJ		DIP	50- 63
103♦	40-13B	CMOS	M4013BP	MITJ		DIP	50- 65
104	40-13B	CMOS	SCL4013B	SSS		DIP	50- 79
105♦	40-13B	CMOS	SFF24013AEV	THEF		DIP	51- 8
106♦	40-13B	CMOS	SFF24013AKM	THEF		DIP	51- 9
107♦	40-13B	CMOS	TC4013BP	IMTM		DIP	50- 80
108♦	40-13B	CMOS	TC4013BP	TOSJ		DIP	50- 80
109	40-13B	CMOS	UPD4013BG	NECJ	*	SO	51- 18
110♦	40-13B	CMOS	4013BDC	FSC		DIP	50- 89
111♦	40-13B	CMOS	4013BDM	FSC		DIP	50- 90
112	40-13B	CMOS	4013BFC	FSC	*	FP	50- 91
113	40-13B	CMOS	4013BFM	FSC	*	FP	50- 92
114♦	40-13B	CMOS	4013BPC	FSC		DIP	50- 93
115	40-13B	CMOS	883C4013B	SSS		DIP	51- 51
116♦	40-17	CMOS	CD74HCT4017M	RCA	*	SO	183- 43
117♦	40-17	CMOS	CD74HC4017M	RCA	*	SO	183- 48
118♦	40-17	CMOS	M54HC4017F1(A)	SGSI		DIP	183- 76
119♦	40-17	CMOS	M74HC4017B1(A)	SGSI		DIP	183- 49
120♦	40-17	CMOS	M74HC4017F1(A)	SGSI		DIP	183- 51
121♦	40-17	CMOS	PC54HCT4017D(A)	MULB		DIP	183- 79
122♦	40-17	CMOS	PC54HCT4017D(A)	PHIN		DIP	183- 79
123♦	40-17	CMOS	PC54HCT4017D(A)	RTCF		DIP	183- 79
124♦	40-17	CMOS	PC54HCT4017D(A)	VALG		DIP	183- 79
125♦	40-17	CMOS	PC54HC4017D(A)	MULB		DIP	183- 81
126♦	40-17	CMOS	PC54HC4017D(A)	PHIN		DIP	183- 81
127♦	40-17	CMOS	PC54HC4017D(A)	RTCF		DIP	183- 81
128♦	40-17	CMOS	PC54HC4017D(A)	VALG		DIP	183- 81
129♦	40-17	CMOS	PC74HCT4017D(A)	MULB		DIP	183- 80
130♦	40-17	CMOS	PC74HCT4017D(A)	PHIN		DIP	183- 80
131♦	40-17	CMOS	PC74HCT4017D(A)	RTCF		DIP	183- 80
132♦	40-17	CMOS	PC74HCT4017D(A)	VALG		DIP	183- 80
133♦	40-17	CMOS	PC74HCT4017P(A)	MULB		DIP	183- 54
134♦	40-17	CMOS	PC74HCT4017P(A)	PHIN		DIP	183- 54
135♦	40-17	CMOS	PC74HCT4017P(A)	RTCF		DIP	183- 54
136♦	40-17	CMOS	PC74HCT4017P(A)	VALG		DIP	183- 54
137♦	40-17	CMOS	PC74HCT4017T(A)	MULB	*	SO	183- 55
138♦	40-17	CMOS	PC74HCT4017T(A)	PHIN	*	SO	183- 55
139♦	40-17	CMOS	PC74HCT4017T(A)	RTCF	*	SO	183- 55
140♦	40-17	CMOS	PC74HCT4017T(A)	VALG	*	SO	183- 55
141♦	40-17	CMOS	PC74HC4017D(A)	MULB		DIP	183- 82
142♦	40-17	CMOS	PC74HC4017D(A)	PHIN		DIP	183- 82
143♦	40-17	CMOS	PC74HC4017D(A)	RTCF		DIP	183- 82
144♦	40-17	CMOS	PC74HC4017D(A)	VALG		DIP	183- 82
145♦	40-17	CMOS	PC74HC4017P(A)	MULB		DIP	183- 52
146♦	40-17	CMOS	PC74HC4017P(A)	PHIN		DIP	183- 52
147♦	40-17	CMOS	PC74HC4017P(A)	RTCF		DIP	183- 52
148♦	40-17	CMOS	PC74HC4017P(A)	VALG		DIP	183- 52
149♦	40-17	CMOS	PC74HC4017T(A)	MULB	*	SO	183- 53
150♦	40-17	CMOS	PC74HC4017T(A)	PHIN	*	SO	183- 53
151♦	40-17	CMOS	PC74HC4017T(A)	RTCF	*	SO	183- 53
152♦	40-17	CMOS	PC74HC4017T(A)	VALG	*	SO	183- 53
153♦	40-17	CMOS	74HCT4017D	SIC	*	SO	183- 58
154♦	40-17	CMOS	74HCT4017N	SIC		DIP	183- 59
155♦	40-17	CMOS	74HC4017D	SIC	*	SO	183- 67
156♦	40-17	CMOS	74HC4017N	SIC		DIP	183- 68
157♦	40-17	CMOS	883C4017B	SSS		DIP	183- 33
158♦	40-17	MOS	K176IE8	USSR			182-104
159♦	40-17B	CMOS	BCL4017B	SSS		DIP	183- 34
160♦	40-17B	CMOS	CD4017AD	RCA		DIP	183- 1
161♦	40-17B	CMOS	CD4017AE	RCA		DIP	183- 2
162♦	40-17B	CMOS	CD4017AF	RCA		DIP	183- 3
163♦	40-17B	CMOS	CD4017BCJ	NSC		DIP	183- 17
164♦	40-17B	CMOS	CD4017BCN	NSC		DIP	183- 18
165♦	40-17B	CMOS	CD4017BD	RCA		DIP	183- 4
166♦	40-17B	CMOS	CD4017BE	RCA		DIP	183- 5
167♦	40-17B	CMOS	CD4017BF	RCA		DIP	183- 6
168♦	40-17B	CMOS	CD4017BMJ	NSC		DIP	183- 19
169♦	40-17B	CMOS	CD4017BMW	NSC	*	FP	183- 20
170♦	40-17B	CMOS	CD54HCT4017F	RCA		DIP	183- 31
171♦	40-17B	CMOS	CD54HC4017F	RCA		DIP	183- 41
172♦	40-17B	CMOS	CD74HCT4017E	RCA		DIP	183- 42
173♦	40-17B	CMOS	CD74HC4017E	RCA		DIP	183- 47
174♦	40-17B	CMOS	CM4017AD	SOD		DIP	183- 7
175♦	40-17B	CMOS	CM4017AE	SOD		DIP	183- 8
176♦	40-17B	CMOS	HBC4017AD	SGSI		DIP	183- 9
177♦	40-17B	CMOS	HBC4017AF	SGSI		DIP	183- 10
178♦	40-17B	CMOS	HBC4017AK	SGSI	*	FP	183- 11
179♦	40-17B	CMOS	HBF4017AE	SGSI		DIP	183- 12
180♦	40-17B	CMOS	HBF4017AF	SGSI		DIP	183- 13
181♦	40-17B	CMOS	HCC4017BD	SGSI		DIP	183- 35
182♦	40-17B	CMOS	HCC4017BF	SGSI		DIP	183- 36
183♦	40-17B	CMOS	HCC4017BK	SGSI	*	QSM	183- 37
184♦	40-17B	CMOS	HCF4017BE	SGSI		DIP	183- 38
185♦	40-17B	CMOS	HCF4017BF	SGSI		DIP	183- 39
186▼	40-17B	CMOS	HD74HC4017FP	HITJ	*	SO	183- 65
187▼	40-17B	CMOS	HD74HC4017P	HITJ		DIP	183- 66
188♦	40-17B	CMOS	HEF4017	RTCF		DIP	183- 28
189♦	40-17B	CMOS	HEF4017BD	MULB		DIP	183- 60
190♦	40-17B	CMOS	HEF4017BD	PHIN		DIP	183- 60
191♦	40-17B	CMOS	HEF4017BD	RTCF		DIP	183- 60
192♦	40-17B	CMOS	HEF4017BD	VALG		DIP	183- 60
193♦	40-17B	CMOS	HEF4017BP	MULB		DIP	183- 61
194♦	40-17B	CMOS	HEF4017BP	PHIN		DIP	183- 61
195♦	40-17B	CMOS	HEF4017BP	RTCF		DIP	183- 61
196♦	40-17B	CMOS	HEF4017BP	VALG		DIP	183- 61
197♦	40-17B	CMOS	HEF4017BPN	SIC		DIP	183- 29
198♦	40-17B	CMOS	HEF4017BT	MULB	*	SO	183- 62
199♦	40-17B	CMOS	HEF4017BT	PHIN	*	SO	183- 62
200♦	40-17B	CMOS	HEF4017BT	RTCF	*	SO	183- 62
201♦	40-17B	CMOS	HEF4017BT	VALG	*	SO	183- 62
202♦	40-17B	CMOS	HEF4017BTD	SIC	*	SO	183- 63
203♦	40-17B	CMOS	HEF4017P	MULB		DIP	183- 30
204♦	40-17B	CMOS	HEF4017P	PHIN		DIP	183- 30
205♦	40-17B	CMOS	HEF4017P	VALG		DIP	183- 30
206♦	40-17B	CMOS	MB84017B	FCAJ		DIP	183- 26
207♦	40-17B	CMOS	MB84017BM	FCAJ		DIP	183- 27
208♦	40-17B	CMOS	MC14017BAL	MOTA		DIP	194- 34
209▼	40-17B	CMOS	MC14017BALD	MOTA		DIP	194- 35
210▼	40-17B	CMOS	MC14017BALDS	MOTA		DIP	194- 36
211▼	40-17B	CMOS	MC14017BALS	MOTA		DIP	194- 37
212♦	40-17B	CMOS	MC14017BCL	MOTA		DIP	194- 8
213▼	40-17B	CMOS	MC14017BCLD	MOTA		DIP	194- 9
214▼	40-17B	CMOS	MC14017BCLDS	MOTA		DIP	194- 10
215▼	40-17B	CMOS	MC14017BCLS	MOTA		DIP	194- 11
216♦	40-17B	CMOS	MC14017BCP	MOTA		DIP	194- 12
217▼	40-17B	CMOS	MC14017BCPD	MOTA		DIP	194- 13
218▼	40-17B	CMOS	MC14017BCPDS	MOTA		DIP	194- 14
219▼	40-17B	CMOS	MC14017BCPS	MOTA		DIP	194- 15
220▼	40-17B	CMOS	MC14017BD	MOTA		DIP	194- 16

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	40-17B	CMOS	MC54HC4017J(A)	MOTA		DIP	183- 69
2♦	40-17B	CMOS	MC74HC4017J(A)	MOTA		DIP	183- 70
3♦	40-17B	CMOS	MC74HC4017N(A)	MOTA		DIP	183- 71
4♦	40-17B	CMOS	MM4617AD	NSC		DIP	182-106
5♦	40-17B	CMOS	MM4617AF	NSC	*	FP	182-107
6♦	40-17B	CMOS	MM54HC4017J	NSC		DIP	183- 32
7♦	40-17B	CMOS	MM5617AN	NSC		DIP	182-108
8♦	40-17B	CMOS	MM74HC4017J	NSC		DIP	183- 45
9♦	40-17B	CMOS	MM74HC4017N	NSC		DIP	183- 46
10♦	40-17B	CMOS	MN4017B	MATJ		DIP	183- 64
11♦	40-17B	CMOS	MSM4017	OKIJ		DIP	183- 14
12♦	40-17B	CMOS	MSM4017RS	OKIJ		DIP	182-105
13♦	40-17B	CMOS	M4017BP	MITJ		DIP	182-109
14♦	40-17B	CMOS	SCL4017B	SSS		DIP	183- 40
15♦	40-17B	CMOS	SFF24017AEV	THEF		DIP	183- 15
16♦	40-17B	CMOS	SFF24017AKM	THEF		DIP	183- 16
17♦	40-17B	CMOS	SN74HC4017N(A)	TII		DIP	183- 72
18♦	40-17B	CMOS	TC4017BP	IMTM		DIP	182-110
19♦	40-17B	CMOS	TC4017BP	TOSJ		DIP	182-110
20▼	40-17B	CMOS	TC74HC4017F(A)	TOSA	*	SO	183- 77
21▼	40-17B	CMOS	TC74HC4017P(A)	TOSA		DIP	183- 78
22♦	40-17B	CMOS	4017BDC	FSC		DIP	183- 21
23♦	40-17B	CMOS	4017BDM	FSC		DIP	183- 22
24♦	40-17B	CMOS	4017BFC	FSC	*	FP	183- 23
25♦	40-17B	CMOS	4017BFM	FSC	*	FP	183- 24
26♦	40-17B	CMOS	4017BPC	FSC			183- 25
27♦	40-18B	CMOS	BCL4018B	SSS		DIP	185- 92
28♦	40-18B	CMOS	CD4018AD	RCA		DIP	185- 76
29♦	40-18B	CMOS	CD4018AE	BELI		DIP	185- 77
30♦	40-18B	CMOS	CD4018AE	RCA		DIP	185- 77
31♦	40-18B	CMOS	CD4018AF	BELI		DIP	185- 78
32♦	40-18B	CMOS	CD4018AF	RCA		DIP	185- 78
33♦	40-18B	CMOS	CD4018BCJ	NSC		DIP	185- 79
34♦	40-18B	CMOS	CD4018BCN	NSC		DIP	185- 80
35♦	40-18B	CMOS	CD4018BD	RCA		DIP	185- 93
36♦	40-18B	CMOS	CD4018BE	RCA		DIP	185- 94
37♦	40-18B	CMOS	CD4018BF	RCA		DIP	185- 95
38♦	40-18B	CMOS	CD4018BMJ	NSC		DIP	185- 81
39♦	40-18B	CMOS	CD4018BMW	NSC	*	FP	185- 82
40♦	40-18B	CMOS	CM4018AD	SOD		DIP	185- 83
41♦	40-18B	CMOS	CM4018AE	SOD		DIP	185- 84
42♦	40-18B	CMOS	HBC4018AD	SGSI		DIP	185- 85
43♦	40-18B	CMOS	HBC4018AF	SGSI		DIP	185- 86
44♦	40-18B	CMOS	HBC4018AK	SGSI	*	FP	185- 87
45♦	40-18B	CMOS	HBF4018AE	SGSI		DIP	185- 88
46♦	40-18B	CMOS	HBF4018AF	SGSI		DIP	185- 89
47♦	40-18B	CMOS	HCC4018BD	SGSI		DIP	185-103
48♦	40-18B	CMOS	HCC4018BF	SGSI		DIP	185-104
49♦	40-18B	CMOS	HCC4018BK	SGSI	*	QSM	185-105
50♦	40-18B	CMOS	HCF4018BE	SGSI		DIP	185-106
51♦	40-18B	CMOS	HCF4018BF	SGSI		DIP	185-107
52♦	40-18B	CMOS	HEF4018	RTCF		DIP	185- 96
53♦	40-18B	CMOS	HEF4018BD	MULB		DIP	185- 99
54♦	40-18B	CMOS	HEF4018BD	PHIN		DIP	185- 99
55♦	40-18B	CMOS	HEF4018BD	RTCF		DIP	185- 99
56♦	40-18B	CMOS	HEF4018BD	VALG		DIP	185- 99
57♦	40-18B	CMOS	HEF4018BP	MULB		DIP	185-100
58♦	40-18B	CMOS	HEF4018BP	PHIN		DIP	185-100
59♦	40-18B	CMOS	HEF4018BP	RTCF		DIP	185-100
60♦	40-18B	CMOS	HEF4018BP	VALG		DIP	185-100
61♦	40-18B	CMOS	HEF4018BPN	SIC		DIP	185- 97
62♦	40-18B	CMOS	HEF4018BT	MULB	*	SO	185-101
63♦	40-18B	CMOS	HEF4018BT	PHIN	*	SO	185-101
64♦	40-18B	CMOS	HEF4018BT	RTCF	*	SO	185-101
65♦	40-18B	CMOS	HEF4018BT	VALG	*	SO	185-101
66♦	40-18B	CMOS	HEF4018BTD	SIC	*	SO	185-102
67♦	40-18B	CMOS	HEF4018P	MULB		DIP	185- 98
68♦	40-18B	CMOS	HEF4018P	PHIN		DIP	185- 98
69♦	40-18B	CMOS	HEF4018P	VALG		DIP	185- 98
70♦	40-18B	CMOS	MC14018BAL	MOTA		DIP	185- 58
71▼	40-18B	CMOS	MC14018BALD	MOTA		DIP	185- 59
72▼	40-18B	CMOS	MC14018BALDS	MOTA		DIP	185- 60
73▼	40-18B	CMOS	MC14018BALS	MOTA		DIP	185- 61
74♦	40-18B	CMOS	MC14018BCL	MOTA		DIP	185- 62
75▼	40-18B	CMOS	MC14018BCLD	MOTA		DIP	185- 63
76▼	40-18B	CMOS	MC14018BCLDS	MOTA		DIP	185- 64
77▼	40-18B	CMOS	MC14018BCLS	MOTA		DIP	185- 65
78♦	40-18B	CMOS	MC14018BCP	MOTA		DIP	185- 66
79▼	40-18B	CMOS	MC14018BCPD	MOTA		DIP	185- 67
80▼	40-18B	CMOS	MC14018BCPDS	MOTA		DIP	185- 68
81▼	40-18B	CMOS	MC14018BCPS	MOTA		DIP	185- 69
82▼	40-18B	CMOS	MC14018BD	MOTA		DIP	185- 70
83♦	40-18B	CMOS	M4018BP	MITJ		DIP	185- 56
84♦	40-18B	CMOS	SCL4018B	SSS		DIP	185- 90
85♦	40-18B	CMOS	SFF24018AEV	THEF		DIP	186- 9
86♦	40-18B	CMOS	SFF24018AKM	THEF		DIP	186- 10
87♦	40-18B	CMOS	TC4018BP	IMTM		DIP	185- 57
88♦	40-18B	CMOS	TC4018BP	TOSJ		DIP	185- 57
89♦	40-18B	CMOS	4018BDC	FSC		DIP	185- 71
90♦	40-18B	CMOS	4018BDM	FSC		DIP	185- 72
91♦	40-18B	CMOS	4018BFC	FSC	*	FP	185- 73
92♦	40-18B	CMOS	4018BFM	FSC	*	FP	185- 74
93♦	40-18B	CMOS	4018BPC	FSC			185- 75
94♦	40-18B	CMOS	883C4018B	SSS		DIP	185- 91
95♦	40-19	CMOS	CD4019AD(2)	RCA		DIP	84- 73
96♦	40-19	CMOS	CD4019AE(2)	RCA		DIP	84- 79
97♦	40-19	CMOS	CD4019AF(2)	RCA	*	FP	84- 74
98♦	40-19B	CMOS	BCL4019B	SSS		DIP	84- 86
99♦	40-19B	CMOS	CD4019BC	NSC			84- 66
100♦	40-19B	CMOS	CD4019BD(2)	RCA		DIP	84- 76
101♦	40-19B	CMOS	CD4019BE(2)	RCA		DIP	84- 77
102♦	40-19B	CMOS	CD4019BF(2)	RCA		DIP	84- 78
103♦	40-19B	CMOS	CD4019BM	NSC			84- 64
104♦	40-19B	CMOS	CM4019AD	SOD		DIP	84- 75
105♦	40-19B	CMOS	CM4019AE	SOD		DIP	84- 80
106♦	40-19B	CMOS	HCC4019BD	SGSI		DIP	84- 67
107♦	40-19B	CMOS	HCC4019BF	SGSI			84- 68
108♦	40-19B	CMOS	HCC4019BK	SGSI	*	QSM	84- 69
109♦	40-19B	CMOS	HCF4019BE	SGSI		DIP	84- 70
110♦	40-19B	CMOS	HCF4019BF	SGSI			84- 71
111♦	40-19B	CMOS	LC4019B	TSAJ		DIP	84- 72
112♦	40-19B	CMOS	MB84019B	FCAJ		DIP	84- 87
113♦	40-19B	CMOS	MB84019BM	FCAJ		DIP	84- 88
114♦	40-19B	CMOS	MM4619AD	NSC		DIP	85- 25
115♦	40-19B	CMOS	MM4619AF	NSC		DIP	85- 26
116♦	40-19B	CMOS	MM5619AN	NSC		DIP	85- 27
117♦	40-19B	CMOS	MSM4019	OKIJ		DIP	84- 81
118♦	40-19B	CMOS	MSM4019RS	OKIJ		DIP	84- 84
119♦	40-19B	CMOS	M4019BP(2)	MITJ		DIP	84- 83
120♦	40-19B	CMOS	SCL4019B	SSS		DIP	84- 82
121♦	40-19B	CMOS	883C4019B	SSS		DIP	84- 85
122♦	40-20	CMOS	CD74HCT4020M(A)	RCA	*	SO	171- 64
123♦	40-20	CMOS	CD74HC4020M(A)	RCA	*	SO	171- 89
124♦	40-20	CMOS	M54HC4020F1(A)	SGSI		DIP	172- 6
125♦	40-20	CMOS	M74HC4020B1(A)	SGSI		DIP	171- 97
126♦	40-20	CMOS	M74HC4020F1(A)	SGSI		DIP	171- 99
127♦	40-20	CMOS	PC54HCT4020D(A)	MULB		DIP	171-108
128♦	40-20	CMOS	PC54HCT4020D(A)	PHIN		DIP	171-108
129♦	40-20	CMOS	PC54HCT4020D(A)	RTCF		DIP	171-108
130♦	40-20	CMOS	PC54HCT4020D(A)	VALG		DIP	171-108
131♦	40-20	CMOS	PC54HC4020D(A)	MULB		DIP	172- 7
132♦	40-20	CMOS	PC54HC4020D(A)	PHIN		DIP	172- 7
133♦	40-20	CMOS	PC54HC4020D(A)	RTCF		DIP	172- 7
134♦	40-20	CMOS	PC54HC4020D(A)	VALG		DIP	172- 7
135♦	40-20	CMOS	PC74HCT4020D(A)	MULB		DIP	171-109
136♦	40-20	CMOS	PC74HCT4020D(A)	PHIN		DIP	171-109
137♦	40-20	CMOS	PC74HCT4020D(A)	RTCF		DIP	171-109
138♦	40-20	CMOS	PC74HCT4020D(A)	VALG		DIP	171-109
139♦	40-20	CMOS	PC74HCT4020T	MULB	*	SO	171-110
140♦	40-20	CMOS	PC74HCT4020T	PHIN	*	SO	171-110
141♦	40-20	CMOS	PC74HCT4020T	RTCF	*	SO	171-110
142♦	40-20	CMOS	PC74HCT4020T	VALG	*	SO	171-110
143♦	40-20	CMOS	PC74HC4020D(A)	MULB		DIP	172- 8
144♦	40-20	CMOS	PC74HC4020D(A)	PHIN		DIP	172- 8
145♦	40-20	CMOS	PC74HC4020D(A)	RTCF		DIP	172- 8
146♦	40-20	CMOS	PC74HC4020D(A)	VALG		DIP	172- 8
147♦	40-20	CMOS	PC74HC4020P	MULB		DIP	172- 9
148♦	40-20	CMOS	PC74HC4020P	PHIN		DIP	172- 9
149♦	40-20	CMOS	PC74HC4020P	RTCF		DIP	172- 9
150♦	40-20	CMOS	PC74HC4020P	VALG		DIP	172- 9
151♦	40-20	CMOS	PC74HC4020T	MULB	*	SO	172- 10
152♦	40-20	CMOS	PC74HC4020T	PHIN	*	SO	172- 10
153♦	40-20	CMOS	PC74HC4020T	RTCF	*	SO	172- 10
154♦	40-20	CMOS	PC74HC4020T	VALG	*	SO	172- 10
155♦	40-20	CMOS	74HCT4020D	SIC	*	SO	166- 46
156♦	40-20	CMOS	74HCT4020N	SIC		DIP	166- 47
157♦	40-20	CMOS	74HC4020D	SIC	*	SO	166- 73
158♦	40-20	CMOS	74HC4020N	SIC		DIP	166- 74
159♦	40-20B		CM4020AD	SOD		DIP	171- 16
160♦	40-20B		CM4020AE	SOD		DIP	171- 17
161♦	40-20B	CMOS	BCL4020B	SSS		DIP	171- 25
162♦	40-20B	CMOS	CD4020AD	RCA		DIP	171- 5
163♦	40-20B	CMOS	CD4020AE	RCA		DIP	171- 6
164♦	40-20B	CMOS	CD4020AF	RCA		DIP	171- 7
165♦	40-20B	CMOS	CD4020BCJ	NSC		DIP	170-100
166♦	40-20B	CMOS	CD4020BCN	NSC		DIP	170-101
167♦	40-20B	CMOS	CD4020BD	RCA		DIP	171- 13
168♦	40-20B	CMOS	CD4020BE	RCA		DIP	171- 14
169♦	40-20B	CMOS	CD4020BF	RCA		DIP	171- 15
170♦	40-20B	CMOS	CD4020BMJ	NSC		DIP	170-102
171♦	40-20B	CMOS	CD4020BMW	NSC	*	FP	170-103
172♦	40-20B	CMOS	CD54HCT4020F	RCA		DIP	171- 45
173♦	40-20B	CMOS	CD54HC4020F	RCA		DIP	171- 60
174♦	40-20B	CMOS	CD74HCT4020E	RCA		DIP	171- 63
175♦	40-20B	CMOS	CD74HC4020E	RCA		DIP	171- 88
176♦	40-20B	CMOS	HBC4020AD	SGSI		DIP	171- 8
177♦	40-20B	CMOS	HBC4020AF	SGSI		DIP	171- 9
178♦	40-20B	CMOS	HBC4020AK	SGSI	*	FP	171- 10
179♦	40-20B	CMOS	HBF4020AE	SGSI		DIP	171- 11
180♦	40-20B	CMOS	HBF4020AF	SGSI		DIP	171- 12
181♦	40-20B	CMOS	HCC4020BD	SGSI		DIP	171- 76
182♦	40-20B	CMOS	HCC4020BF	SGSI	*	QSM	171- 77
183♦	40-20B	CMOS	HCC4020BK	SGSI	*	QSM	171- 78
184♦	40-20B	CMOS	HCF4020BE	SGSI		DIP	171- 82
185♦	40-20B	CMOS	HCF4020BF	SGSI		DIP	171- 83
186▼	40-20B	CMOS	HD74HC4020FP	HITJ	*	SO	171- 65
187▼	40-20B	CMOS	HD74HC4020P	HITJ		DIP	171- 66
188♦	40-20B	CMOS	HEF4020	RTCF		DIP	171- 54
189♦	40-20B	CMOS	HEF4020BD	MULB		DIP	171- 94
190♦	40-20B	CMOS	HEF4020BD	PHIN		DIP	171- 94
191♦	40-20B	CMOS	HEF4020BD	RTCF		DIP	171- 94
192♦	40-20B	CMOS	HEF4020BD	VALG		DIP	171- 94
193♦	40-20B	CMOS	HEF4020BP	MULB		DIP	171- 95
194♦	40-20B	CMOS	HEF4020BP	PHIN		DIP	171- 95
195♦	40-20B	CMOS	HEF4020BP	RTCF		DIP	171- 95
196♦	40-20B	CMOS	HEF4020BP	VALG		DIP	171- 95
197♦	40-20B	CMOS	HEF4020BPN	SIC		DIP	171- 55
198♦	40-20B	CMOS	HEF4020BT	MULB	*	SO	171- 96
199♦	40-20B	CMOS	HEF4020BT	PHIN	*	SO	171- 96
200♦	40-20B	CMOS	HEF4020BT	RTCF	*	SO	171- 96
201♦	40-20B	CMOS	HEF4020BT	VALG	*	SO	171- 96
202♦	40-20B	CMOS	HEF4020BTD	SIC	*	SO	171-106
203♦	40-20B	CMOS	HEF4020P	MULB		DIP	171- 44
204♦	40-20B	CMOS	HEF4020P	PHIN		DIP	171- 44
205♦	40-20B	CMOS	HEF4020P	VALG		DIP	171- 44
206♦	40-20B	CMOS	LC4020B	TSAJ		DIP	171- 4
207♦	40-20B	CMOS	MB84020B	FCAJ		DIP	171- 20
208♦	40-20B	CMOS	MB84020BM	FCAJ		DIP	171- 21
209♦	40-20B	CMOS	MC14020BAL	MOTA		DIP	164- 59
210▼	40-20B	CMOS	MC14020BALD	MOTA		DIP	171- 27
211▼	40-20B	CMOS	MC14020BALDS	MOTA		DIP	171- 28
212▼	40-20B	CMOS	MC14020BALS	MOTA		DIP	171- 29
213♦	40-20B	CMOS	MC14020BCL	MOTA		DIP	171- 30
214▼	40-20B	CMOS	MC14020BCLD	MOTA		DIP	171- 31
215▼	40-20B	CMOS	MC14020BCLDS	MOTA		DIP	171- 32
216▼	40-20B	CMOS	MC14020BCLS	MOTA		DIP	171- 33
217♦	40-20B	CMOS	MC14020BCP	MOTA		DIP	171- 34
218▼	40-20B	CMOS	MC14020BCPD	MOTA		DIP	171- 35
219▼	40-20B	CMOS	MC14020BCPDS	MOTA		DIP	171- 36
220▼	40-20B	CMOS	MC14020BCPS	MOTA		DIP	171- 37

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG SMD	PKG TYPE	PAGE & LINE
1▼	40-20B	CMOS	MC14020BD	MOTA		DIP	171- 38
2♦	40-20B	CMOS	MC54HC4020J(A)	MOTA		DIP	171-103
3♦	40-20B	CMOS	MC74HC4020J(A)	MOTA		DIP	171-104
4♦	40-20B	CMOS	MC74HC4020N(A)	MOTA		DIP	171-105
5♦	40-20B	CMOS	MM4620AD	NSC		DIP	170- 97
6♦	40-20B	CMOS	MM4620AF	NSC	*	FP	170- 98
7♦	40-20B	CMOS	MM54HC4020J	NSC		DIP	171- 52
8♦	40-20B	CMOS	MM5620AN	NSC		DIP	170- 99
9♦	40-20B	CMOS	MM74HC4020J	NSC		DIP	171- 56
10♦	40-20B	CMOS	MM74HC4020N	NSC		DIP	171- 57
11♦	40-20B	CMOS	MSM4020	OKIJ		DIP	171- 22
12♦	40-20B	CMOS	MSM4020RS	OKIJ		DIP	171- 1
13♦	40-20B	CMOS	M4020BP	MITJ		DIP	170- 90
14♦	40-20B	CMOS	M4024BP	MITJ		DIP	168- 17
15♦	40-20B	CMOS	SCL4020B	SSS		DIP	171- 18
16♦	40-20B	CMOS	SN74HC4020N	TII		DIP	170- 87
17♦	40-20B	CMOS	TC4020BP	IMTM		DIP	170- 91
18♦	40-20B	CMOS	TC4020BP	TOSJ		DIP	170- 91
19▼	40-20B	CMOS	TC74HC4020F(A)	TOSA	*	SO	172- 11
20▼	40-20B	CMOS	TC74HC4020P(A)	TOSA		DIP	172- 12
21♦	40-20B	CMOS	4020BDC	FSC		DIP	171- 39
22♦	40-20B	CMOS	4020BDM	FSC		DIP	171- 40
23♦	40-20B	CMOS	4020BFC	FSC	*	FP	171- 41
24♦	40-20B	CMOS	4020BFM	FSC	*	FP	171- 42
25♦	40-20B	CMOS	4020BPC	FSC			171- 43
26♦	40-20B	CMOS	883C4020B	SSS		DIP	171- 23
27♦	40-22	CMOS	M54HC4022F1(A)	SGSI		DIP	185- 25
28♦	40-22	CMOS	M74HC4022B1(A)	SGSI		DIP	185- 14
29♦	40-22	CMOS	M74HC4022F1(A)	SGSI		DIP	185- 15
30♦	40-22B	CMOS	BCL4022B	SSS		DIP	184- 99
31♦	40-22B	CMOS	CD4022AD	RCA		DIP	184- 85
32♦	40-22B	CMOS	CD4022AE	RCA		DIP	184- 86
33♦	40-22B	CMOS	CD4022AF	RCA		DIP	184- 87
34♦	40-22B	CMOS	CD4022BCJ	NSC		DIP	184- 79
35♦	40-22B	CMOS	CD4022BCN	NSC		DIP	184- 80
36♦	40-22B	CMOS	CD4022BD	RCA		DIP	184- 88
37♦	40-22B	CMOS	CD4022BE	RCA		DIP	184- 89
38♦	40-22B	CMOS	CD4022BF	RCA		DIP	184- 90
39♦	40-22B	CMOS	CD4022BMJ	NSC		DIP	184- 81
40♦	40-22B	CMOS	CD4022BMW	NSC	*	FP	184- 82
41♦	40-22B	CMOS	CM4022AD	SOD		DIP	184- 91
42♦	40-22B	CMOS	CM4022AE	SOD		DIP	184- 92
43♦	40-22B	CMOS	HBC4022AD	SGSI		DIP	184- 93
44♦	40-22B	CMOS	HBC4022AF	SGSI		DIP	184- 94
45♦	40-22B	CMOS	HBC4022AK	SGSI	*	FP	184- 95
46♦	40-22B	CMOS	HBF4022AE	SGSI		DIP	184- 96
47♦	40-22B	CMOS	HBF4022AF	SGSI		DIP	184- 97
48♦	40-22B	CMOS	HCC4022BD	SGSI		DIP	184-106
49♦	40-22B	CMOS	HCC4022BF	SGSI		DIP	184-107
50♦	40-22B	CMOS	HCC4022BK	SGSI	*	QSM	184-108
51♦	40-22B	CMOS	HCF4022BE	SGSI		DIP	184-109
52♦	40-22B	CMOS	HCF4022BF	SGSI		DIP	184-110
53▼	40-22B	CMOS	HD74HC4022FP	HITJ	*	SO	185- 23
54▼	40-22B	CMOS	HD74HC4022P	HITJ		DIP	185- 24
55♦	40-22B	CMOS	HEF4022	RTCF		DIP	184-104
56♦	40-22B	CMOS	HEF4022BD	MULB		DIP	185- 29
57♦	40-22B	CMOS	HEF4022BD	PHIN		DIP	185- 29
58♦	40-22B	CMOS	HEF4022BD	RTCF		DIP	185- 29
59♦	40-22B	CMOS	HEF4022BD	VALG		DIP	185- 29
60♦	40-22B	CMOS	HEF4022BP	MULB		DIP	185- 30
61♦	40-22B	CMOS	HEF4022BP	PHIN		DIP	185- 30
62♦	40-22B	CMOS	HEF4022BP	RTCF		DIP	185- 30
63♦	40-22B	CMOS	HEF4022BP	VALG		DIP	185- 30
64♦	40-22B	CMOS	HEF4022BPN	SIC		DIP	184-105
65♦	40-22B	CMOS	HEF4022BT	MULB	*	SO	185- 28
66♦	40-22B	CMOS	HEF4022BT	PHIN	*	SO	185- 28
67♦	40-22B	CMOS	HEF4022BT	RTCF	*	SO	185- 28
68♦	40-22B	CMOS	HEF4022BT	VALG	*	SO	185- 28
69♦	40-22B	CMOS	HEF4022BTD	SIC	*	SO	185- 22
70♦	40-22B	CMOS	HEF4022P	MULB		DIP	184-103
71♦	40-22B	CMOS	HEF4022P	PHIN		DIP	184-103
72♦	40-22B	CMOS	HEF4022P	VALG		DIP	184-103
73♦	40-22B	CMOS	MB84022B	FCAJ		DIP	184-101
74♦	40-22B	CMOS	MB84022BM	FCAJ		DIP	184-102
75♦	40-22B	CMOS	MC14022BAL	MOTA		DIP	185- 1
76▼	40-22B	CMOS	MC14022BALD	MOTA		DIP	185- 2
77▼	40-22B	CMOS	MC14022BALDS	MOTA		DIP	185- 3
78▼	40-22B	CMOS	MC14022BALS	MOTA		DIP	185- 4
79♦	40-22B	CMOS	MC14022BCL	MOTA		DIP	185- 5
80▼	40-22B	CMOS	MC14022BCLD	MOTA		DIP	185- 6
81▼	40-22B	CMOS	MC14022BCLDS	MOTA		DIP	185- 7
82▼	40-22B	CMOS	MC14022BCLS	MOTA		DIP	185- 8
83♦	40-22B	CMOS	MC14022BCP	MOTA		DIP	185- 9
84▼	40-22B	CMOS	MC14022BCPD	MOTA		DIP	185- 10
85▼	40-22B	CMOS	MC14022BCPDS	MOTA		DIP	185- 11
86▼	40-22B	CMOS	MC14022BCPS	MOTA		DIP	185- 12
87▼	40-22B	CMOS	MC14022BD	MOTA		DIP	185- 13
88♦	40-22B	CMOS	MM4622AD	NSC		DIP	184- 76
89♦	40-22B	CMOS	MM4622AF	NSC	*	FP	184- 77
90♦	40-22B	CMOS	MM5622AN	NSC		DIP	184- 78
91♦	40-22B	CMOS	MSM4022RS	OKIJ		DIP	184- 75
92♦	40-22B	CMOS	M4022BP	MITJ		DIP	184- 83
93♦	40-22B	CMOS	SCL4022B	SSS		DIP	184-100
94♦	40-22B	CMOS	TC4022BP	IMTM		DIP	184- 84
95♦	40-22B	CMOS	TC4022BP	TOSJ		DIP	184- 84
96▼	40-22B	CMOS	TC74HC4022F(A)	TOSA	*	SO	185- 26
97▼	40-22B	CMOS	TC74HC4022P(A)	TOSA		DIP	185- 27
98♦	40-22B	CMOS	4022BDC	FSC		DIP	185- 17
99♦	40-22B	CMOS	4022BDM	FSC		DIP	185- 18
100♦	40-22B	CMOS	4022BFC	FSC	*	FP	185- 19
101♦	40-22B	CMOS	4022BFM	FSC	*	FP	185- 20
102♦	40-22B	CMOS	4022BPC	FSC			185- 21
103♦	40-22B	CMOS	883C4022B	SSS		DIP	184- 98
104♦	40-23	CMOS	UPD4023BG	NECJ	*	SO	103-100
105♦	40-23	MOS	K176LA9	USSR			104- 27
106♦	40-23B	CMOS	BCL4023B	SSS		DIP	103- 92
107♦	40-23B	CMOS	CD4023AD	RCA		DIP	103- 29
108♦	40-23B	CMOS	CD4023AE	RCA		DIP	103- 62
109♦	40-23B	CMOS	CD4023AF	RCA		DIP	103- 30
110♦	40-23B	CMOS	CD4023BCJ	NSC		DIP	103- 84
111♦	40-23B	CMOS	CD4023BCN	NSC		DIP	103- 85
112♦	40-23B	CMOS	CD4023BD	RCA		DIP	104- 11
113♦	40-23B	CMOS	CD4023BE	RCA		DIP	104- 12
114♦	40-23B	CMOS	CD4023BF	RCA		DIP	104- 13
115♦	40-23B	CMOS	CD4023BMJ	NSC		DIP	103- 86
116♦	40-23B	CMOS	CD4023BMW	NSC	*	FP	103- 87
117♦	40-23B	CMOS	CD4023CJ	NSC		DIP	103- 63
118♦	40-23B	CMOS	CD4023CN	NSC		DIP	103- 64
119♦	40-23B	CMOS	CD4023MJ	NSC		DIP	103- 31
120♦	40-23B	CMOS	CD4023MW	NSC	*	FP	103- 32
121♦	40-23B	CMOS	CD4023UBD	RCA		DIP	103- 78
122♦	40-23B	CMOS	CD4023UBE	RCA		DIP	103- 79
123♦	40-23B	CMOS	CD4023UBF	RCA		DIP	103- 80
124♦	40-23B	CMOS	CM4023AD	SOD		DIP	103- 33
125♦	40-23B	CMOS	CM4023AE	SOD		DIP	103- 65
126♦	40-23B	CMOS	HBC4023AD	SGSI		DIP	103- 34
127♦	40-23B	CMOS	HBC4023AF	SGSI		DIP	103- 35
128♦	40-23B	CMOS	HBC4023AK	SGSI	*	FP	103- 36
129♦	40-23B	CMOS	HBF4023AE	SGSI		DIP	103- 66
130♦	40-23B	CMOS	HBF4023AF	SGSI		DIP	103- 67
131♦	40-23B	CMOS	HCC4023BD	SGSI		DIP	103- 93
132♦	40-23B	CMOS	HCC4023BF	SGSI		DIP	103- 94
133♦	40-23B	CMOS	HCC4023BK	SGSI	*	QSM	103- 95
134♦	40-23B	CMOS	HCF4023BE	SGSI		DIP	103- 96
135♦	40-23B	CMOS	HCF4023BF	SGSI		DIP	103- 97
136♦	40-23B	CMOS	HEF4023	RTCF		DIP	103- 53
137♦	40-23B	CMOS	HEF4023BD	MULB		DIP	103- 68
138♦	40-23B	CMOS	HEF4023BD	PHIN		DIP	103- 68
139♦	40-23B	CMOS	HEF4023BD	RTCF		DIP	103- 68
140♦	40-23B	CMOS	HEF4023BD	VALG		DIP	103- 68
141♦	40-23B	CMOS	HEF4023BP	MULB		DIP	103- 69
142♦	40-23B	CMOS	HEF4023BP	PHIN		DIP	103- 69
143♦	40-23B	CMOS	HEF4023BP	RTCF		DIP	103- 69
144♦	40-23B	CMOS	HEF4023BP	VALG		DIP	103- 69
145♦	40-23B	CMOS	HEF4023BT	MULB	*	SO	103- 70
146♦	40-23B	CMOS	HEF4023BT	PHIN	*	SO	103- 70
147♦	40-23B	CMOS	HEF4023BT	RTCF	*	SO	103- 70
148♦	40-23B	CMOS	HEF4023BT	VALG	*	SO	103- 70
149♦	40-23B	CMOS	HEF4023P	MULB		DIP	103- 82
150♦	40-23B	CMOS	HEF4023P	PHIN		DIP	103- 82
151♦	40-23B	CMOS	HEF4023P	VALG		DIP	103- 82
152♦	40-23B	CMOS	LC4023B	TSAJ		DIP	104- 20
153♦	40-23B	CMOS	MB84023B	FCAJ		DIP	103- 98
154♦	40-23B	CMOS	MB84023BM	FCAJ		DIP	103- 99
155♦	40-23B	CMOS	MC14023BAL	MOTA		DIP	103-106
156▼	40-23B	CMOS	MC14023BALD	MOTA		DIP	103-107
157▼	40-23B	CMOS	MC14023BALDS	MOTA		DIP	103-108
158▼	40-23B	CMOS	MC14023BALS	MOTA		DIP	103-109
159♦	40-23B	CMOS	MC14023BCL	MOTA		DIP	103-110
160▼	40-23B	CMOS	MC14023BCLD	MOTA		DIP	104- 1
161▼	40-23B	CMOS	MC14023BCLDS	MOTA		DIP	104- 2
162♦	40-23B	CMOS	MC14023BCP	MOTA		DIP	104- 3
163▼	40-23B	CMOS	MC14023BCPD	MOTA		DIP	104- 4
164▼	40-23B	CMOS	MC14023BCPDS	MOTA		DIP	104- 5
165▼	40-23B	CMOS	MC14023BCPS	MOTA		DIP	104- 6
166▼	40-23B	CMOS	MC14023BD	MOTA		DIP	104- 7
167♦	40-23B	CMOS	MC14023UBAL	MOTA		DIP	103- 37
168▼	40-23B	CMOS	MC14023UBALD	MOTA		DIP	103- 38
169▼	40-23B	CMOS	MC14023UBALDS	MOTA		DIP	103- 39
170▼	40-23B	CMOS	MC14023UBALS	MOTA		DIP	103- 40
171♦	40-23B	CMOS	MC14023UBCL	MOTA		DIP	103- 41
172▼	40-23B	CMOS	MC14023UBCLD	MOTA		DIP	103- 42
173▼	40-23B	CMOS	MC14023UBCLDS	MOTA		DIP	103- 43
174▼	40-23B	CMOS	MC14023UBCLS	MOTA		DIP	103- 44
175♦	40-23B	CMOS	MC14023UBCP	MOTA		DIP	103- 45
176▼	40-23B	CMOS	MC14023UBCPD	MOTA		DIP	103- 46
177▼	40-23B	CMOS	MC14023UBCPDS	MOTA		DIP	103- 47
178▼	40-23B	CMOS	MC14023UBCPS	MOTA		DIP	103- 48
179▼	40-23B	CMOS	MC14023UBD	MOTA		DIP	103- 49
180♦	40-23B	CMOS	MM4623AD	NSC		DIP	103- 71
181♦	40-23B	CMOS	MM4623AF	NSC	*	FP	103- 72
182♦	40-23B	CMOS	MM5623AN	NSC		DIP	103- 73
183♦	40-23B	CMOS	MN4023B	MATJ		DIP	103- 88
184♦	40-23B	CMOS	MSM4023	OKIJ		DIP	104- 17
185♦	40-23B	CMOS	MSM4023RS	OKIJ		DIP	104- 28
186♦	40-23B	CMOS	M4023BP	MITJ		DIP	104- 21
187♦	40-23B	CMOS	SCL4023B	SSS		DIP	104- 16
188♦	40-23B	CMOS	SFF24023AEV	THEF		DIP	103- 50
189♦	40-23B	CMOS	SFF24023AKM	THEF		DIP	103- 51
190♦	40-23B	CMOS	TC4023BP	IMTM		DIP	104- 22
191♦	40-23B	CMOS	TC4023BP	TOSJ		DIP	104- 22
192♦	40-23B	CMOS	4023A	MULB		DIP	104- 8
193♦	40-23B	CMOS	4023A	PHIN		DIP	104- 8
194♦	40-23B	CMOS	4023A	SIC		DIP	104- 8
195♦	40-23B	CMOS	4023BDC	FSC		DIP	103- 56
196♦	40-23B	CMOS	4023BDM	FSC		DIP	103- 57
197♦	40-23B	CMOS	4023BFC	FSC	*	FP	103- 58
198♦	40-23B	CMOS	4023BFM	FSC	*	FP	103- 59
199♦	40-23B	CMOS	4023BPC	FSC		DIP	103- 60
200♦	40-23B	CMOS	883C4023B	SSS		DIP	103- 91
201♦	40-24	CMOS	CD54HCT4024F	RCA		DIP	168- 61
202♦	40-24	CMOS	CD54HC4024F	RCA		DIP	168- 69
203♦	40-24	CMOS	CD74HCT4024E	RCA		DIP	168- 70
204♦	40-24	CMOS	CD74HCT4024M	RCA	*	SO	168- 71
205♦	40-24	CMOS	CD74HC4024E	RCA		DIP	168- 79
206♦	40-24	CMOS	CD74HC4024M	RCA	*	SO	168- 80
207♦	40-24	CMOS	M54HC4024F1(A)	SGSI		DIP	168- 96
208♦	40-24	CMOS	M74HC4024B1(A)	SGSI		DIP	168- 86
209♦	40-24	CMOS	M74HC4024F1(A)	SGSI		DIP	168- 87
210♦	40-24	CMOS	PC54HCT4024D(A)	PHIN		DIP	168- 94
211♦	40-24	CMOS	PC54HCT4024D(A)	RTCF		DIP	168- 94
212♦	40-24	CMOS	PC54HCT4024D(A)	VALG		DIP	168- 94
213♦	40-24	CMOS	PC54HC4024D(A)	MULB		DIP	168- 97
214♦	40-24	CMOS	PC54HC4024D(A)	PHIN		DIP	168- 97
215♦	40-24	CMOS	PC54HC4024D(A)	RTCF		DIP	168- 97
216♦	40-24	CMOS	PC54HC4024D(A)	VALG		DIP	168- 97
217♦	40-24	CMOS	PC74HCT4024D(A)	MULB		DIP	168- 95
218♦	40-24	CMOS	PC74HCT4024D(A)	PHIN		DIP	168- 95
219♦	40-24	CMOS	PC74HCT4024D(A)	RTCF		DIP	168- 95
220♦	40-24	CMOS	PC74HCT4024D(A)	VALG		DIP	168- 95

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	40-24	CMOS	PC74HCT4024P	MULB		DIP	168- 75
2♦	40-24	CMOS	PC74HCT4024P	PHIN		DIP	168- 75
3♦	40-24	CMOS	PC74HCT4024P	RTCF		DIP	168- 75
4♦	40-24	CMOS	PC74HCT4024P	VALG		DIP	168- 75
5♦	40-24	CMOS	PC74HCT4024T	MULB	*	SO	168- 76
6♦	40-24	CMOS	PC74HCT4024T	PHIN	*	SO	168- 76
7♦	40-24	CMOS	PC74HCT4024T	RTCF	*	SO	168- 76
8♦	40-24	CMOS	PC74HCT4024T	VALG	*	SO	168- 76
9♦	40-24	CMOS	PC74HC4024D(A)	MULB		DIP	168- 98
10♦	40-24	CMOS	PC74HC4024D(A)	PHIN		DIP	168- 98
11♦	40-24	CMOS	PC74HC4024D(A)	RTCF		DIP	168- 98
12♦	40-24	CMOS	PC74HC4024D(A)	VALG		DIP	168- 98
13♦	40-24	CMOS	PC74HC4024P	MULB		DIP	168- 73
14♦	40-24	CMOS	PC74HC4024P	PHIN		DIP	168- 73
15♦	40-24	CMOS	PC74HC4024P	RTCF		DIP	168- 73
16♦	40-24	CMOS	PC74HC4024P	VALG		DIP	168- 73
17♦	40-24	CMOS	PC74HC4024T	MULB	*	SO	168- 74
18♦	40-24	CMOS	PC74HC4024T	PHIN	*	SO	168- 74
19♦	40-24	CMOS	PC74HC4024T	RTCF	*	SO	168- 74
20♦	40-24	CMOS	PC74HC4024T	VALG	*	SO	168- 74
21▼	40-24	CMOS	SN74HC4024D	TII	*	SO	166- 79
22▼	40-24	CMOS	SN74HC4024N	TII		DIP	166- 80
23♦	40-24	CMOS	74HCT4024D	SIC	*	SO	166- 66
24♦	40-24	CMOS	74HCT4024N	SIC		DIP	166- 67
25♦	40-24	CMOS	74HC4024D	SIC	*	SO	166- 75
26♦	40-24	CMOS	74HC4024N	SIC		DIP	166- 76
27♦	40-24B		CM4024AD	SOD		DIP	168- 41
28♦	40-24B		CM4024AE	SOD		DIP	168- 42
29♦	40-24B	CMOS	BCL4024B	SSS		DIP	168- 44
30♦	40-24B	CMOS	CD4024AD	RCA		DIP	168- 27
31♦	40-24B	CMOS	CD4024AE	RCA		DIP	168- 28
32♦	40-24B	CMOS	CD4024AF	RCA		DIP	168- 29
33♦	40-24B	CMOS	CD4024BCJ	NSC		DIP	168- 20
34♦	40-24B	CMOS	CD4024BCN	NSC		DIP	168- 21
35♦	40-24B	CMOS	CD4024BD	RCA		DIP	168- 37
36♦	40-24B	CMOS	CD4024BE	RCA		DIP	168- 38
37♦	40-24B	CMOS	CD4024BF	RCA		DIP	168- 39
38♦	40-24B	CMOS	CD4024BMJ	NSC		DIP	168- 22
39♦	40-24B	CMOS	CD4024BMW	NSC	*	FP	168- 23
40♦	40-24B	CMOS	HBC4024AD	SGSI		DIP	168- 30
41♦	40-24B	CMOS	HBC4024AF	SGSI		DIP	168- 31
42♦	40-24B	CMOS	HBC4024AK	SGSI	*	FP	168- 32
43♦	40-24B	CMOS	HBF4024AE	SGSI		DIP	168- 33
44♦	40-24B	CMOS	HBF4024AF	SGSI		DIP	168- 34
45♦	40-24B	CMOS	HCC4024BD	SGSI		DIP	168- 81
46♦	40-24B	CMOS	HCC4024BF	SGSI		DIP	168- 82
47♦	40-24B	CMOS	HCC4024BK	SGSI	*	QSM	168- 83
48♦	40-24B	CMOS	HCF4024BE	SGSI		DIP	168- 84
49♦	40-24B	CMOS	HCF4024BF	SGSI		DIP	168- 85
50▼	40-24B	CMOS	HD74HC4024FP	HITJ	*	SO	166- 54
51▼	40-24B	CMOS	HD74HC4024P	HITJ		DIP	166- 55
52♦	40-24B	CMOS	HEF4024	RTCF		DIP	168- 67
53♦	40-24B	CMOS	HEF4024BD	MULB		DIP	168- 59
54♦	40-24B	CMOS	HEF4024BD	PHIN		DIP	168- 59
55♦	40-24B	CMOS	HEF4024BD	RTCF		DIP	168- 59
56♦	40-24B	CMOS	HEF4024BD	VALG		DIP	168- 59
57♦	40-24B	CMOS	HEF4024BP	MULB		DIP	168- 58
58♦	40-24B	CMOS	HEF4024BP	PHIN		DIP	168- 58
59♦	40-24B	CMOS	HEF4024BP	RTCF		DIP	168- 58
60♦	40-24B	CMOS	HEF4024BP	VALG		DIP	168- 58
61♦	40-24B	CMOS	HEF4024BPN	SIC		DIP	168- 68
62♦	40-24B	CMOS	HEF4024BT	MULB	*	SO	168- 60
63♦	40-24B	CMOS	HEF4024BT	PHIN	*	SO	168- 60
64♦	40-24B	CMOS	HEF4024BT	RTCF	*	SO	168- 60
65♦	40-24B	CMOS	HEF4024BT	VALG	*	SO	168- 60
66♦	40-24B	CMOS	HEF4024BTD	SIC	*	SO	168- 92
67♦	40-24B	CMOS	HEF4024P	MULB		DIP	168- 88
68♦	40-24B	CMOS	HEF4024P	PHIN		DIP	168- 88
69♦	40-24B	CMOS	HEF4024P	VALG		DIP	168- 88
70♦	40-24B	CMOS	MC14024BAL	MOTA		DIP	168- 45
71▼	40-24B	CMOS	MC14024BALD	MOTA		DIP	168- 46
72▼	40-24B	CMOS	MC14024BALDS	MOTA		DIP	168- 47
73▼	40-24B	CMOS	MC14024BALS	MOTA		DIP	168- 48
74♦	40-24B	CMOS	MC14024BCL	MOTA		DIP	168- 49
75▼	40-24B	CMOS	MC14024BCLD	MOTA		DIP	168- 50
76▼	40-24B	CMOS	MC14024BCLDS	MOTA		DIP	168- 51
77▼	40-24B	CMOS	MC14024BCLS	MOTA		DIP	168- 52
78♦	40-24B	CMOS	MC14024BCP	MOTA		DIP	168- 53
79▼	40-24B	CMOS	MC14024BCPD	MOTA		DIP	168- 54
80▼	40-24B	CMOS	MC14024BCPDS	MOTA		DIP	168- 55
81▼	40-24B	CMOS	MC14024BCPS	MOTA		DIP	168- 56
82▼	40-24B	CMOS	MC14024BD	MOTA		DIP	168- 57
83♦	40-24B	CMOS	MC54HC4024J(A)	MOTA		DIP	168- 89
84♦	40-24B	CMOS	MC74HC4024J(A)	MOTA		DIP	168- 90
85♦	40-24B	CMOS	MC74HC4024N(A)	MOTA		DIP	168- 91
86♦	40-24B	CMOS	MM4624AD	NSC		DIP	168- 24
87♦	40-24B	CMOS	MM4624AF	NSC	*	FP	168- 25
88♦	40-24B	CMOS	MM54HC4024J	NSC		DIP	168- 72
89♦	40-24B	CMOS	MM5624AN	NSC		DIP	168- 26
90♦	40-24B	CMOS	MM74HC4024J	NSC		DIP	168- 77
91♦	40-24B	CMOS	MM74HC4024N	NSC		DIP	168- 78
92♦	40-24B	CMOS	MN4024B	MATJ		DIP	168- 93
93♦	40-24B	CMOS	MSM4024RS	OKIJ		DIP	168- 19
94♦	40-24B	CMOS	SCL4024B	SSS		DIP	168- 40
95♦	40-24B	CMOS	SFF24024AKM	THEF		DIP	168- 36
96♦	40-24B	CMOS	TC4024BP	IMTM		DIP	168- 18
97♦	40-24B	CMOS	TC4024BP	TOSJ		DIP	168- 18
98▼	40-24B	CMOS	TC74HC4024F(A)	TOSA	*	SO	168- 99
99▼	40-24B	CMOS	TC74HC4024P(A)	TOSA		DIP	168-100
100♦	40-24B	CMOS	4024BDC	FSC		DIP	168- 62
101♦	40-24B	CMOS	4024BDM	FSC		DIP	168- 63
102♦	40-24B	CMOS	4024BFC	FSC	*	FP	168- 64
103♦	40-24B	CMOS	4024BFM	FSC	*	FP	168- 65
104♦	40-24B	CMOS	4024BPC	FSC		DIP	168- 66
105♦	40-24B	CMOS	883C4024B	SSS		DIP	168- 43
106♦	40-24B	MOS	SFF24024AEV	THEF		DIP	168- 35
107♦	40-25	CMOS	UPD4025BG	NECJ	*	SO	116-109
108♦	40-25	MOS	K176LE10	USSR			119- 42
109♦	40-25B	CMOS	BCL4025B	SSS		DIP	116-101
110♦	40-25B	CMOS	CD4025AD	RCA		DIP	116- 87
111♦	40-25B	CMOS	CD4025AF	RCA		DIP	116- 88
112♦	40-25B	CMOS	CD4025BCJ	NSC		DIP	116- 96
113♦	40-25B	CMOS	CD4025BCN	NSC		DIP	116- 97
114♦	40-25B	CMOS	CD4025BD	RCA		DIP	117- 13
115♦	40-25B	CMOS	CD4025BE	RCA		DIP	117- 14
116♦	40-25B	CMOS	CD4025BF	RCA		DIP	117- 15
117♦	40-25B	CMOS	CD4025BMJ	NSC		DIP	116- 98
118♦	40-25B	CMOS	CD4025BMW	NSC	*	FP	116- 99
119♦	40-25B	CMOS	CD4025CJ	NSC		DIP	116- 91
120♦	40-25B	CMOS	CD4025CN	NSC		DIP	116- 92
121♦	40-25B	CMOS	CD4025MJ	NSC		DIP	116- 69
122♦	40-25B	CMOS	CD4025MW	NSC	*	FP	116- 70
123♦	40-25B	CMOS	CM4025AD	SOD		DIP	116- 71
124♦	40-25B	CMOS	CM4025AE	SOD		DIP	116- 93
125♦	40-25B	CMOS	HBC4025AD	SGSI		DIP	116- 72
126♦	40-25B	CMOS	HBC4025AF	SGSI		DIP	116- 73
127♦	40-25B	CMOS	HBC4025AK	SGSI	*	FP	116- 74
128♦	40-25B	CMOS	HBF4025AE	SGSI		DIP	116- 94
129♦	40-25B	CMOS	HBF4025AF	SGSI		DIP	116- 95
130♦	40-25B	CMOS	HCC4025BD	SGSI		DIP	116-102
131♦	40-25B	CMOS	HCC4025BF	SGSI		DIP	116-103
132♦	40-25B	CMOS	HCC4025BK	SGSI	*	QSM	116-104
133♦	40-25B	CMOS	HCF4025BE	SGSI		DIP	116-105
134♦	40-25B	CMOS	HCF4025BF	SGSI		DIP	116-106
135♦	40-25B	CMOS	HEF4025	RTCF		DIP	116- 53
136♦	40-25B	CMOS	HEF4025BD	MULB		DIP	116- 82
137♦	40-25B	CMOS	HEF4025BD	PHIN		DIP	116- 82
138♦	40-25B	CMOS	HEF4025BD	RTCF		DIP	116- 82
139♦	40-25B	CMOS	HEF4025BD	VALG		DIP	116- 82
140♦	40-25B	CMOS	HEF4025BP	MULB		DIP	116- 83
141♦	40-25B	CMOS	HEF4025BP	PHIN		DIP	116- 83
142♦	40-25B	CMOS	HEF4025BP	RTCF		DIP	116- 83
143♦	40-25B	CMOS	HEF4025BP	VALG		DIP	116- 83
144♦	40-25B	CMOS	HEF4025BPN	SIC		DIP	116- 54
145♦	40-25B	CMOS	HEF4025BT	MULB	*	SO	116- 84
146♦	40-25B	CMOS	HEF4025BT	PHIN	*	SO	116- 84
147♦	40-25B	CMOS	HEF4025BT	RTCF	*	SO	116- 84
148♦	40-25B	CMOS	HEF4025BT	VALG	*	SO	116- 84
149♦	40-25B	CMOS	HEF4025BTD	SIC	*	SO	116- 55
150♦	40-25B	CMOS	HEF4025P	MULB		DIP	116- 89
151♦	40-25B	CMOS	HEF4025P	PHIN		DIP	116- 89
152♦	40-25B	CMOS	HEF4025P	VALG		DIP	116- 89
153♦	40-25B	CMOS	LC4025B	TSAJ		DIP	117- 19
154♦	40-25B	CMOS	MB84025B	FCAJ		DIP	116-107
155♦	40-25B	CMOS	MB84025BM	FCAJ		DIP	116-108
156♦	40-25B	CMOS	MC14025BAL	MOTA		DIP	116-110
157▼	40-25B	CMOS	MC14025BALD	MOTA		DIP	117- 1
158▼	40-25B	CMOS	MC14025BALDS	MOTA		DIP	117- 2
159▼	40-25B	CMOS	MC14025BALS	MOTA		DIP	117- 3
160♦	40-25B	CMOS	MC14025BCL	MOTA		DIP	117- 4
161▼	40-25B	CMOS	MC14025BCLD	MOTA		DIP	117- 5
162▼	40-25B	CMOS	MC14025BCLDS	MOTA		DIP	117- 6
163▼	40-25B	CMOS	MC14025BCLS	MOTA		DIP	117- 7
164♦	40-25B	CMOS	MC14025BCP	MOTA		DIP	117- 8
165▼	40-25B	CMOS	MC14025BCPD	MOTA		DIP	117- 9
166▼	40-25B	CMOS	MC14025BCPDS	MOTA		DIP	117- 10
167▼	40-25B	CMOS	MC14025BCPS	MOTA		DIP	117- 11
168▼	40-25B	CMOS	MC14025BD	MOTA		DIP	117- 12
169♦	40-25B	CMOS	MC14025UBAL	MOTA		DIP	116- 56
170▼	40-25B	CMOS	MC14025UBALD	MOTA		DIP	116- 57
171▼	40-25B	CMOS	MC14025UBALDS	MOTA		DIP	116- 58
172▼	40-25B	CMOS	MC14025UBALS	MOTA		DIP	116- 59
173♦	40-25B	CMOS	MC14025UBCL	MOTA		DIP	116- 60
174▼	40-25B	CMOS	MC14025UBCLD	MOTA		DIP	116- 61
175▼	40-25B	CMOS	MC14025UBCLDS	MOTA		DIP	116- 62
176▼	40-25B	CMOS	MC14025UBCLS	MOTA		DIP	116- 63
177♦	40-25B	CMOS	MC14025UBCP	MOTA		DIP	116- 64
178▼	40-25B	CMOS	MC14025UBCPD	MOTA		DIP	116- 65
179▼	40-25B	CMOS	MC14025UBCPDS	MOTA		DIP	116- 66
180▼	40-25B	CMOS	MC14025UBCPS	MOTA		DIP	116- 67
181▼	40-25B	CMOS	MC14025UBD	MOTA		DIP	116- 68
182♦	40-25B	CMOS	MM4625AD	NSC		DIP	116- 50
183♦	40-25B	CMOS	MM4625AF	NSC	*	FP	116- 51
184♦	40-25B	CMOS	MM5625AN	NSC		DIP	116- 52
185♦	40-25B	CMOS	MN4025B	MATJ		DIP	116- 90
186♦	40-25B	CMOS	MSM4025	OKIJ		DIP	117- 18
187♦	40-25B	CMOS	MSM4025RS	OKIJ		DIP	117- 21
188♦	40-25B	CMOS	M4025BP	MITJ		DIP	117- 22
189♦	40-25B	CMOS	SCL4025B	SSS		DIP	117- 16
190♦	40-25B	CMOS	SFF24025AEV	THEF		DIP	116- 86
191♦	40-25B	CMOS	SFF24025AKM	THEF		DIP	116- 76
192♦	40-25B	CMOS	TC4025BP	IMTM		DIP	117- 20
193♦	40-25B	CMOS	TC4025BP	TOSJ		DIP	117- 20
194♦	40-25B	CMOS	4025A	MULB		DIP	117- 17
195♦	40-25B	CMOS	4025A	PHIN		DIP	117- 17
196♦	40-25B	CMOS	4025BDC	FSC		DIP	116- 77
197♦	40-25B	CMOS	4025BDM	FSC		DIP	116- 78
198♦	40-25B	CMOS	4025BFC	FSC	*	FP	116- 79
199♦	40-25B	CMOS	4025BFM	FSC	*	FP	116- 80
200♦	40-25B	CMOS	4025BPC	FSC		DIP	116- 81
201♦	40-25B	CMOS	883C4025B	SSS		DIP	116-100
202♦	40-26B	CMOS	CD4026AD	RCA		DIP	183- 92
203♦	40-26B	CMOS	CD4026AE	RCA		DIP	183- 93
204♦	40-26B	CMOS	CD4026AF	RCA		DIP	183- 94
205♦	40-26B	CMOS	CD4026BD	RCA		DIP	184- 2
206♦	40-26B	CMOS	CD4026BE	RCA		DIP	184- 3
207♦	40-26B	CMOS	CD4026BF	RCA		DIP	184- 4
208♦	40-26B	CMOS	CM4026AD	SOD		DIP	183- 98
209♦	40-26B	CMOS	CM4026AE	SOD		DIP	183- 99
210♦	40-26B	CMOS	HBC4026AD	SGSI		DIP	183-102
211♦	40-26B	CMOS	HBC4026AF	SGSI		DIP	183-103
212♦	40-26B	CMOS	HBC4026AK	SGSI	*	FP	183-104
213♦	40-26B	CMOS	HBF4026AE	SGSI		DIP	183-108
214♦	40-26B	CMOS	HBF4026AF	SGSI		DIP	183-109
215♦	40-26B	CMOS	HCC4026BD	SGSI		DIP	184- 9
216♦	40-26B	CMOS	HCC4026BF	SGSI		DIP	184- 10
217♦	40-26B	CMOS	HCC4026BK	SGSI	*	QSM	184- 11
218♦	40-26B	CMOS	HCF4026BE	SGSI		DIP	184- 15
219♦	40-26B	CMOS	HCF4026BF	SGSI		DIP	184- 16
220♦	40-26B	CMOS	SCL4026AB	SSS		DIP	183- 90

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1	40-27	MOS	K176ID1	USSR			126-110
2	40-27B	CMOS	BCL4027B	SSS		DIP	67- 79
3	40-27B	CMOS	CD4027AD	RCA		DIP	67- 55
4	40-27B	CMOS	CD4027AE	RCA		DIP	67- 56
5	40-27B	CMOS	CD4027AF	RCA		DIP	67- 57
6♦	40-27B	CMOS	CD4027BCJ	NSC		DIP	67- 51
7♦	40-27B	CMOS	CD4027BCN	NSC		DIP	67- 52
8♦	40-27B	CMOS	CD4027BD	RCA		DIP	68- 23
9♦	40-27B	CMOS	CD4027BE	RCA		DIP	68- 24
10♦	40-27B	CMOS	CD4027BF	RCA		DIP	68- 25
11♦	40-27B	CMOS	CD4027BK	RCA	*	FP	68- 26
12♦	40-27B	CMOS	CD4027BMJ	NSC		DIP	67- 53
13	40-27B	CMOS	CD4027BMW	NSC	*	FP	67- 54
14♦	40-27B	CMOS	CM4027AD	SOD		DIP	67- 58
15♦	40-27B	CMOS	CM4027AE	SOD		DIP	67- 59
16	40-27B	CMOS	HBC4027AD	SGSI		DIP	67- 60
17	40-27B	CMOS	HBC4027AF	SGSI		DIP	67- 61
18	40-27B	CMOS	HBC4027AK	SGSI	*	FP	67- 62
19	40-27B	CMOS	HBF4027AE	SGSI		DIP	67- 63
20	40-27B	CMOS	HBF4027AF	SGSI		DIP	67- 64
21♦	40-27B	CMOS	HCC4027BD	SGSI		DIP	67- 65
22♦	40-27B	CMOS	HCC4027BF	SGSI		DIP	67- 66
23	40-27B	CMOS	HCC4027BK	SGSI	*	QSM	67- 67
24♦	40-27B	CMOS	HCF4027BE	SGSI		DIP	67- 68
25♦	40-27B	CMOS	HCF4027BF	SGSI		DIP	67- 69
26	40-27B	CMOS	HEF4027	RTCF		DIP	67- 92
27♦	40-27B	CMOS	HEF4027BD	MULB		DIP	68- 4
28♦	40-27B	CMOS	HEF4027BD	PHIN		DIP	68- 4
29♦	40-27B	CMOS	HEF4027BD	RTCF		DIP	68- 4
30♦	40-27B	CMOS	HEF4027BD	VALG		DIP	68- 4
31♦	40-27B	CMOS	HEF4027BP	MULB		DIP	68- 5
32♦	40-27B	CMOS	HEF4027BP	PHIN		DIP	68- 5
33♦	40-27B	CMOS	HEF4027BP	RTCF		DIP	68- 5
34♦	40-27B	CMOS	HEF4027BP	VALG		DIP	68- 5
35♦	40-27B	CMOS	HEF4027BPN	SIC		DIP	67- 93
36♦	40-27B	CMOS	HEF4027BT	PHIN	*	SO	68- 6
37	40-27B	CMOS	HEF4027BTD	SIC	*	SO	68-109
38♦	40-27B	CMOS	HEF4027P	MULB		DIP	68- 27
39♦	40-27B	CMOS	HEF4027P	PHIN		DIP	68- 27
40♦	40-27B	CMOS	HEF4027P	VALG		DIP	68- 27
41♦	40-27B	CMOS	LC4027B	TSAJ		DIP	66- 94
42♦	40-27B	CMOS	MB84027B	FCAJ		DIP	67- 82
43♦	40-27B	CMOS	MB84027BM	FCAJ		DIP	67- 83
44♦	40-27B	CMOS	MC14027BAL	MOTA		DIP	67- 94
45▼	40-27B	CMOS	MC14027BALD	MOTA		DIP	67- 95
46▼	40-27B	CMOS	MC14027BALDS	MOTA		DIP	67- 96
47▼	40-27B	CMOS	MC14027BALS	MOTA		DIP	67- 97
48♦	40-27B	CMOS	MC14027BCL	MOTA		DIP	67- 98
49▼	40-27B	CMOS	MC14027BCLD	MOTA		DIP	67- 99
50▼	40-27B	CMOS	MC14027BCLDS	MOTA		DIP	67-100
51▼	40-27B	CMOS	MC14027BCLS	MOTA		DIP	67-101
52♦	40-27B	CMOS	MC14027BCP	MOTA		DIP	67-102
53▼	40-27B	CMOS	MC14027BCPD	MOTA		DIP	67-103
54▼	40-27B	CMOS	MC14027BCPDS	MOTA		DIP	67-104
55▼	40-27B	CMOS	MC14027BCPS	MOTA		DIP	67-105
56▼	40-27B	CMOS	MC14027BD	MOTA		DIP	67-106
57♦	40-27B	CMOS	MM4627AD	NSC		DIP	67- 30
58	40-27B	CMOS	MM4627AF	NSC	*	FP	67- 31
59♦	40-27B	CMOS	MM5627AN	NSC		DIP	67- 32
60♦	40-27B	CMOS	MN4027B	MATJ		DIP	69- 2
61♦	40-27B	CMOS	MSM4027	OKIJ		DIP	67- 70
62♦	40-27B	CMOS	MSM4027RS	OKIJ		DIP	67- 45
63♦	40-27B	CMOS	M4027BP	MITJ		DIP	67- 35
64♦	40-27B	CMOS	SCL4027B	SSS		DIP	67- 50
65♦	40-27B	CMOS	SFF24027AEV	THEF		DIP	67- 71
66♦	40-27B	CMOS	SFF24027AKM	THEF		DIP	67- 72
67♦	40-27B	CMOS	TC4027BP	IMTM		DIP	67- 36
68♦	40-27B	CMOS	TC4027BP	TOSJ		DIP	67- 36
69	40-27B	CMOS	UPD4027BG	NECJ	*	SO	67-107
70♦	40-27B	CMOS	4027B	MULB		DIP	66- 67
71♦	40-27B	CMOS	4027B	PHIN		DIP	66- 67
72♦	40-27B	CMOS	4027BDC	FSC		DIP	67- 73
73♦	40-27B	CMOS	4027BDM	FSC		DIP	67- 74
74	40-27B	CMOS	4027BFC	FSC	*	FP	67- 75
75	40-27B	CMOS	4027BFM	FSC	*	FP	67- 76
76	40-27B	CMOS	4027BPC	FSC			67- 77
77	40-27B	CMOS	883C4027B	SSS		DIP	67- 78
78♦	40-28	CMOS	HD14028B	HITJ		DIP	126-100
79♦	40-28	CMOS	HEF4028BPN	SIC		DIP	126-105
80♦	40-28	CMOS	HEF4028BT	PHIN	*	SO	126-106
81♦	40-28	CMOS	HEF4028BTD	SIC	*	SO	126-107
82♦	40-28	CMOS	LC4028B	TSAJ		DIP	127- 1
83♦	40-28	CMOS	MB84028B	FCAJ		DIP	127- 18
84♦	40-28	CMOS	MB84028BM	FCAJ		DIP	127- 19
85♦	40-28	CMOS	MN4028B	MATJ		DIP	127- 36
86♦	40-28	CMOS	M4028BP(2)	MITJ		DIP	127- 12
87♦	40-28	CMOS	M54HC4028F1(A)	SGSI		DIP	127- 3
88♦	40-28	CMOS	M74HC4028B1(A)	SGSI		DIP	127- 8
89♦	40-28	CMOS	M74HC4028F1(A)	SGSI		DIP	127- 10
90	40-28B	CMOS	BCL4028B	SSS		DIP	126- 52
91▼	40-28B	CMOS	BU4028B	RHM		DIP	126- 53
92▼	40-28B	CMOS	BU4028BF	RHM	*	SO	126- 54
93	40-28B	CMOS	CD4028AD	RCA		DIP	126- 61
94	40-28B	CMOS	CD4028AE	RCA		DIP	126- 62
95	40-28B	CMOS	CD4028AF	RCA		DIP	126- 63
96♦	40-28B	CMOS	CD4028BCJ(2)	NSC		DIP	126- 64
97♦	40-28B	CMOS	CD4028BCN(2)	NSC		DIP	126- 65
98	40-28B	CMOS	CD4028BD	RCA		DIP	126- 66
99	40-28B	CMOS	CD4028BE	RCA		DIP	126- 67
100	40-28B	CMOS	CD4028BF	RCA		DIP	126- 68
101♦	40-28B	CMOS	CD4028BMJ(2)	NSC		DIP	126- 69
102	40-28B	CMOS	CD4028BMW(2)	NSC	*	FP	126- 70
103♦	40-28B	CMOS	CM4028AD	SOD		DIP	126- 71
104♦	40-28B	CMOS	CM4028AE	SOD		DIP	126- 72
105	40-28B	CMOS	HBC4028AD	SGSI		DIP	126- 86
106	40-28B	CMOS	HBC4028AF	SGSI		DIP	126- 87
107	40-28B	CMOS	HBC4028AK	SGSI	*	FP	126- 88
108	40-28B	CMOS	HBF4028AE	SGSI		DIP	126- 89
109	40-28B	CMOS	HBF4028AF	SGSI		DIP	126- 90
110♦	40-28B	CMOS	HCC4028BD	SGSI		DIP	126- 91
111♦	40-28B	CMOS	HCC4028BF	SGSI		DIP	126- 92
112	40-28B	CMOS	HCC4028BK	SGSI	*	QSM	126- 93
113♦	40-28B	CMOS	HCF4028BE	SGSI		DIP	126- 94
114♦	40-28B	CMOS	HCF4028BF	SGSI		DIP	126- 95
115	40-28B	CMOS	HEF4028	RTCF		DIP	126-101
116♦	40-28B	CMOS	HEF4028B	VALG		DIP	126-102
117♦	40-28B	CMOS	HEF4028BD	PHIN		DIP	126-103
118♦	40-28B	CMOS	HEF4028BP	PHIN		DIP	126-104
119♦	40-28B	CMOS	HEF4028P	MULB		DIP	126-108
120♦	40-28B	CMOS	HEF4028P	PHIN		DIP	126-108
121♦	40-28B	CMOS	HEF4028P	VALG		DIP	126-108
122♦	40-28B	CMOS	MC14028BCL	MOTA		DIP	127- 22
123▼	40-28B	CMOS	MC14028BCLD	MOTA		DIP	127- 23
124▼	40-28B	CMOS	MC14028BCLDS	MOTA		DIP	127- 24
125▼	40-28B	CMOS	MC14028BCLS	MOTA		DIP	127- 25
126♦	40-28B	CMOS	MC14028BCP	MOTA		DIP	127- 26
127▼	40-28B	CMOS	MC14028BCPD	MOTA		DIP	127- 27
128▼	40-28B	CMOS	MC14028BCPDS	MOTA		DIP	127- 28
129▼	40-28B	CMOS	MC14028BCPS	MOTA		DIP	127- 29
130▼	40-28B	CMOS	MC14028BD	MOTA		DIP	127- 30
131♦	40-28B	CMOS	MM54C42D	NSC		DIP	127- 31
132♦	40-28B	CMOS	MM74C42N(2)	NSC		DIP	127- 33
133♦	40-28B	CMOS	MSM4028	OKIJ		DIP	127- 38
134♦	40-28B	CMOS	SCL4028B	SSS		DIP	127- 70
135♦	40-28B	CMOS	TC4028BP	IMTM		DIP	127- 81
136♦	40-28B	CMOS	TC4028BP	TOSJ		DIP	127- 81
137	40-28B	CMOS	UPD4028BG	NECJ	*	SO	127- 83
138♦	40-28B	CMOS	4028BDC	FSC		DIP	126- 36
139♦	40-28B	CMOS	4028BDM	FSC		DIP	126- 37
140	40-28B	CMOS	4028BFC	FSC	*	FP	126- 38
141	40-28B	CMOS	4028BFM	FSC	*	FP	126- 39
142	40-28B	CMOS	4028BPC	FSC			126- 40
143	40-28B	CMOS	883C4028B	SSS		DIP	126- 34
144♦	40-29	CMOS	MN4029B	MATJ		DIP	163- 12
145♦	40-29B		CM4029AD	SOD		DIP	160- 12
146♦	40-29B		CM4029AE	SOD		DIP	160- 13
147♦	40-29B	CMOS	BCL4029B	SSS		DIP	160- 76
148♦	40-29B	CMOS	CD4029AD	RCA		DIP	160- 5
149♦	40-29B	CMOS	CD4029AE	RCA		DIP	160- 6
150♦	40-29B	CMOS	CD4029AF	RCA		DIP	160- 7
151♦	40-29B	CMOS	CD4029BCJ	NSC		DIP	159-106
152♦	40-29B	CMOS	CD4029BCN	NSC		DIP	159-107
153♦	40-29B	CMOS	CD4029BD	RCA		DIP	160- 39
154♦	40-29B	CMOS	CD4029BE	RCA		DIP	160- 40
155♦	40-29B	CMOS	CD4029BF	RCA		DIP	160- 41
156♦	40-29B	CMOS	CD4029BMJ	NSC		DIP	159-108
157♦	40-29B	CMOS	CD4029BMW	NSC	*	FP	159-109
158♦	40-29B	CMOS	HBC4029AD	SGSI		DIP	160- 14
159♦	40-29B	CMOS	HBC4029AF	SGSI		DIP	160- 15
160♦	40-29B	CMOS	HBC4029AK	SGSI	*	FP	160- 16
161♦	40-29B	CMOS	HBF4029AE	SGSI		DIP	160- 17
162♦	40-29B	CMOS	HBF4029AF	SGSI		DIP	160- 18
163♦	40-29B	CMOS	HCC4029BD	SGSI		DIP	160- 79
164♦	40-29B	CMOS	HCC4029BF	SGSI		DIP	160- 80
165♦	40-29B	CMOS	HCC4029BK	SGSI	*	QSM	160- 81
166♦	40-29B	CMOS	HCF4029BE	SGSI		DIP	160- 85
167♦	40-29B	CMOS	HCF4029BF	SGSI		DIP	160- 86
168♦	40-29B	CMOS	HEF4029	RTCF		DIP	161- 62
169♦	40-29B	CMOS	HEF4029B	VALG		DIP	160- 92
170♦	40-29B	CMOS	HEF4029BD	MULB		DIP	162- 15
171♦	40-29B	CMOS	HEF4029BD	PHIN		DIP	162- 15
172♦	40-29B	CMOS	HEF4029BD	RTCF		DIP	162- 15
173♦	40-29B	CMOS	HEF4029BD	VALG		DIP	162- 15
174♦	40-29B	CMOS	HEF4029BP	MULB		DIP	162- 16
175♦	40-29B	CMOS	HEF4029BP	PHIN		DIP	162- 16
176♦	40-29B	CMOS	HEF4029BP	RTCF		DIP	162- 16
177♦	40-29B	CMOS	HEF4029BP	VALG		DIP	162- 16
178♦	40-29B	CMOS	HEF4029BPN	SIC		DIP	161- 63
179♦	40-29B	CMOS	HEF4029BT	MULB	*	SO	162- 17
180♦	40-29B	CMOS	HEF4029BT	PHIN	*	SO	162- 17
181♦	40-29B	CMOS	HEF4029BT	RTCF	*	SO	162- 17
182♦	40-29B	CMOS	HEF4029BT	VALG	*	SO	162- 17
183♦	40-29B	CMOS	HEF4029BTD	SIC	*	SO	163- 11
184♦	40-29B	CMOS	HEF4029P	MULB		DIP	160- 93
185♦	40-29B	CMOS	HEF4029P	PHIN		DIP	160- 93
186♦	40-29B	CMOS	HEF4029P	VALG		DIP	160- 93
187♦	40-29B	CMOS	MB84029B	FCAJ		DIP	154- 52
188♦	40-29B	CMOS	MB84029BM	FCAJ		DIP	165-102
189♦	40-29B	CMOS	MC14029BAL	MOTA		DIP	160- 59
190▼	40-29B	CMOS	MC14029BALD	MOTA		DIP	160- 60
191▼	40-29B	CMOS	MC14029BALDS	MOTA		DIP	160- 61
192▼	40-29B	CMOS	MC14029BALS	MOTA		DIP	160- 62
193♦	40-29B	CMOS	MC14029BCL	MOTA		DIP	160- 63
194▼	40-29B	CMOS	MC14029BCLD	MOTA		DIP	160- 64
195▼	40-29B	CMOS	MC14029BCLDS	MOTA		DIP	160- 65
196▼	40-29B	CMOS	MC14029BCLS	MOTA		DIP	160- 66
197♦	40-29B	CMOS	MC14029BCP	MOTA		DIP	160- 67
198▼	40-29B	CMOS	MC14029BCPD	MOTA		DIP	160- 68
199▼	40-29B	CMOS	MC14029BCPDS	MOTA		DIP	160- 69
200▼	40-29B	CMOS	MC14029BCPS	MOTA		DIP	160- 70
201▼	40-29B	CMOS	MC14029BD	MOTA		DIP	160- 71
202♦	40-29B	CMOS	MSM4029RS	OKIJ		DIP	159- 92
203♦	40-29B	CMOS	M4029BP	MITJ		DIP	159- 94
204♦	40-29B	CMOS	SCL4029B	SSS		DIP	160- 33
205♦	40-29B	CMOS	SFF24029AEV	THEF		DIP	160- 20
206♦	40-29B	CMOS	SFF24029AKM	THEF		DIP	160- 21
207♦	40-29B	CMOS	TC4029BP	IMTM		DIP	159- 95
208♦	40-29B	CMOS	TC4029BP	TOSJ		DIP	159- 95
209♦	40-29B	CMOS	UPD4029BG	NECJ	*	SO	160- 72
210♦	40-29B	CMOS	4029BDC	FSC		DIP	160- 23
211♦	40-29B	CMOS	4029BDM	FSC		DIP	160- 24
212♦	40-29B	CMOS	4029BFC	FSC	*	FP	160- 25
213♦	40-29B	CMOS	4029BFM	FSC	*	FP	160- 26
214♦	40-29B	CMOS	4029BPC	FSC			160- 27
215♦	40-29B	CMOS	883C4029B	SSS		DIP	160- 73
216	40-32B	CMOS	CD4032AD	RCA		DIP	199- 10
217	40-32B	CMOS	CD4032AE	RCA		DIP	199- 22
218	40-32B	CMOS	CD4032AF	RCA		DIP	199- 11
219	40-32B	CMOS	CD4032BD	RCA		DIP	199- 4
220	40-32B	CMOS	CD4032BE	RCA		DIP	199- 5

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG S M D	PKG TYPE	PAGE & LINE
1	40-32B	CMOS	CD4032BF	RCA		DIP	199- 6
2♦	40-32B	CMOS	CM4032AD	SOD		DIP	199- 14
3♦	40-32B	CMOS	CM4032AE	SOD		DIP	199- 24
4♦	40-32B	CMOS	HBC4032AD	SGSI		DIP	199- 16
5♦	40-32B	CMOS	HBC4032AF	SGSI		DIP	199- 17
6	40-32B	CMOS	HBC4032AK	SGSI	*	QSM	199- 18
7♦	40-32B	CMOS	HBF4032AE	SGSI		DIP	199- 26
8♦	40-32B	CMOS	HBF4032AF	SGSI		DIP	199- 27
9♦	40-32B	CMOS	HCC4032BD	SGSI		DIP	199- 30
10♦	40-32B	CMOS	HCC4032BF	SGSI		DIP	199- 31
11	40-32B	CMOS	HCC4032BK	SGSI	*	QSM	199- 32
12♦	40-32B	CMOS	HCF4032BE	SGSI		DIP	199- 36
13♦	40-32B	CMOS	HCF4032BF	SGSI		DIP	199- 37
14♦	40-32B	CMOS	MC14032BAL	MOTA		DIP	198- 71
15▼	40-32B	CMOS	MC14032BALD	MOTA		DIP	198- 72
16▼	40-32B	CMOS	MC14032BALDS	MOTA		DIP	198- 73
17▼	40-32B	CMOS	MC14032BALS	MOTA		DIP	198- 74
18♦	40-32B	CMOS	MC14032BCL	MOTA		DIP	198- 79
19▼	40-32B	CMOS	MC14032BCLD	MOTA		DIP	198- 80
20▼	40-32B	CMOS	MC14032BCLDS	MOTA		DIP	198- 81
21▼	40-32B	CMOS	MC14032BCLS	MOTA		DIP	198- 82
22♦	40-32B	CMOS	MC14032BCP	MOTA		DIP	198- 83
23▼	40-32B	CMOS	MC14032BCPD	MOTA		DIP	198- 84
24▼	40-32B	CMOS	MC14032BCPDS	MOTA		DIP	198- 85
25▼	40-32B	CMOS	MC14032BCPS	MOTA		DIP	198- 86
26▼	40-32B	CMOS	MC14032BD	MOTA		DIP	198- 87
27♦	40-32B	CMOS	TC4032BP	IMTM		DIP	198- 97
28♦	40-32B	CMOS	TC4032BP	TOSJ		DIP	198- 97
29♦	40-33B	CMOS	CD4033AD	RCA		DIP	183- 95
30♦	40-33B	CMOS	CD4033AE	RCA		DIP	183- 96
31♦	40-33B	CMOS	CD4033AF	RCA		DIP	183- 97
32♦	40-33B	CMOS	CD4033BD	RCA		DIP	184- 5
33♦	40-33B	CMOS	CD4033BE	RCA		DIP	184- 6
34♦	40-33B	CMOS	CD4033BF	RCA		DIP	184- 7
35♦	40-33B	CMOS	CD4033BH	RCA		Chip	184- 8
36♦	40-33B	CMOS	CM4033AD	SOD		DIP	183-100
37♦	40-33B	CMOS	CM4033AE	SOD		DIP	183-101
38♦	40-33B	CMOS	HBC4033AD	SGSI		DIP	183-105
39♦	40-33B	CMOS	HBC4033AF	SGSI		DIP	183-106
40♦	40-33B	CMOS	HBC4033AK	SGSI	*	FP	183-107
41♦	40-33B	CMOS	HBF4033AE	SGSI		DIP	183-110
42♦	40-33B	CMOS	HBF4033AF	SGSI		DIP	184- 1
43♦	40-33B	CMOS	HCC4033BD	SGSI		DIP	184- 12
44♦	40-33B	CMOS	HCC4033BF	SGSI		DIP	184- 13
45♦	40-33B	CMOS	HCC4033BK	SGSI	*	QSM	184- 14
46♦	40-33B	CMOS	HCF4033BE	SGSI		DIP	184- 17
47♦	40-33B	CMOS	HCF4033BF	SGSI		DIP	184- 18
48♦	40-33B	CMOS	SCL4033AB	SSS		DIP	183- 91
49♦	40-37A	CMOS	CM4037AD	SOD		DIP	85- 12
50♦	40-37A	CMOS	CM4037AE	SOD		DIP	85- 13
51♦	40-37A	CMOS	HBC4037AD	SGSI		DIP	85- 14
52♦	40-37A	CMOS	HBC4037AF	SGSI		DIP	85- 15
53♦	40-37A	CMOS	HBC4037AK	SGSI	*	FP	85- 16
54♦	40-37A	CMOS	HBF4037AE	SGSI		DIP	85- 17
55♦	40-37A	CMOS	HBF4037AF	SGSI		DIP	85- 18
56	40-38B	CMOS	CD4038AD	RCA		DIP	199- 12
57	40-38B	CMOS	CD4038AE	RCA		DIP	199- 23
58	40-38B	CMOS	CD4038AF	RCA		DIP	199- 13
59	40-38B	CMOS	CD4038BD	RCA		DIP	199- 7
60	40-38B	CMOS	CD4038BE	RCA		DIP	199- 8
61	40-38B	CMOS	CD4038BF	RCA		DIP	199- 9
62♦	40-38B	CMOS	CM4038AD	SOD		DIP	199- 15
63♦	40-38B	CMOS	CM4038AE	SOD		DIP	199- 25
64♦	40-38B	CMOS	HBC4038AD	SGSI		DIP	199- 19
65♦	40-38B	CMOS	HBC4038AF	SGSI		DIP	199- 20
66	40-38B	CMOS	HBC4038AK	SGSI	*	QSM	199- 21
67♦	40-38B	CMOS	HBF4038AE	SGSI		DIP	199- 28
68♦	40-38B	CMOS	HBF4038AF	SGSI		DIP	199- 29
69♦	40-38B	CMOS	HCC4038BD	SGSI		DIP	199- 33
70♦	40-38B	CMOS	HCC4038BF	SGSI		DIP	199- 34
71	40-38B	CMOS	HCC4038BK	SGSI	*	QSM	199- 35
72♦	40-38B	CMOS	HCF4038BE	SGSI		DIP	199- 38
73♦	40-38B	CMOS	HCF4038BF	SGSI		DIP	199- 39
74♦	40-38B	CMOS	MC14038BAL	MOTA		DIP	198- 75
75▼	40-38B	CMOS	MC14038BALD	MOTA		DIP	198- 76
76▼	40-38B	CMOS	MC14038BALDS	MOTA		DIP	198- 77
77▼	40-38B	CMOS	MC14038BALS	MOTA		DIP	198- 78
78♦	40-38B	CMOS	MC14038BCL	MOTA		DIP	198- 88
79▼	40-38B	CMOS	MC14038BCLD	MOTA		DIP	198- 89
80▼	40-38B	CMOS	MC14038BCLDS	MOTA		DIP	198- 90
81▼	40-38B	CMOS	MC14038BCLS	MOTA		DIP	198- 91
82♦	40-38B	CMOS	MC14038BCP	MOTA		DIP	198- 92
83▼	40-38B	CMOS	MC14038BCPD	MOTA		DIP	198- 93
84▼	40-38B	CMOS	MC14038BCPDS	MOTA		DIP	198- 94
85▼	40-38B	CMOS	MC14038BCPS	MOTA		DIP	198- 95
86▼	40-38B	CMOS	MC14038BD	MOTA		DIP	198- 96
87♦	40-38B	CMOS	TC4038BP	IMTM		DIP	198- 98
88♦	40-38B	CMOS	TC4038BP	TOSJ		DIP	198- 98
89♦	40-40	CMOS	CD74HCT4040M	RCA	*	SO	170- 45
90♦	40-40	CMOS	CD74HC4040M	RCA	*	SO	170- 58
91♦	40-40	CMOS	M54HC4040F1(A)	SGSI		DIP	170- 70
92♦	40-40	CMOS	M74HC4040B1(A)	SGSI		DIP	170- 60
93♦	40-40	CMOS	M74HC4040F1(A)	SGSI		DIP	170- 62
94♦	40-40	CMOS	PC54HCT4040D(A)	MULB		DIP	170- 68
95♦	40-40	CMOS	PC54HCT4040D(A)	PHIN		DIP	170- 68
96♦	40-40	CMOS	PC54HCT4040D(A)	RTCF		DIP	170- 68
97♦	40-40	CMOS	PC54HCT4040D(A)	VALG		DIP	170- 68
98♦	40-40	CMOS	PC54HC4040D(A)	MULB		DIP	170- 71
99♦	40-40	CMOS	PC54HC4040D(A)	PHIN		DIP	170- 71
100♦	40-40	CMOS	PC54HC4040D(A)	RTCF		DIP	170- 71
101♦	40-40	CMOS	PC54HC4040D(A)	VALG		DIP	170- 71
102♦	40-40	CMOS	PC74HCT4040D(A)	MULB		DIP	170- 69
103♦	40-40	CMOS	PC74HCT4040D(A)	PHIN		DIP	170- 69
104♦	40-40	CMOS	PC74HCT4040D(A)	RTCF		DIP	170- 69
105♦	40-40	CMOS	PC74HCT4040D(A)	VALG		DIP	170- 69
106♦	40-40	CMOS	PC74HCT4040P	MULB		DIP	170- 50
107♦	40-40	CMOS	PC74HCT4040P	PHIN		DIP	170- 50
108♦	40-40	CMOS	PC74HCT4040P	RTCF		DIP	170- 50
109♦	40-40	CMOS	PC74HCT4040P	VALG		DIP	170- 50
110♦	40-40	CMOS	PC74HCT4040T	MULB	*	SO	170- 51
111♦	40-40	CMOS	PC74HCT4040T	PHIN	*	SO	170- 51
112♦	40-40	CMOS	PC74HCT4040T	RTCF	*	SO	170- 51
113♦	40-40	CMOS	PC74HCT4040T	VALG	*	SO	170- 51
114♦	40-40	CMOS	PC74HC4040D(A)	MULB		DIP	170- 72
115♦	40-40	CMOS	PC74HC4040D(A)	PHIN		DIP	170- 72
116♦	40-40	CMOS	PC74HC4040D(A)	RTCF		DIP	170- 72
117♦	40-40	CMOS	PC74HC4040D(A)	VALG		DIP	170- 72
118♦	40-40	CMOS	PC74HC4040P	MULB		DIP	170- 48
119♦	40-40	CMOS	PC74HC4040P	PHIN		DIP	170- 48
120♦	40-40	CMOS	PC74HC4040P	RTCF		DIP	170- 48
121♦	40-40	CMOS	PC74HC4040P	VALG		DIP	170- 48
122♦	40-40	CMOS	PC74HC4040T	MULB	*	SO	170- 49
123♦	40-40	CMOS	PC74HC4040T	PHIN	*	SO	170- 49
124♦	40-40	CMOS	PC74HC4040T	RTCF	*	SO	170- 49
125♦	40-40	CMOS	PC74HC4040T	VALG	*	SO	170- 49
126♦	40-40	CMOS	74HCT4040D	SIC	*	SO	166- 68
127♦	40-40	CMOS	74HCT4040N	SIC		DIP	166- 69
128♦	40-40	CMOS	74HC4040D	SIC	*	SO	166- 77
129♦	40-40	CMOS	74HC4040N	SIC		DIP	166- 78
130♦	40-40B		CM4040AD	SOD		DIP	170- 15
131♦	40-40B		CM4040AE	SOD		DIP	170- 16
132♦	40-40B	CMOS	BCL4040B	SSS		DIP	170- 21
133♦	40-40B	CMOS	CD4040AD	RCA		DIP	170- 9
134♦	40-40B	CMOS	CD4040AE	RCA		DIP	170- 10
135♦	40-40B	CMOS	CD4040AF	RCA		DIP	170- 11
136♦	40-40B	CMOS	CD4040BCJ	NSC		DIP	169-109
137♦	40-40B	CMOS	CD4040BCN	NSC		DIP	169-110
138♦	40-40B	CMOS	CD4040BD	RCA		DIP	170- 12
139♦	40-40B	CMOS	CD4040BE	RCA		DIP	170- 13
140♦	40-40B	CMOS	CD4040BF	RCA		DIP	170- 14
141♦	40-40B	CMOS	CD4040BMJ	NSC		DIP	170- 1
142♦	40-40B	CMOS	CD4040BMW	NSC	*	FP	170- 2
143♦	40-40B	CMOS	CD54HCT4040F	RCA		DIP	170- 40
144♦	40-40B	CMOS	CD54HC4040F	RCA		DIP	170- 43
145♦	40-40B	CMOS	CD74HCT4040E	RCA		DIP	170- 44
146♦	40-40B	CMOS	CD74HC4040E	RCA		DIP	170- 57
147♦	40-40B	CMOS	HBC4040AD	SGSI		DIP	170- 3
148♦	40-40B	CMOS	HBC4040AF	SGSI		DIP	170- 4
149♦	40-40B	CMOS	HBC4040AK	SGSI	*	FP	170- 5
150♦	40-40B	CMOS	HBF4040AE	SGSI		DIP	170- 6
151♦	40-40B	CMOS	HBF4040AF	SGSI		DIP	170- 7
152♦	40-40B	CMOS	HCC4040BD	SGSI		DIP	170- 52
153♦	40-40B	CMOS	HCC4040BF	SGSI		DIP	170- 53
154♦	40-40B	CMOS	HCC4040BK	SGSI	*	QSM	170- 54
155♦	40-40B	CMOS	HCF4040BE	SGSI		DIP	170- 55
156♦	40-40B	CMOS	HCF4040BF	SGSI		DIP	170- 56
157▼	40-40B	CMOS	HD74HC4040FP	HITJ	*	SO	170- 46
158▼	40-40B	CMOS	HD74HC4040P	HITJ		DIP	170- 47
159♦	40-40B	CMOS	HEF4040	RTCF		DIP	170- 41
160♦	40-40B	CMOS	HEF4040BD	MULB		DIP	169-101
161♦	40-40B	CMOS	HEF4040BD	PHIN		DIP	169-101
162♦	40-40B	CMOS	HEF4040BD	RTCF		DIP	169-101
163♦	40-40B	CMOS	HEF4040BD	VALG		DIP	169-101
164♦	40-40B	CMOS	HEF4040BP	MULB		DIP	169-102
165♦	40-40B	CMOS	HEF4040BP	PHIN		DIP	169-102
166♦	40-40B	CMOS	HEF4040BP	RTCF		DIP	169-102
167♦	40-40B	CMOS	HEF4040BP	VALG		DIP	169-102
168♦	40-40B	CMOS	HEF4040BPN	SIC		DIP	170- 42
169♦	40-40B	CMOS	HEF4040BT	MULB	*	SO	169-103
170♦	40-40B	CMOS	HEF4040BT	PHIN	*	SO	169-103
171♦	40-40B	CMOS	HEF4040BT	RTCF	*	SO	169-103
172♦	40-40B	CMOS	HEF4040BT	VALG	*	SO	169-103
173♦	40-40B	CMOS	HEF4040BTD	SIC	*	SO	170- 66
174♦	40-40B	CMOS	HEF4040P	MULB		DIP	170- 59
175♦	40-40B	CMOS	HEF4040P	PHIN		DIP	170- 59
176♦	40-40B	CMOS	HEF4040P	VALG		DIP	170- 59
177♦	40-40B	CMOS	LC4040B	TSAJ		DIP	170- 8
178♦	40-40B	CMOS	MB84040B	FCAJ		DIP	170- 17
179♦	40-40B	CMOS	MB84040BM	FCAJ		DIP	170- 18
180♦	40-40B	CMOS	MC14040BAL	MOTA		DIP	170- 22
181▼	40-40B	CMOS	MC14040BALD	MOTA		DIP	170- 23
182▼	40-40B	CMOS	MC14040BALDS	MOTA		DIP	170- 24
183▼	40-40B	CMOS	MC14040BALS	MOTA		DIP	170- 25
184♦	40-40B	CMOS	MC14040BCL	MOTA		DIP	170- 26
185▼	40-40B	CMOS	MC14040BCLD	MOTA		DIP	170- 27
186▼	40-40B	CMOS	MC14040BCLDS	MOTA		DIP	170- 28
187▼	40-40B	CMOS	MC14040BCLS	MOTA		DIP	170- 29
188♦	40-40B	CMOS	MC14040BCP	MOTA		DIP	170- 30
189▼	40-40B	CMOS	MC14040BCPD	MOTA		DIP	170- 31
190▼	40-40B	CMOS	MC14040BCPDS	MOTA		DIP	170- 32
191▼	40-40B	CMOS	MC14040BCPS	MOTA		DIP	170- 33
192▼	40-40B	CMOS	MC14040BD	MOTA		DIP	170- 34
193♦	40-40B	CMOS	MC54HC4040J(A)	MOTA		DIP	170- 63
194♦	40-40B	CMOS	MC74HC4040J(A)	MOTA		DIP	170- 64
195♦	40-40B	CMOS	MC74HC4040N(A)	MOTA		DIP	170- 65
196♦	40-40B	CMOS	MN4040B	MATJ		DIP	170- 67
197♦	40-40B	CMOS	MSM4040	OKIJ		DIP	170- 19
198♦	40-40B	CMOS	MSM4040RS	OKIJ		DIP	169-108
199♦	40-40B	CMOS	M4040BP	MITJ		DIP	169-106
200♦	40-40B	CMOS	SCL4040B	SSS		DIP	166- 25
201♦	40-40B	CMOS	SN74HC4040N	TII		DIP	166- 63
202♦	40-40B	CMOS	TC4040BP	IMTM		DIP	169-107
203♦	40-40B	CMOS	TC4040BP	TOSJ		DIP	169-107
204▼	40-40B	CMOS	TC74HC4040F(A)	TOSA	*	SO	170- 73
205▼	40-40B	CMOS	TC74HC4040P(A)	TOSA		DIP	170- 74
206♦	40-40B	CMOS	4040BDC	FSC		DIP	170- 35
207♦	40-40B	CMOS	4040BDM	FSC		DIP	170- 36
208♦	40-40B	CMOS	4040BFC	FSC	*	FP	170- 37
209♦	40-40B	CMOS	4040BFM	FSC	*	FP	170- 38
210♦	40-40B	CMOS	4040BPC	FSC			170- 39
211♦	40-40B	CMOS	883C4040B	SSS		DIP	170- 20
212♦	40-42B	CMOS	BCL4042B	SSS		DIP	232- 43
213▼	40-42B	CMOS	BU4042B	RHM		DIP	230- 11
214▼	40-42B	CMOS	BU4042BF	RHM	*	SO	230- 12
215♦	40-42B	CMOS	CD4042AD(1)	RCA		DIP	232- 98
216♦	40-42B	CMOS	CD4042AE(1)	RCA		DIP	233- 4
217♦	40-42B	CMOS	CD4042AF(1)	RCA		DIP	232- 99
218♦	40-42B	CMOS	CD4042BCJ	NSC		DIP	232- 61
219♦	40-42B	CMOS	CD4042BCN	NSC		DIP	232- 62
220♦	40-42B	CMOS	CD4042BD	RCA		DIP	232- 90

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	40-42B	CMOS	CD4042BE	RCA		DIP	232- 91
2♦	40-42B	CMOS	CD4042BF	RCA		DIP	232- 92
3♦	40-42B	CMOS	CD4042BMJ	NSC		DIP	232- 63
4♦	40-42B	CMOS	CD4042BMW	NSC	*	FP	232- 64
5♦	40-42B	CMOS	HBC4042AD(1)	SGSI		DIP	232- 86
6♦	40-42B	CMOS	HBC4042AF(1)	SGSI		DIP	232- 87
7♦	40-42B	CMOS	HBC4042AK(1)	SGSI	*	QSM	232- 88
8♦	40-42B	CMOS	HBF4042AE(1)	SGSI		DIP	232-108
9♦	40-42B	CMOS	HBF4042AF(1)	SGSI		DIP	232-109
10♦	40-42B	CMOS	HCC4042BD	SGSI		DIP	232- 50
11♦	40-42B	CMOS	HCC4042BF	SGSI		DIP	232- 51
12♦	40-42B	CMOS	HCC4042BK	SGSI	*	QSM	232- 52
13♦	40-42B	CMOS	HCF4042BE	SGSI		DIP	232- 53
14♦	40-42B	CMOS	HCF4042BF	SGSI		DIP	232- 54
15♦	40-42B	CMOS	HEF4042	RTCF		DIP	232- 34
16♦	40-42B	CMOS	HEF4042BD	MULB		DIP	232- 44
17♦	40-42B	CMOS	HEF4042BD	PHIN		DIP	232- 44
18♦	40-42B	CMOS	HEF4042BD	RTCF		DIP	232- 44
19♦	40-42B	CMOS	HEF4042BD	VALG		DIP	232- 44
20♦	40-42B	CMOS	HEF4042BP	MULB		DIP	232- 45
21♦	40-42B	CMOS	HEF4042BP	PHIN		DIP	232- 45
22♦	40-42B	CMOS	HEF4042BP	RTCF		DIP	232- 45
23♦	40-42B	CMOS	HEF4042BP	VALG		DIP	232- 45
24♦	40-42B	CMOS	HEF4042BPN	SIC		DIP	232- 35
25♦	40-42B	CMOS	HEF4042BT	MULB	*	SO	232- 46
26♦	40-42B	CMOS	HEF4042BT	PHIN	*	SO	232- 46
27♦	40-42B	CMOS	HEF4042BT	RTCF	*	SO	232- 46
28♦	40-42B	CMOS	HEF4042BT	VALG	*	SO	232- 46
29♦	40-42B	CMOS	HEF4042BTD	SIC	*	SO	232- 36
30♦	40-42B	CMOS	HEF4042P	MULB		DIP	232- 89
31♦	40-42B	CMOS	HEF4042P	PHIN		DIP	232- 89
32♦	40-42B	CMOS	HEF4042P	VALG		DIP	232- 89
33♦	40-42B	CMOS	MC14042BAL	MOTA		DIP	232- 70
34▼	40-42B	CMOS	MC14042BALD	MOTA		DIP	232- 71
35▼	40-42B	CMOS	MC14042BALDS	MOTA		DIP	232- 72
36▼	40-42B	CMOS	MC14042BALS	MOTA		DIP	232- 73
37♦	40-42B	CMOS	MC14042BCL	MOTA		DIP	232- 74
38▼	40-42B	CMOS	MC14042BCLD	MOTA		DIP	232- 75
39▼	40-42B	CMOS	MC14042BCLDS	MOTA		DIP	232- 76
40▼	40-42B	CMOS	MC14042BCLS	MOTA		DIP	232- 77
41♦	40-42B	CMOS	MC14042BCP	MOTA		DIP	232- 78
42▼	40-42B	CMOS	MC14042BCPD	MOTA		DIP	232- 79
43▼	40-42B	CMOS	MC14042BCPDS	MOTA		DIP	232- 80
44▼	40-42B	CMOS	MC14042BCPS	MOTA		DIP	232- 81
45▼	40-42B	CMOS	MC14042BD	MOTA		DIP	232- 82
46♦	40-42B	CMOS	MSM4042	OKIJ		DIP	233- 8
47♦	40-42B	CMOS	MSM4042RS	OKIJ		DIP	229- 9
48♦	40-42B	CMOS	M4042BP	MITJ		DIP	230- 13
49♦	40-42B	CMOS	SCL4042B	SSS		DIP	232- 58
50♦	40-42B	CMOS	TC4042BP	IMTM		DIP	233- 7
51♦	40-42B	CMOS	TC4042BP	TOSJ		DIP	233- 7
52♦	40-42B	CMOS	UPD4042BG	NECJ	*	SO	232- 97
53♦	40-42B	CMOS	4042BDC	FSC		DIP	232- 29
54♦	40-42B	CMOS	4042BDM	FSC		DIP	232- 30
55♦	40-42B	CMOS	4042BFC	FSC	*	FP	232- 31
56♦	40-42B	CMOS	4042BFM	FSC	*	FP	232- 32
57♦	40-42B	CMOS	4042BPC	FSC			232- 33
58♦	40-42B	CMOS	883C4042B	SSS		DIP	232- 37
59♦	40-43B	CMOS	BCL4043B	SSS		DIP	243-102
60♦	40-43B	CMOS	CD4043AD	RCA		DIP	244- 38
61♦	40-43B	CMOS	CD4043AE	RCA		DIP	244- 54
62♦	40-43B	CMOS	CD4043AF	RCA		DIP	244- 39
63♦	40-43B	CMOS	CD4043BD	RCA		DIP	244- 30
64♦	40-43B	CMOS	CD4043BE	RCA		DIP	244- 31
65♦	40-43B	CMOS	CD4043BF	RCA		DIP	244- 32
66♦	40-43B	CMOS	CD4043CJ	NSC		DIP	244- 55
67♦	40-43B	CMOS	CD4043CN	NSC		DIP	244- 56
68♦	40-43B	CMOS	CD4043MJ	NSC		DIP	244- 40
69♦	40-43B	CMOS	CD4043MW	NSC	*	FP	244- 41
70♦	40-43B	CMOS	HBC4043AD	SGSI		DIP	244- 46
71♦	40-43B	CMOS	HBC4043AF	SGSI		DIP	244- 47
72♦	40-43B	CMOS	HBC4043AK	SGSI	*	QSM	244- 48
73♦	40-43B	CMOS	HBF4043AE	SGSI		DIP	244- 60
74♦	40-43B	CMOS	HBF4043AF	SGSI		DIP	244- 61
75♦	40-43B	CMOS	HCC4043BD	SGSI		DIP	243-104
76♦	40-43B	CMOS	HCC4043BF	SGSI		DIP	243-105
77♦	40-43B	CMOS	HCC4043BK	SGSI	*	QSM	243-106
78♦	40-43B	CMOS	HCF4043BE	SGSI		DIP	243-110
79♦	40-43B	CMOS	HCF4043BF	SGSI		DIP	244- 1
80♦	40-43B	CMOS	HEF4043	RTCF		DIP	243- 76
81♦	40-43B	CMOS	HEF4043BD	MULB		DIP	243- 94
82♦	40-43B	CMOS	HEF4043BD	PHIN		DIP	243- 94
83♦	40-43B	CMOS	HEF4043BD	RTCF		DIP	243- 94
84♦	40-43B	CMOS	HEF4043BD	VALG		DIP	243- 94
85♦	40-43B	CMOS	HEF4043BP	MULB		DIP	243- 95
86♦	40-43B	CMOS	HEF4043BP	PHIN		DIP	243- 95
87♦	40-43B	CMOS	HEF4043BP	RTCF		DIP	243- 95
88♦	40-43B	CMOS	HEF4043BP	VALG		DIP	243- 95
89♦	40-43B	CMOS	HEF4043BPN	SIC		DIP	243- 77
90♦	40-43B	CMOS	HEF4043BT	MULB	*	SO	243- 96
91♦	40-43B	CMOS	HEF4043BT	PHIN	*	SO	243- 96
92♦	40-43B	CMOS	HEF4043BT	RTCF	*	SO	243- 96
93♦	40-43B	CMOS	HEF4043BT	VALG	*	SO	243- 96
94♦	40-43B	CMOS	HEF4043BTD	SIC	*	SO	243- 78
95♦	40-43B	CMOS	HEF4043P	MULB		DIP	243- 79
96♦	40-43B	CMOS	HEF4043P	PHIN		DIP	243- 79
97♦	40-43B	CMOS	HEF4043P	VALG		DIP	243- 79
98♦	40-43B	CMOS	MC14043BAL	MOTA		DIP	244- 4
99▼	40-43B	CMOS	MC14043BALD	MOTA		DIP	244- 5
100▼	40-43B	CMOS	MC14043BALDS	MOTA		DIP	244- 6
101▼	40-43B	CMOS	MC14043BALS	MOTA		DIP	244- 7
102♦	40-43B	CMOS	MC14043BCL	MOTA		DIP	244- 8
103▼	40-43B	CMOS	MC14043BCLD	MOTA		DIP	244- 9
104▼	40-43B	CMOS	MC14043BCLDS	MOTA		DIP	244- 10
105▼	40-43B	CMOS	MC14043BCLS	MOTA		DIP	244- 11
106♦	40-43B	CMOS	MC14043BCP	MOTA		DIP	244- 12
107▼	40-43B	CMOS	MC14043BCPD	MOTA		DIP	244- 13
108▼	40-43B	CMOS	MC14043BCPDS	MOTA		DIP	244- 14
109▼	40-43B	CMOS	MC14043BCPS	MOTA		DIP	244- 15
110▼	40-43B	CMOS	MC14043BD	MOTA		DIP	244- 16
111♦	40-43B	CMOS	MSM4043	OKIJ		DIP	244- 64
112♦	40-43B	CMOS	MSM4043RS	OKIJ		DIP	244- 66
113♦	40-43B	CMOS	M4043BP	MITJ		DIP	243- 40
114♦	40-43B	CMOS	SCL4043B	SSS		DIP	244- 36
115♦	40-43B	CMOS	TC4043BP	IMTM		DIP	244- 52
116♦	40-43B	CMOS	TC4043BP	TOSJ		DIP	244- 52
117♦	40-43B	CMOS	4043BDC	FSC		DIP	243- 86
118♦	40-43B	CMOS	4043BDM	FSC		DIP	243- 87
119♦	40-43B	CMOS	4043BFC	FSC	*	FP	243- 88
120♦	40-43B	CMOS	4043BFM	FSC	*	FP	243- 89
121♦	40-43B	CMOS	4043BPC	FSC			243- 90
122♦	40-43B	CMOS	883C4043B	SSS		DIP	243-100
123♦	40-44B	CMOS	BCL4044B	SSS		DIP	243-103
124♦	40-44B	CMOS	CD4044AD	RCA		DIP	244- 42
125♦	40-44B	CMOS	CD4044AE	RCA		DIP	244- 57
126♦	40-44B	CMOS	CD4044AF	RCA		DIP	244- 43
127♦	40-44B	CMOS	CD4044BD	RCA		DIP	244- 33
128♦	40-44B	CMOS	CD4044BE	RCA		DIP	244- 34
129♦	40-44B	CMOS	CD4044BF	RCA		DIP	244- 35
130♦	40-44B	CMOS	CD4044CJ	NSC		DIP	244- 58
131♦	40-44B	CMOS	CD4044CN	NSC		DIP	244- 59
132♦	40-44B	CMOS	CD4044MJ	NSC		DIP	244- 44
133♦	40-44B	CMOS	CD4044MW	NSC	*	FP	244- 45
134♦	40-44B	CMOS	HBC4044AD	SGSI		DIP	244- 49
135♦	40-44B	CMOS	HBC4044AF	SGSI		DIP	244- 50
136♦	40-44B	CMOS	HBC4044AK	SGSI	*	QSM	244- 51
137♦	40-44B	CMOS	HBF4044AE	SGSI		DIP	244- 62
138♦	40-44B	CMOS	HBF4044AF	SGSI		DIP	244- 63
139♦	40-44B	CMOS	HCC4044BD	SGSI		DIP	243-107
140♦	40-44B	CMOS	HCC4044BF	SGSI		DIP	243-108
141♦	40-44B	CMOS	HCC4044BK	SGSI	*	QSM	243-109
142♦	40-44B	CMOS	HCF4044BE	SGSI		DIP	244- 2
143♦	40-44B	CMOS	HCF4044BF	SGSI		DIP	244- 3
144♦	40-44B	CMOS	HEF4044	RTCF		DIP	243- 91
145♦	40-44B	CMOS	HEF4044BD	MULB		DIP	243- 97
146♦	40-44B	CMOS	HEF4044BD	PHIN		DIP	243- 97
147♦	40-44B	CMOS	HEF4044BD	RTCF		DIP	243- 97
148♦	40-44B	CMOS	HEF4044BD	VALG		DIP	243- 97
149♦	40-44B	CMOS	HEF4044BP	MULB		DIP	243- 98
150♦	40-44B	CMOS	HEF4044BP	PHIN		DIP	243- 98
151♦	40-44B	CMOS	HEF4044BP	RTCF		DIP	243- 98
152♦	40-44B	CMOS	HEF4044BP	VALG		DIP	243- 98
153♦	40-44B	CMOS	HEF4044BPN	SIC		DIP	243- 92
154♦	40-44B	CMOS	HEF4044BT	PHIN	*	SO	243- 99
155♦	40-44B	CMOS	HEF4044BT	RTCF	*	SO	243- 99
156♦	40-44B	CMOS	HEF4044BT	VALG	*	SO	243- 99
157♦	40-44B	CMOS	HEF4044BTD	SIC	*	SO	243- 93
158♦	40-44B	CMOS	HEF4044P	MULB		DIP	243- 80
159♦	40-44B	CMOS	HEF4044P	PHIN		DIP	243- 80
160♦	40-44B	CMOS	HEF4044P	VALG		DIP	243- 80
161♦	40-44B	CMOS	MC14044BAL	MOTA		DIP	244- 17
162▼	40-44B	CMOS	MC14044BALD	MOTA		DIP	244- 18
163▼	40-44B	CMOS	MC14044BALDS	MOTA		DIP	244- 19
164▼	40-44B	CMOS	MC14044BALS	MOTA		DIP	244- 20
165♦	40-44B	CMOS	MC14044BCL	MOTA		DIP	244- 21
166▼	40-44B	CMOS	MC14044BCLD	MOTA		DIP	244- 22
167▼	40-44B	CMOS	MC14044BCLDS	MOTA		DIP	244- 23
168▼	40-44B	CMOS	MC14044BCLS	MOTA		DIP	244- 24
169♦	40-44B	CMOS	MC14044BCP	MOTA		DIP	244- 25
170▼	40-44B	CMOS	MC14044BCPD	MOTA		DIP	244- 26
171▼	40-44B	CMOS	MC14044BCPDS	MOTA		DIP	244- 27
172▼	40-44B	CMOS	MC14044BCPS	MOTA		DIP	244- 28
173▼	40-44B	CMOS	MC14044BD	MOTA		DIP	244- 29
174♦	40-44B	CMOS	MSM4044	OKIJ		DIP	244- 65
175♦	40-44B	CMOS	MSM4044RS	OKIJ		DIP	244- 67
176♦	40-44B	CMOS	M4044BP	MITJ		DIP	243- 41
177♦	40-44B	CMOS	SCL4044B	SSS		DIP	244- 37
178♦	40-44B	CMOS	TC4044BP	IMTM		DIP	244- 53
179♦	40-44B	CMOS	TC4044BP	TOSJ		DIP	244- 53
180♦	40-44B	CMOS	4044BDC	FSC		DIP	243- 81
181♦	40-44B	CMOS	4044BDM	FSC		DIP	243- 82
182♦	40-44B	CMOS	4044BFC	FSC	*	FP	243- 83
183♦	40-44B	CMOS	4044BFM	FSC	*	FP	243- 84
184♦	40-44B	CMOS	4044BPC	FSC			243- 85
185♦	40-44B	CMOS	883C4044B	SSS		DIP	243-101
186♦	40-45		CD4045AD	RCA		DIP	194- 44
187♦	40-45		CD4045AE	RCA		DIP	194- 45
188♦	40-45		CD4045AF	RCA		DIP	194- 46
189♦	40-45		CD4045AK	RCA		DIP	194- 47
190♦	40-45	CMOS	CD4045BD	RCA		DIP	194- 48
191♦	40-45	CMOS	CD4045BE	RCA		DIP	194- 49
192♦	40-45	CMOS	CD4045BF	RCA		DIP	194- 50
193♦	40-45	CMOS	CD4045BH	RCA		DIP	194- 51
194	40-45	CMOS	CM4045AD	SOD		DIP	194- 52
195	40-45	CMOS	CM4045AE	SOD		DIP	194- 53
196♦	40-45	CMOS	HBC4045AD	SGSI		DIP	194- 54
197♦	40-45	CMOS	HBC4045AF	SGSI		DIP	194- 55
198	40-45	CMOS	HBC4045AK	SGSI	*	FP	194- 56
199▼	40-45	CMOS	HBF4045AE	SGSI		DIP	194- 57
200▼	40-45	CMOS	HBF4045AF	SGSI		DIP	194- 58
201♦	40-45	CMOS	HCC4045BD	SGSI		DIP	172- 24
202♦	40-45	CMOS	HCC4045BF	SGSI			172- 25
203♦	40-45	CMOS	HCC4045BK	SGSI	*	QSM	172- 26
204♦	40-45	CMOS	HCF4045BE	SGSI		DIP	172- 27
205♦	40-45	CMOS	HCF4045BF	SGSI			172- 28
206♦	40-45	CMOS	4045BDC	FSC		DIP	194- 39
207♦	40-45	CMOS	4045BDM	FSC		DIP	194- 40
208	40-45	CMOS	4045BFC	FSC	*	FP	194- 41
209	40-45	CMOS	4045BFM	FSC	*	FP	194- 42
210♦	40-45	CMOS	4045BPC	FSC		DIP	194- 43
211♦	40-46	CMOS	PC74HCT4046AP	MULB		DIP	246- 53
212♦	40-46	CMOS	PC74HCT4046AP	PHIN		DIP	246- 53
213♦	40-46	CMOS	PC74HCT4046AP	RTCF		DIP	246- 53
214♦	40-46	CMOS	PC74HCT4046AP	VALG		DIP	246- 53
215	40-46	CMOS	PC74HCT4046AT	MULB	*	SO	246- 54
216	40-46	CMOS	PC74HCT4046AT	PHIN	*	SO	246- 54
217	40-46	CMOS	PC74HCT4046AT	RTCF	*	SO	246- 54
218	40-46	CMOS	PC74HCT4046AT	VALG	*	SO	246- 54
219♦	40-46	CMOS	PC74HC4046AP	MULB		DIP	246- 51
220♦	40-46	CMOS	PC74HC4046AP	PHIN		DIP	246- 51

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	40-46	CMOS	PC74HC4046AP	RTCF		DIP	246- 51
2♦	40-46	CMOS	PC74HC4046AP	VALG		DIP	246- 51
3	40-46	CMOS	PC74HC4046AT	MULB	*	SO	246- 52
4	40-46	CMOS	PC74HC4046AT	PHIN	*	SO	246- 52
5	40-46	CMOS	PC74HC4046AT	RTCF	*	SO	246- 52
6	40-46	CMOS	PC74HC4046AT	VALG	*	SO	246- 52
7	40-47	CMOS	BCL4047B	SSS		DIP	187- 9
8	40-47	CMOS	CD4047AD	RCA		DIP	187- 10
9	40-47	CMOS	CD4047AE	RCA		DIP	187- 11
10	40-47	CMOS	CD4047AF	RCA		DIP	187- 12
11♦	40-47	CMOS	CD4047BCJ	NSC		DIP	187- 13
12♦	40-47	CMOS	CD4047BCN	NSC		DIP	187- 14
13	40-47	CMOS	CD4047BD	RCA		DIP	187- 15
14	40-47	CMOS	CD4047BE	RCA		DIP	187- 16
15	40-47	CMOS	CD4047BF	RCA		DIP	187- 17
16♦	40-47	CMOS	CD4047BMJ	NSC		DIP	187- 18
17	40-47	CMOS	CD4047BMW	NSC	*	FP	187- 19
18	40-47	CMOS	CM4047AD	SOD		DIP	187- 20
19	40-47	CMOS	CM4047AE	SOD		DIP	187- 21
20	40-47	CMOS	CM4047AF	SOD	*	FP	187- 22
21	40-47	CMOS	HBC4047AD	SGSI		DIP	187- 24
22	40-47	CMOS	HBC4047AK	SGSI	*	FP	187- 25
23	40-47	CMOS	HBF4047AE	SGSI		DIP	187- 26
24♦	40-47	CMOS	HCC4047BD	SGSI		DIP	187- 27
25♦	40-47	CMOS	HCC4047BF	SGSI		DIP	187- 28
26	40-47	CMOS	HCC4047BK	SGSI	*	QSM	187- 29
27♦	40-47	CMOS	HCF4047BE	SGSI		DIP	187- 30
28♦	40-47	CMOS	HCF4047BF	SGSI		DIP	187- 31
29	40-47	CMOS	HEF4047	RTCF		DIP	187- 32
30♦	40-47	CMOS	HEF4047B	VALG		DIP	187- 33
31♦	40-47	CMOS	HEF4047BD	MULB		DIP	187- 34
32♦	40-47	CMOS	HEF4047BD	PHIN		DIP	187- 34
33♦	40-47	CMOS	HEF4047BD	RTCF		DIP	187- 34
34♦	40-47	CMOS	HEF4047BD	VALG		DIP	187- 34
35♦	40-47	CMOS	HEF4047BP	MULB		DIP	187- 35
36♦	40-47	CMOS	HEF4047BP	PHIN		DIP	187- 35
37♦	40-47	CMOS	HEF4047BP	RTCF		DIP	187- 35
38♦	40-47	CMOS	HEF4047BP	VALG		DIP	187- 35
39♦	40-47	CMOS	HEF4047BPN	SIC		DIP	187- 36
40♦	40-47	CMOS	HEF4047BT	MULB	*	SO	187- 37
41♦	40-47	CMOS	HEF4047BT	PHIN	*	SO	187- 37
42♦	40-47	CMOS	HEF4047BT	RTCF	*	SO	187- 37
43♦	40-47	CMOS	HEF4047BT	VALG	*	SO	187- 37
44	40-47	CMOS	HEF4047BTD	SIC	*	SO	187- 38
45	40-47	CMOS	SCL4047B	SSS		DIP	189- 18
46♦	40-47	CMOS	TC4047BP	IMTM		DIP	187- 39
47♦	40-47	CMOS	TC4047BP	TOSJ		DIP	187- 39
48♦	40-47	CMOS	4047BDC	FSC		DIP	187- 4
49♦	40-47	CMOS	4047BDM	FSC		DIP	187- 5
50	40-47	CMOS	4047BFC	FSC	*	FP	187- 6
51	40-47	CMOS	4047BFM	FSC	*	FP	187- 7
52♦	40-47	CMOS	4047BPC	FSC		DIP	187- 8
53♦	40-48B	CMOS	CD4048AD	RCA		Can	95- 18
54♦	40-48B	CMOS	CD4048AE	RCA		DIP	95- 19
55♦	40-48B	CMOS	CD4048AF	RCA		DIP	95- 20
56♦	40-48B	CMOS	CD4048BCJ	NSC		DIP	95- 21
57♦	40-48B	CMOS	CD4048BCN	NSC		DIP	95- 22
58♦	40-48B	CMOS	CD4048BD	RCA		DIP	95- 23
59♦	40-48B	CMOS	CD4048BE	RCA		DIP	95- 24
60♦	40-48B	CMOS	CD4048BF	RCA		DIP	95- 25
61♦	40-48B	CMOS	CD4048BMJ	NSC		DIP	95- 26
62♦	40-48B	CMOS	CD4048BMW	NSC	*	FP	95- 27
63♦	40-48B	CMOS	CM4048AD	SOD		DIP	95- 28
64♦	40-48B	CMOS	CM4048AE	SOD		DIP	95- 29
65♦	40-48B	CMOS	HBC4048AD	SGSI			95- 30
66♦	40-48B	CMOS	HBC4048AF	SGSI		DIP	95- 31
67♦	40-48B	CMOS	HBC4048AK	SGSI		DIP	95- 32
68♦	40-48B	CMOS	HBF4048AE	SGSI		DIP	95- 33
69♦	40-48B	CMOS	HBF4048AF	SGSI	*	QSM	95- 34
70♦	40-48B	CMOS	HCC4048BD	SGSI		DIP	95- 36
71♦	40-48B	CMOS	HCC4048BF	SGSI			95- 37
72♦	40-48B	CMOS	HCC4048BK	SGSI	*	QSM	95- 38
73♦	40-48B	CMOS	HCF4048BE	SGSI		DIP	95- 39
74♦	40-48B	CMOS	HCF4048BF	SGSI			95- 40
75	40-57A	CMOS	CD4057AD	RCA		DIP	222- 98
76	40-57A	CMOS	HBC4057AD	SGSI		DIP	222- 99
77	40-57A	CMOS	HBF4057AD	SGSI		DIP	222-100
78♦	40-59	CMOS	CD54HCT4059F	RCA		DIP	195- 91
79♦	40-59	CMOS	CD54HC4059F	RCA		DIP	195- 90
80♦	40-59	CMOS	CD74HCT4059E	RCA		DIP	195- 94
81♦	40-59	CMOS	CD74HCT4059M	RCA	*	SO	195- 95
82♦	40-59	CMOS	CD74HC4059E	RCA		DIP	195- 92
83♦	40-59	CMOS	CD74HC4059M	RCA	*	SO	195- 93
84♦	40-59	CMOS	PC74HC4059P	MULB		DIP	196- 57
85♦	40-59	CMOS	PC74HC4059P	PHIN		DIP	196- 57
86♦	40-59	CMOS	PC74HC4059P	VALG		DIP	196- 57
87	40-59	CMOS	PC74HC4059T	MULB	*	SO	196- 58
88	40-59	CMOS	PC74HC4059T	PHIN	*	SO	196- 58
89	40-59	CMOS	PC74HC4059T	VALG	*	SO	196- 58
90	40-59A	CMOS	CD4059AD	RCA		DIP	196- 24
91	40-59A	CMOS	CD4059AE	RCA		DIP	196- 25
92♦	40-59A	CMOS	HBC4059AD	SGSI		DIP	196- 18
93	40-59A	CMOS	HBC4059AK	SGSI	*	FP	196- 19
94♦	40-59A	CMOS	HBF4059AD	SGSI		DIP	196- 20
95	40-59A	CMOS	HBF4059AE	SGSI		DIP	196- 21
96♦	40-59A	CMOS	HEF4059BD	MULB		DIP	196- 41
97♦	40-59A	CMOS	HEF4059BD	PHIN		DIP	196- 41
98♦	40-59A	CMOS	HEF4059BD	RTCF		DIP	196- 41
99♦	40-59A	CMOS	HEF4059BD	VALG		DIP	196- 41
100♦	40-59A	CMOS	HEF4059BP	MULB		DIP	196- 42
101♦	40-59A	CMOS	HEF4059BP	PHIN		DIP	196- 42
102♦	40-59A	CMOS	HEF4059BP	RTCF		DIP	196- 42
103♦	40-59A	CMOS	HEF4059BP	VALG		DIP	196- 42
104♦	40-59A	CMOS	HEF4059BPN	SIC		DIP	195- 96
105♦	40-59A	CMOS	HEF4059BT	PHIN	*	SO	195-103
106	40-59A	CMOS	74HCT4059D	SIC	*	SO	195- 88
107♦	40-59A	CMOS	74HCT4059N	SIC		DIP	195- 89
108	40-59A	CMOS	74HC4059D	SIC	*	SO	195- 86
109♦	40-59A	CMOS	74HC4059N	SIC		DIP	195- 87
110♦	40-60	CMOS	CD74HCT4060M	RCA	*	SO	171- 93
111♦	40-60	CMOS	CD74HC4060M	RCA	*	SO	171- 91
112♦	40-60	CMOS	M54HC4060F1(A)	SGSI		DIP	172- 1
113♦	40-60	CMOS	M74HC4060B1(A)	SGSI		DIP	171-100
114♦	40-60	CMOS	M74HC4060F1(A)	SGSI		DIP	171-102
115♦	40-60	CMOS	PC54HCT4060D(A)	MULB		DIP	171- 71
116♦	40-60	CMOS	PC54HCT4060D(A)	PHIN		DIP	171- 71
117♦	40-60	CMOS	PC54HCT4060D(A)	RTCF		DIP	171- 71
118♦	40-60	CMOS	PC54HCT4060D(A)	VALG		DIP	171- 71
119♦	40-60	CMOS	PC54HC4060D(A)	MULB		DIP	171- 70
120♦	40-60	CMOS	PC54HC4060D(A)	PHIN		DIP	171- 70
121♦	40-60	CMOS	PC54HC4060D(A)	RTCF		DIP	171- 70
122♦	40-60	CMOS	PC54HC4060D(A)	VALG		DIP	171- 70
123♦	40-60	CMOS	PC74HCT4060D(A)	MULB		DIP	171- 87
124♦	40-60	CMOS	PC74HCT4060D(A)	PHIN		DIP	171- 87
125♦	40-60	CMOS	PC74HCT4060D(A)	RTCF		DIP	171- 87
126♦	40-60	CMOS	PC74HCT4060D(A)	VALG		DIP	171- 87
127♦	40-60	CMOS	PC74HCT4060P	MULB		DIP	171- 74
128♦	40-60	CMOS	PC74HCT4060P	PHIN		DIP	171- 74
129♦	40-60	CMOS	PC74HCT4060P	RTCF		DIP	171- 74
130♦	40-60	CMOS	PC74HCT4060P	VALG		DIP	171- 74
131♦	40-60	CMOS	PC74HCT4060T	MULB	*	SO	171- 75
132♦	40-60	CMOS	PC74HCT4060T	PHIN	*	SO	171- 75
133♦	40-60	CMOS	PC74HCT4060T	RTCF	*	SO	171- 75
134♦	40-60	CMOS	PC74HCT4060T	VALG	*	SO	171- 75
135♦	40-60	CMOS	PC74HC4060D(A)	MULB		DIP	171- 86
136♦	40-60	CMOS	PC74HC4060D(A)	PHIN		DIP	171- 86
137♦	40-60	CMOS	PC74HC4060D(A)	RTCF		DIP	171- 86
138♦	40-60	CMOS	PC74HC4060D(A)	VALG		DIP	171- 86
139♦	40-60	CMOS	PC74HC4060P	MULB		DIP	171- 72
140♦	40-60	CMOS	PC74HC4060P	PHIN		DIP	171- 72
141♦	40-60	CMOS	PC74HC4060P	RTCF		DIP	171- 72
142♦	40-60	CMOS	PC74HC4060P	VALG		DIP	171- 72
143♦	40-60	CMOS	PC74HC4060T	MULB	*	SO	171- 73
144♦	40-60	CMOS	PC74HC4060T	PHIN	*	SO	171- 73
145♦	40-60	CMOS	PC74HC4060T	RTCF	*	SO	171- 73
146♦	40-60	CMOS	PC74HC4060T	VALG	*	SO	171- 73
147♦	40-60	CMOS	74HCT4060D	SIC	*	SO	172- 4
148♦	40-60	CMOS	74HCT4060N	SIC		DIP	172- 5
149♦	40-60	CMOS	74HC4060D	SIC	*	SO	172- 2
150♦	40-60	CMOS	74HC4060N	SIC		DIP	172- 3
151♦	40-60B	CMOS	BCL4060B	SSS		DIP	171- 26
152♦	40-60B	CMOS	CD4060AD	RCA		DIP	170-104
153♦	40-60B	CMOS	CD4060AE	RCA		DIP	170-105
154♦	40-60B	CMOS	CD4060AF	RCA		DIP	170-106
155♦	40-60B	CMOS	CD4060BCJ	NSC		DIP	170-107
156♦	40-60B	CMOS	CD4060BCN	NSC		DIP	170-108
157♦	40-60B	CMOS	CD4060BD	RCA		DIP	171- 46
158♦	40-60B	CMOS	CD4060BE	RCA		DIP	171- 47
159♦	40-60B	CMOS	CD4060BF	RCA		DIP	171- 48
160♦	40-60B	CMOS	CD4060BMJ	NSC		DIP	170-109
161♦	40-60B	CMOS	CD4060BMW	NSC	*	FP	170-110
162♦	40-60B	CMOS	CD54HCT4060F	RCA		DIP	171- 62
163♦	40-60B	CMOS	CD54HC4060F	RCA		DIP	171- 61
164♦	40-60B	CMOS	CD74HCT4060E	RCA		DIP	171- 92
165♦	40-60B	CMOS	CD74HC4060E	RCA		DIP	171- 90
166♦	40-60B	CMOS	HBC4060AD	SGSI		DIP	170- 94
167♦	40-60B	CMOS	HBC4060AF	SGSI		DIP	170- 95
168♦	40-60B	CMOS	HBC4060AK	SGSI	*	QSM	170- 96
169♦	40-60B	CMOS	HBF4060AE	SGSI		DIP	170- 92
170♦	40-60B	CMOS	HBF4060AF	SGSI		DIP	170- 93
171♦	40-60B	CMOS	HCC4060BD	SGSI		DIP	171- 79
172♦	40-60B	CMOS	HCC4060BF	SGSI		DIP	171- 80
173♦	40-60B	CMOS	HCC4060BK	SGSI	*	QSM	171- 81
174♦	40-60B	CMOS	HCF4060BE	SGSI		DIP	171- 84
175♦	40-60B	CMOS	HCF4060BF	SGSI		DIP	171- 85
176▼	40-60B	CMOS	HD74HC4060FP	HITJ	*	SO	171- 49
177▼	40-60B	CMOS	HD74HC4060P	HITJ		DIP	171- 50
178♦	40-60B	CMOS	HEF4060BD	MULB		DIP	171- 67
179♦	40-60B	CMOS	HEF4060BD	PHIN		DIP	171- 67
180♦	40-60B	CMOS	HEF4060BD	RTCF		DIP	171- 67
181♦	40-60B	CMOS	HEF4060BD	VALG		DIP	171- 67
182♦	40-60B	CMOS	HEF4060BP	MULB		DIP	171- 68
183♦	40-60B	CMOS	HEF4060BP	PHIN		DIP	171- 68
184♦	40-60B	CMOS	HEF4060BP	RTCF		DIP	171- 68
185♦	40-60B	CMOS	HEF4060BP	VALG		DIP	171- 68
186♦	40-60B	CMOS	HEF4060BPN	SIC		DIP	170- 81
187♦	40-60B	CMOS	HEF4060BT	MULB	*	SO	171- 69
188♦	40-60B	CMOS	HEF4060BT	PHIN	*	SO	171- 69
189♦	40-60B	CMOS	HEF4060BT	RTCF	*	SO	171- 69
190♦	40-60B	CMOS	HEF4060BT	VALG	*	SO	171- 69
191♦	40-60B	CMOS	HEF4060BTD	SIC	*	SO	171- 51
192♦	40-60B	CMOS	MB84060B	FCAJ		DIP	171- 2
193♦	40-60B	CMOS	MB84060BM	FCAJ		DIP	171- 3
194♦	40-60B	CMOS	MM54HC4060J	NSC		DIP	171- 53
195♦	40-60B	CMOS	MM74HC4060J	NSC		DIP	171- 58
196♦	40-60B	CMOS	MM74HC4060N	NSC		DIP	171- 59
197♦	40-60B	CMOS	SCL4060B	SSS		Chip	171- 19
198♦	40-60B	CMOS	SN74HC4060N	TII		DIP	166- 64
199▼	40-60B	CMOS	SN74HC4061N	TII		DIP	166- 65
200▼	40-60B	CMOS	TC74HC4060F(A)	TOSA	*	SO	172- 13
201▼	40-60B	CMOS	TC74HC4060P(A)	TOSA		DIP	172- 14
202♦	40-60B	CMOS	883C4060B	SSS		DIP	171- 24
203	40-63B	CMOS	CD4063BD	RCA		DIP	217- 88
204	40-63B	CMOS	CD4063BE	RCA		DIP	217- 89
205	40-63B	CMOS	CD4063BF	RCA		DIP	217- 90
206♦	40-63B	CMOS	HCC4063BD	SGSI		DIP	217- 65
207♦	40-63B	CMOS	HCC4063BF	SGSI		DIP	217- 66
208	40-63B	CMOS	HCC4063BK	SGSI	*	QSM	217- 67
209♦	40-63B	CMOS	HCF4063BE	SGSI		DIP	217- 68
210♦	40-63B	CMOS	HCF4063BF	SGSI		DIP	217- 69
211♦	40-63B	CMOS	M4063BP	MITJ		DIP	217- 86
212♦	40-63B	CMOS	TC4063BP	IMTM		DIP	217- 87
213♦	40-63B	CMOS	TC4063BP	TOSJ		DIP	217- 87
214♦	40-68	CMOS	UPD4068BG	NECJ	*	SO	110- 88
215♦	40-68B	CMOS	BCL4068B	SSS		DIP	110- 70
216♦	40-68B	CMOS	CD4068BD	RCA		DIP	110- 92
217♦	40-68B	CMOS	CD4068BE	RCA		DIP	110- 93
218♦	40-68B	CMOS	CD4068BF	RCA		DIP	110- 94
219♦	40-68B	CMOS	HCC4068BD	SGSI		DIP	110- 99
220♦	40-68B	CMOS	HCC4068BF	SGSI		DIP	110-100

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	40-68B	CMOS	HCC4068BK	SGSI	*	QSM	110-101
2♦	40-68B	CMOS	HCF4068BE	SGSI		DIP	110-102
3♦	40-68B	CMOS	HCF4068BF	SGSI		DIP	110-103
4♦	40-68B	CMOS	HEF4068	RTCF		DIP	110- 58
5♦	40-68B	CMOS	HEF4068BD	MULB		DIP	110- 66
6♦	40-68B	CMOS	HEF4068BD	PHIN		DIP	110- 66
7♦	40-68B	CMOS	HEF4068BD	RTCF		DIP	110- 66
8♦	40-68B	CMOS	HEF4068BD	VALG		DIP	110- 66
9♦	40-68B	CMOS	HEF4068BP	MULB		DIP	110- 67
10♦	40-68B	CMOS	HEF4068BP	PHIN		DIP	110- 67
11♦	40-68B	CMOS	HEF4068BP	RTCF		DIP	110- 67
12♦	40-68B	CMOS	HEF4068BP	VALG		DIP	110- 67
13♦	40-68B	CMOS	HEF4068BPN	SIC		DIP	110- 59
14♦	40-68B	CMOS	HEF4068BT	MULB	*	SO	110- 68
15♦	40-68B	CMOS	HEF4068BT	PHIN	*	SO	110- 68
16♦	40-68B	CMOS	HEF4068BT	RTCF	*	SO	110- 68
17♦	40-68B	CMOS	HEF4068BT	VALG	*	SO	110- 68
18♦	40-68B	CMOS	HEF4068BTD	SIC	*	SO	110- 60
19♦	40-68B	CMOS	HEF4068P	MULB		DIP	110- 44
20♦	40-68B	CMOS	HEF4068P	PHIN		DIP	110- 44
21♦	40-68B	CMOS	HEF4068P	VALG		DIP	110- 44
22♦	40-68B	CMOS	MB84068B	FCAJ		DIP	110- 73
23♦	40-68B	CMOS	MB84068BM	FCAJ		DIP	110- 74
24♦	40-68B	CMOS	MC14068BAL	MOTA		DIP	110- 75
25▼	40-68B	CMOS	MC14068BALD	MOTA		DIP	110- 76
26▼	40-68B	CMOS	MC14068BALDS	MOTA		DIP	110- 77
27▼	40-68B	CMOS	MC14068BALS	MOTA		DIP	110- 78
28♦	40-68B	CMOS	MC14068BCL	MOTA		DIP	110- 79
29▼	40-68B	CMOS	MC14068BCLD	MOTA		DIP	110- 80
30▼	40-68B	CMOS	MC14068BCLDS	MOTA		DIP	110- 81
31▼	40-68B	CMOS	MC14068BCLS	MOTA		DIP	110- 82
32♦	40-68B	CMOS	MC14068BCP	MOTA		DIP	110- 83
33▼	40-68B	CMOS	MC14068BCPD	MOTA		DIP	110- 84
34▼	40-68B	CMOS	MC14068BCPDS	MOTA		DIP	110- 85
35▼	40-68B	CMOS	MC14068BCPS	MOTA		DIP	110- 86
36▼	40-68B	CMOS	MC14068BD	MOTA		DIP	110- 87
37♦	40-68B	CMOS	MSM4068	OKIJ		DIP	110- 96
38♦	40-68B	CMOS	MSM4068RS	OKIJ		DIP	110-104
39♦	40-68B	CMOS	M4068BP	MITJ		DIP	110- 97
40♦	40-68B	CMOS	SCL4068B	SSS		DIP	110- 91
41♦	40-68B	CMOS	TC4068BP	IMTM		DIP	110- 98
42♦	40-68B	CMOS	TC4068BP	TOSJ		DIP	110- 98
43♦	40-68B	CMOS	4068BDC	FSC		DIP	110- 61
44♦	40-68B	CMOS	4068BDM	FSC		DIP	110- 62
45♦	40-68B	CMOS	4068BFC	FSC	*	FP	110- 63
46♦	40-68B	CMOS	4068BFM	FSC	*	FP	110- 64
47♦	40-68B	CMOS	4068BPC	FSC		DIP	110- 65
48♦	40-68B	CMOS	883C4068B	SSS		DIP	110- 69
49♦	40-71	CMOS	HCC4071BF	SGSI		DIP	122- 26
50♦	40-71	CMOS	M4071BP	MITJ		DIP	122- 21
51♦	40-71B	CMOS	BCL4071B	SSS		DIP	121-110
52♦	40-71B	CMOS	CD4071BCJ	NSC		DIP	121-105
53♦	40-71B	CMOS	CD4071BCN	NSC		DIP	121-106
54♦	40-71B	CMOS	CD4071BD	RCA		DIP	122- 17
55♦	40-71B	CMOS	CD4071BE	RCA		DIP	122- 18
56♦	40-71B	CMOS	CD4071BF	RCA		DIP	122- 19
57♦	40-71B	CMOS	CD4071BMJ	NSC		DIP	121-107
58♦	40-71B	CMOS	CD4071BMW	NSC	*	FP	121-108
59♦	40-71B	CMOS	HCC4071BD	SGSI		DIP	122- 25
60♦	40-71B	CMOS	HCC4071BK	SGSI	*	FP	122- 27
61♦	40-71B	CMOS	HCF4071BE	SGSI		DIP	122- 28
62♦	40-71B	CMOS	HCF4071BF	SGSI		DIP	122- 29
63♦	40-71B	CMOS	HEF4071	RTCF		DIP	121- 93
64♦	40-71B	CMOS	HEF4071BD	MULB		DIP	121-101
65♦	40-71B	CMOS	HEF4071BD	PHIN		DIP	121-101
66♦	40-71B	CMOS	HEF4071BD	RTCF		DIP	121-101
67♦	40-71B	CMOS	HEF4071BD	VALG		DIP	121-101
68♦	40-71B	CMOS	HEF4071BP	MULB		DIP	121-102
69♦	40-71B	CMOS	HEF4071BP	PHIN		DIP	121-102
70♦	40-71B	CMOS	HEF4071BP	RTCF		DIP	121-102
71♦	40-71B	CMOS	HEF4071BP	VALG		DIP	121-102
72♦	40-71B	CMOS	HEF4071BPN	SIC		DIP	121- 94
73♦	40-71B	CMOS	HEF4071BT	MULB	*	SO	121-103
74♦	40-71B	CMOS	HEF4071BT	PHIN	*	SO	121-103
75♦	40-71B	CMOS	HEF4071BT	RTCF	*	SO	121-103
76♦	40-71B	CMOS	HEF4071BT	VALG	*	SO	121-103
77♦	40-71B	CMOS	HEF4071BTD	SIC	*	SO	121- 95
78♦	40-71B	CMOS	HEF4071P	MULB		DIP	121-100
79♦	40-71B	CMOS	HEF4071P	PHIN		DIP	121-100
80♦	40-71B	CMOS	HEF4071P	VALG		DIP	121-100
81♦	40-71B	CMOS	LC4071B	TSAJ		DIP	122- 20
82♦	40-71B	CMOS	MB84071B	FCAJ		DIP	122- 1
83♦	40-71B	CMOS	MB84071BM	FCAJ		DIP	122- 2
84♦	40-71B	CMOS	MC14071BAL	MOTA		DIP	122- 3
85▼	40-71B	CMOS	MC14071BALD	MOTA		DIP	122- 4
86▼	40-71B	CMOS	MC14071BALDS	MOTA		DIP	122- 5
87▼	40-71B	CMOS	MC14071BALS	MOTA		DIP	122- 6
88♦	40-71B	CMOS	MC14071BCL	MOTA		DIP	122- 7
89▼	40-71B	CMOS	MC14071BCLD	MOTA		DIP	122- 8
90▼	40-71B	CMOS	MC14071BCLDS	MOTA		DIP	122- 9
91▼	40-71B	CMOS	MC14071BCLS	MOTA		DIP	122- 10
92♦	40-71B	CMOS	MC14071BCP	MOTA		DIP	122- 11
93▼	40-71B	CMOS	MC14071BCPD	MOTA		DIP	122- 12
94▼	40-71B	CMOS	MC14071BCPDS	MOTA		DIP	122- 13
95▼	40-71B	CMOS	MC14071BCPS	MOTA		DIP	122- 14
96▼	40-71B	CMOS	MC14071BD	MOTA		DIP	122- 15
97♦	40-71B	CMOS	MN4071B	MATJ		DIP	121-104
98♦	40-71B	CMOS	MSM4071	OKIJ		DIP	122- 23
99♦	40-71B	CMOS	MSM4071RS	OKIJ		DIP	122- 30
100♦	40-71B	CMOS	SCL4071B	SSS		DIP	122- 16
101♦	40-71B	CMOS	TC4071BP	IMTM		DIP	122- 22
102♦	40-71B	CMOS	TC4071BP	TOSJ		DIP	122- 22
103♦	40-71B	CMOS	UPD4071BG	NECJ	*	SO	122- 24
104♦	40-71B	CMOS	4071BDC	FSC		DIP	121- 88
105♦	40-71B	CMOS	4071BDM	FSC		DIP	121- 89
106♦	40-71B	CMOS	4071BFC	FSC	*	FP	121- 90
107♦	40-71B	CMOS	4071BFM	FSC	*	FP	121- 91
108♦	40-71B	CMOS	4071BPC	FSC		DIP	121- 92
109♦	40-71B	CMOS	883C4071B	SSS		DIP	121-109
110♦	40-72	CMOS	M54HC4072F1(A)	SGSI		DIP	124- 5
111♦	40-72	CMOS	M74HC4072B1(A)	SGSI		DIP	124- 6
112♦	40-72	CMOS	M74HC4072F1(A)	SGSI		DIP	124- 8
113▼	40-72	CMOS	TC74HC4072F(A)	TOSA	*	SO	124- 9
114▼	40-72	CMOS	TC74HC4072P(A)	TOSA		DIP	124- 10
115♦	40-72B	CMOS	BCL4072B	SSS		DIP	124- 20
116♦	40-72B	CMOS	CD4072BD	RCA		DIP	124- 37
117♦	40-72B	CMOS	CD4072BE	RCA		DIP	124- 38
118♦	40-72B	CMOS	CD4072BF	RCA		DIP	124- 39
119♦	40-72B	CMOS	HCC4072BD	SGSI		DIP	124- 43
120♦	40-72B	CMOS	HCC4072BF	SGSI		DIP	124- 44
121♦	40-72B	CMOS	HCC4072BK	SGSI	*	FP	124- 45
122♦	40-72B	CMOS	HCF4072BE	SGSI		DIP	124- 46
123♦	40-72B	CMOS	HCF4072BF	SGSI		DIP	124- 47
124♦	40-72B	CMOS	HEF4072	RTCF		DIP	124- 12
125♦	40-72B	CMOS	HEF4072BD	PHIN		DIP	124- 15
126♦	40-72B	CMOS	HEF4072BD	RTCF		DIP	124- 15
127♦	40-72B	CMOS	HEF4072BD	VALG		DIP	124- 15
128♦	40-72B	CMOS	HEF4072BP	MULB		DIP	124- 16
129♦	40-72B	CMOS	HEF4072BP	PHIN		DIP	124- 16
130♦	40-72B	CMOS	HEF4072BP	RTCF		DIP	124- 16
131♦	40-72B	CMOS	HEF4072BP	VALG		DIP	124- 16
132♦	40-72B	CMOS	HEF4072BPN	SIC		DIP	124- 13
133♦	40-72B	CMOS	HEF4072BT	MULB	*	SO	124- 17
134♦	40-72B	CMOS	HEF4072BT	PHIN	*	SO	124- 17
135♦	40-72B	CMOS	HEF4072BT	RTCF	*	SO	124- 17
136♦	40-72B	CMOS	HEF4072BT	VALG	*	SO	124- 17
137♦	40-72B	CMOS	HEF4072BTD	SIC	*	SO	124- 14
138♦	40-72B	CMOS	HEF4072P	MULB		DIP	124- 11
139♦	40-72B	CMOS	HEF4072P	PHIN		DIP	124- 11
140♦	40-72B	CMOS	HEF4072P	VALG		DIP	124- 11
141♦	40-72B	CMOS	MB84072B	FCAJ		DIP	124- 21
142♦	40-72B	CMOS	MB84072BM	FCAJ		DIP	124- 22
143♦	40-72B	CMOS	MC14072BAL	MOTA		DIP	124- 23
144▼	40-72B	CMOS	MC14072BALD	MOTA		DIP	124- 24
145▼	40-72B	CMOS	MC14072BALDS	MOTA		DIP	124- 25
146▼	40-72B	CMOS	MC14072BALS	MOTA		DIP	124- 26
147♦	40-72B	CMOS	MC14072BCL	MOTA		DIP	124- 27
148▼	40-72B	CMOS	MC14072BCLD	MOTA		DIP	124- 28
149▼	40-72B	CMOS	MC14072BCLDS	MOTA		DIP	124- 29
150▼	40-72B	CMOS	MC14072BCLS	MOTA		DIP	124- 30
151♦	40-72B	CMOS	MC14072BCP	MOTA		DIP	124- 31
152▼	40-72B	CMOS	MC14072BCPD	MOTA		DIP	124- 32
153▼	40-72B	CMOS	MC14072BCPDS	MOTA		DIP	124- 33
154▼	40-72B	CMOS	MC14072BCPS	MOTA		DIP	124- 34
155▼	40-72B	CMOS	MC14072BD	MOTA		DIP	124- 35
156♦	40-72B	CMOS	MN4072B	MATJ		DIP	124- 18
157♦	40-72B	CMOS	MSM4072	OKIJ		DIP	124- 42
158♦	40-72B	CMOS	MSM4072RS	OKIJ		DIP	124- 48
159♦	40-72B	CMOS	M4072BP	MITJ		DIP	124- 40
160♦	40-72B	CMOS	SCL4072B	SSS		DIP	124- 36
161♦	40-72B	CMOS	TC4072BP	IMTM		DIP	124- 41
162♦	40-72B	CMOS	TC4072BP	TOSJ		DIP	124- 41
163♦	40-72B	CMOS	4072BDC	FSC		DIP	123-110
164♦	40-72B	CMOS	4072BDM	FSC		DIP	124- 1
165♦	40-72B	CMOS	4072BFC	FSC	*	FP	124- 2
166♦	40-72B	CMOS	4072BFM	FSC	*	FP	124- 3
167♦	40-72B	CMOS	4072BPC	FSC		DIP	124- 4
168♦	40-72B	CMOS	883C4072B	SSS		DIP	124- 19
169♦	40-73B	CMOS	BCL4073B	SSS		DIP	81- 4
170♦	40-73B	CMOS	CD4073BCJ	NSC		DIP	80-109
171♦	40-73B	CMOS	CD4073BCN	NSC		DIP	80-110
172♦	40-73B	CMOS	CD4073BD	RCA		DIP	81- 21
173♦	40-73B	CMOS	CD4073BE	RCA		DIP	81- 22
174♦	40-73B	CMOS	CD4073BF	RCA		DIP	81- 23
175♦	40-73B	CMOS	CD4073BMJ	NSC		DIP	81- 1
176♦	40-73B	CMOS	CD4073BMW	NSC	*	FP	81- 2
177♦	40-73B	CMOS	HCC4073BD	SGSI		DIP	81- 28
178♦	40-73B	CMOS	HCC4073BF	SGSI		DIP	81- 29
179♦	40-73B	CMOS	HCC4073BK	SGSI	*	QSM	81- 30
180♦	40-73B	CMOS	HCF4073BE	SGSI		DIP	81- 31
181♦	40-73B	CMOS	HCF4073BF	SGSI		DIP	81- 32
182♦	40-73B	CMOS	HEF4073	RTCF		DIP	80- 91
183♦	40-73B	CMOS	HEF4073B	VALG		DIP	80- 88
184♦	40-73B	CMOS	HEF4073BD	MULB		DIP	80-104
185♦	40-73B	CMOS	HEF4073BD	PHIN		DIP	80-104
186♦	40-73B	CMOS	HEF4073BD	RTCF		DIP	80-104
187♦	40-73B	CMOS	HEF4073BD	VALG		DIP	80-104
188♦	40-73B	CMOS	HEF4073BP	MULB		DIP	80-105
189♦	40-73B	CMOS	HEF4073BP	PHIN		DIP	80-105
190♦	40-73B	CMOS	HEF4073BP	RTCF		DIP	80-105
191♦	40-73B	CMOS	HEF4073BP	VALG		DIP	80-105
192♦	40-73B	CMOS	HEF4073BPN	SIC		DIP	80- 92
193♦	40-73B	CMOS	HEF4073BT	MULB	*	SO	80-106
194♦	40-73B	CMOS	HEF4073BT	PHIN	*	SO	80-106
195♦	40-73B	CMOS	HEF4073BT	RTCF	*	SO	80-106
196♦	40-73B	CMOS	HEF4073BT	VALG	*	SO	80-106
197♦	40-73B	CMOS	HEF4073BTD	SIC	*	SO	80- 93
198♦	40-73B	CMOS	HEF4073P	PHIN		DIP	80- 89
199♦	40-73B	CMOS	LC4073B	TSAJ		DIP	81- 25
200♦	40-73B	CMOS	MB84073B	FCAJ		DIP	81- 6
201♦	40-73B	CMOS	MB84073BM	FCAJ		DIP	81- 7
202♦	40-73B	CMOS	MC14073BAL	MOTA		DIP	81- 8
203▼	40-73B	CMOS	MC14073BALD	MOTA		DIP	81- 9
204▼	40-73B	CMOS	MC14073BALDS	MOTA		DIP	81- 10
205▼	40-73B	CMOS	MC14073BALS	MOTA		DIP	81- 11
206♦	40-73B	CMOS	MC14073BCL	MOTA		DIP	81- 12
207▼	40-73B	CMOS	MC14073BCLD	MOTA		DIP	81- 13
208▼	40-73B	CMOS	MC14073BCLDS	MOTA		DIP	81- 14
209▼	40-73B	CMOS	MC14073BCLS	MOTA		DIP	81- 15
210♦	40-73B	CMOS	MC14073BCP	MOTA		DIP	81- 16
211▼	40-73B	CMOS	MC14073BCPD	MOTA		DIP	81- 17
212▼	40-73B	CMOS	MC14073BCPDS	MOTA		DIP	81- 18
213▼	40-73B	CMOS	MC14073BCPS	MOTA		DIP	81- 19
214▼	40-73B	CMOS	MC14073BD	MOTA		DIP	81- 20
215♦	40-73B	CMOS	MN4073B	MATJ		DIP	80-108
216♦	40-73B	CMOS	M4073BP	MITJ		DIP	81- 26
217♦	40-73B	CMOS	SCL4073B	SSS		DIP	81- 24
218♦	40-73B	CMOS	TC4073BP	IMTM		DIP	81- 27
219♦	40-73B	CMOS	TC4073BP	TOSJ		DIP	81- 27
220♦	40-73B	CMOS	4073BDC	FSC		DIP	80- 96

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	40-73B	CMOS	4073BDM	FSC		DIP	80- 97
2♦	40-73B	CMOS	4073BFC	FSC	*	FP	80- 98
3♦	40-73B	CMOS	4073BFM	FSC	*	FP	80- 99
4♦	40-73B	CMOS	4073BPC	FSC		DIP	80-100
5♦	40-73B	CMOS	883C4073B	SSS		DIP	81- 3
6♦	40-75	CMOS	M54HC4075F1(A)	SGSI		DIP	122-110
7♦	40-75	CMOS	M74HC4075B1(A)	SGSI		DIP	123- 7
8♦	40-75	CMOS	M74HC4075F1(A)	SGSI		DIP	123- 9
9♦	40-75	CMOS	PC54HCT4075D(A)	MULB		DIP	123- 32
10♦	40-75	CMOS	PC54HCT4075D(A)	PHIN		DIP	123- 32
11♦	40-75	CMOS	PC54HCT4075D(A)	RTCF		DIP	123- 32
12♦	40-75	CMOS	PC54HCT4075D(A)	VALG		DIP	123- 32
13♦	40-75	CMOS	PC54HC4075D(A)	MULB		DIP	123- 26
14♦	40-75	CMOS	PC54HC4075D(A)	PHIN		DIP	123- 26
15♦	40-75	CMOS	PC54HC4075D(A)	RTCF		DIP	123- 26
16♦	40-75	CMOS	PC54HC4075D(A)	VALG		DIP	123- 26
17♦	40-75	CMOS	PC74HCT4075D(A)	MULB		DIP	123- 29
18♦	40-75	CMOS	PC74HCT4075D(A)	PHIN		DIP	123- 29
19♦	40-75	CMOS	PC74HCT4075D(A)	RTCF		DIP	123- 29
20♦	40-75	CMOS	PC74HCT4075D(A)	VALG		DIP	123- 29
21♦	40-75	CMOS	PC74HCT4075P	MULB		DIP	123- 33
22♦	40-75	CMOS	PC74HCT4075P	PHIN		DIP	123- 33
23♦	40-75	CMOS	PC74HCT4075P	RTCF		DIP	123- 33
24♦	40-75	CMOS	PC74HCT4075P	VALG		DIP	123- 33
25♦	40-75	CMOS	PC74HCT4075T	MULB	*	SO	123- 34
26♦	40-75	CMOS	PC74HCT4075T	PHIN	*	SO	123- 34
27♦	40-75	CMOS	PC74HCT4075T	RTCF	*	SO	123- 34
28♦	40-75	CMOS	PC74HCT4075T	VALG	*	SO	123- 34
29♦	40-75	CMOS	PC74HC4075D(A)	MULB		DIP	123- 16
30♦	40-75	CMOS	PC74HC4075D(A)	PHIN		DIP	123- 16
31♦	40-75	CMOS	PC74HC4075D(A)	RTCF		DIP	123- 16
32♦	40-75	CMOS	PC74HC4075D(A)	VALG		DIP	123- 16
33♦	40-75	CMOS	PC74HC4075P	MULB		DIP	123- 27
34♦	40-75	CMOS	PC74HC4075P	PHIN		DIP	123- 27
35♦	40-75	CMOS	PC74HC4075P	RTCF		DIP	123- 27
36♦	40-75	CMOS	PC74HC4075P	VALG		DIP	123- 27
37♦	40-75	CMOS	PC74HC4075T	MULB	*	SO	123- 28
38♦	40-75	CMOS	PC74HC4075T	PHIN	*	SO	123- 28
39♦	40-75	CMOS	PC74HC4075T	RTCF	*	SO	123- 28
40♦	40-75	CMOS	PC74HC4075T	VALG	*	SO	123- 28
41▼	40-75	CMOS	TC74HC4075F(A)	TOSA	*	SO	123- 19
42▼	40-75	CMOS	TC74HC4075P(A)	TOSA		DIP	123- 20
43♦	40-75	CMOS	74HCT4075D	SIC	*	FP	123- 24
44♦	40-75	CMOS	74HCT4075N	SIC		DIP	123- 25
45♦	40-75	CMOS	74HC4075D	SIC	*	FP	123- 1
46♦	40-75	CMOS	74HC4075N	SIC		DIP	123- 2
47♦	40-75	ECL	9504DC	FSC		DIP	122-107
48♦	40-75B	CMOS	BCL4075B	SSS		DIP	123- 52
49♦	40-75B	CMOS	CD4075BCJ	NSC		DIP	123- 46
50♦	40-75B	CMOS	CD4075BCN	NSC		DIP	123- 47
51♦	40-75B	CMOS	CD4075BD	RCA		DIP	123- 70
52♦	40-75B	CMOS	CD4075BE	RCA		DIP	123- 71
53♦	40-75B	CMOS	CD4075BF	RCA		DIP	123- 72
54♦	40-75B	CMOS	CD4075BMJ	NSC		DIP	123- 48
55♦	40-75B	CMOS	CD4075BMW	NSC	*	FP	123- 49
56♦	40-75B	CMOS	CD54HCT4075F	RCA		DIP	123- 22
57♦	40-75B	CMOS	CD54HC4075F	RCA		DIP	123- 21
58♦	40-75B	CMOS	CD74HCT4075E	RCA		DIP	123- 5
59♦	40-75B	CMOS	CD74HCT4075M	RCA	*	SO	123- 6
60♦	40-75B	CMOS	CD74HC4075E	RCA		DIP	123- 3
61♦	40-75B	CMOS	CD74HC4075M	RCA	*	SO	123- 4
62♦	40-75B	CMOS	HCC4075BD	SGSI		DIP	123- 76
63♦	40-75B	CMOS	HCC4075BF	SGSI		DIP	123- 77
64♦	40-75B	CMOS	HCC4075BK	SGSI	*	FP	123- 78
65♦	40-75B	CMOS	HCF4075BE	SGSI		DIP	123- 79
66♦	40-75B	CMOS	HCF4075BF	SGSI		DIP	123- 80
67♦	40-75B	CMOS	HEF4075	RTCF		DIP	123- 40
68♦	40-75B	CMOS	HEF4075B	VALG		DIP	123- 10
69♦	40-75B	CMOS	HEF4075BD	MULB		DIP	123- 43
70♦	40-75B	CMOS	HEF4075BD	PHIN		DIP	123- 43
71♦	40-75B	CMOS	HEF4075BD	RTCF		DIP	123- 43
72♦	40-75B	CMOS	HEF4075BD	VALG		DIP	123- 43
73♦	40-75B	CMOS	HEF4075BP	MULB		DIP	123- 44
74♦	40-75B	CMOS	HEF4075BP	PHIN		DIP	123- 44
75♦	40-75B	CMOS	HEF4075BP	RTCF		DIP	123- 44
76♦	40-75B	CMOS	HEF4075BP	VALG		DIP	123- 44
77♦	40-75B	CMOS	HEF4075BPN	SIC		DIP	123- 41
78♦	40-75B	CMOS	HEF4075BT	MULB	*	SO	123- 45
79♦	40-75B	CMOS	HEF4075BT	PHIN	*	SO	123- 45
80♦	40-75B	CMOS	HEF4075BT	RTCF	*	SO	123- 45
81♦	40-75B	CMOS	HEF4075BT	VALG	*	SO	123- 45
82♦	40-75B	CMOS	HEF4075BTD	SIC	*	SO	123- 42
83♦	40-75B	CMOS	LC4075B	TSAJ		DIP	123- 73
84♦	40-75B	CMOS	MB84075B	FCAJ		DIP	123- 53
85♦	40-75B	CMOS	MB84075BM	FCAJ		DIP	123- 54
86♦	40-75B	CMOS	MC14075BAL	MOTA		DIP	123- 55
87▼	40-75B	CMOS	MC14075BALD	MOTA		DIP	123- 56
88▼	40-75B	CMOS	MC14075BALDS	MOTA		DIP	123- 57
89▼	40-75B	CMOS	MC14075BALS	MOTA		DIP	123- 58
90♦	40-75B	CMOS	MC14075BCL	MOTA		DIP	123- 59
91▼	40-75B	CMOS	MC14075BCLD	MOTA		DIP	123- 60
92▼	40-75B	CMOS	MC14075BCLDS	MOTA		DIP	123- 61
93▼	40-75B	CMOS	MC14075BCLS	MOTA		DIP	123- 62
94♦	40-75B	CMOS	MC14075BCP	MOTA		DIP	123- 63
95▼	40-75B	CMOS	MC14075BCPD	MOTA		DIP	123- 64
96▼	40-75B	CMOS	MC14075BCPDS	MOTA		DIP	123- 65
97▼	40-75B	CMOS	MC14075BCPS	MOTA		DIP	123- 66
98▼	40-75B	CMOS	MC14075BD	MOTA		DIP	123- 67
99♦	40-75B	CMOS	MC54HC4075J	MOTA		DIP	123- 11
100♦	40-75B	CMOS	MC74HC4075J	MOTA		DIP	123- 12
101♦	40-75B	CMOS	MC74HC4075N	MOTA		DIP	123- 13
102♦	40-75B	CMOS	MM54HC4075J	NSC		DIP	123- 23
103♦	40-75B	CMOS	MM74HC4075J	NSC		DIP	123- 14
104♦	40-75B	CMOS	MM74HC4075N	NSC		DIP	123- 15
105♦	40-75B	CMOS	MN4075B	MATJ		DIP	123- 50
106♦	40-75B	CMOS	MSM4075	OKIJ		DIP	123- 81
107♦	40-75B	CMOS	M4075BP	MITJ		DIP	123- 74
108♦	40-75B	CMOS	SCL4075B	SSS		DIP	123- 68
109▼	40-75B	CMOS	SN74HC4075D	TII	*	SO	123- 17
110♦	40-75B	CMOS	SN74HC4075N	TII		DIP	123- 18

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
111♦	40-75B	CMOS	TC4075BP	IMTM		DIP	123- 75
112♦	40-75B	CMOS	TC4075BP	TOSJ		DIP	123- 75
113♦	40-75B	CMOS	UPD4075BG	NECJ	*	SO	123- 69
114♦	40-75B	CMOS	4075BDC	FSC		DIP	123- 35
115♦	40-75B	CMOS	4075BDM	FSC		DIP	123- 36
116♦	40-75B	CMOS	4075BFC	FSC	*	FP	123- 37
117♦	40-75B	CMOS	4075BFM	FSC	*	FP	123- 38
118♦	40-75B	CMOS	4075BPC	FSC		DIP	123- 39
119♦	40-75B	CMOS	883C4075B	SSS		DIP	123- 51
120	40H076	CMOS	TC40H076AF	TOSJ	*	SO	68- 89
121	40H076	CMOS	TC40H076AP	IMTM		DIP	68- 90
122	40H076	CMOS	TC40H076AP	TOSJ		DIP	68- 90
123	40H076	CMOS	TC40H076F	TOSJ	*	SO	68- 91
124	40H076	CMOS	TC40H076P	IMTM		DIP	68- 92
125	40H076	CMOS	TC40H076P	TOSJ		DIP	68- 92
126▼	40-77	CMOS	SN74HC7266D	TII	*	SO	90- 78
127▼	40-77	CMOS	SN74HC7266N	TII		DIP	90- 79
128♦	40-77	CMOS	74HC7266D	SIC	*	FP	90- 67
129♦	40-77	CMOS	74HC7266N	SIC		DIP	90- 68
130♦	40-78	CMOS	M54HC4078F1(A)	SGSI		DIP	119- 45
131♦	40-78	CMOS	M74HC4078B1(A)	SGSI		DIP	119- 52
132♦	40-78	CMOS	M74HC4078F1(A)	SGSI		DIP	119- 54
133♦	40-78	CMOS	M74HC4078P	MITJ		DIP	119- 44
134▼	40-78	CMOS	TC74HC4078F	TOSA	*	SO	119- 50
135▼	40-78	CMOS	TC74HC4078P(A)	TOSA		DIP	119- 51
136♦	40-78B	CMOS	BCL4078B	SSS		DIP	119- 70
137♦	40-78B	CMOS	CD4078BD	RCA		DIP	119- 87
138♦	40-78B	CMOS	CD4078BE	RCA		DIP	119- 88
139♦	40-78B	CMOS	CD4078BF	RCA		DIP	119- 89
140♦	40-78B	CMOS	HCC4078BD	SGSI		DIP	119- 96
141♦	40-78B	CMOS	HCC4078BF	SGSI		DIP	119- 97
142♦	40-78B	CMOS	HCC4078BK	SGSI	*	FP	119- 98
143♦	40-78B	CMOS	HCF4078BE	SGSI		DIP	119- 99
144♦	40-78B	CMOS	HCF4078BF	SGSI		DIP	119-100
145♦	40-78B	CMOS	HEF4078	RTCF		DIP	119- 57
146♦	40-78B	CMOS	HEF4078BD	MULB		DIP	119- 65
147♦	40-78B	CMOS	HEF4078BD	PHIN		DIP	119- 65
148♦	40-78B	CMOS	HEF4078BD	RTCF		DIP	119- 65
149♦	40-78B	CMOS	HEF4078BD	VALG		DIP	119- 65
150♦	40-78B	CMOS	HEF4078BP	MULB		DIP	119- 66
151♦	40-78B	CMOS	HEF4078BP	PHIN		DIP	119- 66
152♦	40-78B	CMOS	HEF4078BP	RTCF		DIP	119- 66
153♦	40-78B	CMOS	HEF4078BP	VALG		DIP	119- 66
154♦	40-78B	CMOS	HEF4078BPN	SIC		DIP	119- 58
155♦	40-78B	CMOS	HEF4078BT	MULB	*	SO	119- 67
156♦	40-78B	CMOS	HEF4078BT	PHIN	*	SO	119- 67
157♦	40-78B	CMOS	HEF4078BT	RTCF	*	SO	119- 67
158♦	40-78B	CMOS	HEF4078BT	VALG	*	SO	119- 67
159♦	40-78B	CMOS	HEF4078BTD	SIC	*	SO	119- 59
160♦	40-78B	CMOS	HEF4078P	MULB		DIP	119- 56
161♦	40-78B	CMOS	HEF4078P	PHIN		DIP	119- 56
162♦	40-78B	CMOS	HEF4078P	VALG		DIP	119- 56
163♦	40-78B	CMOS	MB84078B	FCAJ		DIP	119- 71
164♦	40-78B	CMOS	MB84078BM	FCAJ		DIP	119- 72
165♦	40-78B	CMOS	MC14078BAL	MOTA		DIP	119- 73
166▼	40-78B	CMOS	MC14078BALD	MOTA		DIP	119- 74
167▼	40-78B	CMOS	MC14078BALDS	MOTA		DIP	119- 75
168▼	40-78B	CMOS	MC14078BALS	MOTA		DIP	119- 76
169♦	40-78B	CMOS	MC14078BCL	MOTA		DIP	119- 77
170▼	40-78B	CMOS	MC14078BCLD	MOTA		DIP	119- 78
171▼	40-78B	CMOS	MC14078BCLDS	MOTA		DIP	119- 79
172▼	40-78B	CMOS	MC14078BCLS	MOTA		DIP	119- 80
173♦	40-78B	CMOS	MC14078BCP	MOTA		DIP	119- 81
174▼	40-78B	CMOS	MC14078BCPD	MOTA		DIP	119- 82
175▼	40-78B	CMOS	MC14078BCPDS	MOTA		DIP	119- 83
176▼	40-78B	CMOS	MC14078BCPS	MOTA		DIP	119- 84
177▼	40-78B	CMOS	MC14078BD	MOTA		DIP	119- 85
178♦	40-78B	CMOS	MM54HC4078J	NSC		DIP	119- 55
179♦	40-78B	CMOS	MM74HC4078J	NSC		DIP	119- 46
180♦	40-78B	CMOS	MM74HC4078N	NSC		DIP	119- 47
181♦	40-78B	CMOS	MN4078B	MATJ		DIP	119- 68
182♦	40-78B	CMOS	MSM4078	OKIJ		DIP	119- 91
183♦	40-78B	CMOS	MSM4078RS	OKIJ		DIP	119- 95
184♦	40-78B	CMOS	M4078BP	MITJ		DIP	119- 92
185♦	40-78B	CMOS	SCL4078B	SSS		DIP	119- 86
186▼	40-78B	CMOS	SN74HC4078AD	TII	*	SO	119- 48
187▼	40-78B	CMOS	SN74HC4078AN	TII		DIP	119- 49
188♦	40-78B	CMOS	TC4078BP	IMTM		DIP	119- 93
189♦	40-78B	CMOS	TC4078BP	TOSJ		DIP	119- 93
190♦	40-78B	CMOS	4078BDC	FSC		DIP	119- 60
191♦	40-78B	CMOS	4078BDM	FSC		DIP	119- 61
192♦	40-78B	CMOS	4078BFC	FSC	*	FP	119- 62
193♦	40-78B	CMOS	4078BFM	FSC	*	FP	119- 63
194♦	40-78B	CMOS	4078BPC	FSC		DIP	119- 64
195♦	40-78B	CMOS	883C4078B	SSS		DIP	119- 69
196♦	40-81	CMOS	UPD4081BG	NECJ	*	SO	78- 95
197♦	40-81B	CMOS	BCL4081B	SSS		DIP	78- 72
198▼	40-81B	CMOS	BU4081B	RHM		DIP	76- 20
199▼	40-81B	CMOS	BU4081BF	RHM	*	SO	76- 21
200♦	40-81B	CMOS	CD4081BCJ	NSC		DIP	78- 67
201♦	40-81B	CMOS	CD4081BCN	NSC		DIP	78- 68
202♦	40-81B	CMOS	CD4081BD	RCA		DIP	78- 90
203♦	40-81B	CMOS	CD4081BE	RCA		DIP	78- 91
204♦	40-81B	CMOS	CD4081BF	RCA		DIP	78- 92
205♦	40-81B	CMOS	CD4081BMJ	NSC		DIP	78- 69
206♦	40-81B	CMOS	CD4081BMW	NSC	*	FP	78- 70
207♦	40-81B	CMOS	HCC4081BD	SGSI		DIP	78- 98
208♦	40-81B	CMOS	HCC4081BF	SGSI		DIP	78- 99
209♦	40-81B	CMOS	HCC4081BK	SGSI	*	QSM	78-100
210♦	40-81B	CMOS	HCF4081BE	SGSI		DIP	78-101
211♦	40-81B	CMOS	HCF4081BF	SGSI		DIP	78-102
212♦	40-81B	CMOS	HEF4081	RTCF		DIP	78- 51
213♦	40-81B	CMOS	HEF4081BD	MULB		DIP	78- 55
214♦	40-81B	CMOS	HEF4081BD	PHIN		DIP	78- 55
215♦	40-81B	CMOS	HEF4081BD	RTCF		DIP	78- 55
216♦	40-81B	CMOS	HEF4081BD	VALG		DIP	78- 55
217♦	40-81B	CMOS	HEF4081BP	MULB		DIP	78- 56
218♦	40-81B	CMOS	HEF4081BP	PHIN		DIP	78- 56
219♦	40-81B	CMOS	HEF4081BP	RTCF		DIP	78- 56
220♦	40-81B	CMOS	HEF4081BP	VALG		DIP	78- 56

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG SMD	PKG TYPE	PAGE & LINE
1♦	40-81B	CMOS	HEF4081BPN	SIC		DIP	78- 52
2♦	40-81B	CMOS	HEF4081BT	MULB	*	SO	78- 57
3♦	40-81B	CMOS	HEF4081BT	PHIN	*	SO	78- 57
4♦	40-81B	CMOS	HEF4081BT	RTCF	*	SO	78- 57
5♦	40-81B	CMOS	HEF4081BT	VALG	*	SO	78- 57
6♦	40-81B	CMOS	HEF4081BTD	SIC	*	SO	78- 53
7♦	40-81B	CMOS	HEF4081P	MULB		DIP	78- 58
8♦	40-81B	CMOS	HEF4081P	PHIN		DIP	78- 58
9♦	40-81B	CMOS	HEF4081P	VALG		DIP	78- 58
10♦	40-81B	CMOS	LC4081B	TSAJ		DIP	78- 94
11♦	40-81B	CMOS	LC4081BM	TSAJ	*	SO	78- 54
12♦	40-81B	CMOS	MB84081B	FCAJ		DIP	78- 75
13♦	40-81B	CMOS	MB84081BM	FCAJ		DIP	78- 76
14♦	40-81B	CMOS	MC14081BAL	MOTA		DIP	78- 77
15▼	40-81B	CMOS	MC14081BALD	MOTA		DIP	78- 78
16▼	40-81B	CMOS	MC14081BALDS	MOTA		DIP	78- 79
17▼	40-81B	CMOS	MC14081BALS	MOTA		DIP	78- 80
18♦	40-81B	CMOS	MC14081BCL	MOTA		DIP	78- 81
19▼	40-81B	CMOS	MC14081BCLD	MOTA		DIP	78- 82
20▼	40-81B	CMOS	MC14081BCLDS	MOTA		DIP	78- 83
21▼	40-81B	CMOS	MC14081BCLS	MOTA		DIP	78- 84
22♦	40-81B	CMOS	MC14081BCP	MOTA		DIP	78- 85
23▼	40-81B	CMOS	MC14081BCPD	MOTA		DIP	78- 86
24▼	40-81B	CMOS	MC14081BCPDS	MOTA		DIP	78- 87
25▼	40-81B	CMOS	MC14081BCPS	MOTA		DIP	78- 88
26▼	40-81B	CMOS	MC14081BD	MOTA		DIP	78- 89
27♦	40-81B	CMOS	MN4081B	MATJ		DIP	78- 65
28♦	40-81B	CMOS	MSM4081	OKIJ		DIP	78-103
29♦	40-81B	CMOS	MSM4081RS	OKIJ		DIP	78-104
30♦	40-81B	CMOS	M4081BP	MITJ		DIP	78- 96
31♦	40-81B	CMOS	SCL4081B	SSS		DIP	78- 93
32♦	40-81B	CMOS	TC4081BP	IMTM		DIP	78- 97
33♦	40-81B	CMOS	TC4081BP	TOSJ		DIP	78- 97
34♦	40-81B	CMOS	4081BDC	FSC		DIP	78- 46
35♦	40-81B	CMOS	4081BDM	FSC		DIP	78- 47
36♦	40-81B	CMOS	4081BFC	FSC	*	FP	78- 48
37♦	40-81B	CMOS	4081BFM	FSC	*	FP	78- 49
38♦	40-81B	CMOS	4081BPC	FSC		DIP	78- 50
39♦	40-81B	CMOS	883C4081B	SSS		DIP	78- 71
40♦	40-82	CMOS	UPD4082BG	NECJ	*	SO	83- 22
41♦	40-82B	CMOS	BCL4082B	SSS		DIP	83- 6
42♦	40-82B	CMOS	CD4082BD	RCA		DIP	83- 23
43♦	40-82B	CMOS	CD4082BE	RCA		DIP	83- 24
44♦	40-82B	CMOS	CD4082BF	RCA		DIP	83- 25
45♦	40-82B	CMOS	HCC4082BD	SGSI		DIP	83- 30
46♦	40-82B	CMOS	HCC4082BF	SGSI		DIP	83- 31
47♦	40-82B	CMOS	HCC4082BK	SGSI	*	QSM	83- 32
48♦	40-82B	CMOS	HCF4082BE	SGSI		DIP	83- 33
49♦	40-82B	CMOS	HCF4082BF	SGSI		DIP	83- 34
50♦	40-82B	CMOS	HEF4082	RTCF		DIP	82-106
51♦	40-82B	CMOS	HEF4082BD	MULB		DIP	83- 1
52♦	40-82B	CMOS	HEF4082BD	PHIN		DIP	83- 1
53♦	40-82B	CMOS	HEF4082BD	RTCF		DIP	83- 1
54♦	40-82B	CMOS	HEF4082BD	VALG		DIP	83- 1
55♦	40-82B	CMOS	HEF4082BP	MULB		DIP	83- 2
56♦	40-82B	CMOS	HEF4082BP	PHIN		DIP	83- 2
57♦	40-82B	CMOS	HEF4082BP	RTCF		DIP	83- 2
58♦	40-82B	CMOS	HEF4082BP	VALG		DIP	83- 2
59♦	40-82B	CMOS	HEF4082BPN	SIC		DIP	82-107
60♦	40-82B	CMOS	HEF4082BT	MULB	*	SO	83- 3
61♦	40-82B	CMOS	HEF4082BT	PHIN	*	SO	83- 3
62♦	40-82B	CMOS	HEF4082BT	RTCF	*	SO	83- 3
63♦	40-82B	CMOS	HEF4082BT	VALG	*	SO	83- 3
64♦	40-82B	CMOS	HEF4082BTD	SIC	*	SO	82-108
65♦	40-82B	CMOS	HEF4082P	MULB		DIP	82- 84
66♦	40-82B	CMOS	HEF4082P	PHIN		DIP	82- 84
67♦	40-82B	CMOS	HEF4082P	VALG		DIP	82- 84
68♦	40-82B	CMOS	LC4082B	TSAJ		DIP	83- 4
69♦	40-82B	CMOS	MB84082B	FCAJ		DIP	83- 7
70♦	40-82B	CMOS	MB84082BM	FCAJ		DIP	83- 8
71♦	40-82B	CMOS	MC14082BAL	MOTA		DIP	83- 9
72▼	40-82B	CMOS	MC14082BALD	MOTA		DIP	83- 10
73▼	40-82B	CMOS	MC14082BALDS	MOTA		DIP	83- 11
74▼	40-82B	CMOS	MC14082BALS	MOTA		DIP	83- 12
75♦	40-82B	CMOS	MC14082BCL	MOTA		DIP	83- 13
76▼	40-82B	CMOS	MC14082BCLD	MOTA		DIP	83- 14
77▼	40-82B	CMOS	MC14082BCLDS	MOTA		DIP	83- 15
78▼	40-82B	CMOS	MC14082BCLS	MOTA		DIP	83- 16
79♦	40-82B	CMOS	MC14082BCP	MOTA		DIP	83- 17
80▼	40-82B	CMOS	MC14082BCPD	MOTA		DIP	83- 18
81▼	40-82B	CMOS	MC14082BCPDS	MOTA		DIP	83- 19
82▼	40-82B	CMOS	MC14082BCPS	MOTA		DIP	83- 20
83▼	40-82B	CMOS	MC14082BD	MOTA		DIP	83- 21
84♦	40-82B	CMOS	MSM4082	OKIJ		DIP	83- 28
85♦	40-82B	CMOS	MSM4082RS	OKIJ		DIP	83- 35
86♦	40-82B	CMOS	M4082BP	MITJ		DIP	83- 27
87♦	40-82B	CMOS	SCL4082B	SSS		DIP	83- 26
88♦	40-82B	CMOS	TC4082BP	IMTM		DIP	83- 29
89♦	40-82B	CMOS	TC4082BP	TOSJ		DIP	83- 29
90♦	40-82B	CMOS	4082BDC	FSC		DIP	82- 59
91♦	40-82B	CMOS	4082BDM	FSC		DIP	82- 60
92♦	40-82B	CMOS	4082BFC	FSC	*	FP	82- 61
93♦	40-82B	CMOS	4082BFM	FSC	*	FP	82- 62
94♦	40-82B	CMOS	4082BPC	FSC		DIP	82- 63
95♦	40-82B	CMOS	883C4082B	SSS		DIP	83- 5
96♦	40-85B	CMOS	BCL4085B	SSS		DIP	85- 44
97♦	40-85B	CMOS	CD4085BD	RCA		DIP	85- 45
98♦	40-85B	CMOS	CD4085BE	RCA		DIP	85- 46
99♦	40-85B	CMOS	CD4085BF	RCA		DIP	85- 47
100♦	40-85B	CMOS	HCC4085BD	SGSI		DIP	85- 48
101♦	40-85B	CMOS	HCC4085BF	SGSI		DIP	85- 49
102♦	40-85B	CMOS	HCC4085BK	SGSI	*	FP	85- 50
103♦	40-85B	CMOS	HCF4085BE	SGSI		DIP	85- 51
104♦	40-85B	CMOS	HCF4085BF	SGSI		DIP	85- 52
105♦	40-85B	CMOS	HEF4085	RTCF		DIP	85- 53
106♦	40-85B	CMOS	HEF4085BD	MULB		DIP	85- 61
107♦	40-85B	CMOS	HEF4085BD	PHIN		DIP	85- 61
108♦	40-85B	CMOS	HEF4085BD	RTCF		DIP	85- 61
109♦	40-85B	CMOS	HEF4085BD	VALG		DIP	85- 61
110♦	40-85B	CMOS	HEF4085BP	MULB		DIP	85- 62
111♦	40-85B	CMOS	HEF4085BP	PHIN		DIP	85- 62
112♦	40-85B	CMOS	HEF4085BP	RTCF		DIP	85- 62
113♦	40-85B	CMOS	HEF4085BP	VALG		DIP	85- 62
114♦	40-85B	CMOS	HEF4085BPN	SIC		DIP	85- 54
115♦	40-85B	CMOS	HEF4085BT	MULB	*	SO	85- 63
116♦	40-85B	CMOS	HEF4085BT	PHIN	*	SO	85- 63
117♦	40-85B	CMOS	HEF4085BT	RTCF	*	SO	85- 63
118♦	40-85B	CMOS	HEF4085BT	VALG	*	SO	85- 63
119♦	40-85B	CMOS	HEF4085BTD	SIC	*	SO	85- 55
120♦	40-85B	CMOS	HEF4085P	MULB		DIP	85- 56
121♦	40-85B	CMOS	HEF4085P	PHIN		DIP	85- 56
122♦	40-85B	CMOS	HEF4085P	VALG		DIP	85- 56
123♦	40-85B	CMOS	MSM4085	OKIJ		DIP	85- 57
124♦	40-85B	CMOS	MSM4085RS	OKIJ		DIP	85- 58
125♦	40-85B	CMOS	SCL4085B	SSS		DIP	85- 59
126♦	40-85B	CMOS	TC4085BP	IMTM		DIP	85- 60
127♦	40-85B	CMOS	TC4085BP	TOSJ		DIP	85- 60
128♦	40-85B	CMOS	4085BDC	FSC		DIP	85- 39
129♦	40-85B	CMOS	4085BDM	FSC		DIP	85- 40
130♦	40-85B	CMOS	4085BFC	FSC	*	FP	85- 41
131♦	40-85B	CMOS	4085BFM	FSC	*	FP	85- 42
132♦	40-85B	CMOS	4085BPC	FSC		DIP	85- 43
133♦	40-85B	CMOS	883C4085B	SSS		DIP	85- 38
134♦	40-86B	CMOS	BCL4086B	SSS		DIP	86- 94
135♦	40-86B	CMOS	CD4086BD	RCA		DIP	86- 95
136♦	40-86B	CMOS	CD4086BE	RCA		DIP	86- 96
137♦	40-86B	CMOS	CD4086BF	RCA		DIP	86- 97
138♦	40-86B	CMOS	HCC4086BD	SGSI		DIP	86-106
139♦	40-86B	CMOS	HCC4086BF	SGSI		DIP	86-107
140♦	40-86B	CMOS	HCC4086BK	SGSI	*	FP	86-108
141♦	40-86B	CMOS	HCF4086BE	SGSI		DIP	86-109
142♦	40-86B	CMOS	HCF4086BF	SGSI		DIP	86-110
143♦	40-86B	CMOS	HEF4086	RTCF		DIP	87- 1
144♦	40-86B	CMOS	HEF4086B	VALG		DIP	87- 2
145♦	40-86B	CMOS	HEF4086BD	MULB		DIP	87- 30
146♦	40-86B	CMOS	HEF4086BD	PHIN		DIP	87- 30
147♦	40-86B	CMOS	HEF4086BD	RTCF		DIP	87- 30
148♦	40-86B	CMOS	HEF4086BD	VALG		DIP	87- 30
149♦	40-86B	CMOS	HEF4086BP	MULB		DIP	87- 31
150♦	40-86B	CMOS	HEF4086BP	PHIN		DIP	87- 31
151♦	40-86B	CMOS	HEF4086BP	RTCF		DIP	87- 31
152♦	40-86B	CMOS	HEF4086BP	VALG		DIP	87- 31
153♦	40-86B	CMOS	HEF4086BPN	SIC		DIP	87- 3
154♦	40-86B	CMOS	HEF4086BT	MULB	*	SO	87- 32
155♦	40-86B	CMOS	HEF4086BT	PHIN	*	SO	87- 32
156♦	40-86B	CMOS	HEF4086BT	RTCF	*	SO	87- 32
157♦	40-86B	CMOS	HEF4086BT	VALG	*	SO	87- 32
158♦	40-86B	CMOS	HEF4086BTD	SIC	*	SO	87- 4
159♦	40-86B	CMOS	HEF4086P	PHIN		DIP	87- 5
160♦	40-86B	CMOS	MSM4086	OKIJ		DIP	87- 9
161♦	40-86B	CMOS	MSM4086RS	OKIJ		DIP	87- 10
162♦	40-86B	CMOS	SCL4086B	SSS		DIP	87- 17
163♦	40-86B	CMOS	TC4086BP	IMTM		DIP	87- 29
164♦	40-86B	CMOS	TC4086BP	TOSJ		DIP	87- 29
165♦	40-86B	CMOS	4086BDC	FSC		DIP	86- 81
166♦	40-86B	CMOS	4086BDM	FSC		DIP	86- 82
167♦	40-86B	CMOS	4086BFC	FSC	*	FP	86- 83
168♦	40-86B	CMOS	4086BFM	FSC	*	FP	86- 84
169♦	40-86B	CMOS	4086BPC	FSC		DIP	86- 85
170♦	40-86B	CMOS	883C4086B	SSS		DIP	86- 80
171♦	40-89B	CMOS	CD4089BCJ	NSC		DIP	197- 76
172♦	40-89B	CMOS	CD4089BCN	NSC		DIP	197- 77
173	40-89B	CMOS	CD4089BD	RCA		DIP	197- 56
174	40-89B	CMOS	CD4089BE	RCA		DIP	197- 57
175	40-89B	CMOS	CD4089BF	RCA		DIP	197- 58
176♦	40-89B	CMOS	CD4089BMJ	NSC		DIP	197- 78
177	40-89B	CMOS	CD4089BMW	NSC	*	FP	197- 79
178♦	40-89B	CMOS	HCC4089BD	SGSI		DIP	197- 64
179♦	40-89B	CMOS	HCC4089BF	SGSI		DIP	197- 65
180	40-89B	CMOS	HCC4089BK	SGSI	*	QSM	197- 66
181♦	40-89B	CMOS	HCF4089BE	SGSI		DIP	197- 67
182♦	40-89B	CMOS	HCF4089BF	SGSI		DIP	197- 68
183	40-95B	CMOS	CD4095BD	RCA		DIP	65- 16
184	40-95B	CMOS	CD4095BE	RCA		DIP	65- 17
185	40-95B	CMOS	CD4095BF	RCA		DIP	65- 18
186	40-95B	CMOS	HCC4095BD	SGSI		DIP	64-104
187	40-95B	CMOS	HCC4095BF	SGSI		DIP	64-105
188	40-95B	CMOS	HCC4095BK	SGSI	*	FP	64-106
189	40-95B	CMOS	HCF4095BE	SGSI		DIP	64-110
190	40-95B	CMOS	HCF4095BF	SGSI		DIP	65- 1
191	40-96B	CMOS	CD4096BD	RCA		DIP	65- 19
192	40-96B	CMOS	CD4096BE	RCA		DIP	65- 20
193	40-96B	CMOS	CD4096BF	RCA		DIP	65- 21
194	40-98	CMOS	CD4098BD	RCA		DIP	189- 90
195	40-98	CMOS	CD4098BE	RCA		DIP	189- 91
196	40-98	CMOS	CD4098BF	RCA		DIP	189- 92
197	40-98	CMOS	HCC4098BD	SGSI		DIP	190- 3
198	40-98	CMOS	HCC4098BF	SGSI		DIP	190- 4
199	40-98	CMOS	HCC4098BK	SGSI	*	FP	190- 5
200	40-98	CMOS	HCF4098BE	SGSI		DIP	190- 6
201	40-98	CMOS	HCF4098BF	SGSI		DIP	190- 7
202♦	40-99B	CMOS	BCL4099B	SSS		DIP	244- 74
203♦	40-99B	CMOS	CD4099BCJ	NSC		DIP	241- 15
204♦	40-99B	CMOS	CD4099BCN	NSC		DIP	241- 16
205♦	40-99B	CMOS	CD4099BD	RCA		DIP	241- 17
206♦	40-99B	CMOS	CD4099BE	RCA		DIP	241- 18
207♦	40-99B	CMOS	CD4099BF	RCA		DIP	241- 19
208♦	40-99B	CMOS	CD4099BMJ	NSC		DIP	241- 20
209♦	40-99B	CMOS	CD4099BMW	NSC	*	FP	241- 21
210♦	40-99B	CMOS	HCC4099BD	SGSI		DIP	240- 92
211♦	40-99B	CMOS	HCC4099BF	SGSI		DIP	240- 93
212♦	40-99B	CMOS	HCC4099BK	SGSI	*	QSM	240- 94
213♦	40-99B	CMOS	HCF4099BE	SGSI		DIP	240- 95
214♦	40-99B	CMOS	HCF4099BF	SGSI		DIP	240- 96
215♦	40-99B	CMOS	MC14099BAL	MOTA		DIP	240- 97
216▼	40-99B	CMOS	MC14099BALD	MOTA		DIP	240- 98
217▼	40-99B	CMOS	MC14099BALDS	MOTA		DIP	240- 99
218▼	40-99B	CMOS	MC14099BALS	MOTA		DIP	240-100
219♦	40-99B	CMOS	MC14099BCL	MOTA		DIP	240-101
220▼	40-99B	CMOS	MC14099BCLD	MOTA		DIP	240-102

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1▼	40-99B	CMOS	MC14099BCLDS	MOTA		DIP	240-103
2▼	40-99B	CMOS	MC14099BCLS	MOTA		DIP	240-104
3♦	40-99B	CMOS	MC14099BCP	MOTA		DIP	240-105
4▼	40-99B	CMOS	MC14099BCPD	MOTA		DIP	240-106
5▼	40-99B	CMOS	MC14099BCPDS	MOTA		DIP	240-107
6▼	40-99B	CMOS	MC14099BCPS	MOTA		DIP	240-108
7▼	40-99B	CMOS	MC14099BDW	MOTA		DIP	240-109
8♦	40-99B	CMOS	M4099BP	MITJ		DIP	233- 59
9♦	40-99B	CMOS	SCL4099B	SSS		DIP	244- 75
10♦	40-99B	CMOS	TC4099BP	IMTM		DIP	241- 48
11♦	40-99B	CMOS	TC4099BP	TOSJ		DIP	241- 48
12♦	40-99B	CMOS	883C4099B	SSS		DIP	244- 73
13	40-101B	CMOS	CD40101BD	RCA		DIP	227- 68
14	40-101B	CMOS	CD40101BE	RCA		DIP	227- 69
15	40-101B	CMOS	CD40101BF	RCA		DIP	227- 70
16♦	40-101B	CMOS	HCC40101BD	SGSI		DIP	227- 63
17♦	40-101B	CMOS	HCC40101BF	SGSI		DIP	227- 64
18	40-101B	CMOS	HCC40101BK	SGSI	*	QSM	227- 65
19♦	40-101B	CMOS	HCF40101BE	SGSI		DIP	227- 66
20♦	40-101B	CMOS	HCF40101BF	SGSI		DIP	227- 67
21♦	40-101B	TTL	N82S62A	AMD		DIP	226- 80
22♦	40-101B	TTL	N82S62F	AMD		DIP	226- 92
23♦	40-101B	TTL	N82S62F	MULB		DIP	226- 92
24♦	40-101B	TTL	N82S62F	PHIN		DIP	226- 92
25♦	40-101B	TTL	N82S62F	VALG		DIP	226- 92
26♦	40-101B	TTL	N82S62N	MULB		DIP	226- 93
27♦	40-101B	TTL	N82S62N	PHIN		DIP	226- 93
28♦	40-101B	TTL	N82S62N	SIC		DIP	226- 93
29♦	40-101B	TTL	N82S62N	VALG		DIP	226- 93
30♦	40-101B	TTL	N8262F	MULB		DIP	227- 8
31♦	40-101B	TTL	N8262F	PHIN		DIP	227- 8
32♦	40-101B	TTL	N8262F	VALG		DIP	227- 8
33♦	40-101B	TTL	N8262N	MULB		DIP	227- 9
34♦	40-101B	TTL	N8262N	PHIN		DIP	227- 9
35♦	40-101B	TTL	N8262N	SIC		DIP	227- 9
36♦	40-101B	TTL	N8262N	VALG		DIP	227- 9
37♦	40-101B	TTL	S82S62A	MULB		DIP	226- 81
38♦	40-101B	TTL	S82S62F	AMD		DIP	226- 82
39♦	40-101B	TTL	S82S62F	MULB		DIP	226- 82
40♦	40-101B	TTL	S8262F	MULB		DIP	227- 10
41♦	40-101B	TTL	S8262F	PHIN		DIP	227- 10
42♦	40-101B	TTL	S8262F	SIC		DIP	227- 10
43♦	40-101B	TTL	S8262F	VALG		DIP	227- 10
44	40-101B	TTL	S8262W	MULB	*	FP	227- 11
45	40-101B	TTL	S8262W	PHIN	*	FP	227- 11
46	40-101B	TTL	S8262W	SIC	*	FP	227- 11
47	40-101B	TTL	S8262W	VALG	*	FP	227- 11
48♦	40-101B	TTL	93S62DC	FSC		DIP	226- 86
49♦	40-101B	TTL	93S62DM	FSC		DIP	226- 87
50♦	40-101B	TTL	93S62FM	FSC	*	FP	226- 88
51♦	40-101B	TTL	93S62PC	FSC		DIP	226- 89
52♦	40-102	CMOS	CD54HCT40102F	RCA		DIP	177- 12
53♦	40-102	CMOS	CD54HC40102F	RCA		DIP	177- 13
54♦	40-102	CMOS	CD74HCT40102E	RCA		DIP	182- 57
55♦	40-102	CMOS	CD74HCT40102M	RCA	*	SO	182- 58
56♦	40-102	CMOS	CD74HC40102E	RCA		DIP	182- 59
57♦	40-102	CMOS	CD74HC40102M	RCA	*	SO	182- 60
58♦	40-102	CMOS	PC54HCT40102D(A)	MULB		DIP	177- 14
59♦	40-102	CMOS	PC54HCT40102D(A)	PHIN		DIP	177- 14
60♦	40-102	CMOS	PC54HCT40102D(A)	RTCF		DIP	177- 14
61♦	40-102	CMOS	PC54HCT40102D(A)	VALG		DIP	177- 14
62♦	40-102	CMOS	PC54HC40102D(A)	MULB		DIP	177- 15
63♦	40-102	CMOS	PC54HC40102D(A)	PHIN		DIP	177- 15
64♦	40-102	CMOS	PC54HC40102D(A)	RTCF		DIP	177- 15
65♦	40-102	CMOS	PC54HC40102D(A)	VALG		DIP	177- 15
66♦	40-102	CMOS	PC74HCT40102D(A)	MULB		DIP	182- 63
67♦	40-102	CMOS	PC74HCT40102D(A)	PHIN		DIP	182- 63
68♦	40-102	CMOS	PC74HCT40102D(A)	RTCF		DIP	182- 63
69♦	40-102	CMOS	PC74HCT40102D(A)	VALG		DIP	182- 63
70♦	40-102	CMOS	PC74HCT40102P	MULB		DIP	182- 51
71♦	40-102	CMOS	PC74HCT40102P	PHIN		DIP	182- 51
72♦	40-102	CMOS	PC74HCT40102P	RTCF		DIP	182- 51
73♦	40-102	CMOS	PC74HCT40102P	VALG		DIP	182- 51
74♦	40-102	CMOS	PC74HCT40102T	MULB	*	SO	182- 52
75♦	40-102	CMOS	PC74HCT40102T	PHIN	*	SO	182- 52
76♦	40-102	CMOS	PC74HCT40102T	RTCF	*	SO	182- 52
77♦	40-102	CMOS	PC74HCT40102T	VALG	*	SO	182- 52
78♦	40-102	CMOS	PC74HC40102D(A)	MULB		DIP	182- 64
79♦	40-102	CMOS	PC74HC40102D(A)	PHIN		DIP	182- 64
80♦	40-102	CMOS	PC74HC40102D(A)	RTCF		DIP	182- 64
81♦	40-102	CMOS	PC74HC40102D(A)	VALG		DIP	182- 64
82♦	40-102	CMOS	PC74HC40102P	MULB		DIP	182- 53
83♦	40-102	CMOS	PC74HC40102P	PHIN		DIP	182- 53
84♦	40-102	CMOS	PC74HC40102P	RTCF		DIP	182- 53
85♦	40-102	CMOS	PC74HC40102P	VALG		DIP	182- 53
86♦	40-102	CMOS	PC74HC40102T	MULB	*	SO	182- 54
87♦	40-102	CMOS	PC74HC40102T	PHIN	*	SO	182- 54
88♦	40-102	CMOS	PC74HC40102T	RTCF	*	SO	182- 54
89♦	40-102	CMOS	PC74HC40102T	VALG	*	SO	182- 54
90▼	40-102	CMOS	TC74HC40102P(A)	TOSA		DIP	182- 65
91♦	40-102	CMOS	74HCT40102D	SIC	*	SO	182- 55
92♦	40-102	CMOS	74HCT40102N	SIC		DIP	182- 56
93♦	40-102	CMOS	74HC40102D	SIC	*	SO	182- 61
94♦	40-102	CMOS	74HC40102N	SIC		DIP	182- 62
95♦	40-102B	CMOS	CD40102BD	RCA		DIP	169- 32
96♦	40-102B	CMOS	CD40102BE	RCA		DIP	169- 33
97♦	40-102B	CMOS	CD40102BF	RCA		DIP	169- 34
98♦	40-102B	CMOS	HCC40102BD	SGSI		DIP	169- 22
99♦	40-102B	CMOS	HCC40102BF	SGSI		DIP	169- 23
100♦	40-102B	CMOS	HCC40102BK	SGSI	*	QSM	169- 24
101♦	40-102B	CMOS	HCF40102BE	SGSI		DIP	169- 28
102♦	40-102B	CMOS	HCF40102BF	SGSI		DIP	169- 29
103♦	40-102B	MOS	TC40102BP	TOSJ		DIP	169- 38
104♦	40-103	CMOS	CD54HCT40103F	RCA		DIP	169- 39
105♦	40-103	CMOS	CD54HC40103F	RCA		DIP	169- 40
106♦	40-103	CMOS	CD74HCT40103E	RCA		DIP	169- 45
107♦	40-103	CMOS	CD74HCT40103M	RCA	*	SO	169- 46
108♦	40-103	CMOS	CD74HC40103E	RCA		DIP	169- 47
109♦	40-103	CMOS	CD74HC40103M	RCA	*	SO	169- 48
110♦	40-103	CMOS	PC54HCT40103D(A)	MULB		DIP	169- 49
111♦	40-103	CMOS	PC54HCT40103D(A)	PHIN		DIP	169- 49
112♦	40-103	CMOS	PC54HCT40103D(A)	RTCF		DIP	169- 49
113♦	40-103	CMOS	PC54HCT40103D(A)	VALG		DIP	169- 49
114♦	40-103	CMOS	PC54HC40103D(A)	MULB		DIP	169- 51
115♦	40-103	CMOS	PC54HC40103D(A)	PHIN		DIP	169- 51
116♦	40-103	CMOS	PC54HC40103D(A)	RTCF		DIP	169- 51
117♦	40-103	CMOS	PC54HC40103D(A)	VALG		DIP	169- 51
118♦	40-103	CMOS	PC74HCT40103D(A)	MULB		DIP	169- 50
119♦	40-103	CMOS	PC74HCT40103D(A)	PHIN		DIP	169- 50
120♦	40-103	CMOS	PC74HCT40103D(A)	RTCF		DIP	169- 50
121♦	40-103	CMOS	PC74HCT40103D(A)	VALG		DIP	169- 50
122♦	40-103	CMOS	PC74HCT40103P	MULB		DIP	169- 43
123♦	40-103	CMOS	PC74HCT40103P	PHIN		DIP	169- 43
124♦	40-103	CMOS	PC74HCT40103P	RTCF		DIP	169- 43
125♦	40-103	CMOS	PC74HCT40103P	VALG		DIP	169- 43
126♦	40-103	CMOS	PC74HCT40103T	MULB	*	SO	169- 44
127♦	40-103	CMOS	PC74HCT40103T	PHIN	*	SO	169- 44
128♦	40-103	CMOS	PC74HCT40103T	RTCF	*	SO	169- 44
129♦	40-103	CMOS	PC74HCT40103T	VALG	*	SO	169- 44
130♦	40-103	CMOS	PC74HC40103D(A)	MULB		DIP	169- 52
131♦	40-103	CMOS	PC74HC40103D(A)	PHIN		DIP	169- 52
132♦	40-103	CMOS	PC74HC40103D(A)	RTCF		DIP	169- 52
133♦	40-103	CMOS	PC74HC40103D(A)	VALG		DIP	169- 52
134♦	40-103	CMOS	PC74HC40103P	MULB		DIP	169- 41
135♦	40-103	CMOS	PC74HC40103P	PHIN		DIP	169- 41
136♦	40-103	CMOS	PC74HC40103P	RTCF		DIP	169- 41
137♦	40-103	CMOS	PC74HC40103P	VALG		DIP	169- 41
138♦	40-103	CMOS	PC74HC40103T	MULB	*	SO	169- 42
139♦	40-103	CMOS	PC74HC40103T	PHIN	*	SO	169- 42
140♦	40-103	CMOS	PC74HC40103T	RTCF	*	SO	169- 42
141♦	40-103	CMOS	PC74HC40103T	VALG	*	SO	169- 42
142▼	40-103	CMOS	TC74HC40103P(A)	TOSA		DIP	169- 53
143♦	40-103	CMOS	74HCT40103D	SIC	*	SO	168- 10
144♦	40-103	CMOS	74HCT40103N	SIC		DIP	168- 11
145♦	40-103	CMOS	74HC40103D	SIC	*	SO	168- 12
146♦	40-103	CMOS	74HC40103N	SIC		DIP	168- 13
147♦	40-103B	CMOS	CD40103BD	RCA		DIP	169- 35
148♦	40-103B	CMOS	CD40103BE	RCA		DIP	169- 36
149♦	40-103B	CMOS	CD40103BF	RCA		DIP	169- 37
150♦	40-103B	CMOS	HCC40103BD	SGSI		DIP	169- 25
151♦	40-103B	CMOS	HCC40103BF	SGSI		DIP	169- 26
152♦	40-103B	CMOS	HCC40103BK	SGSI	*	QSM	169- 27
153♦	40-103B	CMOS	HCF40103BE	SGSI		DIP	169- 30
154♦	40-103B	CMOS	HCF40103BF	SGSI		DIP	169- 31
155♦	40-103B	MOS	TC40103BP	TOSJ		DIP	167- 67
156	40-107	CMOS	TC40H107AF	TOSJ	*	SO	68- 93
157	40-107	CMOS	TC40H107F	TOSJ	*	SO	68- 95
158♦	40-107B	CMOS	CD40107BD	RCA		DIP	95- 45
159♦	40-373	CMOS	HEF40373B(A)	MULB		DIP	233- 54
160♦	40-373	CMOS	HEF40373B(A)	SIC		DIP	233- 54
161♦	40-373	CMOS	HEF40373BP	MULB		DIP	241- 13
162♦	40-373	CMOS	HEF40373BP	PHIN		DIP	241- 13
163♦	40-373	CMOS	HEF40373BP	RTCF		DIP	241- 13
164♦	40-373	CMOS	HEF40373BP	VALG		DIP	241- 13
165♦	40-373	CMOS	HEF40373BT	MULB	*	SO	241- 14
166♦	40-373	CMOS	HEF40373BT	PHIN	*	SO	241- 14
167♦	40-373	CMOS	HEF40373BT	RTCF	*	SO	241- 14
168♦	40-373	CMOS	HEF40373BT	VALG	*	SO	241- 14
169♦	40-374	CMOS	HEF40374BP	MULB		DIP	58- 94
170♦	40-374	CMOS	HEF40374BP	PHIN		DIP	58- 94
171♦	40-374	CMOS	HEF40374BP	RTCF		DIP	58- 94
172♦	40-374	CMOS	HEF40374BP	VALG		DIP	58- 94
173♦	40-374	CMOS	HEF40374BT	MULB	*	SO	58- 95
174♦	40-374	CMOS	HEF40374BT	PHIN	*	SO	58- 95
175♦	40-374	CMOS	HEF40374BT	RTCF	*	SO	58- 95
176♦	40-374	CMOS	HEF40374BT	VALG	*	SO	58- 95
177♦	40-374	CMOS	IDT54FCT374C	IDT		DIP	64- 34
178♦	40-374	CMOS	IDT54FCT374L	IDT	*	LLCC	64- 35
179♦	40-374	CMOS	IDT74FCT374C	IDT		DIP	64- 36
180♦	40-374	CMOS	IDT74FCT374L	IDT	*	LLCC	64- 37
181♦	40H386	CMOS	UPD4030BG	NECJ	*	SO	94- 41
182	40-583	CMOS	CD54HCT583F(A)	RCA		DIP	199- 41
183	40-583	CMOS	CD54HC583F(A)	RCA		DIP	199- 40
184	40-583	CMOS	CD74HCT583E(A)	RCA		DIP	199- 44
185	40-583	CMOS	CD74HCT583M(A)	RCA	*	SO	199- 45
186	40-583	CMOS	CD74HC583E(A)	RCA		DIP	199- 42
187	40-583	CMOS	CD74HC583M(A)	RCA	*	SO	199- 43
188♦	44-02B	CMOS	BCL4402B	SSS		DIP	118- 87
189♦	44-02B	CMOS	SCL4402B	SSS		DIP	119- 2
190♦	44-02B	CMOS	883C4402B	SSS		DIP	118- 85
191♦	44-04B	CMOS	BCL4404B	SSS		DIP	169- 2
192♦	44-04B	CMOS	SCL4404B	SSS		Can	168-110
193♦	44-04B	CMOS	883C4404B	SSS		DIP	169- 1
194♦	44-11	CMOS	MC14411L	MOTA		DIP	193- 28
195▼	44-11	CMOS	MC14411LD	MOTA		DIP	193- 29
196♦	44-11	CMOS	MC14411P	MOTA		DIP	193- 30
197▼	44-11	CMOS	MC14411PD	MOTA		DIP	193- 31
198♦	44-12B	CMOS	BCL4412B	SSS		DIP	107-101
199♦	44-12B	CMOS	SCL4412B	SSS		DIP	108- 27
200♦	44-12B	CMOS	883C4412B	SSS		DIP	107- 99
201	44-28B	CMOS	BCL4428B	SSS		DIP	125- 11
202	44-28B	CMOS	SCL4428B	SSS		DIP	125- 48
203	44-28B	CMOS	883C4428B	SSS		DIP	125- 10
204	44-45	CMOS	BCL4445B	SSS		DIP	194- 60
205	44-45	CMOS	BCL4527B	SSS		DIP	197- 82
206♦	44-45	CMOS	SCL4445B	SSS		DIP	194- 3
207	44-45	CMOS	883C4445B	SSS		DIP	194- 59
208♦	45-01A	CMOS	MC14501UBAL	MOTA		DIP	94- 94
209▼	45-01A	CMOS	MC14501UBALD	MOTA		DIP	94- 95
210▼	45-01A	CMOS	MC14501UBALDS	MOTA		DIP	94- 96
211▼	45-01A	CMOS	MC14501UBALS	MOTA		DIP	94- 97
212♦	45-01A	CMOS	MC14501UBCL	MOTA		DIP	94- 98
213▼	45-01A	CMOS	MC14501UBCLD	MOTA		DIP	94- 99
214▼	45-01A	CMOS	MC14501UBCLDS	MOTA		DIP	94-100
215▼	45-01A	CMOS	MC14501UBCLS	MOTA		DIP	94-101
216♦	45-01A	CMOS	MC14501UBCP	MOTA		DIP	94-102
217▼	45-01A	CMOS	MC14501UBCPD	MOTA		DIP	94-103
218▼	45-01A	CMOS	MC14501UBCPDS	MOTA		DIP	94-104
219▼	45-01A	CMOS	MC14501UBCPS	MOTA		DIP	94-105
220▼	45-01A	CMOS	MC14501UBD	MOTA		DIP	94-106

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	45-01A	CMOS	TC4501BP	TOSJ		DIP	94-107
2♦	45-06B	CMOS	MC14506BAL	MOTA		DIP	85-108
3♦	45-06B	CMOS	MC14506BCL	MOTA		DIP	85-109
4♦	45-06B	CMOS	MC14506BCP	MOTA		DIP	85-110
5♦	45-08B	CMOS	BCL4508B	SSS		DIP	232- 60
6♦	45-08B	CMOS	CD4508BD	RCA		DIP	232- 65
7♦	45-08B	CMOS	CD4508BE	RCA		DIP	232- 66
8♦	45-08B	CMOS	CD4508BF	RCA		DIP	232- 67
9♦	45-08B	CMOS	HCC4508BD	SGSI		DIP	232- 7
10	45-08B	CMOS	HCC4508BK	SGSI	*	FP	232- 8
11♦	45-08B	CMOS	HCF4508BD	SGSI		DIP	232- 9
12	45-08B	CMOS	HCF4508BE	SGSI		DIP	232- 10
13	45-08B	CMOS	HEF4508	RTCF		DIP	231-106
14♦	45-08B	CMOS	HEF4508BD	MULB		DIP	232- 55
15♦	45-08B	CMOS	HEF4508BD	PHIN		DIP	232- 55
16♦	45-08B	CMOS	HEF4508BD	RTCF		DIP	232- 55
17♦	45-08B	CMOS	HEF4508BD	VALG		DIP	232- 55
18♦	45-08B	CMOS	HEF4508BP	MULB		DIP	232- 56
19♦	45-08B	CMOS	HEF4508BP	PHIN		DIP	232- 56
20♦	45-08B	CMOS	HEF4508BP	RTCF		DIP	232- 56
21♦	45-08B	CMOS	HEF4508BP	VALG		DIP	232- 56
22♦	45-08B	CMOS	HEF4508BPN	SIC		DIP	231-107
23♦	45-08B	CMOS	HEF4508BT	MULB	*	SO	232- 57
24♦	45-08B	CMOS	HEF4508BT	PHIN	*	SO	232- 57
25♦	45-08B	CMOS	HEF4508BT	RTCF	*	SO	232- 57
26♦	45-08B	CMOS	HEF4508BT	VALG	*	SO	232- 57
27♦	45-08B	CMOS	MC14508BAL	MOTA		DIP	232- 17
28▼	45-08B	CMOS	MC14508BALD	MOTA		DIP	232- 18
29▼	45-08B	CMOS	MC14508BALDS	MOTA		DIP	232- 19
30▼	45-08B	CMOS	MC14508BALS	MOTA		DIP	232- 20
31♦	45-08B	CMOS	MC14508BCL	MOTA		DIP	232- 21
32▼	45-08B	CMOS	MC14508BCLD	MOTA		DIP	232- 22
33▼	45-08B	CMOS	MC14508BCLDS	MOTA		DIP	232- 23
34▼	45-08B	CMOS	MC14508BCLS	MOTA		DIP	232- 24
35♦	45-08B	CMOS	MC14508BCP	MOTA		DIP	232- 25
36▼	45-08B	CMOS	MC14508BCPD	MOTA		DIP	232- 26
37▼	45-08B	CMOS	MC14508BCPDS	MOTA		DIP	232- 27
38▼	45-08B	CMOS	MC14508BCPS	MOTA		DIP	232- 28
39♦	45-08B	CMOS	MSM4508RS	OKIJ		DIP	233- 9
40♦	45-08B	CMOS	M4508BP	MITJ		DIP	230- 14
41	45-08B	CMOS	SCL4508B	SSS			233- 1
42♦	45-08B	CMOS	TC4508BP	TOSJ		DIP	232-110
43♦	45-08B	CMOS	883C4508B	SSS		DIP	232- 59
44♦	45-10	CMOS	BCL4510B	SSS		DIP	177-108
45♦	45-10	CMOS	CD54HCT4510F	RCA		DIP	178- 57
46♦	45-10	CMOS	CD54HC4510F	RCA		DIP	178- 86
47♦	45-10	CMOS	CD74HCT4510E	RCA		DIP	178- 87
48♦	45-10	CMOS	CD74HCT4510M	RCA		SO	178- 88
49♦	45-10	CMOS	CD74HC4510E	RCA		DIP	179- 51
50♦	45-10	CMOS	CD74HC4510M	RCA		SO	179- 52
51♦	45-10	CMOS	MSM5511RS	OKIJ		DIP	177- 48
52♦	45-10	CMOS	PC54HCT4510D(A)	MULB		DIP	180- 23
53♦	45-10	CMOS	PC54HCT4510D(A)	PHIN		DIP	180- 23
54♦	45-10	CMOS	PC54HCT4510D(A)	RTCF		DIP	180- 23
55♦	45-10	CMOS	PC54HCT4510D(A)	VALG		DIP	180- 23
56♦	45-10	CMOS	PC54HC4510D(A)	MULB		DIP	180- 22
57♦	45-10	CMOS	PC54HC4510D(A)	PHIN		DIP	180- 22
58♦	45-10	CMOS	PC54HC4510D(A)	RTCF		DIP	180- 22
59♦	45-10	CMOS	PC54HC4510D(A)	VALG		DIP	180- 22
60♦	45-10	CMOS	PC74HCT4510D(A)	MULB		DIP	180- 27
61♦	45-10	CMOS	PC74HCT4510D(A)	PHIN		DIP	180- 27
62♦	45-10	CMOS	PC74HCT4510D(A)	RTCF		DIP	180- 27
63♦	45-10	CMOS	PC74HCT4510D(A)	VALG		DIP	180- 27
64♦	45-10	CMOS	PC74HC4510P	MULB		DIP	180- 28
65♦	45-10	CMOS	PC74HC4510P	PHIN		DIP	180- 28
66♦	45-10	CMOS	PC74HC4510P	RTCF		DIP	180- 28
67♦	45-10	CMOS	PC74HCT4510P	VALG		DIP	180- 28
68♦	45-10	CMOS	PC74HCT4510T	MULB	*	SO	180- 29
69♦	45-10	CMOS	PC74HCT4510T	PHIN	*	SO	180- 29
70♦	45-10	CMOS	PC74HCT4510T	RTCF	*	SO	180- 29
71♦	45-10	CMOS	PC74HCT4510T	VALG	*	SO	180- 29
72♦	45-10	CMOS	PC74HC4510D(A)	MULB		DIP	180- 24
73♦	45-10	CMOS	PC74HC4510D(A)	PHIN		DIP	180- 24
74♦	45-10	CMOS	PC74HC4510D(A)	RTCF		DIP	180- 24
75♦	45-10	CMOS	PC74HC4510D(A)	VALG		DIP	180- 24
76♦	45-10	CMOS	PC74HC4510P	MULB		DIP	180- 25
77♦	45-10	CMOS	PC74HC4510P	PHIN		DIP	180- 25
78♦	45-10	CMOS	PC74HC4510P	RTCF		DIP	180- 25
79♦	45-10	CMOS	PC74HC4510P	VALG		DIP	180- 25
80♦	45-10	CMOS	PC74HC4510T	MULB	*	SO	180- 26
81♦	45-10	CMOS	PC74HC4510T	PHIN	*	SO	180- 26
82♦	45-10	CMOS	PC74HC4510T	RTCF	*	SO	180- 26
83♦	45-10	CMOS	PC74HC4510T	VALG	*	SO	180- 26
84♦	45-10	CMOS	74HCT4510D	SIC	*	SO	180- 20
85♦	45-10	CMOS	74HCT4510N	SIC		DIP	180- 21
86♦	45-10	CMOS	74HC4510D	SIC	*	SO	180- 18
87♦	45-10	CMOS	74HC4510N	SIC		DIP	180- 19
88♦	45-10	CMOS	883C4510B	SSS		DIP	177-106
89♦	45-10B	CMOS	CD4510BCJ	NSC		DIP	177- 68
90♦	45-10B	CMOS	CD4510BCN	NSC		DIP	177- 69
91♦	45-10B	CMOS	CD4510BD	RCA		DIP	177- 55
92♦	45-10B	CMOS	CD4510BE	RCA		DIP	177- 56
93♦	45-10B	CMOS	CD4510BF	RCA		DIP	177- 57
94♦	45-10B	CMOS	CD4510BK	RCA	*	FP	177- 58
95♦	45-10B	CMOS	CD4510BMJ	NSC		DIP	177- 70
96♦	45-10B	CMOS	CD4510BMW	NSC	*	FP	177- 71
97♦	45-10B	CMOS	HCC4510BD	SGSI		DIP	177-109
98♦	45-10B	CMOS	HCC4510BF	SGSI		DIP	177-110
99♦	45-10B	CMOS	HCC4510BK	SGSI	*	QSM	178- 1
100♦	45-10B	CMOS	HCF4510BE	SGSI		DIP	178- 2
101♦	45-10B	CMOS	HCF4510BF	SGSI		DIP	178- 3
102♦	45-10B	CMOS	HEF4510	RTCF		DIP	178- 41
103♦	45-10B	CMOS	HEF4510B	VALG		DIP	178- 11
104♦	45-10B	CMOS	HEF4510BD	MULB		DIP	178- 89
105♦	45-10B	CMOS	HEF4510BD	PHIN		DIP	178- 89
106♦	45-10B	CMOS	HEF4510BD	RTCF		DIP	178- 89
107♦	45-10B	CMOS	HEF4510BD	VALG		DIP	178- 89
108♦	45-10B	CMOS	HEF4510BP	MULB		DIP	178- 90
109♦	45-10B	CMOS	HEF4510BP	PHIN		DIP	178- 90
110♦	45-10B	CMOS	HEF4510BP	RTCF		DIP	178- 90
111♦	45-10B	CMOS	HEF4510BP	VALG		DIP	178- 90
112♦	45-10B	CMOS	HEF4510BPN	SIC		DIP	178- 42
113♦	45-10B	CMOS	HEF4510BT	MULB	*	SO	178- 91
114♦	45-10B	CMOS	HEF4510BT	PHIN	*	SO	178- 91
115♦	45-10B	CMOS	HEF4510BT	RTCF	*	SO	178- 91
116♦	45-10B	CMOS	HEF4510BT	VALG	*	SO	178- 91
117♦	45-10B	CMOS	HEF4510BTD	SIC	*	SO	177- 21
118♦	45-10B	CMOS	MC14510BAL	MOTA		DIP	177- 89
119▼	45-10B	CMOS	MC14510BALD	MOTA		DIP	177- 90
120▼	45-10B	CMOS	MC14510BALDS	MOTA		DIP	177- 91
121▼	45-10B	CMOS	MC14510BALS	MOTA		DIP	177- 92
122♦	45-10B	CMOS	MC14510BCL	MOTA		DIP	177- 93
123▼	45-10B	CMOS	MC14510BCLD	MOTA		DIP	177- 94
124▼	45-10B	CMOS	MC14510BCLDS	MOTA		DIP	177- 95
125▼	45-10B	CMOS	MC14510BCLS	MOTA		DIP	177- 96
126♦	45-10B	CMOS	MC14510BCP	MOTA		DIP	177- 97
127▼	45-10B	CMOS	MC14510BCPD	MOTA		DIP	177- 98
128▼	45-10B	CMOS	MC14510BCPDS	MOTA		DIP	177- 99
129▼	45-10B	CMOS	MC14510BCPS	MOTA		DIP	177-100
130▼	45-10B	CMOS	MC14510BD	MOTA		DIP	177-101
131♦	45-10B	CMOS	MSM4510RS	OKIJ		DIP	177- 49
132♦	45-10B	CMOS	M4510BP	MITJ		DIP	177- 53
133♦	45-10B	CMOS	SCL4510B	SSS		DIP	177- 62
134♦	45-10B	CMOS	TC4510BP	IMTM		DIP	177- 54
135♦	45-10B	CMOS	TC4510BP	TOSJ		DIP	177- 54
136♦	45-10B	CMOS	UPD4510BG	NECJ	*	SO	177-102
137♦	45-10B	CMOS	4510BDC	FSC		DIP	177- 74
138♦	45-10B	CMOS	4510BDM	FSC		DIP	177- 75
139♦	45-10B	CMOS	4510BFC	FSC	*	FP	177- 76
140♦	45-10B	CMOS	4510BFM	FSC	*	FP	177- 77
141	45-14B	CMOS	BCL4514B	SSS		DIP	125- 70
142	45-14B	CMOS	CD4514BC	NSC		DIP	125- 73
143	45-14B	CMOS	CD4514BD(2)	RCA		DIP	125- 74
144	45-14B	CMOS	CD4514BE(2)	RCA		DIP	125- 75
145	45-14B	CMOS	CD4514BF(2)	RCA		DIP	125- 76
146	45-14B	CMOS	CD4514BM	NSC		DIP	125- 77
147♦	45-14B	CMOS	HCC4514BD	SGSI		DIP	125- 87
148♦	45-14B	CMOS	HCF4514BD	SGSI		DIP	125- 89
149♦	45-14B	CMOS	HCF4514BE	SGSI		DIP	125- 90
150▼	45-14B	CMOS	HD74HC4514FP	HITJ	*	FP	125- 93
151▼	45-14B	CMOS	HD74HC4514P	HITJ		DIP	125- 94
152♦	45-14B	CMOS	MM54HC4514J(A)	NSC		DIP	125- 62
153♦	45-14B	CMOS	MM74HC4514J(A)	NSC		DIP	125- 63
154♦	45-14B	CMOS	MM74HC4514N(A)	NSC		DIP	125- 64
155♦	45-14B	CMOS	M4514BP(2)	MITJ		DIP	125- 97
156	45-14B	CMOS	883C4514B	SSS		DIP	125- 65
157	45-15B	CMOS	BCL4515B	SSS		DIP	125- 71
158	45-15B	CMOS	CD4515BC	NSC		DIP	125- 78
159	45-15B	CMOS	CD4515BD(2)	RCA		DIP	125- 79
160	45-15B	CMOS	CD4515BE(2)	RCA		DIP	125- 80
161	45-15B	CMOS	CD4515BF(2)	RCA		DIP	125- 81
162	45-15B	CMOS	CD4515BM	NSC		DIP	125- 83
163♦	45-15B	CMOS	HCC4515BD	SGSI		DIP	125- 88
164♦	45-15B	CMOS	HCF4515BD	SGSI		DIP	125- 91
165♦	45-15B	CMOS	HCF4515BE	SGSI		DIP	125- 92
166▼	45-15B	CMOS	HD74HC4515FP	HITJ	*	FP	125- 95
167▼	45-15B	CMOS	HD74HC4515P	HITJ		DIP	125- 96
168♦	45-15B	CMOS	M4515BP(2)	MITJ		DIP	125- 98
169	45-15B	CMOS	883C4515B	SSS		DIP	125- 66
170♦	45-16	CMOS	CD54HCT4516F	RCA		DIP	161- 72
171♦	45-16	CMOS	CD54HC4516F	RCA		DIP	163- 45
172♦	45-16	CMOS	CD74HCT4516E	RCA		DIP	161- 99
173♦	45-16	CMOS	CD74HCT4516M	RCA		SO	161-100
174♦	45-16	CMOS	CD74HC4516E	RCA		DIP	161- 97
175♦	45-16	CMOS	CD74HC4516M	RCA		SO	161- 98
176♦	45-16	CMOS	PC54HCT4516D(A)	MULB		DIP	163- 47
177♦	45-16	CMOS	PC54HCT4516D(A)	PHIN		DIP	163- 47
178♦	45-16	CMOS	PC54HCT4516D(A)	RTCF		DIP	163- 47
179♦	45-16	CMOS	PC54HCT4516D(A)	VALG		DIP	163- 47
180♦	45-16	CMOS	PC54HC4516D(A)	MULB		DIP	163- 46
181♦	45-16	CMOS	PC54HC4516D(A)	PHIN		DIP	163- 46
182♦	45-16	CMOS	PC54HC4516D(A)	RTCF		DIP	163- 46
183♦	45-16	CMOS	PC54HC4516D(A)	VALG		DIP	163- 46
184♦	45-16	CMOS	PC74HCT4516D(A)	MULB		DIP	163- 51
185♦	45-16	CMOS	PC74HCT4516D(A)	PHIN		DIP	163- 51
186♦	45-16	CMOS	PC74HCT4516D(A)	RTCF		DIP	163- 51
187♦	45-16	CMOS	PC74HCT4516D(A)	VALG		DIP	163- 51
188♦	45-16	CMOS	PC74HCT4516P	MULB		DIP	163- 52
189♦	45-16	CMOS	PC74HCT4516P	PHIN		DIP	163- 52
190♦	45-16	CMOS	PC74HCT4516P	RTCF		DIP	163- 52
191♦	45-16	CMOS	PC74HCT4516P	VALG		DIP	163- 52
192♦	45-16	CMOS	PC74HCT4516T	MULB	*	SO	163- 53
193♦	45-16	CMOS	PC74HCT4516T	PHIN	*	SO	163- 53
194♦	45-16	CMOS	PC74HCT4516T	RTCF	*	SO	163- 53
195♦	45-16	CMOS	PC74HCT4516T	VALG	*	SO	163- 53
196♦	45-16	CMOS	PC74HC4516D(A)	MULB		DIP	163- 48
197♦	45-16	CMOS	PC74HC4516D(A)	PHIN		DIP	163- 48
198♦	45-16	CMOS	PC74HC4516D(A)	RTCF		DIP	163- 48
199♦	45-16	CMOS	PC74HC4516D(A)	VALG		DIP	163- 48
200♦	45-16	CMOS	PC74HC4516P	MULB		DIP	163- 49
201♦	45-16	CMOS	PC74HC4516P	PHIN		DIP	163- 49
202♦	45-16	CMOS	PC74HC4516P	RTCF		DIP	163- 49
203♦	45-16	CMOS	PC74HC4516P	VALG		DIP	163- 49
204♦	45-16	CMOS	PC74HC4516T	MULB	*	SO	163- 50
205♦	45-16	CMOS	PC74HC4516T	PHIN	*	SO	163- 50
206♦	45-16	CMOS	PC74HC4516T	RTCF	*	SO	163- 50
207♦	45-16	CMOS	PC74HC4516T	VALG	*	SO	163- 50
208♦	45-16	CMOS	74HCT4516D	SIC	*	SO	163- 43
209♦	45-16	CMOS	74HCT4516N	SIC		DIP	163- 44
210♦	45-16	CMOS	74HC4516D	SIC	*	SO	163- 41
211♦	45-16	CMOS	74HC4516N	SIC		DIP	163- 42
212♦	45-16B	CMOS	BCL4516B	SSS		DIP	160- 78
213♦	45-16B	CMOS	CD4516BCJ	NSC		DIP	160- 8
214♦	45-16B	CMOS	CD4516BCN	NSC		DIP	160- 9
215♦	45-16B	CMOS	CD4516BD	RCA		DIP	159- 98
216♦	45-16B	CMOS	CD4516BE	RCA		DIP	159- 99
217♦	45-16B	CMOS	CD4516BF	RCA		DIP	159-100
218♦	45-16B	CMOS	CD4516BK	RCA	*	FP	159-101
219♦	45-16B	CMOS	CD4516BMJ	NSC		DIP	160- 10
220♦	45-16B	CMOS	CD4516BMW	NSC	*	FP	160- 11

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	45-16B	CMOS	HCC4516BD	SGSI		DIP	160- 82
2♦	45-16B	CMOS	HCC4516BF	SGSI		DIP	160- 83
3♦	45-16B	CMOS	HCC4516BK	SGSI	*	QSM	160- 84
4♦	45-16B	CMOS	HCF4516BE	SGSI		DIP	160- 87
5♦	45-16B	CMOS	HCF4516BF	SGSI		DIP	160- 88
6♦	45-16B	CMOS	HEF4516	RTCF		DIP	161- 58
7♦	45-16B	CMOS	HEF4516B	VALG		DIP	160- 94
8♦	45-16B	CMOS	HEF4516BD	MULB		DIP	161- 18
9♦	45-16B	CMOS	HEF4516BD	PHIN		DIP	161- 18
10♦	45-16B	CMOS	HEF4516BD	RTCF		DIP	161- 18
11♦	45-16B	CMOS	HEF4516BD	VALG		DIP	161- 18
12♦	45-16B	CMOS	HEF4516BP	MULB		DIP	161- 19
13♦	45-16B	CMOS	HEF4516BP	PHIN		DIP	161- 19
14♦	45-16B	CMOS	HEF4516BP	RTCF		DIP	161- 19
15♦	45-16B	CMOS	HEF4516BP	VALG		DIP	161- 19
16♦	45-16B	CMOS	HEF4516BPN	SIC		DIP	161- 59
17♦	45-16B	CMOS	HEF4516BT	MULB	*	SO	161- 20
18♦	45-16B	CMOS	HEF4516BT	PHIN	*	SO	161- 20
19♦	45-16B	CMOS	HEF4516BT	RTCF	*	SO	161- 20
20♦	45-16B	CMOS	HEF4516BT	VALG	*	SO	161- 20
21♦	45-16B	CMOS	HEF4516BTD	SIC	*	SO	163- 5
22♦	45-16B	CMOS	MC14516BAL	MOTA		DIP	160- 46
23▼	45-16B	CMOS	MC14516BALD	MOTA		DIP	160- 47
24▼	45-16B	CMOS	MC14516BALDS	MOTA		DIP	160- 48
25▼	45-16B	CMOS	MC14516BALS	MOTA		DIP	160- 49
26♦	45-16B	CMOS	MC14516BCL	MOTA		DIP	160- 50
27▼	45-16B	CMOS	MC14516BCLD	MOTA		DIP	160- 51
28▼	45-16B	CMOS	MC14516BCLDS	MOTA		DIP	160- 52
29♦	45-16B	CMOS	MC14516BCP	MOTA		DIP	160- 53
30▼	45-16B	CMOS	MC14516BCPD	MOTA		DIP	160- 54
31▼	45-16B	CMOS	MC14516BCPDS	MOTA		DIP	160- 55
32▼	45-16B	CMOS	MC14516BCPS	MOTA		DIP	160- 56
33▼	45-16B	CMOS	MC14516BD	MOTA		DIP	160- 57
34♦	45-16B	CMOS	MN4516B	MATJ		DIP	163- 6
35♦	45-16B	CMOS	MSM4516RS	OKIJ		DIP	159- 93
36♦	45-16B	CMOS	M4516BP	MITJ		DIP	159- 96
37♦	45-16B	CMOS	SCL4516B	SSS		DIP	159-105
38♦	45-16B	CMOS	TC4516BP	IMTM		DIP	159- 97
39♦	45-16B	CMOS	TC4516BP	TOSJ		DIP	159- 97
40♦	45-16B	CMOS	UPD4516BG	NECJ	*	SO	160- 58
41♦	45-16B	CMOS	4516BDC	FSC		DIP	160- 28
42♦	45-16B	CMOS	4516BDM	FSC		DIP	160- 29
43♦	45-16B	CMOS	4516BFC	FSC	*	FP	160- 30
44♦	45-16B	CMOS	4516BFM	FSC	*	FP	160- 31
45♦	45-16B	CMOS	4516BPC	FSC			160- 32
46♦	45-16B	CMOS	883C4516B	SSS		DIP	160- 75
47♦	45-18	CMOS	BCL4518B	SSS		DIP	181- 9
48♦	45-18	CMOS	CD54HCT4518F	RCA		DIP	181- 32
49♦	45-18	CMOS	CD54HC4518F	RCA		DIP	181- 31
50♦	45-18	CMOS	CD74HCT4518E	RCA		DIP	181- 41
51♦	45-18	CMOS	CD74HCT4518M	RCA	*	SO	181- 42
52♦	45-18	CMOS	CD74HC4518E	RCA		DIP	181- 39
53♦	45-18	CMOS	CD74HC4518M	RCA	*	SO	181- 40
54♦	45-18	CMOS	HEF4518BT	MULB	*	SO	181- 63
55♦	45-18	CMOS	HEF4518BT	PHIN	*	SO	181- 63
56♦	45-18	CMOS	HEF4518BT	RTCF	*	SO	181- 63
57♦	45-18	CMOS	HEF4518BT	VALG	*	SO	181- 63
58♦	45-18	CMOS	MB84518B	FCAJ		DIP	181- 10
59♦	45-18	CMOS	MB84518BM	FCAJ		DIP	181- 11
60♦	45-18	CMOS	MN4518B	MATJ		DIP	181- 51
61♦	45-18	CMOS	PC54HCT4518D(A)	MULB		DIP	181- 89
62♦	45-18	CMOS	PC54HCT4518D(A)	PHIN		DIP	181- 89
63♦	45-18	CMOS	PC54HCT4518D(A)	RTCF		DIP	181- 89
64♦	45-18	CMOS	PC54HCT4518D(A)	VALG		DIP	181- 89
65♦	45-18	CMOS	PC54HC4518D(A)	MULB		DIP	181- 88
66♦	45-18	CMOS	PC54HC4518D(A)	PHIN		DIP	181- 88
67♦	45-18	CMOS	PC54HC4518D(A)	RTCF		DIP	181- 88
68♦	45-18	CMOS	PC54HC4518D(A)	VALG		DIP	181- 88
69♦	45-18	CMOS	PC74HCT4518D(A)	MULB		DIP	181- 91
70♦	45-18	CMOS	PC74HCT4518D(A)	PHIN		DIP	181- 91
71♦	45-18	CMOS	PC74HCT4518D(A)	RTCF		DIP	181- 91
72♦	45-18	CMOS	PC74HCT4518D(A)	VALG		DIP	181- 91
73♦	45-18	CMOS	PC74HCT4518P	MULB		DIP	181- 33
74♦	45-18	CMOS	PC74HCT4518P	PHIN		DIP	181- 33
75♦	45-18	CMOS	PC74HCT4518P	RTCF		DIP	181- 33
76♦	45-18	CMOS	PC74HCT4518P	VALG		DIP	181- 33
77♦	45-18	CMOS	PC74HCT4518T	MULB	*	SO	181- 34
78♦	45-18	CMOS	PC74HCT4518T	PHIN	*	SO	181- 34
79♦	45-18	CMOS	PC74HCT4518T	RTCF	*	SO	181- 34
80♦	45-18	CMOS	PC74HCT4518T	VALG	*	SO	181- 34
81♦	45-18	CMOS	PC74HC4518D(A)	MULB		DIP	181- 90
82♦	45-18	CMOS	PC74HC4518D(A)	PHIN		DIP	181- 90
83♦	45-18	CMOS	PC74HC4518D(A)	RTCF		DIP	181- 90
84♦	45-18	CMOS	PC74HC4518D(A)	VALG		DIP	181- 90
85♦	45-18	CMOS	PC74HC4518P	MULB		DIP	181- 46
86♦	45-18	CMOS	PC74HC4518P	PHIN		DIP	181- 46
87♦	45-18	CMOS	PC74HC4518P	RTCF		DIP	181- 46
88♦	45-18	CMOS	PC74HC4518P	VALG		DIP	181- 46
89♦	45-18	CMOS	PC74HC4518T	MULB	*	SO	181- 47
90♦	45-18	CMOS	PC74HC4518T	PHIN	*	SO	181- 47
91♦	45-18	CMOS	PC74HC4518T	RTCF	*	SO	181- 47
92♦	45-18	CMOS	PC74HC4518T	VALG	*	SO	181- 47
93♦	45-18	CMOS	74HCT4518D	SIC	*	SO	181- 35
94♦	45-18	CMOS	74HCT4518N	SIC		DIP	181- 36
95♦	45-18	CMOS	74HC4518D	SIC	*	SO	181- 58
96♦	45-18	CMOS	74HC4518N	SIC		DIP	181- 59
97♦	45-18	CMOS	883C4518B	SSS		DIP	181- 8
98♦	45-18B	CMOS	CD4518BCJ	NSC		DIP	180-100
99♦	45-18B	CMOS	CD4518BCN	NSC		DIP	180-101
100♦	45-18B	CMOS	CD4518BD	RCA		DIP	180-110
101♦	45-18B	CMOS	CD4518BE	RCA		DIP	181- 1
102♦	45-18B	CMOS	CD4518BF	RCA		DIP	181- 2
103♦	45-18B	CMOS	CD4518BMJ	NSC		DIP	180-102
104♦	45-18B	CMOS	CD4518BMW	NSC	*	FP	180-103
105♦	45-18B	CMOS	HCC4518BD	SGSI		DIP	181- 3
106♦	45-18B	CMOS	HCC4518BF	SGSI		DIP	181- 4
107♦	45-18B	CMOS	HCC4518BK	SGSI	*	QSM	181- 5
108♦	45-18B	CMOS	HCF4518BE	SGSI		DIP	181- 6
109♦	45-18B	CMOS	HCF4518BF	SGSI		DIP	181- 7
110▼	45-18B	CMOS	HD74HC4518FP	HITJ	*	SO	181- 48
111▼	45-18B	CMOS	HD74HC4518P	HITJ		DIP	181- 49
112♦	45-18B	CMOS	HEF4518	RTCF		DIP	181- 26
113♦	45-18B	CMOS	HEF4518BD	MULB		DIP	181- 61
114♦	45-18B	CMOS	HEF4518BD	PHIN		DIP	181- 61
115♦	45-18B	CMOS	HEF4518BD	RTCF		DIP	181- 61
116♦	45-18B	CMOS	HEF4518BD	VALG		DIP	181- 61
117♦	45-18B	CMOS	HEF4518BP	MULB		DIP	181- 62
118♦	45-18B	CMOS	HEF4518BP	PHIN		DIP	181- 62
119♦	45-18B	CMOS	HEF4518BP	RTCF		DIP	181- 62
120♦	45-18B	CMOS	HEF4518BP	VALG		DIP	181- 62
121♦	45-18B	CMOS	HEF4518BPN	SIC		DIP	181- 27
122♦	45-18B	CMOS	HEF4518BTD	SIC	*	SO	181- 50
123♦	45-18B	CMOS	HEF4518P	MULB		DIP	181- 28
124♦	45-18B	CMOS	HEF4518P	PHIN		DIP	181- 28
125♦	45-18B	CMOS	HEF4518P	VALG		DIP	181- 28
126♦	45-18B	CMOS	MC14518BAL	MOTA		DIP	181- 12
127▼	45-18B	CMOS	MC14518BALD	MOTA		DIP	181- 13
128▼	45-18B	CMOS	MC14518BALDS	MOTA		DIP	181- 14
129▼	45-18B	CMOS	MC14518BALS	MOTA		DIP	181- 15
130♦	45-18B	CMOS	MC14518BCL	MOTA		DIP	181- 16
131▼	45-18B	CMOS	MC14518BCLD	MOTA		DIP	181- 17
132▼	45-18B	CMOS	MC14518BCLDS	MOTA		DIP	181- 18
133▼	45-18B	CMOS	MC14518BCLS	MOTA		DIP	181- 19
134♦	45-18B	CMOS	MC14518BCP	MOTA		DIP	181- 20
135▼	45-18B	CMOS	MC14518BCPD	MOTA		DIP	181- 21
136▼	45-18B	CMOS	MC14518BCPDS	MOTA		DIP	181- 22
137▼	45-18B	CMOS	MC14518BCPS	MOTA		DIP	181- 23
138▼	45-18B	CMOS	MC14518BDW	MOTA		DIP	181- 24
139♦	45-18B	CMOS	MSM4518	OKIJ		DIP	181- 25
140♦	45-18B	CMOS	MSM4518RS	OKIJ		DIP	180-105
141♦	45-18B	CMOS	M4518BP	MITJ		DIP	180-104
142▼	45-18B	CMOS	M54HC4518F1	SGSI		DIP	180- 94
143▼	45-18B	CMOS	M74HC4518B1	SGSI		DIP	180- 95
144▼	45-18B	CMOS	M74HC4518F1	SGSI		DIP	180- 97
145♦	45-18B	CMOS	SCL4518B	SSS		DIP	180- 99
146♦	45-18B	CMOS	TC4518BP	IMTM		DIP	180-106
147♦	45-18B	CMOS	TC4518BP	TOSJ		DIP	180-106
148▼	45-18B	CMOS	TC74HC4518F	TOSA	*	SO	181- 92
149▼	45-18B	CMOS	TC74HC4518P(A)	TOSA		DIP	181- 93
150♦	45-18B	CMOS	4518BDC	FSC		DIP	180- 92
151♦	45-18B	CMOS	4518BDM	FSC		DIP	180- 93
152♦	45-18B	CMOS	4518BFC	FSC	*	FP	180-107
153♦	45-18B	CMOS	4518BFM	FSC	*	FP	180-108
154♦	45-18B	CMOS	4518BPC	FSC			180-109
155♦	45-20	CMOS	CD54HCT4520F	RCA		DIP	164- 61
156♦	45-20	CMOS	CD54HC4520F	RCA		DIP	164- 60
157♦	45-20	CMOS	CD74HCT4520E	RCA		DIP	164- 77
158♦	45-20	CMOS	CD74HCT4520M	RCA	*	SO	164- 78
159♦	45-20	CMOS	CD74HC4520E	RCA		DIP	164- 75
160♦	45-20	CMOS	CD74HC4520M	RCA	*	SO	164- 76
161♦	45-20	CMOS	NJU4520BD	NJRC	*	SO	164- 54
162♦	45-20	CMOS	NJU4520BM	NJRC		DIP	164- 55
163♦	45-20	CMOS	PC54HCT4520D(A)	MULB		DIP	165- 25
164♦	45-20	CMOS	PC54HCT4520D(A)	PHIN		DIP	165- 25
165♦	45-20	CMOS	PC54HCT4520D(A)	RTCF		DIP	165- 25
166♦	45-20	CMOS	PC54HCT4520D(A)	VALG		DIP	165- 25
167♦	45-20	CMOS	PC54HC4520D(A)	MULB		DIP	165- 24
168♦	45-20	CMOS	PC54HC4520D(A)	PHIN		DIP	165- 24
169♦	45-20	CMOS	PC54HC4520D(A)	RTCF		DIP	165- 24
170♦	45-20	CMOS	PC54HC4520D(A)	VALG		DIP	165- 24
171♦	45-20	CMOS	PC74HCT4520D(A)	MULB		DIP	165- 27
172♦	45-20	CMOS	PC74HCT4520D(A)	PHIN		DIP	165- 27
173♦	45-20	CMOS	PC74HCT4520D(A)	RTCF		DIP	165- 27
174♦	45-20	CMOS	PC74HCT4520D(A)	VALG		DIP	165- 27
175♦	45-20	CMOS	PC74HCT4520P	MULB		DIP	164- 62
176♦	45-20	CMOS	PC74HCT4520P	PHIN		DIP	164- 62
177♦	45-20	CMOS	PC74HCT4520P	RTCF		DIP	164- 62
178♦	45-20	CMOS	PC74HCT4520P	VALG		DIP	164- 62
179♦	45-20	CMOS	PC74HCT4520T	MULB	*	SO	164- 63
180♦	45-20	CMOS	PC74HCT4520T	PHIN	*	SO	164- 63
181♦	45-20	CMOS	PC74HCT4520T	RTCF	*	SO	164- 63
182♦	45-20	CMOS	PC74HCT4520T	VALG	*	SO	164- 63
183♦	45-20	CMOS	PC74HC4520D(A)	MULB		DIP	165- 26
184♦	45-20	CMOS	PC74HC4520D(A)	PHIN		DIP	165- 26
185♦	45-20	CMOS	PC74HC4520D(A)	RTCF		DIP	165- 26
186♦	45-20	CMOS	PC74HC4520D(A)	VALG		DIP	165- 26
187♦	45-20	CMOS	PC74HC4520P	MULB		DIP	164- 83
188♦	45-20	CMOS	PC74HC4520P	PHIN		DIP	164- 83
189♦	45-20	CMOS	PC74HC4520P	RTCF		DIP	164- 83
190♦	45-20	CMOS	PC74HC4520P	VALG		DIP	164- 83
191♦	45-20	CMOS	PC74HC4520T	MULB	*	SO	164- 84
192♦	45-20	CMOS	PC74HC4520T	PHIN	*	SO	164- 84
193♦	45-20	CMOS	PC74HC4520T	RTCF	*	SO	164- 84
194♦	45-20	CMOS	PC74HC4520T	VALG	*	SO	164- 84
195♦	45-20	CMOS	74HCT4520D	SIC	*	SO	164- 68
196♦	45-20	CMOS	74HCT4520N	SIC		DIP	164- 69
197♦	45-20	CMOS	74HC4520D	SIC	*	SO	164-106
198♦	45-20	CMOS	74HC4520N	SIC		DIP	164-107
199♦	45-20B	CMOS	BCL4520B	SSS		DIP	164- 37
200♦	45-20B	CMOS	CD4520BCJ	NSC		DIP	164- 16
201♦	45-20B	CMOS	CD4520BCN	NSC		DIP	164- 17
202♦	45-20B	CMOS	CD4520BD	RCA		DIP	164- 28
203♦	45-20B	CMOS	CD4520BE	RCA		DIP	164- 29
204♦	45-20B	CMOS	CD4520BF	RCA		DIP	164- 30
205♦	45-20B	CMOS	CD4520BMJ	NSC		DIP	164- 18
206♦	45-20B	CMOS	CD4520BMW	NSC	*	FP	164- 19
207♦	45-20B	CMOS	HCC4520BD	SGSI		DIP	164- 31
208♦	45-20B	CMOS	HCC4520BF	SGSI		DIP	164- 32
209♦	45-20B	CMOS	HCC4520BK	SGSI	*	QSM	164- 33
210♦	45-20B	CMOS	HCF4520BE	SGSI		DIP	164- 34
211♦	45-20B	CMOS	HCF4520BF	SGSI		DIP	164- 35
212▼	45-20B	CMOS	HD74HC4520FP	HITJ	*	SO	164- 86
213▼	45-20B	CMOS	HD74HC4520P	HITJ		DIP	164- 87
214♦	45-20B	CMOS	HEF4520	RTCF			164- 56
215♦	45-20B	CMOS	HEF4520BD	MULB		DIP	165- 1
216♦	45-20B	CMOS	HEF4520BD	PHIN		DIP	165- 1
217♦	45-20B	CMOS	HEF4520BD	RTCF		DIP	165- 1
218♦	45-20B	CMOS	HEF4520BD	VALG		DIP	165- 1
219♦	45-20B	CMOS	HEF4520BP	MULB		DIP	165- 2
220♦	45-20B	CMOS	HEF4520BP	PHIN		DIP	165- 2

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	45-20B	CMOS	HEF4520BP	RTCF		DIP	165- 2
2♦	45-20B	CMOS	HEF4520BP	VALG		DIP	165- 2
3♦	45-20B	CMOS	HEF4520BPN	SIC		DIP	164- 57
4♦	45-20B	CMOS	HEF4520BT	MULB	*	SO	165- 3
5♦	45-20B	CMOS	HEF4520BT	PHIN	*	SO	165- 3
6♦	45-20B	CMOS	HEF4520BT	RTCF	*	SO	165- 3
7♦	45-20B	CMOS	HEF4520BT	VALG	*	SO	165- 3
8♦	45-20B	CMOS	HEF4520BTD	SIC	*	SO	164- 88
9♦	45-20B	CMOS	HEF4520P	MULB		DIP	164- 58
10♦	45-20B	CMOS	HEF4520P	PHIN		DIP	164- 58
11♦	45-20B	CMOS	HEF4520P	VALG		DIP	164- 58
12♦	45-20B	CMOS	LC4520B	TSAJ		DIP	164- 12
13♦	45-20B	CMOS	MB84520B	FCAJ		DIP	164- 38
14♦	45-20B	CMOS	MB84520BM	FCAJ		DIP	164- 39
15♦	45-20B	CMOS	MC14520BAL	MOTA		DIP	164- 40
16▼	45-20B	CMOS	MC14520BALD	MOTA		DIP	164- 41
17▼	45-20B	CMOS	MC14520BALDS	MOTA		DIP	164- 42
18▼	45-20B	CMOS	MC14520BALS	MOTA		DIP	164- 43
19♦	45-20B	CMOS	MC14520BCL	MOTA		DIP	164- 44
20▼	45-20B	CMOS	MC14520BCLD	MOTA		DIP	164- 45
21▼	45-20B	CMOS	MC14520BCLDS	MOTA		DIP	164- 46
22▼	45-20B	CMOS	MC14520BCLS	MOTA		DIP	164- 47
23♦	45-20B	CMOS	MC14520BCP	MOTA		DIP	164- 48
24▼	45-20B	CMOS	MC14520BCPD	MOTA		DIP	164- 49
25▼	45-20B	CMOS	MC14520BCPDS	MOTA		DIP	164- 50
26▼	45-20B	CMOS	MC14520BCPS	MOTA		DIP	164- 51
27▼	45-20B	CMOS	MC14520BDW	MOTA		DIP	164- 52
28♦	45-20B	CMOS	MN4520B	MATJ		DIP	164- 89
29♦	45-20B	CMOS	MSM4520	OKIJ		DIP	164- 53
30♦	45-20B	CMOS	MSM4520RS	OKIJ		DIP	164- 21
31♦	45-20B	CMOS	M4520BP	MITJ		DIP	164- 20
32▼	45-20B	CMOS	M54HC4520F1(A)	SGSI		DIP	164- 3
33▼	45-20B	CMOS	M74HC4520B1(A)	SGSI		DIP	164- 4
34▼	45-20B	CMOS	M74HC4520F1(A)	SGSI		DIP	164- 6
35♦	45-20B	CMOS	SCL4520B	SSS		DIP	164- 15
36♦	45-20B	CMOS	TC4520BP	IMTM		DIP	164- 22
37♦	45-20B	CMOS	TC4520BP	TOSJ		DIP	164- 22
38▼	45-20B	CMOS	TC74HC4520F(A)	TOSA	*	SO	165- 28
39▼	45-20B	CMOS	TC74HC4520P(A)	TOSA		DIP	165- 29
40♦	45-20B	CMOS	4520BDC	FSC		DIP	164- 23
41♦	45-20B	CMOS	4520BDM	FSC		DIP	164- 24
42♦	45-20B	CMOS	4520BFC	FSC	*	FP	164- 25
43♦	45-20B	CMOS	4520BFM	FSC	*	FP	164- 26
44♦	45-20B	CMOS	4520BPC	FSC			164- 27
45♦	45-20B	CMOS	883C4520B	SSS		DIP	164- 36
46	45-21	CMOS	CD4521BD	RCA		DIP	194- 4
47	45-21	CMOS	CD4521BE	RCA		DIP	194- 5
48	45-21	CMOS	CD4521BF	RCA		DIP	194- 6
49♦	45-21	CMOS	CD4521BK	RCA	*	FP	194- 7
50♦	45-21	CMOS	HEF4521BT	MULB	*	SO	196- 56
51♦	45-21	CMOS	HEF4521BT	PHIN	*	SO	196- 56
52♦	45-21	CMOS	HEF4521BT	RTCF	*	SO	196- 56
53♦	45-21	CMOS	HEF4521BT	VALG	*	SO	196- 56
54	45-21B	CMOS	HEF4521	RTCF		DIP	194- 65
55♦	45-21B	CMOS	HEF4521BD	MULB		DIP	196- 54
56♦	45-21B	CMOS	HEF4521BD	PHIN		DIP	196- 54
57♦	45-21B	CMOS	HEF4521BD	RTCF		DIP	196- 54
58♦	45-21B	CMOS	HEF4521BD	VALG		DIP	196- 54
59♦	45-21B	CMOS	HEF4521BP	MULB		DIP	196- 55
60♦	45-21B	CMOS	HEF4521BP	PHIN		DIP	196- 55
61♦	45-21B	CMOS	HEF4521BP	RTCF		DIP	196- 55
62♦	45-21B	CMOS	HEF4521BP	VALG		DIP	196- 55
63♦	45-21B	CMOS	HEF4521BPN	SIC		DIP	194- 66
64	45-21B	CMOS	HEF4521BTD	SIC	*	SO	194- 67
65♦	45-21B	CMOS	MC14521BAL	MOTA		DIP	194- 21
66▼	45-21B	CMOS	MC14521BALD	MOTA		DIP	194- 22
67▼	45-21B	CMOS	MC14521BALDS	MOTA		DIP	194- 23
68▼	45-21B	CMOS	MC14521BALS	MOTA		DIP	194- 24
69♦	45-21B	CMOS	MC14521BCL	MOTA		DIP	194- 25
70▼	45-21B	CMOS	MC14521BCLD	MOTA		DIP	194- 26
71▼	45-21B	CMOS	MC14521BCLDS	MOTA		DIP	194- 27
72▼	45-21B	CMOS	MC14521BCLS	MOTA		DIP	194- 28
73♦	45-21B	CMOS	MC14521BCP	MOTA		DIP	194- 29
74▼	45-21B	CMOS	MC14521BCPD	MOTA		DIP	194- 30
75▼	45-21B	CMOS	MC14521BCPDS	MOTA		DIP	194- 31
76▼	45-21B	CMOS	MC14521BCPS	MOTA		DIP	194- 32
77▼	45-21B	CMOS	MC14521BD	MOTA		DIP	194- 33
78♦	45-21B	CMOS	M4521BP	MITJ		DIP	194- 19
79♦	45-21B	CMOS	TC4521BP	IMTM		DIP	194- 20
80♦	45-21B	CMOS	TC4521BP	TOSJ		DIP	194- 20
81♦	45-22B	CMOS	BCL4522B	SSS		DIP	177- 5
82♦	45-22B	CMOS	CD4522BC	NSC		DIP	177- 6
83♦	45-22B	CMOS	CD4522BM	NSC		DIP	177- 7
84♦	45-22B	CMOS	HEF4522	RTCF		DIP	176- 97
85♦	45-22B	CMOS	HEF4522BD	MULB		DIP	177- 16
86♦	45-22B	CMOS	HEF4522BD	PHIN		DIP	177- 16
87♦	45-22B	CMOS	HEF4522BD	RTCF		DIP	177- 16
88♦	45-22B	CMOS	HEF4522BD	VALG		DIP	177- 16
89♦	45-22B	CMOS	HEF4522BP	MULB		DIP	177- 17
90♦	45-22B	CMOS	HEF4522BP	PHIN		DIP	177- 17
91♦	45-22B	CMOS	HEF4522BP	RTCF		DIP	177- 17
92♦	45-22B	CMOS	HEF4522BP	VALG		DIP	177- 17
93♦	45-22B	CMOS	HEF4522BPN	SIC		DIP	176- 98
94♦	45-22B	CMOS	HEF4522BT	MULB	*	SO	177- 18
95♦	45-22B	CMOS	HEF4522BT	PHIN	*	SO	177- 18
96♦	45-22B	CMOS	HEF4522BT	RTCF	*	SO	177- 18
97♦	45-22B	CMOS	HEF4522BT	VALG	*	SO	177- 18
98♦	45-22B	CMOS	HEF4522BTD	SIC	*	SO	177- 19
99♦	45-22B	CMOS	MC14522BAL	MOTA		DIP	176-109
100▼	45-22B	CMOS	MC14522BALD	MOTA		DIP	176-110
101▼	45-22B	CMOS	MC14522BALDS	MOTA		DIP	177- 1
102▼	45-22B	CMOS	MC14522BALS	MOTA		DIP	177- 2
103♦	45-22B	CMOS	MC14522BCL	MOTA		DIP	176-100
104▼	45-22B	CMOS	MC14522BCLD	MOTA		DIP	176-101
105▼	45-22B	CMOS	MC14522BCLDS	MOTA		DIP	176-102
106▼	45-22B	CMOS	MC14522BCLS	MOTA		DIP	176-103
107♦	45-22B	CMOS	MC14522BCP	MOTA		DIP	176-104
108▼	45-22B	CMOS	MC14522BCPD	MOTA		DIP	176-105
109▼	45-22B	CMOS	MC14522BCPDS	MOTA		DIP	176-106
110▼	45-22B	CMOS	MC14522BCPS	MOTA		DIP	176-107
111▼	45-22B	CMOS	MC14522BDW	MOTA		DIP	176-108
112♦	45-22B	CMOS	SCL4522B	SSS		DIP	176- 99
113♦	45-22B	CMOS	TC4522BP	IMTM		DIP	177- 3
114♦	45-22B	CMOS	TC4522BP	TOSJ		DIP	177- 3
115♦	45-22B	CMOS	883C4522B	SSS		DIP	177- 4
116♦	45-24	CMOS	MB84524B	FCAJ		DIP	166- 23
117♦	45-24	CMOS	MB84524BM	FCAJ		DIP	166- 24
118♦	45-26B	CMOS	BCL4526B	SSS		DIP	159- 60
119♦	45-26B	CMOS	CD4526BC	NSC		DIP	159- 61
120♦	45-26B	CMOS	CD4526BM	NSC		DIP	159- 62
121♦	45-26B	CMOS	HEF4526	RTCF		DIP	159- 42
122♦	45-26B	CMOS	HEF4526BD	MULB		DIP	159- 63
123♦	45-26B	CMOS	HEF4526BD	PHIN		DIP	159- 63
124♦	45-26B	CMOS	HEF4526BD	RTCF		DIP	159- 63
125♦	45-26B	CMOS	HEF4526BD	VALG		DIP	159- 63
126♦	45-26B	CMOS	HEF4526BP	MULB		DIP	159- 64
127♦	45-26B	CMOS	HEF4526BP	PHIN		DIP	159- 64
128♦	45-26B	CMOS	HEF4526BP	RTCF		DIP	159- 64
129♦	45-26B	CMOS	HEF4526BP	VALG		DIP	159- 64
130♦	45-26B	CMOS	HEF4526BPN	SIC		DIP	159- 43
131♦	45-26B	CMOS	HEF4526BT	MULB	*	SO	159- 65
132♦	45-26B	CMOS	HEF4526BT	PHIN	*	SO	159- 65
133♦	45-26B	CMOS	HEF4526BT	RTCF	*	SO	159- 65
134♦	45-26B	CMOS	HEF4526BT	VALG	*	SO	159- 65
135♦	45-26B	CMOS	HEF4526BTD	SIC	*	SO	159- 66
136♦	45-26B	CMOS	MC14526BAL	MOTA		DIP	159- 54
137▼	45-26B	CMOS	MC14526BALD	MOTA		DIP	159- 55
138▼	45-26B	CMOS	MC14526BALDS	MOTA		DIP	159- 56
139▼	45-26B	CMOS	MC14526BALS	MOTA		DIP	159- 57
140♦	45-26B	CMOS	MC14526BCL	MOTA		DIP	159- 45
141▼	45-26B	CMOS	MC14526BCLD	MOTA		DIP	159- 46
142▼	45-26B	CMOS	MC14526BCLDS	MOTA		DIP	159- 47
143▼	45-26B	CMOS	MC14526BCLS	MOTA		DIP	159- 48
144♦	45-26B	CMOS	MC14526BCP	MOTA		DIP	159- 49
145▼	45-26B	CMOS	MC14526BCPD	MOTA		DIP	159- 50
146▼	45-26B	CMOS	MC14526BCPDS	MOTA		DIP	159- 51
147▼	45-26B	CMOS	MC14526BCPS	MOTA		DIP	159- 52
148▼	45-26B	CMOS	MC14526BDW	MOTA		DIP	159- 53
149♦	45-26B	CMOS	SCL4526B	SSS		DIP	159- 44
150♦	45-26B	CMOS	TC4526BP	IMTM		DIP	159- 58
151♦	45-26B	CMOS	TC4526BP	TOSJ		DIP	159- 58
152♦	45-26B	CMOS	883C4526B	SSS		DIP	159- 59
153♦	45-27B	CMOS	CD4527BCJ	NSC		DIP	197- 69
154♦	45-27B	CMOS	CD4527BCN	NSC		DIP	197- 70
155	45-27B	CMOS	CD4527BD	RCA		DIP	197- 71
156	45-27B	CMOS	CD4527BE	RCA		DIP	197- 72
157	45-27B	CMOS	CD4527BF	RCA		DIP	197- 73
158♦	45-27B	CMOS	CD4527BMJ	NSC		DIP	197- 74
159	45-27B	CMOS	CD4527BMW	NSC	*	FP	197- 75
160♦	45-27B	CMOS	HCC4527BD	SGSI		DIP	197- 59
161♦	45-27B	CMOS	HCC4527BF	SGSI		DIP	197- 60
162	45-27B	CMOS	HCC4527BK	SGSI	*	QSM	197- 61
163♦	45-27B	CMOS	HCF4527BE	SGSI		DIP	197- 62
164♦	45-27B	CMOS	HCF4527BF	SGSI		DIP	197- 63
165♦	45-27B	CMOS	HEF4527BD	MULB		DIP	197- 84
166♦	45-27B	CMOS	HEF4527BD	PHIN		DIP	197- 84
167♦	45-27B	CMOS	HEF4527BD	RTCF		DIP	197- 84
168♦	45-27B	CMOS	HEF4527BD	VALG		DIP	197- 84
169♦	45-27B	CMOS	HEF4527BP	MULB		DIP	197- 83
170♦	45-27B	CMOS	HEF4527BP	PHIN		DIP	197- 83
171♦	45-27B	CMOS	HEF4527BP	RTCF		DIP	197- 83
172♦	45-27B	CMOS	HEF4527BP	VALG		DIP	197- 83
173♦	45-27B	CMOS	HEF4527BPN	SIC		DIP	197- 81
174♦	45-27B	CMOS	HEF4527BT	PHIN	*	SO	197- 85
175♦	45-27B	CMOS	MC14527BAL	MOTA		DIP	197- 52
176▼	45-27B	CMOS	MC14527BALD	MOTA		DIP	197- 53
177▼	45-27B	CMOS	MC14527BALDS	MOTA		DIP	197- 54
178▼	45-27B	CMOS	MC14527BALS	MOTA		DIP	197- 55
179♦	45-27B	CMOS	MC14527BCL	MOTA		DIP	197- 43
180▼	45-27B	CMOS	MC14527BCLD	MOTA		DIP	197- 44
181▼	45-27B	CMOS	MC14527BCLDS	MOTA		DIP	197- 45
182▼	45-27B	CMOS	MC14527BCLS	MOTA		DIP	197- 46
183♦	45-27B	CMOS	MC14527BCP	MOTA		DIP	197- 47
184▼	45-27B	CMOS	MC14527BCPD	MOTA		DIP	197- 48
185▼	45-27B	CMOS	MC14527BCPDS	MOTA		DIP	197- 49
186▼	45-27B	CMOS	MC14527BCPS	MOTA		DIP	197- 50
187▼	45-27B	CMOS	MC14527BDW	MOTA		DIP	197- 51
188♦	45-27B	CMOS	SCL4527B	SSS		DIP	197- 42
189♦	45-27B	CMOS	TC4527BP	IMTM		DIP	197- 41
190♦	45-27B	CMOS	TC4527BP	TOSJ		DIP	197- 41
191	45-27B	CMOS	883C4527B	SSS		DIP	197- 80
192	45-28	CMOS	BCL4528B	SSS		DIP	189- 63
193♦	45-28	CMOS	CD4538BD	RCA		DIP	189- 93
194♦	45-28	CMOS	CD4538BE	RCA		DIP	189- 94
195♦	45-28	CMOS	CD4538BF	RCA		DIP	189- 95
196	45-28	CMOS	CD54HCT4538F	RCA		DIP	189- 73
197	45-28	CMOS	CD54HC4538F	RCA		DIP	189- 69
198♦	45-28	CMOS	CD74HCT4538E	RCA		DIP	189- 88
199	45-28	CMOS	CD74HCT4538M	RCA	*	SO	189- 89
200	45-28	CMOS	CD74HC4538E	RCA		DIP	189- 80
201	45-28	CMOS	CD74HC4538M	RCA	*	SO	189- 81
202▼	45-28	CMOS	HD74HC4538FP	HITJ	*	SO	190- 11
203▼	45-28	CMOS	HD74HC4538P	HITJ		DIP	190- 12
204♦	45-28	CMOS	HEF4528B	VALG		DIP	190- 17
205♦	45-28	CMOS	HEF4528BD	MULB		DIP	190- 18
206♦	45-28	CMOS	HEF4528BD	PHIN		DIP	190- 18
207♦	45-28	CMOS	HEF4528BD	RTCF		DIP	190- 18
208♦	45-28	CMOS	HEF4528BD	VALG		DIP	190- 18
209♦	45-28	CMOS	HEF4528BP	MULB		DIP	190- 19
210♦	45-28	CMOS	HEF4528BP	PHIN		DIP	190- 19
211♦	45-28	CMOS	HEF4528BP	RTCF		DIP	190- 19
212♦	45-28	CMOS	HEF4528BP	VALG		DIP	190- 19
213♦	45-28	CMOS	HEF4528BT	MULB	*	SO	190- 20
214♦	45-28	CMOS	HEF4528BT	PHIN	*	SO	190- 20
215♦	45-28	CMOS	HEF4528BT	RTCF	*	SO	190- 20
216♦	45-28	CMOS	HEF4528BT	VALG	*	SO	190- 20
217♦	45-28	CMOS	HEF4538BD	MULB		DIP	190- 21
218♦	45-28	CMOS	HEF4538BD	PHIN		DIP	190- 21
219♦	45-28	CMOS	HEF4538BD	RTCF		DIP	190- 21
220♦	45-28	CMOS	HEF4538BD	VALG		DIP	190- 21

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	45-28	CMOS	HEF4538BDF	SIC		DIP	191- 80
2♦	45-28	CMOS	HEF4538BP	MULB		DIP	190- 22
3♦	45-28	CMOS	HEF4538BP	PHIN		DIP	190- 22
4♦	45-28	CMOS	HEF4538BP	RTCF		DIP	190- 22
5♦	45-28	CMOS	HEF4538BP	VALG		DIP	190- 22
6♦	45-28	CMOS	HEF4538BPN	SIC		DIP	191- 81
7♦	45-28	CMOS	HEF4538BT	MULB	*	SO	190- 23
8♦	45-28	CMOS	HEF4538BT	PHIN	*	SO	190- 23
9♦	45-28	CMOS	HEF4538BT	RTCF	*	SO	190- 23
10♦	45-28	CMOS	HEF4538BT	VALG	*	SO	190- 23
11	45-28	CMOS	HEF4538BTD	SIC	*	SO	190- 24
12♦	45-28	CMOS	LC4528B	TSAJ		DIP	190- 26
13♦	45-28	CMOS	MC14528BAL	MOTA		DIP	190- 60
14▼	45-28	CMOS	MC14528BALD	MOTA		DIP	190- 61
15▼	45-28	CMOS	MC14528BALDS	MOTA		DIP	190- 62
16▼	45-28	CMOS	MC14528BALS	MOTA		DIP	190- 63
17♦	45-28	CMOS	MC14528BCL	MOTA		DIP	190- 64
18▼	45-28	CMOS	MC14528BCLD	MOTA		DIP	190- 65
19▼	45-28	CMOS	MC14528BCLDS	MOTA		DIP	190- 66
20▼	45-28	CMOS	MC14528BCLS	MOTA		DIP	190- 67
21♦	45-28	CMOS	MC14528BCP	MOTA		DIP	190- 68
22▼	45-28	CMOS	MC14528BCPD	MOTA		DIP	190- 69
23▼	45-28	CMOS	MC14528BCPDS	MOTA		DIP	190- 70
24▼	45-28	CMOS	MC14528BCPS	MOTA		DIP	190- 71
25▼	45-28	CMOS	MC14528BD	MOTA		DIP	190- 72
26♦	45-28	CMOS	MC14538BAL	MOTA		DIP	190- 73
27▼	45-28	CMOS	MC14538BALD	MOTA		DIP	190- 74
28▼	45-28	CMOS	MC14538BALDS	MOTA		DIP	190- 75
29▼	45-28	CMOS	MC14538BALS	MOTA		DIP	190- 76
30♦	45-28	CMOS	MC14538BCL	MOTA		DIP	190- 77
31▼	45-28	CMOS	MC14538BCLD	MOTA		DIP	190- 78
32▼	45-28	CMOS	MC14538BCLDS	MOTA		DIP	190- 79
33▼	45-28	CMOS	MC14538BCLS	MOTA		DIP	190- 80
34♦	45-28	CMOS	MC14538BCP	MOTA		DIP	190- 81
35▼	45-28	CMOS	MC14538BCPD	MOTA		DIP	190- 82
36▼	45-28	CMOS	MC14538BCPDS	MOTA		DIP	190- 83
37▼	45-28	CMOS	MC14538BCPS	MOTA		DIP	190- 84
38▼	45-28	CMOS	MC14538BDW	MOTA		DIP	190- 85
39♦	45-28	CMOS	MC54HC4538J(A)	MOTA		DIP	190- 55
40♦	45-28	CMOS	MC74HC4538J(A)	MOTA		DIP	190- 56
41♦	45-28	CMOS	MC74HC4538N(A)	MOTA		DIP	190- 57
42♦	45-28	CMOS	MM54HC4538J	NSC		DIP	190- 90
43♦	45-28	CMOS	MM74HC4538J	NSC		DIP	190- 98
44♦	45-28	CMOS	MM74HC4538N	NSC		DIP	190- 99
45♦	45-28	CMOS	MN4528B	MATJ		DIP	190-100
46♦	45-28	CMOS	M4528BP	MITJ		DIP	190- 46
47♦	45-28	CMOS	M4538BP	MITJ		DIP	190- 47
48♦	45-28	CMOS	TC4528BP	IMTM		DIP	191- 76
49♦	45-28	CMOS	TC4528BP	TOSJ		DIP	191- 76
50▼	45-28	CMOS	TC74HC4538F(A)	TOSA	*	SO	191- 74
51▼	45-28	CMOS	TC74HC4538P(A)	TOSA		DIP	191- 75
52	45-28	CMOS	UPD4528BG	NECJ	*	SO	191- 78
53	45-28	CMOS	UPD4538BG	NECJ	*	SO	191- 79
54♦	45-28	CMOS	4528BDC	FSC		DIP	189- 47
55♦	45-28	CMOS	4528BDM	FSC		DIP	189- 48
56	45-28	CMOS	4528BFC	FSC	*	FP	189- 49
57	45-28	CMOS	4528BFM	FSC	*	FP	189- 50
58	45-28	CMOS	4528BPC	FSC			189- 51
59	45-28	CMOS	883C4528B	SSS		DIP	189- 45
60♦	45-28	TTL	AM26S02DC	AMD		DIP	189- 61
61♦	45-28	TTL	AM26S02PC	AMD		DIP	189- 62
62♦	45-28	TTL	DM8602J	NSC		DIP	189-100
63♦	45-28	TTL	DM8602N	NSC		DIP	189-101
64	45-28	TTL	DM8602W	NSC	*	FP	189-102
65♦	45-28	TTL	DM9602J	NSC		DIP	189-106
66♦	45-28	TTL	DM9602N	NSC		DIP	189-107
67	45-28	TTL	DM9602W	NSC	*	FP	189-108
68♦	45-28	TTL	N9602B	MULB		DIP	190-105
69♦	45-28	TTL	N9602B	PHIN		DIP	190-105
70♦	45-28	TTL	N9602F	MULB		DIP	190-106
71♦	45-28	TTL	N9602F	PHIN		DIP	190-106
72	45-28	TTL	N9602W	MULB	*	FP	190-107
73	45-28	TTL	N9602W	PHIN	*	FP	190-107
74♦	45-28	TTL	S9602B	MULB		DIP	191- 40
75♦	45-28	TTL	S9602B	PHIN		DIP	191- 40
76♦	45-28	TTL	S9602F	MULB		DIP	191- 41
77♦	45-28	TTL	S9602F	PHIN		DIP	191- 41
78♦	45-28	TTL	S9602F	SIC		DIP	191- 41
79	45-28	TTL	S9602W	MULB	*	FP	191- 42
80	45-28	TTL	S9602W	PHIN	*	FP	191- 42
81	45-28	TTL	S9602W	SIC	*	FP	191- 42
82♦	45-28	TTL	96LS02DC	FSC		DIP	189- 39
83♦	45-28	TTL	96LS02DM	FSC		DIP	189- 40
84	45-28	TTL	96LS02FM	FSC	*	FP	189- 41
85	45-28	TTL	96LS02PC	FSC			189- 42
86♦	45-28	TTL	96L02DC	FSC		DIP	189- 35
87♦	45-28	TTL	96L02DM	FSC		DIP	189- 36
88	45-28	TTL	96L02FM	FSC	*	FP	189- 37
89	45-28	TTL	96L02PC	FSC			189- 38
90♦	45-28	TTL	96S02DC	FSC		DIP	189- 43
91	45-28	TTL	96S02PC	FSC			189- 44
92♦	45-28	TTL	9602DC	FSC		DIP	189- 53
93♦	45-28	TTL	9602DM	FSC		DIP	189- 54
94	45-28	TTL	9602FM	FSC	*	FP	189- 55
95	45-28	TTL	9602PC	FSC			189- 56
96▼	45-28B	CMOS	BU4538B	RHM		DIP	189- 64
97▼	45-28B	CMOS	BU4538BF	RHM	*	SO	189- 65
98▼	45-28B	CMOS	M54HC4538F1(A)	SGSI		DIP	190- 30
99▼	45-28B	CMOS	M74HC4538B1(A)	SGSI		DIP	190- 40
100▼	45-28B	CMOS	M74HC4538F1(A)	SGSI		DIP	190- 42
101♦	45-28B	CMOS	SCL4528B(1)	SSS		DIP	191- 48
102♦	45-30B	MOS	MC14530BAL	MOTA		DIP	245- 95
103▼	45-30B	MOS	MC14530BALD	MOTA		DIP	245- 96
104▼	45-30B	MOS	MC14530BALDS	MOTA		DIP	245- 97
105▼	45-30B	MOS	MC14530BALS	MOTA		DIP	245- 98
106♦	45-30B	MOS	MC14530BCL	MOTA		DIP	245- 99
107▼	45-30B	MOS	MC14530BCLD	MOTA		DIP	245-100
108▼	45-30B	MOS	MC14530BCLDS	MOTA		DIP	245-101
109▼	45-30B	MOS	MC14530BCLS	MOTA		DIP	245-102
110♦	45-30B	MOS	MC14530BCP	MOTA		DIP	245-103
111▼	45-30B	MOS	MC14530BCPD	MOTA		DIP	245-104
112▼	45-30B	MOS	MC14530BCPDS	MOTA		DIP	245-105
113▼	45-30B	MOS	MC14530BCPS	MOTA		DIP	245-106
114▼	45-30B	MOS	MC14530BD	MOTA		DIP	245-107
115	45-30B	MOS	TC4530BP	IMTM		DIP	246- 11
116	45-30B	MOS	TC4530BP	TOSJ		DIP	246- 11
117	45-31B	CMOS	BCL4531B	SSS		DIP	228- 18
118	45-31B	CMOS	HEF4531	RTCF		DIP	228- 6
119♦	45-31B	CMOS	HEF4531B	VALG		DIP	227- 80
120♦	45-31B	CMOS	HEF4531BD	MULB		DIP	228- 9
121♦	45-31B	CMOS	HEF4531BD	PHIN		DIP	228- 9
122♦	45-31B	CMOS	HEF4531BD	RTCF		DIP	228- 9
123♦	45-31B	CMOS	HEF4531BD	VALG		DIP	228- 9
124♦	45-31B	CMOS	HEF4531BP	MULB		DIP	228- 10
125♦	45-31B	CMOS	HEF4531BP	PHIN		DIP	228- 10
126♦	45-31B	CMOS	HEF4531BP	RTCF		DIP	228- 10
127♦	45-31B	CMOS	HEF4531BP	VALG		DIP	228- 10
128♦	45-31B	CMOS	HEF4531BPN	SIC		DIP	228- 7
129♦	45-31B	CMOS	HEF4531BT	MULB	*	SO	228- 11
130♦	45-31B	CMOS	HEF4531BT	PHIN	*	SO	228- 11
131♦	45-31B	CMOS	HEF4531BT	RTCF	*	SO	228- 11
132♦	45-31B	CMOS	HEF4531BT	VALG	*	SO	228- 11
133	45-31B	CMOS	HEF4531BTD	SIC	*	SO	228- 8
134♦	45-31B	CMOS	MC14531BAL	MOTA		DIP	228- 19
135▼	45-31B	CMOS	MC14531BALD	MOTA		DIP	228- 20
136▼	45-31B	CMOS	MC14531BALDS	MOTA		DIP	228- 21
137▼	45-31B	CMOS	MC14531BALS	MOTA		DIP	228- 22
138♦	45-31B	CMOS	MC14531BCL	MOTA		DIP	228- 23
139▼	45-31B	CMOS	MC14531BCLD	MOTA		DIP	228- 24
140▼	45-31B	CMOS	MC14531BCLDS	MOTA		DIP	228- 25
141▼	45-31B	CMOS	MC14531BCLS	MOTA		DIP	228- 26
142♦	45-31B	CMOS	MC14531BCP	MOTA		DIP	228- 27
143▼	45-31B	CMOS	MC14531BCPD	MOTA		DIP	228- 28
144▼	45-31B	CMOS	MC14531BCPDS	MOTA		DIP	228- 29
145▼	45-31B	CMOS	MC14531BCPS	MOTA		DIP	228- 30
146▼	45-31B	CMOS	MC14531BD	MOTA		DIP	228- 31
147♦	45-31B	CMOS	SCL4531B	SSS		DIP	228- 33
148♦	45-31B	CMOS	TC4531BP	IMTM		DIP	228- 32
149♦	45-31B	CMOS	TC4531BP	TOSJ		DIP	228- 32
150♦	45-31B	CMOS	4531BDC	FSC		DIP	228- 12
151♦	45-31B	CMOS	4531BDM	FSC		DIP	228- 13
152	45-31B	CMOS	4531BFC	FSC	*	FP	228- 14
153	45-31B	CMOS	4531BFM	FSC	*	FP	228- 15
154	45-31B	CMOS	4531BPC	FSC			228- 16
155	45-31B	CMOS	883C4531B	SSS		DIP	228- 17
156♦	45-34B	CMOS	HEF4534	RTCF		DIP	182- 99
157♦	45-34B	CMOS	HEF4534BD	MULB		DIP	182- 79
158♦	45-34B	CMOS	HEF4534BD	PHIN		DIP	182- 79
159♦	45-34B	CMOS	HEF4534BD	RTCF		DIP	182- 79
160♦	45-34B	CMOS	HEF4534BD	VALG		DIP	182- 79
161♦	45-34B	CMOS	HEF4534BP	MULB		DIP	182- 80
162♦	45-34B	CMOS	HEF4534BP	PHIN		DIP	182- 80
163♦	45-34B	CMOS	HEF4534BP	RTCF		DIP	182- 80
164♦	45-34B	CMOS	HEF4534BP	VALG		DIP	182- 80
165♦	45-34B	CMOS	HEF4534BT	MULB	*	SO	182- 81
166♦	45-34B	CMOS	HEF4534BT	PHIN	*	SO	182- 81
167♦	45-34B	CMOS	HEF4534BT	RTCF	*	SO	182- 81
168♦	45-34B	CMOS	HEF4534BT	VALG	*	SO	182- 81
169♦	45-34B	CMOS	MC14534BAL	MOTA		DIP	182- 87
170▼	45-34B	CMOS	MC14534BALD	MOTA		DIP	182- 88
171▼	45-34B	CMOS	MC14534BALDS	MOTA		DIP	182- 89
172▼	45-34B	CMOS	MC14534BALS	MOTA		DIP	182- 90
173♦	45-34B	CMOS	MC14534BCL	MOTA		DIP	182- 91
174▼	45-34B	CMOS	MC14534BCLD	MOTA		DIP	182- 92
175▼	45-34B	CMOS	MC14534BCLDS	MOTA		DIP	182- 93
176▼	45-34B	CMOS	MC14534BCLS	MOTA		DIP	182- 94
177♦	45-34B	CMOS	MC14534BCP	MOTA		DIP	182- 95
178▼	45-34B	CMOS	MC14534BCPD	MOTA		DIP	182- 96
179▼	45-34B	CMOS	MC14534BCPDS	MOTA		DIP	182- 97
180▼	45-34B	CMOS	MC14534BCPS	MOTA		DIP	182- 98
181♦	45-38	CMOS	PC54HCT4538D(A)	MULB		DIP	191- 11
182♦	45-38	CMOS	PC54HCT4538D(A)	PHIN		DIP	191- 11
183♦	45-38	CMOS	PC54HCT4538D(A)	RTCF		DIP	191- 11
184♦	45-38	CMOS	PC54HCT4538D(A)	VALG		DIP	191- 11
185♦	45-38	CMOS	PC54HC4538D(A)	MULB		DIP	191- 7
186♦	45-38	CMOS	PC54HC4538D(A)	PHIN		DIP	191- 7
187♦	45-38	CMOS	PC54HC4538D(A)	RTCF		DIP	191- 7
188♦	45-38	CMOS	PC54HC4538D(A)	VALG		DIP	191- 7
189♦	45-38	CMOS	PC74HCT4538D(A)	MULB		DIP	191- 33
190♦	45-38	CMOS	PC74HCT4538D(A)	PHIN		DIP	191- 33
191♦	45-38	CMOS	PC74HCT4538D(A)	RTCF		DIP	191- 33
192♦	45-38	CMOS	PC74HCT4538D(A)	VALG		DIP	191- 33
193♦	45-38	CMOS	PC74HCT4538P	MULB		DIP	191- 34
194♦	45-38	CMOS	PC74HCT4538P	PHIN		DIP	191- 34
195♦	45-38	CMOS	PC74HCT4538P	RTCF		DIP	191- 34
196♦	45-38	CMOS	PC74HCT4538P	VALG		DIP	191- 34
197	45-38	CMOS	PC74HCT4538T	MULB	*	SO	191- 35
198	45-38	CMOS	PC74HCT4538T	PHIN	*	SO	191- 35
199	45-38	CMOS	PC74HCT4538T	RTCF	*	SO	191- 35
200	45-38	CMOS	PC74HCT4538T	VALG	*	SO	191- 35
201♦	45-38	CMOS	PC74HC4538D(A)	MULB		DIP	191- 21
202♦	45-38	CMOS	PC74HC4538D(A)	PHIN		DIP	191- 21
203♦	45-38	CMOS	PC74HC4538D(A)	RTCF		DIP	191- 21
204♦	45-38	CMOS	PC74HC4538D(A)	VALG		DIP	191- 21
205♦	45-38	CMOS	PC74HC4538P	MULB		DIP	191- 22
206♦	45-38	CMOS	PC74HC4538P	PHIN		DIP	191- 22
207♦	45-38	CMOS	PC74HC4538P	RTCF		DIP	191- 22
208♦	45-38	CMOS	PC74HC4538P	VALG		DIP	191- 22
209	45-38	CMOS	PC74HC4538T	MULB	*	SO	191- 23
210	45-38	CMOS	PC74HC4538T	PHIN	*	SO	191- 23
211	45-38	CMOS	PC74HC4538T	RTCF	*	SO	191- 23
212	45-38	CMOS	PC74HC4538T	VALG	*	SO	191- 23
213	45-38	CMOS	74HCT4538D	SIC	*	SO	189- 33
214♦	45-38	CMOS	74HCT4538N	SIC		DIP	189- 34
215	45-38	CMOS	74HC4538D	SIC	*	SO	189- 25
216♦	45-38	CMOS	74HC4538N	SIC		DIP	189- 26
217♦	45-41B	CMOS	HEF4541BD	PHIN		DIP	187- 99
218♦	45-41B	CMOS	HEF4541BP	PHIN		DIP	187-100
219♦	45-41B	CMOS	HEF4541BT	PHIN	*	SO	187-101
220♦	45-53B	CMOS	MC14553BAL	MOTA		DIP	182- 66

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1▼	45-53B	CMOS	MC14553BALD	MOTA		DIP	182- 67
2▼	45-53B	CMOS	MC14553BALDS	MOTA		DIP	182- 68
3▼	45-53B	CMOS	MC14553BALS	MOTA		DIP	182- 69
4♦	45-53B	CMOS	MC14553BCL	MOTA		DIP	182- 70
5▼	45-53B	CMOS	MC14553BCLD	MOTA		DIP	182- 71
6▼	45-53B	CMOS	MC14553BCLDS	MOTA		DIP	182- 72
7▼	45-53B	CMOS	MC14553BCLS	MOTA		DIP	182- 73
8♦	45-53B	CMOS	MC14553BCP	MOTA		DIP	182- 74
9▼	45-53B	CMOS	MC14553BCPD	MOTA		DIP	182- 75
10▼	45-53B	CMOS	MC14553BCPDS	MOTA		DIP	182- 76
11▼	45-53B	CMOS	MC14553BCPS	MOTA		DIP	182- 77
12▼	45-53B	CMOS	MC14553BDW	MOTA		DIP	182- 78
13♦	45-54B	CMOS	MC14554BAL	MOTA		DIP	202- 10
14▼	45-54B	CMOS	MC14554BALD	MOTA		DIP	202- 11
15▼	45-54B	CMOS	MC14554BALDS	MOTA		DIP	202- 12
16▼	45-54B	CMOS	MC14554BALS	MOTA		DIP	202- 13
17♦	45-54B	CMOS	MC14554BCL	MOTA		DIP	202- 14
18▼	45-54B	CMOS	MC14554BCLD	MOTA		DIP	202- 15
19▼	45-54B	CMOS	MC14554BCLDS	MOTA		DIP	202- 16
20▼	45-54B	CMOS	MC14554BCLS	MOTA		DIP	202- 17
21♦	45-54B	CMOS	MC14554BCP	MOTA		DIP	202- 18
22▼	45-54B	CMOS	MC14554BCPD	MOTA		DIP	202- 19
23▼	45-54B	CMOS	MC14554BCPDS	MOTA		DIP	202- 20
24▼	45-54B	CMOS	MC14554BCPS	MOTA		DIP	202- 21
25▼	45-54B	CMOS	MC14554BD	MOTA		DIP	202- 22
26	45-55B	CMOS	BCL4555B	SSS		DIP	126- 23
27♦	45-55B	CMOS	SCL4555B(2)	SSS		DIP	126- 16
28	45-60	CMOS	CD4560BD	RCA		DIP	201- 41
29	45-60	CMOS	CD4560BE	RCA		DIP	201- 42
30	45-60	CMOS	CD4560BF	RCA		DIP	201- 43
31	45-60	CMOS	CD4560BK	RCA	*	FP	201- 44
32♦	45-60B	CMOS	MC14560BAL	MOTA		DIP	201- 49
33▼	45-60B	CMOS	MC14560BALD	MOTA		DIP	201- 50
34▼	45-60B	CMOS	MC14560BALDS	MOTA		DIP	201- 51
35▼	45-60B	CMOS	MC14560BALS	MOTA		DIP	201- 52
36♦	45-60B	CMOS	MC14560BCL	MOTA		DIP	201- 67
37▼	45-60B	CMOS	MC14560BCLD	MOTA		DIP	201- 68
38▼	45-60B	CMOS	MC14560BCLDS	MOTA		DIP	201- 69
39▼	45-60B	CMOS	MC14560BCLS	MOTA		DIP	201- 70
40♦	45-60B	CMOS	MC14560BCP	MOTA		DIP	201- 71
41▼	45-60B	CMOS	MC14560BCPD	MOTA		DIP	201- 72
42▼	45-60B	CMOS	MC14560BCPDS	MOTA		DIP	201- 73
43▼	45-60B	CMOS	MC14560BCPS	MOTA		DIP	201- 74
44▼	45-60B	CMOS	MC14560BD	MOTA		DIP	201- 75
45♦	45-60B	CMOS	MM54HC4560J(A)	NSC		DIP	200- 79
46♦	45-60B	CMOS	MM74HC4560J(A)	NSC		DIP	200- 67
47♦	45-60B	CMOS	MM74HC4560N(A)	NSC		DIP	200- 68
48♦	45-60B	CMOS	TC4560BP	IMTM		DIP	201- 62
49♦	45-60B	CMOS	TC4560BP	TOSJ		DIP	201- 62
50	45-66	CMOS	CD4566BD	RCA		DIP	246- 41
51	45-66	CMOS	CD4566BE	RCA		DIP	246- 42
52	45-66	CMOS	CD4566BF	RCA		DIP	246- 43
53	45-66	CMOS	CD4566BK	RCA	*	FP	246- 44
54♦	45-66	CMOS	HD14566B	HITJ		DIP	246- 45
55♦	45-66	MOS	MC14566BAL	MOTA		DIP	246-110
56▼	45-66	MOS	MC14566BALD	MOTA		DIP	247- 1
57▼	45-66	MOS	MC14566BALDS	MOTA		DIP	247- 2
58▼	45-66	MOS	MC14566BALS	MOTA		DIP	247- 3
59♦	45-66	MOS	MC14566BCL	MOTA		DIP	247- 4
60▼	45-66	MOS	MC14566BCLD	MOTA		DIP	247- 5
61▼	45-66	MOS	MC14566BCLDS	MOTA		DIP	247- 6
62▼	45-66	MOS	MC14566BCLS	MOTA		DIP	247- 7
63♦	45-66	MOS	MC14566BCP	MOTA		DIP	247- 8
64▼	45-66	MOS	MC14566BCPD	MOTA		DIP	247- 9
65▼	45-66	MOS	MC14566BCPDS	MOTA		DIP	247- 10
66▼	45-66	MOS	MC14566BCPS	MOTA		DIP	247- 11
67▼	45-66	MOS	MC14566BD	MOTA		DIP	247- 12
68♦	45-69	CMOS	MC14569BAL	MOTA		DIP	196- 27
69▼	45-69	CMOS	MC14569BALD	MOTA		DIP	196- 28
70▼	45-69	CMOS	MC14569BALDS	MOTA		DIP	196- 29
71▼	45-69	CMOS	MC14569BALS	MOTA		DIP	196- 30
72♦	45-69	CMOS	MC14569BCL	MOTA		DIP	196- 31
73▼	45-69	CMOS	MC14569BCLD	MOTA		DIP	196- 32
74▼	45-69	CMOS	MC14569BCLDS	MOTA		DIP	196- 33
75▼	45-69	CMOS	MC14569BCLS	MOTA		DIP	196- 34
76♦	45-69	CMOS	MC14569BCP	MOTA		DIP	196- 35
77▼	45-69	CMOS	MC14569BCPD	MOTA		DIP	196- 36
78▼	45-69	CMOS	MC14569BCPDS	MOTA		DIP	196- 37
79▼	45-69	CMOS	MC14569BCPS	MOTA		DIP	196- 38
80▼	45-69	CMOS	MC14569BDW	MOTA		DIP	196- 39
81♦	45-72	CMOS	CD4572UBD(A)	RCA		DIP	94- 76
82♦	45-72	CMOS	CD4572UBE(A)	RCA		DIP	94- 77
83♦	45-72	CMOS	CD4572UBF(A)	RCA		DIP	94- 78
84♦	45-72	CMOS	CD4572UBK(A)	RCA	*	FP	94- 79
85♦	45-72U	CMOS	M4572BP	MITJ		DIP	94- 75
86♦	45-72U	MOS	MC14572UBAL	MOTA		DIP	245-108
87▼	45-72U	MOS	MC14572UBALD	MOTA		DIP	245-109
88▼	45-72U	MOS	MC14572UBALDS	MOTA		DIP	245-110
89▼	45-72U	MOS	MC14572UBALS	MOTA		DIP	246- 1
90♦	45-72U	MOS	MC14572UBCL	MOTA		DIP	246- 2
91▼	45-72U	MOS	MC14572UBCLD	MOTA		DIP	246- 3
92▼	45-72U	MOS	MC14572UBCLDS	MOTA		DIP	246- 4
93▼	45-72U	MOS	MC14572UBCLS	MOTA		DIP	246- 5
94♦	45-72U	MOS	MC14572UBCP	MOTA		DIP	246- 6
95▼	45-72U	MOS	MC14572UBCPD	MOTA		DIP	246- 7
96▼	45-72U	MOS	MC14572UBCPDS	MOTA		DIP	246- 8
97▼	45-72U	MOS	MC14572UBCPS	MOTA		DIP	246- 9
98▼	45-72U	MOS	MC14572UBD	MOTA		DIP	246- 10
99♦	45-72U	MOS	TC4572BP	IMTM		DIP	246- 12
100♦	45-72U	MOS	TC4572BP	TOSJ		DIP	246- 12
101♦	45-85	CMOS	40085BDC	FSC		DIP	217- 48
102♦	45-85	CMOS	40085BDM	FSC		DIP	217- 49
103	45-85	CMOS	40085BFC	FSC	*	FP	217- 50
104	45-85	CMOS	40085BFM	FSC	*	FP	217- 51
105	45-85	CMOS	40085BPC	FSC			217- 52
106	45-85B	CMOS	BCL4585B	SSS		DIP	217- 64
107	45-85B	CMOS	CD4585BD	RCA		DIP	217- 74
108	45-85B	CMOS	CD4585BE	RCA		DIP	217- 75
109	45-85B	CMOS	CD4585BF	RCA		DIP	217- 76
110♦	45-85B	CMOS	HD14585B	HITJ		DIP	217- 95
111	45-85B	CMOS	HEF4585	RTCF		DIP	217- 45
112♦	45-85B	CMOS	HEF4585BD	MULB		DIP	217- 60
113♦	45-85B	CMOS	HEF4585BD	PHIN		DIP	217- 60
114♦	45-85B	CMOS	HEF4585BD	RTCF		DIP	217- 60
115♦	45-85B	CMOS	HEF4585BD	VALG		DIP	217- 60
116♦	45-85B	CMOS	HEF4585BP	MULB		DIP	217- 61
117♦	45-85B	CMOS	HEF4585BP	PHIN		DIP	217- 61
118♦	45-85B	CMOS	HEF4585BP	RTCF		DIP	217- 61
119♦	45-85B	CMOS	HEF4585BP	VALG		DIP	217- 61
120♦	45-85B	CMOS	HEF4585BPN	SIC		DIP	217- 46
121♦	45-85B	CMOS	HEF4585BT	MULB	*	SO	217- 62
122♦	45-85B	CMOS	HEF4585BT	PHIN	*	SO	217- 62
123♦	45-85B	CMOS	HEF4585BT	RTCF	*	SO	217- 62
124♦	45-85B	CMOS	HEF4585BT	VALG	*	SO	217- 62
125	45-85B	CMOS	HEF4585BTD	SIC	*	SO	217- 47
126♦	45-85B	CMOS	MC14585BAL	MOTA		DIP	217- 70
127▼	45-85B	CMOS	MC14585BALD	MOTA		DIP	217- 71
128▼	45-85B	CMOS	MC14585BALDS	MOTA		DIP	217- 72
129▼	45-85B	CMOS	MC14585BALS	MOTA		DIP	217- 73
130♦	45-85B	CMOS	MC14585BCL	MOTA		DIP	217- 77
131▼	45-85B	CMOS	MC14585BCLD	MOTA		DIP	217- 78
132▼	45-85B	CMOS	MC14585BCLDS	MOTA		DIP	217- 79
133▼	45-85B	CMOS	MC14585BCLS	MOTA		DIP	217- 80
134♦	45-85B	CMOS	MC14585BCP	MOTA		DIP	217- 81
135▼	45-85B	CMOS	MC14585BCPD	MOTA		DIP	217- 82
136▼	45-85B	CMOS	MC14585BCPDS	MOTA		DIP	217- 83
137▼	45-85B	CMOS	MC14585BCPS	MOTA		DIP	217- 84
138▼	45-85B	CMOS	MC14585BD	MOTA		DIP	217- 85
139♦	45-85B	CMOS	MSM4585RS	OKIJ		DIP	217- 96
140♦	45-85B	CMOS	M4585BP	MITJ		DIP	217- 91
141♦	45-85B	CMOS	SCL4585B	SSS		DIP	217- 92
142♦	45-85B	CMOS	TC4585BP	IMTM		DIP	217- 93
143♦	45-85B	CMOS	TC4585BP	TOSJ		DIP	217- 93
144	45-85B	CMOS	883C4585B	SSS		DIP	217- 63
145♦	45-97	CMOS	MC14597BAL	MOTA		DIP	241- 29
146▼	45-97	CMOS	MC14597BALD	MOTA		DIP	241- 30
147▼	45-97	CMOS	MC14597BALDS	MOTA		DIP	241- 31
148▼	45-97	CMOS	MC14597BALS	MOTA		DIP	241- 32
149♦	45-97	CMOS	MC14597BCL	MOTA		DIP	241- 33
150▼	45-97	CMOS	MC14597BCLD	MOTA		DIP	241- 34
151▼	45-97	CMOS	MC14597BCLDS	MOTA		DIP	241- 35
152▼	45-97	CMOS	MC14597BCLS	MOTA		DIP	241- 36
153♦	45-97	CMOS	MC14597BCP	MOTA		DIP	241- 37
154▼	45-97	CMOS	MC14597BCPD	MOTA		DIP	241- 38
155▼	45-97	CMOS	MC14597BCPDS	MOTA		DIP	241- 39
156▼	45-97	CMOS	MC14597BCPS	MOTA		DIP	241- 40
157▼	45-97	CMOS	MC14597BDW	MOTA		DIP	241- 41
158♦	45-98	CMOS	MC14598BAL	MOTA		DIP	241- 42
159▼	45-98	CMOS	MC14598BALD	MOTA		DIP	241- 43
160♦	45-98	CMOS	MC14598BCL	MOTA		DIP	241- 44
161▼	45-98	CMOS	MC14598BCLD	MOTA		DIP	241- 45
162	45-98	CMOS	MC14598BCP	MOTA		DIP	241- 46
163▼	45-98	CMOS	MC14598BCPD	MOTA		DIP	241- 47
164♦	45-99	CMOS	MC14599BAL	MOTA		DIP	240-110
165▼	45-99	CMOS	MC14599BALD	MOTA		DIP	241- 1
166▼	45-99	CMOS	MC14599BALDS	MOTA		DIP	241- 2
167▼	45-99	CMOS	MC14599BALS	MOTA		DIP	241- 3
168♦	45-99	CMOS	MC14599BCL	MOTA		DIP	241- 4
169▼	45-99	CMOS	MC14599BCLD	MOTA		DIP	241- 5
170▼	45-99	CMOS	MC14599BCLDS	MOTA		DIP	241- 6
171▼	45-99	CMOS	MC14599BCLS	MOTA		DIP	241- 7
172	45-99	CMOS	MC14599BCP	MOTA		DIP	241- 8
173▼	45-99	CMOS	MC14599BCPD	MOTA		DIP	241- 9
174▼	45-99	CMOS	MC14599BCPDS	MOTA		DIP	241- 10
175▼	45-99	CMOS	MC14599BCPS	MOTA		DIP	241- 11
176▼	45-99	CMOS	MC14599BDW	MOTA		DIP	241- 12
177♦	47-23B	CMOS	CD4723BCJ	NSC		DIP	232- 93
178♦	47-23B	CMOS	CD4723BCN	NSC		DIP	232- 94
179♦	47-23B	CMOS	CD4723BMJ	NSC		DIP	232- 95
180♦	47-23B	CMOS	CD4723BMW	NSC	*	FP	232- 96
181♦	47-23B	CMOS	4723BDC	FSC		DIP	232- 38
182♦	47-23B	CMOS	4723BDM	FSC		DIP	232- 39
183	47-23B	CMOS	4723BFC	FSC	*	FP	232- 40
184	47-23B	CMOS	4723BFM	FSC	*	FP	232- 41
185	47-23B	CMOS	4723BPC	FSC			232- 42
186♦	47-24B	CMOS	CD4724BCJ	NSC		DIP	241- 22
187♦	47-24B	CMOS	CD4724BCN	NSC		DIP	241- 23
188♦	47-24B	CMOS	CD4724BD	RCA		DIP	241- 24
189♦	47-24B	CMOS	CD4724BE	RCA		DIP	241- 25
190♦	47-24B	CMOS	CD4724BF	RCA		DIP	241- 26
191♦	47-24B	CMOS	CD4724BMJ	NSC		DIP	241- 27
192♦	47-24B	CMOS	CD4724BMW	NSC	*	FP	241- 28
193	47-24B	CMOS	HEF4724	RTCF		DIP	240- 76
194♦	47-24B	CMOS	HEF4724BD	PHIN		DIP	240- 89
195♦	47-24B	CMOS	HEF4724BP	PHIN		DIP	240- 90
196♦	47-24B	CMOS	HEF4724BPN	SIC		DIP	240- 77
197♦	47-24B	CMOS	HEF4724BT	PHIN	*	SO	240- 91
198♦	47-24B	CMOS	HEF4724BTD	SIC	*	SO	240- 78
199♦	47-24B	CMOS	SN74HC4724N	TII		DIP	238- 61
200♦	47-24B	CMOS	4724BDC	FSC		DIP	240- 82
201♦	47-24B	CMOS	4724BDM	FSC		DIP	240- 83
202	47-24B	CMOS	4724BFC	FSC	*	FP	240- 84
203	47-24B	CMOS	4724BFM	FSC	*	FP	240- 85
204	47-24B	CMOS	4724BPC	FSC			240- 86
205♦	47-27B	CMOS	4727BDC	FSC		DIP	166- 8
206♦	47-27B	CMOS	4727BDM	FSC		DIP	166- 9
207♦	47-27B	CMOS	4727BFC	FSC	*	FP	166- 10
208♦	47-27B	CMOS	4727BFM	FSC	*	FP	166- 11
209♦	47-27B	CMOS	4727BPC	FSC		DIP	166- 12
210♦	47-37B	CMOS	HEF4737	RTCF		DIP	172- 43
211▼	47-37B	CMOS	HEF4737BD	PHIN		DIP	182- 82
212♦	47-37B	CMOS	HEF4737BP	MULB		DIP	182- 83
213♦	47-37B	CMOS	HEF4737BP	PHIN		DIP	182- 83
214♦	47-37B	CMOS	HEF4737BP	RTCF		DIP	182- 83
215♦	47-37B	CMOS	HEF4737BP	VALG		DIP	182- 83
216♦	47-37B	CMOS	HEF4737BPN	SIC		DIP	181- 99
217▼	47-37B	CMOS	HEF4737VD	PHIN		DIP	182- 84
218▼	47-37B	CMOS	HEF4737VP	PHIN		DIP	182- 85
219♦	47-37B	CMOS	HEF4737VPN	SIC		DIP	165- 51
220♦	47-37B	CMOS	4737BDC	FSC		DIP	166- 13

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	47-37B	CMOS	4737BDM	FSC		DIP	166- 14
2♦	47-37B	CMOS	4737BFC	FSC	*	FP	166- 15
3♦	47-37B	CMOS	4737BFM	FSC	*	FP	166- 16
4♦	47-37B	CMOS	4737BPC	FSC		DIP	166- 17
5♦	47-51	CMOS	HEF4751VD	MULB		DIP	196- 50
6♦	47-51	CMOS	HEF4751VD	PHIN		DIP	196- 50
7♦	47-51	CMOS	HEF4751VD	RTCF		DIP	196- 50
8♦	47-51	CMOS	HEF4751VD	VALG		DIP	196- 50
9♦	47-51	CMOS	HEF4751VP	MULB		DIP	196- 51
10♦	47-51	CMOS	HEF4751VP	PHIN		DIP	196- 51
11♦	47-51	CMOS	HEF4751VP	RTCF		DIP	196- 51
12♦	47-51	CMOS	HEF4751VP	VALG		DIP	196- 51
13♦	47-51	CMOS	HEF4751VT	MULB	*	SO	196- 40
14♦	47-51	CMOS	HEF4751VT	PHIN	*	SO	196- 40
15♦	47-51	CMOS	HEF4751VT	RTCF	*	SO	196- 40
16♦	47-51	CMOS	HEF4751VT	VALG	*	SO	196- 40
17♦	47-53	CMOS	HEF4753BD	PHIN		DIP	169- 99
18♦	47-53	CMOS	HEF4753BP	PHIN		DIP	169-100
19♦	47-53	CMOS	HEF4753BPN	SIC		DIP	165- 52
20▼	50CO26	NMOS	COM5026	SMC		DIP	193- 40
21▼	50CO26	NMOS	COM5026T	SMC		DIP	193- 41
22▼	50CO26	NMOS	COM5046	SMC		DIP	193- 42
23▼	50CO26	NMOS	COM5046T	SMC		DIP	193- 43
24♦	50-60W	TTL	9006FM	FSC	*	FP	82- 1
25♦	54-00	TTL	DM54S00J	NSC		DIP	98- 25
26▼	54-00W	CMOS	CD54AC00F(A)	RCA		DIP	98- 23
27♦	54-00W	TTL	DM54L00W	NSC	*	FP	100- 55
28♦	54-00W	TTL	DM5400W	NSC	*	FP	99- 22
29♦	54-00W	TTL	SFC400HPM	THEF	*	FP	98- 57
30♦	54-00W	TTL	SFC400LPM	THEF	*	FP	100- 57
31♦	54-00W	TTL	SFC400PM	THEF	*	FP	99- 6
32	54-00W	TTL	S54F00W	SIC	*	FP	97-106
33	54-00W	TTL	S54F00W	VALG	*	FP	97-106
34♦	54-00W	TTL	S54H00W	MULB	*	FP	98- 20
35♦	54-00W	TTL	S54H00W	PHIN	*	FP	98- 20
36♦	54-00W	TTL	S54H00W	VALG	*	FP	98- 20
37♦	54-00W	TTL	S5400W	MULB	*	FP	99- 5
38♦	54-00W	TTL	S5400W	PHIN	*	FP	99- 5
39♦	54-00W	TTL	S5400W	RTCF	*	FP	99- 5
40♦	54-00W	TTL	S5400W	SIC	*	FP	99- 5
41♦	54-00W	TTL	S5400W	VALG	*	FP	99- 5
42♦	54-00W	TTL	54H00FM	FSC	*	FP	98- 40
43♦	54-00W	TTL	5400FM	FSC	*	FP	98-102
44♦	54S00	TTL	74F00SC	FSC	*	SO	98- 1
45♦	54S00W	CMOS	TC40H000F	TOSJ	*	SO	99- 35
46♦	54S00W	DTL	E302D2	SGSI	*	FP	100- 89
47♦	54S00W	DTL	E302D7	SGSI	*	FP	100- 90
48♦	54S00W	DTL	946FM	FSC	*	FP	100- 64
49♦	54S00W	DTL	949FM	FSC	*	FP	100- 25
50♦	54S00W	DTL	9946FC	SGSI	*	FP	100- 98
51♦	54S00W	DTL	9946FM	SGSI	*	FP	100- 65
52♦	54S00W	TTL	DM5437W	NSC	*	FP	98-103
53♦	54S00W	TTL	N8H80J	MULB	*	FP	98- 4
54♦	54S00W	TTL	N8H80J	PHIN	*	FP	98- 4
55♦	54S00W	TTL	S54LS00W	MULB	*	FP	98- 76
56♦	54S00W	TTL	S54LS00W	PHIN	*	FP	98- 76
57♦	54S00W	TTL	S54LS00W	RTCF	*	FP	98- 76
58♦	54S00W	TTL	S54LS00W	SIC	*	FP	98- 76
59♦	54S00W	TTL	S54LS00W	VALG	*	FP	98- 76
60♦	54S00W	TTL	S54S00W	MULB	*	FP	97-107
61♦	54S00W	TTL	S54S00W	PHIN	*	FP	97-107
62♦	54S00W	TTL	S54S00W	RTCF	*	FP	97-107
63♦	54S00W	TTL	S54S00W	SIC	*	FP	97-107
64♦	54S00W	TTL	S54S00W	VALG	*	FP	97-107
65♦	54S00W	TTL	S8H80J	MULB	*	FP	98- 19
66♦	54S00W	TTL	S8H80J	PHIN	*	FP	98- 19
67♦	54S00W	TTL	S8480J	MULB	*	FP	100- 97
68♦	54S00W	TTL	S8480J	PHIN	*	FP	100- 97
69♦	54S00W	TTL	54F00FM	FSC	*	FP	98- 21
70♦	54S00W	TTL	54LS00FM	FSC	*	FP	97-105
71♦	54S00W	TTL	54S00FM	FSC	*	FP	97-102
72♦	54S00W	TTL	9002FM	FSC	*	FP	98- 41
73♦	54-01W	TTL	DM5401W	NSC	*	FP	100- 8
74♦	54-01W	TTL	N8480J	MULB	*	FP	100- 96
75♦	54-01W	TTL	N8480J	PHIN	*	FP	100- 96
76♦	54-01W	TTL	N8880J	MULB	*	FP	98- 67
77♦	54-01W	TTL	N8880J	PHIN	*	FP	98- 67
78♦	54-01W	TTL	N8881J	MULB	*	FP	99- 24
79♦	54-01W	TTL	N8881J	PHIN	*	FP	99- 24
80♦	54-01W	TTL	SFC401HPM	THEF	*	FP	98- 77
81♦	54-01W	TTL	SFC401PM	THEF	*	FP	99- 12
82♦	54-01W	TTL	S54H01W	MULB	*	FP	98- 56
83♦	54-01W	TTL	S54H01W	PHIN	*	FP	98- 56
84♦	54-01W	TTL	S54H01W	VALG	*	FP	98- 56
85♦	54-01W	TTL	S5401W	MULB	*	FP	100- 16
86♦	54-01W	TTL	S5401W	PHIN	*	FP	100- 16
87♦	54-01W	TTL	S5401W	VALG	*	FP	100- 16
88♦	54-01W	TTL	S8880J	MULB	*	FP	98- 70
89♦	54-01W	TTL	S8880J	PHIN	*	FP	98- 70
90♦	54-01W	TTL	S8881J	MULB	*	FP	99- 28
91♦	54-01W	TTL	S8881J	PHIN	*	FP	99- 28
92♦	54-01W	TTL	54H01FM	FSC	*	FP	98- 72
93♦	54-01W	TTL	5401FM	FSC	*	FP	100- 1
94♦	54LS01	TTL	DM54L01J	NSC		DIP	100- 85
95♦	54LS01W	TTL	S54LS01W	MULB	*	FP	99- 64
96♦	54LS01W	TTL	S54LS01W	PHIN	*	FP	99- 64
97♦	54LS01W	TTL	S54LS01W	RTCF	*	FP	99- 64
98♦	54LS01W	TTL	S54LS01W	VALG	*	FP	99- 64
99♦	54-02W	TTL	DM54L02W	NSC	*	FP	114- 66
100♦	54-02W	TTL	DM5402W	NSC	*	FP	113-100
101♦	54-02W	TTL	SFC402P	THEF	*	FP	113-102
102♦	54-02W	TTL	SFC402PM	THEF	*	FP	113-103
103♦	54-02W	TTL	S5402W	MULB	*	FP	113-101
104♦	54-02W	TTL	S5402W	PHIN	*	FP	113-101
105♦	54-02W	TTL	S5402W	VALG	*	FP	113-101
106♦	54-02W	TTL	5402FM	FSC	*	FP	113- 77
107♦	54S02	CMOS	TC40H002F	TOSJ	*	SO	114- 10
108♦	54S02	TTL	DM54S02J	NSC		DIP	113- 65
109♦	54S02	TTL	74F02SC	FSC	*	SO	113- 56
110♦	54S02W	TTL	MC3102F	MOTA	*	FP	113- 59
111♦	54S02W	TTL	S54F02W	SIC	*	FP	113- 68
112♦	54S02W	TTL	S54LS02W	MULB	*	FP	113- 82
113♦	54S02W	TTL	S54LS02W	PHIN	*	FP	113- 82
114♦	54S02W	TTL	S54LS02W	RTCF	*	FP	113- 82
115♦	54S02W	TTL	S54LS02W	SIC	*	FP	113- 82
116♦	54S02W	TTL	S54LS02W	VALG	*	FP	113- 82
117♦	54S02W	TTL	S54S02W	MULB	*	FP	113- 52
118♦	54S02W	TTL	S54S02W	PHIN	*	FP	113- 52
119♦	54S02W	TTL	S54S02W	RTCF	*	FP	113- 52
120♦	54S02W	TTL	S54S02W	SIC	*	FP	113- 52
121♦	54S02W	TTL	S54S02W	VALG	*	FP	113- 52
122♦	54S02W	TTL	54F02FM	FSC	*	FP	113- 63
123♦	54S02W	TTL	54LS02FM	FSC	*	FP	113- 50
124♦	54S03	TTL	DM54L26J	NSC		DIP	100- 86
125♦	54S03	TTL	DM54S03J	NSC		DIP	98- 59
126♦	54S03	TTL	DM5426J	NSC		DIP	99- 17
127♦	54S03W	DTL	MC1918F	MOTA	*	FP	99- 47
128♦	54S03W	TTL	DM5438W	NSC	*	FP	98-104
129♦	54S03W	TTL	N8481J	MULB	*	FP	101- 4
130♦	54S03W	TTL	N8481J	PHIN	*	FP	101- 4
131♦	54S03W	TTL	S54LS03W	MULB	*	FP	99- 65
132♦	54S03W	TTL	S54LS03W	PHIN	*	FP	99- 65
133♦	54S03W	TTL	S54LS03W	RTCF	*	FP	99- 65
134♦	54S03W	TTL	S54LS03W	VALG	*	FP	99- 65
135♦	54S03W	TTL	S54LS26W	MULB	*	FP	99- 66
136♦	54S03W	TTL	S54LS26W	PHIN	*	FP	99- 66
137♦	54S03W	TTL	S54LS26W	RTCF	*	FP	99- 66
138♦	54S03W	TTL	S54LS26W	VALG	*	FP	99- 66
139♦	54S03W	TTL	S54S03W	MULB	*	FP	98- 24
140♦	54S03W	TTL	S54S03W	PHIN	*	FP	98- 24
141♦	54S03W	TTL	S54S03W	SIC	*	FP	98- 24
142♦	54S03W	TTL	S5403W	MULB	*	FP	100- 17
143♦	54S03W	TTL	S5403W	PHIN	*	FP	100- 17
144♦	54S03W	TTL	S5403W	RTCF	*	FP	100- 17
145♦	54S03W	TTL	S5403W	SIC	*	FP	100- 17
146♦	54S03W	TTL	S5403W	VALG	*	FP	100- 17
147♦	54S03W	TTL	S8481J	MULB	*	FP	101- 5
148♦	54S03W	TTL	S8481J	PHIN	*	FP	101- 5
149♦	54S03W	TTL	54LS03FM	FSC	*	FP	98- 71
150♦	54S03W	TTL	54LS26FM	FSC	*	FP	98-101
151♦	54S03W	TTL	5403FM	FSC	*	FP	100- 2
152♦	54S03W	TTL	9012FM	FSC	*	FP	100- 4
153♦	54S05	DTL	941HM	FSC		Can	188- 34
154	54S05W	DTL	941FM	FSC	*	FP	188- 33
155♦	54S08	TTL	DM54L08J	NSC		DIP	78- 73
156♦	54S08	TTL	DM54S08J	NSC		DIP	77- 56
157♦	54S08	TTL	74F08SC	FSC	*	SO	77- 36
158♦	54S08w	DTL	MC1906F	MOTA	*	FP	77-109
159♦	54S08w	DTL	MC1907F	MOTA	*	FP	78- 34
160♦	54S08W	CMOS	TC40H008F	TOSJ	*	SO	77-104
161	54S08W	CMOS	74HCT08D	SIC	*	SO	77-105
162♦	54S08W	CMOS	74HCT08N	SIC		DIP	77-106
163	54S08W	CMOS	74HC08D	SIC	*	SO	77- 82
164♦	54S08W	CMOS	74HC08N	SIC		DIP	77- 83
165♦	54S08W	TTL	DM5408W	NSC	*	FP	78- 7
166♦	54S08W	TTL	SFC408P	THEF	*	FP	77-102
167♦	54S08W	TTL	SFC408PM	THEF	*	FP	77-103
168	54S08W	TTL	S54F08W	SIC	*	FP	77- 35
169	54S08W	TTL	S54F08W	VALG	*	FP	77- 35
170♦	54S08W	TTL	S54H08W	MULB	*	FP	77- 59
171♦	54S08W	TTL	S54H08W	PHIN	*	FP	77- 59
172♦	54S08W	TTL	S54H08W	VALG	*	FP	77- 59
173♦	54S08W	TTL	S54LS08W	MULB	*	FP	77- 92
174♦	54S08W	TTL	S54LS08W	PHIN	*	FP	77- 92
175♦	54S08W	TTL	S54LS08W	RTCF	*	FP	77- 92
176♦	54S08W	TTL	S54LS08W	SIC	*	FP	77- 92
177♦	54S08W	TTL	S54LS08W	VALG	*	FP	77- 92
178♦	54S08W	TTL	S54S08W	MULB	*	FP	77- 41
179♦	54S08W	TTL	S54S08W	PHIN	*	FP	77- 41
180♦	54S08W	TTL	S54S08W	RTCF	*	FP	77- 41
181♦	54S08W	TTL	S54S08W	SIC	*	FP	77- 41
182♦	54S08W	TTL	S54S08W	VALG	*	FP	77- 41
183♦	54S08W	TTL	S5408W	MULB	*	FP	77-101
184♦	54S08W	TTL	S5408W	PHIN	*	FP	77-101
185♦	54S08W	TTL	S5408W	VALG	*	FP	77-101
186♦	54S08W	TTL	54F08FM	FSC	*	FP	77- 40
187♦	54S08W	TTL	54H08FM	FSC	*	FP	77- 58
188♦	54S08W	TTL	54LS08FM	FSC	*	FP	77- 42
189♦	54S08W	TTL	5408FM	FSC	*	FP	77- 98
190♦	54S09	TTL	DM54S09J	NSC		DIP	77- 75
191♦	54S09w	TTL	SFC409PM	THEF	*	FP	78- 22
192♦	54S09W	TTL	DM5409W	NSC	*	FP	78- 9
193♦	54S09W	TTL	DM7819W	NSC	*	FP	77- 70
194♦	54S09W	TTL	DM8819W	NSC	*	FP	77- 73
195♦	54S09W	TTL	MC3101F	MOTA	*	FP	77- 47
196♦	54S09W	TTL	SFC409P	THEF	*	FP	78- 21
197♦	54S09W	TTL	S54LS09W	MULB	*	FP	78- 37
198♦	54S09W	TTL	S54LS09W	PHIN	*	FP	78- 37
199♦	54S09W	TTL	S54LS09W	RTCF	*	FP	78- 37
200♦	54S09W	TTL	S54LS09W	VALG	*	FP	78- 37
201♦	54S09W	TTL	S54S09W	MULB	*	FP	77- 52
202♦	54S09W	TTL	S54S09W	PHIN	*	FP	77- 52
203♦	54S09W	TTL	S54S09W	VALG	*	FP	77- 52
204♦	54S09W	TTL	S5409W	MULB	*	FP	78- 26
205♦	54S09W	TTL	S5409W	PHIN	*	FP	78- 26
206♦	54S09W	TTL	S5409W	VALG	*	FP	78- 26
207♦	54S09W	TTL	54LS09FM	FSC	*	FP	77- 60
208♦	54S09W	TTL	54S09FM	FSC	*	FP	77- 48
209♦	54S09W	TTL	5409FM	FSC	*	FP	78- 4
210♦	54-10W	CMOS	TC40H010F	TOSJ	*	SO	103- 26
211	54-10W	CMOS	74HCT10D	SIC	*	SO	103- 21
212♦	54-10W	CMOS	74HCT10N	SIC		DIP	103- 22
213	54-10W	CMOS	74HC10D	SIC	*	SO	103- 1
214♦	54-10W	CMOS	74HC10N	SIC		DIP	103- 2
215♦	54-10W	TTL	DM54L10W	NSC	*	FP	103- 81
216♦	54-10W	TTL	DM5410W	NSC	*	FP	103- 15
217♦	54-10W	TTL	SFC410HP	THEF	*	FP	102- 85
218♦	54-10W	TTL	SFC410HPM	THEF	*	FP	102- 86
219♦	54-10W	TTL	SFC410PM	THEF		Can	102- 95
220	54-10W	TTL	S54F10W	VALG	*	FP	102- 47

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	54-10W	TTL	S54H10W	MULB	*	FP	102- 84
2♦	54-10W	TTL	S54H10W	PHIN	*	FP	102- 84
3♦	54-10W	TTL	S54H10W	VALG	*	FP	102- 84
4♦	54-10W	TTL	S5410W	MULB	*	FP	103- 9
5♦	54-10W	TTL	S5410W	PHIN	*	FP	103- 9
6♦	54-10W	TTL	S5410W	VALG	*	FP	103- 9
7♦	54-10W	TTL	54H10FM	FSC	*	FP	102- 66
8♦	54-10W	TTL	5410FM	FSC	*	FP	103- 8
9♦	54S10	TTL	DM54S10J	NSC		DIP	102- 63
10♦	54S10	TTL	74F10SC	FSC	*	SO	102- 54
11♦	54S10W	DTL	E303D2	SGSI	*	FP	103-104
12♦	54S10W	DTL	E303D7	SGSI	*	FP	103-105
13♦	54S10W	DTL	962FM	FSC	*	FP	103- 89
14♦	54S10W	DTL	963FM	FSC	*	FP	103- 61
15♦	54S10W	DTL	9962FC	SGSI	*	FP	103-103
16♦	54S10W	DTL	9962FM	SGSI	*	FP	103- 90
17♦	54S10W	TTL	N8H70J	MULB	*	FP	102- 55
18♦	54S10W	TTL	N8H70J	PHIN	*	FP	102- 55
19♦	54S10W	TTL	N8470J	MULB	*	FP	103-101
20♦	54S10W	TTL	N8470J	PHIN	*	FP	103-101
21♦	54S10W	TTL	N8870J	MULB	*	FP	102- 93
22♦	54S10W	TTL	N8870J	PHIN	*	FP	102- 93
23♦	54S10W	TTL	S54LS10W	MULB	*	FP	102-103
24♦	54S10W	TTL	S54LS10W	PHIN	*	FP	102-103
25♦	54S10W	TTL	S54LS10W	RTCF	*	FP	102-103
26♦	54S10W	TTL	S54LS10W	SIC	*	FP	102-103
27♦	54S10W	TTL	S54LS10W	VALG	*	FP	102-103
28♦	54S10W	TTL	S54S10W	MULB	*	FP	102- 48
29♦	54S10W	TTL	S54S10W	PHIN	*	FP	102- 48
30♦	54S10W	TTL	S54S10W	SIC	*	FP	102- 48
31♦	54S10W	TTL	S54S10W	VALG	*	FP	102- 48
32♦	54S10W	TTL	S8H70J	MULB	*	FP	102- 59
33♦	54S10W	TTL	S8H70J	PHIN	*	FP	102- 59
34♦	54S10W	TTL	S8470J	MULB	*	FP	103-102
35♦	54S10W	TTL	S8470J	PHIN	*	FP	103-102
36♦	54S10W	TTL	S8870J	MULB	*	FP	102- 94
37♦	54S10W	TTL	S8870J	PHIN	*	FP	102- 94
38♦	54S10W	TTL	54F10FM	FSC	*	FP	102- 60
39♦	54S10W	TTL	54LS10FM	FSC	*	FP	102- 51
40♦	54S10W	TTL	54S10FM	FSC	*	FP	102- 41
41♦	54S10W	TTL	9003FM	FSC	*	FP	102- 67
42♦	54H11W	CMOS	TC40H011F	TOSJ	*	SO	80- 83
43♦	54H11W	TTL	SFC411HPM	THEF	*	FP	80- 54
44♦	54H11W	TTL	S54H11W	MULB	*	FP	80- 52
45♦	54H11W	TTL	S54H11W	PHIN	*	FP	80- 52
46♦	54H11W	TTL	S54H11W	VALG	*	FP	80- 52
47♦	54H11W	TTL	S5411W	MULB	*	FP	80- 77
48♦	54H11W	TTL	S5411W	PHIN	*	FP	80- 77
49♦	54H11W	TTL	S5411W	RTCF	*	FP	80- 77
50♦	54H11W	TTL	S5411W	SIC	*	FP	80- 77
51♦	54H11W	TTL	S5411W	VALG	*	FP	80- 77
52♦	54H11W	TTL	54H11FM	FSC	*	FP	80- 51
53♦	54H11W	TTL	5411FM	FSC	*	FP	80- 76
54♦	54S11	TTL	DM54L11J	NSC		DIP	81- 5
55♦	54S11	TTL	DM54S11J	NSC		DIP	80- 50
56♦	54S11	TTL	74F11SC	FSC	*	SO	80- 37
57	54S11W	CMOS	74HCT11D	SIC	*	SO	80- 84
58♦	54S11W	CMOS	74HCT11N	SIC		DIP	80- 85
59	54S11W	CMOS	74HC11D	SIC	*	SO	80- 66
60♦	54S11W	CMOS	74HC11N	SIC		DIP	80- 67
61♦	54S11W	TTL	SFC411HP	THEF	*	FP	80- 53
62	54S11W	TTL	S54F11W	VALG	*	FP	80- 36
63♦	54S11W	TTL	S54LS11W	MULB	*	FP	80- 65
64♦	54S11W	TTL	S54LS11W	PHIN	*	FP	80- 65
65♦	54S11W	TTL	S54LS11W	RTCF	*	FP	80- 65
66♦	54S11W	TTL	S54LS11W	VALG	*	FP	80- 65
67♦	54S11W	TTL	S54S11W	MULB	*	FP	80- 44
68♦	54S11W	TTL	S54S11W	PHIN	*	FP	80- 44
69♦	54S11W	TTL	S54S11W	RTCF	*	FP	80- 44
70♦	54S11W	TTL	S54S11W	SIC	*	FP	80- 44
71♦	54S11W	TTL	S54S11W	VALG	*	FP	80- 44
72♦	54S11W	TTL	54F11FM	FSC	*	FP	80- 42
73♦	54S11W	TTL	54LS11FM	FSC	*	FP	80- 45
74♦	54S11W	TTL	54S11FM	FSC	*	FP	80- 34
75♦	54-12W	TTL	N8471J	MULB	*	FP	104- 18
76♦	54-12W	TTL	N8471J	PHIN	*	FP	104- 18
77♦	54-12W	TTL	S54LS12W	MULB	*	FP	103- 25
78♦	54-12W	TTL	S54LS12W	PHIN	*	FP	103- 25
79♦	54-12W	TTL	S54LS12W	VALG	*	FP	103- 25
80♦	54-12W	TTL	S5412W	MULB	*	FP	103- 54
81♦	54-12W	TTL	S5412W	PHIN	*	FP	103- 54
82♦	54-12W	TTL	S5412W	VALG	*	FP	103- 54
83♦	54-12W	TTL	S8471J	MULB	*	FP	104- 19
84♦	54-12W	TTL	S8471J	PHIN	*	FP	104- 19
85♦	54-12W	TTL	5412FM	FSC	*	FP	103- 52
86♦	54-13	TTL	74F20SC	FSC	*	SO	105- 89
87♦	54-13W	CMOS	TC40H020F	TOSJ	*	SO	107- 40
88♦	54-13W	TTL	N8H16J	MULB	*	FP	105- 94
89♦	54-13W	TTL	N8H16J	PHIN	*	FP	105- 94
90♦	54-13W	TTL	S54LS20W	MULB	*	FP	106- 94
91♦	54-13W	TTL	S54LS20W	PHIN	*	FP	106- 94
92♦	54-13W	TTL	S54LS20W	RTCF	*	FP	106- 94
93♦	54-13W	TTL	S54LS20W	SIC	*	FP	106- 94
94♦	54-13W	TTL	S54LS20W	VALG	*	FP	106- 94
95♦	54-13W	TTL	S54S20W	MULB	*	FP	105- 78
96♦	54-13W	TTL	S54S20W	PHIN	*	FP	105- 78
97♦	54-13W	TTL	S54S20W	RTCF	*	FP	105- 78
98♦	54-13W	TTL	S54S20W	SIC	*	FP	105- 78
99♦	54-13W	TTL	S54S20W	VALG	*	FP	105- 78
100♦	54-13W	TTL	S8H16J	MULB	*	FP	106- 2
101♦	54-13W	TTL	S8H16J	PHIN	*	FP	106- 2
102♦	54-13W	TTL	54F20FM	FSC	*	FP	106- 8
103♦	54-13W	TTL	9004FM	FSC	*	FP	106- 36
104♦	54H15	TTL	DM54S15J	NSC		DIP	80- 57
105♦	54H15W	TTL	S54LS15W	MULB	*	FP	80- 90
106♦	54H15W	TTL	S54LS15W	PHIN	*	FP	80- 90
107♦	54H15W	TTL	S54LS15W	VALG	*	FP	80- 90
108♦	54H15W	TTL	S54S15W	MULB	*	FP	80- 49
109♦	54H15W	TTL	S54S15W	PHIN	*	FP	80- 49
110♦	54H15W	TTL	S54S15W	VALG	*	FP	80- 49
111♦	54H15W	TTL	54LS15FM	FSC	*	FP	80- 56
112♦	54H15W	TTL	54S15FM	FSC	*	FP	80- 46
113♦	54-20W	DTL	S8455J	MULB	*	FP	108- 2
114♦	54-20W	DTL	S8455J	PHIN	*	FP	108- 2
115♦	54-20W	DTL	S8855J	MULB	*	FP	106- 97
116♦	54-20W	DTL	S8855J	PHIN	*	FP	106- 97
117♦	54-20W	TTL	DM54L20W	NSC	*	FP	107- 84
118♦	54-20W	TTL	DM5420W	NSC	*	FP	107- 20
119♦	54-20W	TTL	DM5440W	NSC	*	FP	107- 22
120♦	54-20W	TTL	N8455J	MULB	*	FP	107-109
121♦	54-20W	TTL	N8455J	PHIN	*	FP	107-109
122♦	54-20W	TTL	N8855J	MULB	*	FP	106- 90
123♦	54-20W	TTL	N8855J	PHIN	*	FP	106- 90
124♦	54-20W	TTL	SFC420HPM	THEF		Can	106- 4
125♦	54-20W	TTL	SFC420PM	THEF		Can	106- 76
126	54-20W	TTL	S54F20W	SIC	*	FP	105- 76
127	54-20W	TTL	S54F20W	VALG	*	FP	105- 76
128♦	54-20W	TTL	S54H20W	MULB	*	FP	106- 56
129♦	54-20W	TTL	S54H20W	PHIN	*	FP	106- 56
130♦	54-20W	TTL	S54H20W	VALG	*	FP	106- 56
131♦	54-20W	TTL	S5420W	MULB	*	FP	107- 12
132♦	54-20W	TTL	S5420W	PHIN	*	FP	107- 12
133♦	54-20W	TTL	S5420W	RTCF	*	FP	107- 12
134♦	54-20W	TTL	S5420W	SIC	*	FP	107- 12
135♦	54-20W	TTL	S5420W	VALG	*	FP	107- 12
136♦	54-20W	TTL	54H20FM	FSC	*	FP	106- 32
137♦	54-20W	TTL	5420FM	FSC	*	FP	107- 6
138♦	54H20	TTL	DM54S20J	NSC		DIP	106- 23
139♦	54H20	TTL	54S20FM	FSC	*	FP	105- 66
140♦	54H21W	CMOS	TC40H021F	TOSJ	*	SO	82-109
141♦	54H21W	TTL	S54H21W	MULB	*	FP	82- 48
142♦	54H21W	TTL	S54H21W	PHIN	*	FP	82- 48
143♦	54H21W	TTL	S54H21W	VALG	*	FP	82- 48
144♦	54H21W	TTL	S5421W	MULB	*	FP	82- 96
145♦	54H21W	TTL	S5421W	PHIN	*	FP	82- 96
146♦	54H21W	TTL	S5421W	VALG	*	FP	82- 96
147♦	54H21W	TTL	54H21FM	FSC	*	FP	82- 40
148♦	54H21W	TTL	5421FM	FSC	*	FP	82- 89
149♦	54LS21W	TTL	MC3126F	MOTA	*	FP	82- 11
150▼	54LS21W	TTL	MC54F21	MOTA		DIP	82- 52
151▼	54LS21W	TTL	MC74F21	MOTA		DIP	82- 53
152♦	54LS21W	TTL	S54LS21W	MULB	*	FP	82- 73
153♦	54LS21W	TTL	S54LS21W	PHIN	*	FP	82- 73
154♦	54LS21W	TTL	S54LS21W	RTCF	*	FP	82- 73
155♦	54LS21W	TTL	S54LS21W	VALG	*	FP	82- 73
156♦	54LS21W	TTL	54LS21FM	FSC	*	FP	82- 14
157♦	54-22	TTL	DM54S22J	NSC		DIP	106- 59
158♦	54-22W	DTL	N8415J	MULB	*	FP	108- 30
159♦	54-22W	DTL	N8415J	PHIN	*	FP	108- 30
160♦	54-22W	DTL	S8415J	PHIN	*	FP	108- 34
161♦	54-22W	TTL	SN54LS22W	TII	*	FP	107- 37
162♦	54-22W	TTL	S54LS22W	MULB	*	FP	107- 36
163♦	54-22W	TTL	S54LS22W	PHIN	*	FP	107- 36
164♦	54-22W	TTL	S54LS22W	VALG	*	FP	107- 36
165♦	54-22W	TTL	S54S22W	MULB	*	FP	106- 22
166♦	54-22W	TTL	S54S22W	PHIN	*	FP	106- 22
167♦	54-22W	TTL	S54S22W	VALG	*	FP	106- 22
168♦	54-22W	TTL	54LS22FM	FSC	*	FP	106- 78
169♦	54-22W	TTL	54S22FM	FSC	*	FP	106- 21
170♦	54-22W	TTL	5422FM	FSC	*	FP	107- 57
171♦	54H22W	TTL	S54H22W	MULB	*	FP	106- 91
172♦	54H22W	TTL	S54H22W	PHIN	*	FP	106- 91
173♦	54H22W	TTL	S54H22W	VALG	*	FP	106- 91
174♦	54H22W	TTL	54H22FM	FSC	*	FP	106- 79
175♦	54-23W	TTL	DM5423W	NSC	*	FP	117-108
176♦	54-23W	TTL	S5423W	MULB	*	FP	118- 10
177♦	54-23W	TTL	S5423W	PHIN	*	FP	118- 10
178♦	54-23W	TTL	S5423W	SIC	*	FP	118- 10
179♦	54-23W	TTL	S5423W	VALG	*	FP	118- 10
180♦	54-23W	TTL	5423FM	FSC	*	FP	118- 8
181♦	54-25W	TTL	DM5425W	NSC	*	FP	117-109
182♦	54-25W	TTL	S5425W	MULB	*	FP	118- 11
183♦	54-25W	TTL	S5425W	PHIN	*	FP	118- 11
184♦	54-25W	TTL	S5425W	RTCF	*	FP	118- 11
185♦	54-25W	TTL	S5425W	SIC	*	FP	118- 11
186♦	54-25W	TTL	S5425W	VALG	*	FP	118- 11
187♦	54-25W	TTL	S8815J	MULB	*	FP	117-106
188♦	54-25W	TTL	S8815J	PHIN	*	FP	117-106
189♦	54-25W	TTL	5425FM	FSC	*	FP	118- 9
190♦	54-27W	CMOS	TC40H027F	TOSJ	*	SO	116- 45
191♦	54-27W	TTL	DM5427W	NSC	*	FP	116- 17
192♦	54-27W	TTL	N8875J	MULB	*	FP	116- 11
193♦	54-27W	TTL	N8875J	PHIN	*	FP	116- 11
194♦	54-27W	TTL	S54LS27W	MULB	*	FP	116- 21
195♦	54-27W	TTL	S54LS27W	PHIN	*	FP	116- 21
196♦	54-27W	TTL	S54LS27W	VALG	*	FP	116- 21
197♦	54-27W	TTL	S5427W	MULB	*	FP	116- 22
198♦	54-27W	TTL	S5427W	PHIN	*	FP	116- 22
199♦	54-27W	TTL	S5427W	VALG	*	FP	116- 22
200♦	54-27W	TTL	S8875J	MULB	*	FP	116- 12
201♦	54-27W	TTL	S8875J	PHIN	*	FP	116- 12
202♦	54-27W	TTL	54LS27FM	FSC	*	FP	116- 10
203♦	54-27W	TTL	5427FM	FSC	*	FP	116- 16
204♦	54-30W	TTL	DM5430W	NSC	*	FP	110- 26
205♦	54-30W	TTL	SFC430HPM	THEF		Can	109- 15
206♦	54-30W	TTL	SFC430PM	THEF		Can	109- 89
207♦	54-30W	TTL	S54H30W	MULB	*	FP	109- 37
208♦	54-30W	TTL	S54H30W	PHIN	*	FP	109- 37
209♦	54-30W	TTL	S54H30W	VALG	*	FP	109- 37
210♦	54-30W	TTL	S5430W	MULB	*	FP	110- 31
211♦	54-30W	TTL	S5430W	PHIN	*	FP	110- 31
212♦	54-30W	TTL	S5430W	VALG	*	FP	110- 31
213♦	54-30W	TTL	54H30FM	FSC	*	FP	109- 58
214♦	54-30W	TTL	5430FM	FSC	*	FP	110- 22
215♦	54S30	TTL	DM54S30J	NSC		DIP	109- 47
216♦	54S30W	TTL	N74H30W	MULB	*	FP	109- 35
217♦	54S30W	TTL	N74H30W	PHIN	*	FP	109- 35
218♦	54S30W	TTL	N8808J	MULB	*	FP	109- 85
219♦	54S30W	TTL	N8808J	PHIN	*	FP	109- 85
220♦	54S30W	TTL	S54LS30W	MULB	*	FP	110- 10

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG SMD	PKG TYPE	PAGE & LINE
1♦	54S30W	TTL	S54LS30W	PHIN	*	FP	110- 10
2♦	54S30W	TTL	S54LS30W	RTCF	*	FP	110- 10
3♦	54S30W	TTL	S54LS30W	SIC	*	FP	110- 10
4♦	54S30W	TTL	S54LS30W	VALG	*	FP	110- 10
5♦	54S30W	TTL	S8808J	MULB	*	FP	109- 87
6♦	54S30W	TTL	S8808J	PHIN	*	FP	109- 87
7♦	54S30W	TTL	54LS30FM	FSC	*	FP	109- 39
8♦	54S30W	TTL	54S30FM	FSC	*	FP	110- 18
9♦	54-32	TTL	DM54S32J	NSC		DIP	121- 45
10♦	54-32	TTL	74F32SC	FSC	*	SO	121- 36
11♦	54-32W	CMOS	TC40H032F	TOSJ	*	SO	121- 83
12♦	54-32W	DTL	MC1908F	MOTA	*	FP	121- 96
13♦	54-32W	DTL	MC1909F	MOTA	*	FP	121- 86
14♦	54-32W	TTL	DM5432W	NSC	*	FP	121- 69
15	54-32W	TTL	S54F32W	SIC	*	FP	121- 31
16	54-32W	TTL	S54F32W	VALG	*	FP	121- 31
17♦	54-32W	TTL	S54LS32W	MULB	*	FP	121- 73
18♦	54-32W	TTL	S54LS32W	PHIN	*	FP	121- 73
19♦	54-32W	TTL	S54LS32W	RTCF	*	FP	121- 73
20♦	54-32W	TTL	S54LS32W	SIC	*	FP	121- 73
21♦	54-32W	TTL	S54LS32W	VALG	*	FP	121- 73
22♦	54-32W	TTL	S54S32W	MULB	*	FP	121- 40
23♦	54-32W	TTL	S54S32W	PHIN	*	FP	121- 40
24♦	54-32W	TTL	S54S32W	VALG	*	FP	121- 40
25♦	54-32W	TTL	S5432W	MULB	*	FP	121- 74
26♦	54-32W	TTL	S5432W	PHIN	*	FP	121- 74
27♦	54-32W	TTL	S5432W	RTCF	*	FP	121- 74
28♦	54-32W	TTL	S5432W	SIC	*	FP	121- 74
29♦	54-32W	TTL	S5432W	VALG	*	FP	121- 74
30♦	54-32W	TTL	54F32FM	FSC	*	FP	121- 41
31♦	54-32W	TTL	54LS32FM	FSC	*	FP	121- 39
32♦	54-32W	TTL	54S32FM	FSC	*	FP	121- 52
33♦	54-32W	TTL	5432FM	FSC	*	FP	121- 68
34♦	54-33W	TTL	54LS33FM	FSC	*	FP	113- 98
35♦	54S40	TTL	DM54S40J	NSC		DIP	106- 28
36	54LS42	CMOS	CD74HCT42M	RCA	*	SO	126- 60
37	54LS42	CMOS	CD74HC42M	RCA	*	SO	126- 58
38	54LS42	TTL	S54LS42G	MULB	*	LLCC	127- 60
39	54LS42	TTL	S54LS42G	PHIN	*	LLCC	127- 60
40	54LS42	TTL	S54LS42G	RTCF	*	LLCC	127- 60
41	54LS42	TTL	S54LS42G	SIC	*	LLCC	127- 60
42	54LS42	TTL	S54LS42G	VALG	*	LLCC	127- 60
43♦	54LS42W	TTL	DM54L42AW	NSC	*	FP	126- 74
44	54LS42W	TTL	S54LS42W(2)	MULB	*	FP	127- 61
45	54LS42W	TTL	S54LS42W(2)	PHIN	*	FP	127- 61
46	54LS42W	TTL	S54LS42W(2)	RTCF	*	FP	127- 61
47	54LS42W	TTL	S54LS42W(2)	SIC	*	FP	127- 61
48	54LS42W	TTL	S54LS42W(2)	VALG	*	FP	127- 61
49	54LS42W	TTL	S5442W(2)	MULB	*	FP	127- 63
50	54LS42W	TTL	S5442W(2)	PHIN	*	FP	127- 63
51	54LS42W	TTL	S5442W(2)	RTCF	*	FP	127- 63
52	54LS42W	TTL	S5442W(2)	SIC	*	FP	127- 63
53	54LS42W	TTL	S5442W(2)	VALG	*	FP	127- 63
54	54LS42W	TTL	54LS42FM	FSC	*	FP	126- 28
55	54LS42W	TTL	5442AFM	FSC	*	FP	126- 42
56	54LS42W	TTL	9352FM	FSC	*	FP	126- 50
57	54-43W	TTL	S5443W	MULB	*	FP	127- 92
58	54-43W	TTL	S5443W	PHIN	*	FP	127- 92
59	54-43W	TTL	S5443W	SIC	*	FP	127- 92
60	54-43W	TTL	S5443W	VALG	*	FP	127- 92
61	54-43W	TTL	5443AFM	FSC	*	FP	127- 89
62	54-44W	TTL	S5444W	MULB	*	FP	127-100
63	54-44W	TTL	S5444W	PHIN	*	FP	127-100
64	54-44W	TTL	S5444W	VALG	*	FP	127-100
65	54-44W	TTL	5444AFM	FSC	*	FP	127- 96
66	54-45W	TTL	S54145R	MULB	*	FP	127- 68
67	54-45W	TTL	S54145R	PHIN	*	FP	127- 68
68	54-45W	TTL	S54145W(2)	MULB	*	FP	127- 69
69	54-45W	TTL	S54145W(2)	PHIN	*	FP	127- 69
70	54-45W	TTL	S54145W(2)	SIC	*	FP	127- 69
71	54-45W	TTL	54145FM(2)	FSC	*	FP	126- 51
72♦	54-50W	TTL	DM5450W	NSC	*	FP	85- 95
73♦	54-50W	TTL	N8840J	MULB	*	FP	86- 13
74♦	54-50W	TTL	N8840J	PHIN	*	FP	86- 13
75♦	54-50W	TTL	SFC450HPM	THEF		Can	86- 55
76♦	54-50W	TTL	SFC450PM	THEF		Can	86- 56
77♦	54-50W	TTL	S54H50W	MULB	*	FP	86- 39
78♦	54-50W	TTL	S54H50W	PHIN	*	FP	86- 39
79♦	54-50W	TTL	S54H50W	VALG	*	FP	86- 39
80♦	54-50W	TTL	S5450W	MULB	*	FP	86- 45
81♦	54-50W	TTL	S5450W	PHIN	*	FP	86- 45
82♦	54-50W	TTL	S5450W	VALG	*	FP	86- 45
83♦	54-50W	TTL	S8840J	MULB	*	FP	86- 50
84♦	54-50W	TTL	S8840J	PHIN	*	FP	86- 50
85♦	54-50W	TTL	54H50FM	FSC	*	FP	85- 68
86♦	54-50W	TTL	5450FM	FSC	*	FP	85- 81
87♦	54-50W	TTL	74H50FC	FSC	*	FP	85- 74
88♦	54-50W	TTL	9005FM	FSC	*	FP	85- 90
89♦	54-51W	TTL	DM5451W	NSC	*	FP	85- 97
90♦	54-51W	TTL	SFC451HPM	THEF	*	FP	86- 62
91♦	54-51W	TTL	SFC451PM	THEF		Can	86- 65
92♦	54-51W	TTL	S54H51W	MULB	*	FP	86- 41
93♦	54-51W	TTL	S54H51W	PHIN	*	FP	86- 41
94♦	54-51W	TTL	S54H51W	VALG	*	FP	86- 41
95♦	54-51W	TTL	S5451W	MULB	*	FP	86- 47
96♦	54-51W	TTL	S5451W	PHIN	*	FP	86- 47
97♦	54-51W	TTL	S5451W	VALG	*	FP	86- 47
98♦	54-51W	TTL	54H51FM	FSC	*	FP	85- 70
99♦	54-51W	TTL	5451FM	FSC	*	FP	85- 83
100♦	54LS51W	TTL	SN54LS51W	TII	*	FP	88- 79
101♦	54LS51W	TTL	S54LS51W	MULB	*	FP	88- 76
102♦	54LS51W	TTL	S54LS51W	PHIN	*	FP	88- 76
103♦	54LS51W	TTL	S54LS51W	RTCF	*	FP	88- 76
104♦	54LS51W	TTL	S54LS51W	SIC	*	FP	88- 76
105♦	54LS51W	TTL	S54LS51W	VALG	*	FP	88- 76
106♦	54LS51W	TTL	54LS51FM	FSC	*	FP	88- 64
107♦	54S51	TTL	DM54S51J	NSC		DIP	86- 75
108♦	54S51W	TTL	S54S51W	MULB	*	FP	86- 43
109♦	54S51W	TTL	S54S51W	PHIN	*	FP	86- 43
110♦	54S51W	TTL	S54S51W	RTCF	*	FP	86- 43
111♦	54S51W	TTL	S54S51W	SIC	*	FP	86- 43
112♦	54S51W	TTL	S54S51W	VALG	*	FP	86- 43
113♦	54S51W	TTL	54S51FM	FSC	*	FP	85- 72
114♦	54H52W	TTL	S54H52W	MULB	*	FP	84- 92
115♦	54H52W	TTL	S54H52W	PHIN	*	FP	84- 92
116♦	54H52W	TTL	S54H52W	VALG	*	FP	84- 92
117♦	54H52W	TTL	54H52FM	FSC	*	FP	84- 90
118♦	54-53W	TTL	DM5453W	NSC	*	FP	86- 99
119♦	54-53W	TTL	5453FM	FSC	*	FP	86- 87
120♦	54H53W	TTL	N8848J	MULB	*	FP	87- 41
121♦	54H53W	TTL	N8848J	PHIN	*	FP	87- 41
122♦	54H53W	TTL	SFC453HPM	THEF		Can	87- 61
123♦	54H53W	TTL	SFC453PM	THEF		Can	87- 62
124♦	54H53W	TTL	S54H53W	MULB	*	FP	87- 55
125♦	54H53W	TTL	S54H53W	PHIN	*	FP	87- 55
126♦	54H53W	TTL	S54H53W	VALG	*	FP	87- 55
127♦	54H53W	TTL	S5453W	MULB	*	FP	87- 58
128♦	54H53W	TTL	S5453W	PHIN	*	FP	87- 58
129♦	54H53W	TTL	S5453W	VALG	*	FP	87- 58
130♦	54H53W	TTL	S8848J	MULB	*	FP	87- 60
131♦	54H53W	TTL	S8848J	PHIN	*	FP	87- 60
132♦	54H53W	TTL	54H53FM	FSC	*	FP	87- 33
133♦	54H53W	TTL	9008FM	FSC	*	FP	87- 38
134♦	54-54	TTL	DM7454N	NSC		DIP	86-103
135♦	54-54	TTL	N7454F	MULB		DIP	87- 13
136♦	54-54	TTL	N7454F	PHIN		DIP	87- 13
137♦	54-54	TTL	N7454F	VALG		DIP	87- 13
138♦	54-54	TTL	N7454N	MULB		DIP	87- 14
139♦	54-54	TTL	N7454N	PHIN		DIP	87- 14
140♦	54-54	TTL	N7454N	VALG		DIP	87- 14
141♦	54-54	TTL	SN7454N	TII		DIP	87- 26
142♦	54-54	TTL	7454DC	FSC		DIP	86- 92
143♦	54-54	TTL	7454PC	FSC		DIP	86- 93
144♦	54-54W	TTL	DM5454W	NSC	*	FP	86-101
145♦	54-54W	TTL	5454FM	FSC	*	FP	86- 89
146♦	54H54W	TTL	SFC454HPM	THEF	*	FP	87- 65
147♦	54H54W	TTL	SFC454PM	THEF		Can	87- 66
148♦	54H54W	TTL	S54H54W	MULB	*	FP	87- 57
149♦	54H54W	TTL	S54H54W	PHIN	*	FP	87- 57
150♦	54H54W	TTL	S54H54W	VALG	*	FP	87- 57
151♦	54H54W	TTL	S5454W	MULB	*	FP	87- 59
152♦	54H54W	TTL	S5454W	PHIN	*	FP	87- 59
153♦	54H54W	TTL	S5454W	VALG	*	FP	87- 59
154♦	54H54W	TTL	54H54FM	FSC	*	FP	87- 35
155♦	54L54T	TTL	DM54L54W	NSC	*	FP	87- 94
156♦	54LS54W	TTL	S54LS54W	MULB	*	FP	87-107
157♦	54LS54W	TTL	S54LS54W	PHIN	*	FP	87-107
158♦	54LS54W	TTL	S54LS54W	RTCF	*	FP	87-107
159♦	54LS54W	TTL	S54LS54W	VALG	*	FP	87-107
160♦	54LS54W	TTL	54LS54FM	FSC	*	FP	87- 93
161♦	54H55W	TTL	S54H55W	MULB	*	FP	89- 57
162♦	54H55W	TTL	S54H55W	PHIN	*	FP	89- 57
163♦	54H55W	TTL	S54H55W	VALG	*	FP	89- 57
164♦	54H55W	TTL	54H55FM	FSC	*	FP	89- 17
165♦	54L55T	TTL	DM54L55W	NSC	*	FP	89- 22
166♦	54LS55W	TTL	S54LS55W	MULB	*	FP	89- 59
167♦	54LS55W	TTL	S54LS55W	PHIN	*	FP	89- 59
168♦	54LS55W	TTL	S54LS55W	VALG	*	FP	89- 59
169♦	54LS55W	TTL	54LS55FM	FSC	*	FP	89- 18
170♦	54-60W	TTL	DM5460W	NSC	*	FP	81- 51
171♦	54-60W	TTL	N8806J	MULB	*	FP	81- 74
172♦	54-60W	TTL	N8806J	PHIN	*	FP	81- 74
173♦	54-60W	TTL	SFC460PM	THEF		Can	81- 85
174♦	54-60W	TTL	S54H60W	MULB	*	FP	81- 76
175♦	54-60W	TTL	S54H60W	PHIN	*	FP	81- 76
176♦	54-60W	TTL	S54H60W	VALG	*	FP	81- 76
177♦	54-60W	TTL	S5460W	MULB	*	FP	81- 78
178♦	54-60W	TTL	S5460W	PHIN	*	FP	81- 78
179♦	54-60W	TTL	S5460W	VALG	*	FP	81- 78
180♦	54-60W	TTL	S8806J	MULB	*	FP	81- 81
181♦	54-60W	TTL	S8806J	PHIN	*	FP	81- 81
182♦	54-60W	TTL	54H60FM	FSC	*	FP	81- 35
183♦	54-60W	TTL	5460FM	FSC	*	FP	81- 40
184♦	54H61W	TTL	S54H61W	MULB	*	FP	79-110
185♦	54H61W	TTL	S54H61W	PHIN	*	FP	79-110
186♦	54H61W	TTL	S54H61W	VALG	*	FP	79-110
187♦	54H61W	TTL	54H61FM	FSC	*	FP	79- 26
188♦	54H62W	TTL	S54H62W	MULB	*	FP	84- 96
189♦	54H62W	TTL	S54H62W	PHIN	*	FP	84- 96
190♦	54H62W	TTL	S54H62W	VALG	*	FP	84- 96
191♦	54H62W	TTL	54H62FM	FSC	*	FP	84- 93
192♦	54S64	TTL	DM54S64J	NSC		DIP	88- 51
193♦	54S64	TTL	74F64SC	FSC	*	SO	88- 50
194♦	54S64W	TTL	SN54S64W	TII	*	FP	88- 27
195♦	54S64W	TTL	S54F64W	SIC	*	FP	88- 25
196♦	54S64W	TTL	S54F64W	VALG	*	FP	88- 25
197♦	54S64W	TTL	S54S64W	MULB	*	FP	88- 26
198♦	54S64W	TTL	S54S64W	PHIN	*	FP	88- 26
199♦	54S64W	TTL	S54S64W	VALG	*	FP	88- 26
200♦	54S64W	TTL	54F64FM	FSC	*	FP	88- 23
201♦	54S64W	TTL	54S64FM	FSC	*	FP	88- 24
202♦	54S65	TTL	DM54S65J	NSC		DIP	88- 59
203♦	54S65W	TTL	S54S65W	MULB	*	FP	88- 56
204♦	54S65W	TTL	S54S65W	PHIN	*	FP	88- 56
205♦	54S65W	TTL	S54S65W	VALG	*	FP	88- 56
206♦	54S65W	TTL	54S65FM	FSC	*	FP	88- 28
207	54-70W	TTL	DM5470W	NSC	*	FP	65- 33
208♦	54-70W	TTL	N8825J	MULB	*	FP	65- 77
209♦	54-70W	TTL	N8825J	PHIN	*	FP	65- 77
210	54-70W	TTL	S5470W	MULB	*	FP	65- 64
211	54-70W	TTL	S5470W	PHIN	*	FP	65- 64
212	54-70W	TTL	S5470W	VALG	*	FP	65- 64
213♦	54-70W	TTL	S8825J	MULB	*	FP	65- 87
214♦	54-70W	TTL	S8825J	PHIN	*	FP	65- 87
215	54-70W	TTL	5470FM	FSC	*	FP	66- 22
216	54H71W	TTL	S54H101W	MULB	*	FP	66- 32
217	54H71W	TTL	S54H101W	PHIN	*	FP	66- 32
218	54H71W	TTL	S54H101W	VALG	*	FP	66- 32
219	54H71W	TTL	S54H71W	MULB	*	FP	65- 82
220	54H71W	TTL	S54H71W	PHIN	*	FP	65- 82

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1	54H71W	TTL	S54H71W	VALG	*	FP	65- 82
2	54H71W	TTL	54H101FM	FSC	*	FP	66- 35
3	54H71W	TTL	54H71FM	FSC	*	FP	65-100
4♦	54L71T	TTL	DM54L71W	NSC		DIP	75- 39
5♦	54L72	TTL	DM54L72W	NSC	*	FP	64-102
6♦	54L72	TTL	DM5472W	NSC	*	FP	65- 93
7♦	54L72	TTL	N8829J	MULB	*	FP	65- 80
8♦	54L72	TTL	N8829J	PHIN	*	FP	65- 80
9♦	54L72	TTL	S54H102W	MULB	*	FP	66- 34
10♦	54L72	TTL	S54H102W	PHIN	*	FP	66- 34
11♦	54L72	TTL	S54H102W	VALG	*	FP	66- 34
12♦	54L72	TTL	S54H72W	MULB	*	FP	65- 84
13♦	54L72	TTL	S54H72W	PHIN	*	FP	65- 84
14♦	54L72	TTL	S54H72W	VALG	*	FP	65- 84
15♦	54L72	TTL	S5472W	MULB	*	FP	65- 14
16♦	54L72	TTL	S5472W	PHIN	*	FP	65- 14
17♦	54L72	TTL	S5472W	VALG	*	FP	65- 14
18♦	54L72	TTL	S8829J	MULB	*	FP	65- 90
19♦	54L72	TTL	S8829J	PHIN	*	FP	65- 90
20♦	54L72	TTL	54H102FM	FSC	*	FP	66- 36
21♦	54L72	TTL	54H72FM	FSC	*	FP	65-102
22♦	54L72	TTL	5472FM	FSC	*	FP	65- 25
23	54-73W	TTL	DM54L73W	NSC	*	FP	67- 86
24	54-73W	TTL	DM5473W	NSC	*	FP	69- 41
25	54-73W	TTL	SN5473W	TII	*	FP	68- 83
26	54-73W	TTL	S54H73W	MULB	*	FP	69- 83
27	54-73W	TTL	S54H73W	PHIN	*	FP	69- 83
28	54-73W	TTL	S54H73W	VALG	*	FP	69- 83
29	54-73W	TTL	S54LS73W	MULB	*	FP	70-105
30	54-73W	TTL	S54LS73W	PHIN	*	FP	70-105
31	54-73W	TTL	S54LS73W	RTCF	*	FP	70-105
32	54-73W	TTL	S54LS73W	SIC	*	FP	70-105
33	54-73W	TTL	S54LS73W	VALG	*	FP	70-105
34	54-73W	TTL	S5473W	MULB	*	FP	68- 17
35	54-73W	TTL	S5473W	PHIN	*	FP	68- 17
36	54-73W	TTL	S5473W	RTCF	*	FP	68- 17
37	54-73W	TTL	S5473W	SIC	*	FP	68- 17
38	54-73W	TTL	S5473W	VALG	*	FP	68- 17
39	54-73W	TTL	54H73FM	FSC	*	FP	70- 17
40	54-73W	TTL	5473FM	FSC	*	FP	68- 46
41	54-74	TTL	74F74SC	FSC	*	SO	53- 10
42▼	54-74W	CMOS	CD54AC74F(A)	RCA		DIP	52- 49
43	54-74W	CMOS	TC40H074F	TOSJ	*	SO	51- 38
44	54-74W	TTL	DM54L74W	NSC	*	FP	51- 11
45	54-74W	TTL	DM5474W	NSC	*	FP	52- 26
46♦	54-74W	TTL	N8828J	MULB	*	FP	51- 72
47♦	54-74W	TTL	N8828J	PHIN	*	FP	51- 72
48♦	54-74W	TTL	SFC474HPM	THEF	*	FP	52- 34
49♦	54-74W	TTL	SFC474PM	THEF	*	FP	51- 84
50	54-74W	TTL	S54F74W	SIC	*	FP	53- 21
51	54-74W	TTL	S54F74W	VALG	*	FP	53- 21
52	54-74W	TTL	S54H74W	MULB	*	FP	52- 31
53	54-74W	TTL	S54H74W	PHIN	*	FP	52- 31
54	54-74W	TTL	S54H74W	VALG	*	FP	52- 31
55	54-74W	TTL	S5474W	MULB	*	FP	51- 23
56	54-74W	TTL	S5474W	PHIN	*	FP	51- 23
57	54-74W	TTL	S5474W	RTCF	*	FP	51- 23
58	54-74W	TTL	S5474W	SIC	*	FP	51- 23
59	54-74W	TTL	S5474W	VALG	*	FP	51- 23
60♦	54-74W	TTL	S8828J	MULB	*	FP	51- 80
61♦	54-74W	TTL	S8828J	PHIN	*	FP	51- 80
62	54-74W	TTL	54F74FM	FSC	*	FP	52-108
63	54-74W	TTL	54H74FM	FSC	*	FP	52- 22
64	54-74W	TTL	5474FM	FSC	*	FP	51- 53
65♦	54S74	TTL	DM54S74J	NSC		DIP	52- 97
66	54S74W	TTL	S54LS74AW	MULB	*	FP	51- 75
67	54S74W	TTL	S54LS74AW	PHIN	*	FP	51- 75
68	54S74W	TTL	S54LS74AW	RTCF	*	FP	51- 75
69	54S74W	TTL	S54LS74AW	SIC	*	FP	51- 75
70	54S74W	TTL	S54LS74AW	VALG	*	FP	51- 75
71	54S74W	TTL	S54LS74W	MULB	*	FP	51- 77
72	54S74W	TTL	S54LS74W	PHIN	*	FP	51- 77
73	54S74W	TTL	S54LS74W	RTCF	*	FP	51- 77
74	54S74W	TTL	S54LS74W	SIC	*	FP	51- 77
75	54S74W	TTL	S54LS74W	VALG	*	FP	51- 77
76	54S74W	TTL	S54S74W	MULB	*	FP	52- 65
77	54S74W	TTL	S54S74W	PHIN	*	FP	52- 65
78	54S74W	TTL	S54S74W	RTCF	*	FP	52- 65
79	54S74W	TTL	S54S74W	SIC	*	FP	52- 65
80	54S74W	TTL	S54S74W	VALG	*	FP	52- 65
81♦	54S74W	TTL	54LS74FM	FSC	*	FP	50- 48
82	54S74W	TTL	54S74FM	FSC	*	FP	52- 94
83♦	54-75	CMOS	CD74HCT75M(A)	RCA	*	SO	229- 87
84♦	54-75	CMOS	CD74HC75M(A)	RCA	*	SO	229- 84
85♦	54-75	ITL	DM54L75AJ	NSC		DIP	232- 68
86	54-75W	TTL	DM54L75AW	NSC	*	FP	232- 49
87	54-75W	TTL	DM5475W	NSC	*	FP	229- 79
88♦	54-75W	TTL	S54LS75W	MULB	*	FP	229- 76
89♦	54-75W	TTL	S54LS75W	PHIN	*	FP	229- 76
90♦	54-75W	TTL	S54LS75W	RTCF	*	FP	229- 76
91♦	54-75W	TTL	S54LS75W	SIC	*	FP	229- 76
92♦	54-75W	TTL	S54LS75W	VALG	*	FP	229- 76
93	54-75W	TTL	S5475W	MULB	*	FP	229- 92
94	54-75W	TTL	S5475W	PHIN	*	FP	229- 92
95	54-75W	TTL	S5475W	RTCF	*	FP	229- 92
96	54-75W	TTL	S5475W	SIC	*	FP	229- 92
97	54-75W	TTL	S5475W	VALG	*	FP	229- 92
98♦	54-75W	TTL	5475FM	FSC	*	FP	231- 90
99	54LS76W	TTL	DM5476W	NSC	*	FP	69- 43
100	54LS76W	TTL	S54H106W	MULB	*	FP	71- 86
101	54LS76W	TTL	S54H106W	PHIN	*	FP	71- 86
102	54LS76W	TTL	S54H106W	VALG	*	FP	71- 86
103	54LS76W	TTL	S54H76W	MULB	*	FP	69- 85
104	54LS76W	TTL	S54H76W	PHIN	*	FP	69- 85
105	54LS76W	TTL	S54H76W	VALG	*	FP	69- 85
106	54LS76W	TTL	S54LS76W	MULB	*	FP	70-107
107	54LS76W	TTL	S54LS76W	PHIN	*	FP	70-107
108	54LS76W	TTL	S54LS76W	RTCF	*	FP	70-107
109	54LS76W	TTL	S54LS76W	SIC	*	FP	70-107
110	54LS76W	TTL	S54LS76W	VALG	*	FP	70-107
111	54LS76W	TTL	S5476W	MULB	*	FP	68- 19
112	54LS76W	TTL	S5476W	PHIN	*	FP	68- 19
113	54LS76W	TTL	S5476W	RTCF	*	FP	68- 19
114	54LS76W	TTL	S5476W	SIC	*	FP	68- 19
115	54LS76W	TTL	S5476W	VALG	*	FP	68- 19
116	54LS76W	TTL	54H106FM	FSC	*	FP	72- 73
117	54LS76W	TTL	54H76FM	FSC	*	FP	70- 18
118	54LS76W	TTL	54LS76FM	FSC	*	FP	70- 21
119	54LS76W	TTL	5476FM	FSC	*	FP	68- 48
120	54-77	TTL	DM54LS77W	NSC	*	FP	231- 25
121	54-77	TTL	DM74LS77W	NSC	*	FP	231- 27
122	54-77W	TTL	S54LS77W	MULB	*	FP	229- 77
123	54-77W	TTL	S54LS77W	PHIN	*	FP	229- 77
124	54-77W	TTL	S54LS77W	SIC	*	FP	229- 77
125	54-77W	TTL	S54LS77W	VALG	*	FP	229- 77
126	54-77W	TTL	S5477W	MULB	*	FP	229- 82
127	54-77W	TTL	S5477W	PHIN	*	FP	229- 82
128	54-77W	TTL	S5477W	SIC	*	FP	229- 82
129♦	54-77W	TTL	5477FM	FSC	*	FP	231- 91
130	54H78W	TTL	S54H108W	MULB	*	FP	71- 88
131	54H78W	TTL	S54H108W	PHIN	*	FP	71- 88
132	54H78W	TTL	54H108FM	FSC	*	FP	72- 75
133	54H78W	TTL	54H78FM	FSC	*	FP	70- 19
134♦	54L78T	TTL	DM54L78W	NSC	*	FP	67- 88
135	54L78T	TTL	S54LS78W	MULB	*	FP	70-109
136	54L78T	TTL	S54LS78W	PHIN	*	FP	70-109
137	54L78T	TTL	S54LS78W	VALG	*	FP	70-109
138	54L78T	TTL	54LS78FM	FSC	*	FP	70- 23
139	54-80W	TTL	N8268W	MULB	*	FP	198- 64
140	54-80W	TTL	N8268W	PHIN	*	FP	198- 64
141	54-80W	TTL	S5480W	MULB	*	FP	198- 69
142	54-80W	TTL	S5480W	PHIN	*	FP	198- 69
143	54-80W	TTL	S5480W	VALG	*	FP	198- 69
144	54-80W	TTL	5480FM	FSC	*	FP	198- 65
145	54-82W	TTL	5482FM	FSC	*	FP	198-106
146	54-83	TTL	DM54LS83AW	NSC	*	FP	200- 59
147	54-83	TTL	DM5483W	NSC	*	FP	200- 87
148	54-83	TTL	N74LS83AD	MULB	*	SO	200- 24
149	54-83	TTL	N74LS83AD	PHIN	*	SO	200- 24
150	54-83	TTL	N74LS83AD	RTCF	*	SO	200- 24
151	54-83	TTL	N74LS83AD	SIC	*	SO	200- 24
152	54-83	TTL	N74LS83AD	VALG	*	SO	200- 24
153	54-83	TTL	S54LS83AW	MULB	*	FP	200- 31
154	54-83	TTL	S54LS83AW	PHIN	*	FP	200- 31
155	54-83	TTL	S54LS83AW	RTCF	*	FP	200- 31
156	54-83	TTL	S54LS83AW	SIC	*	FP	200- 31
157	54-83	TTL	S54LS83AW	VALG	*	FP	200- 31
158	54-83	TTL	S54LS83W	MULB	*	FP	200- 33
159	54-83	TTL	S54LS83W	PHIN	*	FP	200- 33
160	54-83	TTL	S54LS83W	SIC	*	FP	200- 33
161	54-83	TTL	S5483W	MULB	*	FP	200- 77
162	54-83	TTL	S5483W	PHIN	*	FP	200- 77
163	54-83	TTL	S5483W	RTCF	*	FP	200- 77
164	54-83	TTL	S5483W	SIC	*	FP	200- 77
165	54-83	TTL	S5483W	VALG	*	FP	200- 77
166	54-83	TTL	54LS83AFM	FSC	*	FP	199-110
167	54-83	TTL	5483AFM	FSC	*	FP	199- 80
168	54-85	CMOS	CD74HCT85M	RCA		SO	217- 1
169	54-85	CMOS	CD74HC85M	RCA		SO	216-106
170	54-85	TTL	74F85SC(A)	FSC	*	SO	216- 58
171	54-85W	TTL	DM54LS85W	NSC	*	FP	216- 73
172	54-85W	TTL	DM5485W	NSC	*	FP	216- 72
173	54-85W	TTL	S54LS85W	MULB	*	FP	217- 13
174	54-85W	TTL	S54LS85W	PHIN	*	FP	217- 13
175	54-85W	TTL	S54LS85W	RTCF	*	FP	217- 13
176	54-85W	TTL	S54LS85W	SIC	*	FP	217- 13
177	54-85W	TTL	S54LS85W	VALG	*	FP	217- 13
178	54-85W	TTL	S54S85W	MULB	*	FP	216- 65
179	54-85W	TTL	S54S85W	PHIN	*	FP	216- 65
180	54-85W	TTL	S54S85W	RTCF	*	FP	216- 65
181	54-85W	TTL	S54S85W	SIC	*	FP	216- 65
182	54-85W	TTL	S54S85W	VALG	*	FP	216- 65
183	54-85W	TTL	S5485W	MULB	*	FP	216- 86
184	54-85W	TTL	S5485W	PHIN	*	FP	216- 86
185	54-85W	TTL	S5485W	RTCF	*	FP	216- 86
186	54-85W	TTL	S5485W	SIC	*	FP	216- 86
187	54-85W	TTL	S5485W	VALG	*	FP	216- 86
188	54-85W	TTL	54LS85FM	FSC	*	FP	216- 95
189	54-85W	TTL	5485FM	FSC	*	FP	216- 79
190	54L85W	CMOS	340085FC	FSC	*	FP	217- 24
191	54L85W	CMOS	340085FM	FSC	*	FP	217- 25
192	54L85W	TTL	DM54L85W	NSC	*	FP	217- 54
193	54L85W	TTL	DM74L85W	NSC	*	FP	217- 33
194♦	54-86	CMOS	CD74HCT86M	RCA	*	SO	94- 15
195♦	54-86	CMOS	CD74HC86M	RCA	*	SO	93- 79
196♦	54-86	ITL	DM54LS386J	NSC		DIP	93- 63
197♦	54-86	TTL	DM54S86J	NSC		DIP	93- 40
198♦	54-86	TTL	S54LS86G	MULB	*	LLCC	93-100
199♦	54-86	TTL	S54LS86G	PHIN	*	LLCC	93-100
200♦	54-86	TTL	S54LS86G	RTCF	*	LLCC	93-100
201♦	54-86	TTL	S54LS86G	SIC	*	LLCC	93-100
202♦	54-86	TTL	S54LS86G	VALG	*	LLCC	93-100
203♦	54-86	TTL	74F86SC	FSC	*	SO	93- 18
204♦	54-86w	TTL	MC3121F	MOTA	*	FP	93- 44
205♦	54-86w	TTL	S54LS86W	MULB	*	FP	93-101
206♦	54-86w	TTL	S54LS86W	PHIN	*	FP	93-101
207♦	54-86w	TTL	S54LS86W	RTCF	*	FP	93-101
208♦	54-86w	TTL	S54LS86W	SIC	*	FP	93-101
209♦	54-86w	TTL	S54LS86W	VALG	*	FP	93-101
210♦	54-86W	DTL	MC1912F	MOTA	*	FP	94- 17
211♦	54-86W	TTL	DM54L86W	NSC	*	FP	94- 25
212♦	54-86W	TTL	DM5486W	NSC	*	FP	93- 81
213♦	54-86W	TTL	N74S86W	MULB	*	FP	93- 27
214♦	54-86W	TTL	N74S86W	PHIN	*	FP	93- 27
215♦	54-86W	TTL	SFC486PM	THEF	*	FP	93- 51
216♦	54-86W	TTL	S54F86W	MULB	*	FP	93- 23
217♦	54-86W	TTL	S54F86W	PHIN	*	FP	93- 23
218♦	54-86W	TTL	S54F86W	RTCF	*	FP	93- 23
219♦	54-86W	TTL	S54F86W	SIC	*	FP	93- 23
220♦	54-86W	TTL	S54F86W	VALG	*	FP	93- 23

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	54-86W	TTL	S54S86W	MULB	*	FP	93- 30
2♦	54-86W	TTL	S54S86W	PHIN	*	FP	93- 30
3♦	54-86W	TTL	S54S86W	RTCF	*	FP	93- 30
4♦	54-86W	TTL	S54S86W	SIC	*	FP	93- 30
5♦	54-86W	TTL	S54S86W	VALG	*	FP	93- 30
6♦	54-86W	TTL	S5486W	MULB	*	FP	93-105
7♦	54-86W	TTL	S5486W	PHIN	*	FP	93-105
8♦	54-86W	TTL	S5486W	RTCF	*	FP	93-105
9♦	54-86W	TTL	S5486W	SIC	*	FP	93-105
10♦	54-86W	TTL	S5486W	VALG	*	FP	93-105
11♦	54-86W	TTL	54S86FM	FSC	*	FP	93- 72
12♦	54-86W	TTL	5486FM	FSC	*	FP	93- 76
13♦	54L86T	CMOS	CD4030MW	NSC	*	FP	94- 38
14♦	54L86T	CMOS	CD4070BMW	NSC	*	FP	94- 37
15♦	54L86T	CMOS	HBC4030AK	SGSI	*	FP	94- 39
16♦	54L86T	CMOS	HCC4030BK	SGSI	*	QSM	94- 19
17♦	54L86T	CMOS	HCC4070BK	SGSI	*	QSM	94- 26
18♦	54L86T	CMOS	MM4630AF	NSC	*	FP	94- 40
19♦	54L86T	CMOS	4030BFC	FSC	*	FP	94- 27
20♦	54L86T	CMOS	4030BFM	FSC	*	FP	94- 28
21♦	54L86T	CMOS	4070BFC	FSC	*	FP	94- 29
22♦	54L86T	CMOS	4070BFM	FSC	*	FP	94- 30
23♦	54L86T	TTL	N8241Q	MULB	*	FP	93- 28
24♦	54L86T	TTL	N8241Q	PHIN	*	FP	93- 28
25♦	54L86T	TTL	S8241W	MULB	*	FP	93- 65
26♦	54L86T	TTL	S8241W	PHIN	*	FP	93- 65
27♦	54L86T	TTL	S8241W	VALG	*	FP	93- 65
28	54H87W	MON	54H87FM	FSC	*	FP	245- 76
29♦	54H89W	TTL	MC3122F	MOTA	*	FP	90- 65
30♦	54-90W	TTL	DM54LS90W	NSC	*	FP	175- 81
31♦	54-90W	TTL	DM54L90W	NSC	*	FP	173- 34
32♦	54-90W	TTL	DM5490W	NSC	*	FP	175- 6
33♦	54-90W	TTL	SFC490PM	THEF	*	FP	173- 98
34♦	54-90W	TTL	S54LS90W	MULB	*	FP	175- 18
35♦	54-90W	TTL	S54LS90W	PHIN	*	FP	175- 18
36♦	54-90W	TTL	S54LS90W	RTCF	*	FP	175- 18
37♦	54-90W	TTL	S54LS90W	SIC	*	FP	175- 18
38♦	54-90W	TTL	S54LS90W	VALG	*	FP	175- 18
39♦	54-90W	TTL	S5490W	MULB	*	FP	173- 30
40♦	54-90W	TTL	S5490W	PHIN	*	FP	173- 30
41♦	54-90W	TTL	S5490W	VALG	*	FP	173- 30
42♦	54-90W	TTL	54LS90FM	FSC	*	FP	174-103
43♦	54-90W	TTL	5490AFM	FSC	*	FP	175- 49
44♦	54-92W	TTL	DM54LS92W	NSC	*	FP	167-100
45♦	54-92W	TTL	DM5492AW	NSC	*	FP	167-102
46♦	54-92W	TTL	DM5492W	NSC	*	FP	167- 94
47♦	54-92W	TTL	SFC492PM	THEF	*	FP	167- 86
48♦	54-92W	TTL	S54LS92W	MULB	*	FP	167- 98
49♦	54-92W	TTL	S54LS92W	PHIN	*	FP	167- 98
50♦	54-92W	TTL	S54LS92W	RTCF	*	FP	167- 98
51♦	54-92W	TTL	S54LS92W	SIC	*	FP	167- 98
52♦	54-92W	TTL	S54LS92W	VALG	*	FP	167- 98
53♦	54-92W	TTL	S5492W	MULB	*	FP	167- 80
54♦	54-92W	TTL	S5492W	PHIN	*	FP	167- 80
55♦	54-92W	TTL	S5492W	VALG	*	FP	167- 80
56♦	54-92W	TTL	54LS92FM	FSC	*	FP	167- 87
57♦	54-92W	TTL	5492AFM	FSC	*	FP	167- 90
58♦	54-93T	TTL	DM54L93W	NSC	*	FP	155- 56
59♦	54L93T	TTL	DM76L93F	NSC	*	FP	155- 58
60♦	54L93T	TTL	DM86L93F	NSC	*	FP	155- 61
61♦	54LS93	CMOS	CD74HCT93M(A)	RCA	*	SO	154- 22
62♦	54LS93	CMOS	CD74HC93M(A)	RCA	*	SO	154- 20
63♦	54LS93	TTL	DM54LS93W	NSC	*	FP	158- 3
64♦	54LS93	TTL	DM5493AW	NSC	*	FP	158- 8
65♦	54LS93	TTL	DM5493W	NSC	*	FP	157- 43
66♦	54LS93	TTL	SFC493PM	THEF	*	FP	155- 93
67♦	54LS93	TTL	S54LS93W	MULB	*	FP	157- 56
68♦	54LS93	TTL	S54LS93W	PHIN	*	FP	157- 56
69♦	54LS93	TTL	S54LS93W	RTCF	*	FP	157- 56
70♦	54LS93	TTL	S54LS93W	SIC	*	FP	157- 56
71♦	54LS93	TTL	S54LS93W	VALG	*	FP	157- 56
72♦	54LS93	TTL	S5493W	MULB	*	FP	155- 7
73♦	54LS93	TTL	S5493W	PHIN	*	FP	155- 7
74♦	54LS93	TTL	S5493W	RTCF	*	FP	155- 7
75♦	54LS93	TTL	S5493W	SIC	*	FP	155- 7
76♦	54LS93	TTL	S5493W	VALG	*	FP	155- 7
77♦	54LS93	TTL	54LS93FM	FSC	*	FP	157- 23
78♦	54LS93	TTL	5493AFM	FSC	*	FP	157- 27
79	54-100W	TTL	S54100Q	MULB	*	FP	231- 48
80	54-100W	TTL	S54100Q	PHIN	*	FP	231- 48
81	54-100W	TTL	S54100W	PHIN	*	FP	231- 49
82	54-100W	TTL	S54100W	VALG	*	FP	231- 49
83	54H103	TTL	S54H103W	MULB	*	FP	71- 84
84	54H103	TTL	S54H103W	PHIN	*	FP	71- 84
85	54H103	TTL	S54H103W	VALG	*	FP	71- 84
86	54H103	TTL	54H103FM	FSC	*	FP	72- 71
87	54-104W	TTL	9000FM	FSC	*	FP	65- 30
88	54-105W	TTL	9001FM	FSC	*	FP	66- 40
89♦	54-107	CMOS	CD74HCT107M	RCA	*	SO	73- 42
90♦	54-107	CMOS	CD74HC107M	RCA	*	SO	73- 35
91	54-107F	TTL	S54107W	MULB	*	FP	68- 21
92	54-107F	TTL	S54107W	PHIN	*	FP	68- 21
93	54-107F	TTL	S54107W	VALG	*	FP	68- 21
94	54-107F	TTL	54107FM	FSC	*	FP	67-110
95	54LS107W	TTL	S54LS107W	MULB	*	FP	71- 1
96	54LS107W	TTL	S54LS107W	PHIN	*	FP	71- 1
97	54LS107W	TTL	S54LS107W	RTCF	*	FP	71- 1
98	54LS107W	TTL	S54LS107W	SIC	*	FP	71- 1
99	54LS107W	TTL	S54LS107W	VALG	*	FP	71- 1
100	54LS107W	TTL	54LS107FM	FSC	*	FP	70- 25
101	54-109	CMOS	CD74HCT109M	RCA	*	SO	73- 44
102♦	54-109	TTL	DM54109J	NSC		DIP	71- 75
103	54-109	TTL	74F109SC	FSC	*	SO	74- 12
104	54-109W	TTL	N74109W	MULB	*	FP	66-107
105	54-109W	TTL	N74109W	PHIN	*	FP	66-107
106	54-109W	TTL	S54F109W	SIC	*	FP	73- 90
107	54-109W	TTL	S54F109W	VALG	*	FP	73- 90
108	54-109W	TTL	S54LS109AW	MULB	*	FP	69- 87
109	54-109W	TTL	S54LS109AW	PHIN	*	FP	69- 87
110	54-109W	TTL	S54LS109AW	RTCF	*	FP	69- 87
111	54-109W	TTL	S54LS109AW	SIC	*	FP	69- 87
112	54-109W	TTL	S54LS109AW	VALG	*	FP	69- 87
113	54-109W	TTL	S54LS109W	MULB	*	FP	69- 90
114	54-109W	TTL	S54LS109W	PHIN	*	FP	69- 90
115	54-109W	TTL	S54LS109W	SIC	*	FP	69- 90
116	54-109W	TTL	S54LS109W	VALG	*	FP	69- 90
117	54-109W	TTL	S54109W	MULB	*	FP	69- 97
118	54-109W	TTL	S54109W	PHIN	*	FP	69- 97
119	54-109W	TTL	S54109W	RTCF	*	FP	69- 97
120	54-109W	TTL	S54109W	SIC	*	FP	69- 97
121	54-109W	TTL	S54109W	VALG	*	FP	69- 97
122	54-109W	TTL	54F109FM	FSC	*	FP	73-108
123♦	54-109W	TTL	54LS109FM	FSC	*	FP	71- 91
124	54-109W	TTL	54S109FM	FSC	*	FP	73- 61
125	54-109W	TTL	9024FM	FSC	*	FP	69- 36
126♦	54S112	TTL	DM54S112J	NSC		DIP	74- 26
127	54S112	TTL	74F112SC	FSC	*	SO	74- 60
128	54S112W	TTL	S54LS112W	MULB	*	FP	71- 4
129	54S112W	TTL	S54LS112W	PHIN	*	FP	71- 4
130	54S112W	TTL	S54LS112W	RTCF	*	FP	71- 4
131	54S112W	TTL	S54LS112W	SIC	*	FP	71- 4
132	54S112W	TTL	S54LS112W	VALG	*	FP	71- 4
133	54S112W	TTL	S54S112W	MULB	*	FP	73- 92
134	54S112W	TTL	S54S112W	PHIN	*	FP	73- 92
135	54S112W	TTL	S54S112W	RTCF	*	FP	73- 92
136	54S112W	TTL	S54S112W	SIC	*	FP	73- 92
137	54S112W	TTL	S54S112W	VALG	*	FP	73- 92
138♦	54S112W	TTL	54LS112FM	FSC	*	FP	71- 93
139	54S112W	TTL	54S112FM	FSC	*	FP	74- 5
140♦	54S113	TTL	DM54S113J	NSC		DIP	74- 27
141	54S113	TTL	74F113SC	FSC	*	SO	74- 17
142♦	54S113W	TTL	MC3162F	MOTA	*	FP	72- 95
143	54S113W	TTL	S54LS113W	MULB	*	FP	71- 6
144	54S113W	TTL	S54LS113W	PHIN	*	FP	71- 6
145	54S113W	TTL	S54LS113W	RTCF	*	FP	71- 6
146	54S113W	TTL	S54LS113W	SIC	*	FP	71- 6
147	54S113W	TTL	S54LS113W	VALG	*	FP	71- 6
148	54S113W	TTL	S54S113W	MULB	*	FP	71- 9
149	54S113W	TTL	S54S113W	PHIN	*	FP	71- 9
150	54S113W	TTL	S54S113W	RTCF	*	FP	71- 9
151	54S113W	TTL	S54S113W	SIC	*	FP	71- 9
152	54S113W	TTL	S54S113W	VALG	*	FP	71- 9
153♦	54S113W	TTL	54LS113FM	FSC	*	FP	71- 94
154	54S113W	TTL	54S113FM	FSC	*	FP	74- 6
155♦	54S114	TTL	DM54S114J	NSC		DIP	74- 28
156	54S114	TTL	74F114SC	FSC	*	SO	74- 22
157	54S114W	TTL	S54LS114W	MULB	*	FP	71- 8
158	54S114W	TTL	S54LS114W	PHIN	*	FP	71- 8
159	54S114W	TTL	S54LS114W	VALG	*	FP	71- 8
160	54S114W	TTL	S54S114W	MULB	*	FP	73- 95
161	54S114W	TTL	S54S114W	PHIN	*	FP	73- 95
162	54S114W	TTL	S54S114W	VALG	*	FP	73- 95
163♦	54S114W	TTL	54LS114FM	FSC	*	FP	71- 95
164	54S114W	TTL	54S114FM	FSC	*	FP	74- 7
165	54-116W	TTL	S54116W	MULB	*	FP	230-102
166	54-116W	TTL	S54116W	PHIN	*	FP	230-102
167	54-116W	TTL	S54116W	RTCF	*	FP	230-102
168	54-116W	TTL	S54116W	SIC	*	FP	230-102
169	54-116W	TTL	S54116W	VALG	*	FP	230-102
170	54-116W	TTL	S9308Q	MULB	*	FP	231- 46
171	54-116W	TTL	S9308Q	PHIN	*	FP	231- 46
172	54-116W	TTL	S9308Q	VALG	*	FP	231- 46
173	54-116W	TTL	93L08FM	FSC	*	FP	231- 76
174	54-116W	TTL	9308FM	FSC	*	FP	230- 71
175	54-121	TTL	DM54121W	NSC	*	FP	188- 61
176	54-121	TTL	N74121W	MULB	*	FP	188- 91
177	54-121	TTL	N74121W	PHIN	*	FP	188- 91
178♦	54-121	TTL	SFC4121PM	THEF	*	FP	188-108
179♦	54-121	TTL	S54121Q	MULB	*	FP	188- 99
180	54-121	TTL	S54121W	MULB	*	FP	188-100
181	54-121	TTL	S54121W	PHIN	*	FP	188-100
182	54-121	TTL	S54121W	RTCF	*	FP	188-100
183	54-121	TTL	S54121W	SIC	*	FP	188-100
184	54-121	TTL	S54121W	VALG	*	FP	188-100
185	54-121	TTL	54121FM	FSC	*	FP	188- 47
186♦	54-122	TTL	S54122Q	MULB	*	FP	188-102
187	54-122	TTL	S54122W	MULB	*	FP	188-103
188	54-122	TTL	S54122W	PHIN	*	FP	188-103
189	54-122	TTL	S54122W	SIC	*	FP	188-103
190	54-122	TTL	S54122W	VALG	*	FP	188-103
191	54-122	TTL	54122FM	FSC	*	FP	188- 49
192	54-123	CMOS	CD74HCT123M(A)	RCA	*	SO	189- 83
193	54-123	CMOS	CD74HCT423M(A)	RCA	*	SO	189- 87
194	54-123	CMOS	CD74HC123M(A)	RCA	*	SO	189- 75
195	54-123	CMOS	CD74HC423M(A)	RCA	*	SO	189- 79
196♦	54-123	CMOS	MM54HC123J	NSC		DIP	190- 87
197▼	54-123	CMOS	M54HC123F1	SGSI		DIP	190- 27
198♦	54-123	TTL	DM54123J	NSC		DIP	189-109
199	54-123	TTL	DM7853W	NSC	*	FP	189- 99
200	54-123	TTL	DM8853W	NSC	*	FP	189-105
201	54-123	TTL	S54LS123AW	MULB	*	FP	191- 37
202	54-123	TTL	S54LS123AW	PHIN	*	FP	191- 37
203	54-123	TTL	S54LS123AW	SIC	*	FP	191- 37
204	54-123	TTL	S54LS123AW	VALG	*	FP	191- 37
205	54-123	TTL	S54123W	MULB	*	FP	191- 45
206	54-123	TTL	S54123W	PHIN	*	FP	191- 45
207	54-123	TTL	S54123W	RTCF	*	FP	191- 45
208	54-123	TTL	S54123W	SIC	*	FP	191- 45
209	54-123	TTL	S54123W	VALG	*	FP	191- 45
210♦	54-123	TTL	54123DM	FSC		DIP	189- 57
211	54-123	TTL	54123FM	FSC	*	FP	189- 58
212♦	54S133W	TTL	N74S133W	MULB	*	FP	111- 57
213♦	54S133W	TTL	N74S133W	PHIN	*	FP	111- 57
214♦	54S133W	TTL	S54S133W	MULB	*	FP	111- 59
215♦	54S133W	TTL	S54S133W	PHIN	*	FP	111- 59
216♦	54S133W	TTL	S54S133W	RTCF	*	FP	111- 59
217♦	54S133W	TTL	S54S133W	SIC	*	FP	111- 59
218♦	54S133W	TTL	S54S133W	VALG	*	FP	111- 59
219♦	54S133W	TTL	54LS133FM	FSC	*	FP	111- 71
220♦	54S133W	TTL	54S133FM	FSC	*	FP	111- 51

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG SMD	PKG TYPE	PAGE & LINE
1♦	54S134	TTL	DM54S134J	NSC		DIP	111- 46
2♦	54S134W	TTL	N74S134W	MULB	*	FP	111- 41
3♦	54S134W	TTL	N74S134W	PHIN	*	FP	111- 41
4♦	54S134W	TTL	S54S134W	MULB	*	FP	111- 64
5♦	54S134W	TTL	S54S134W	PHIN	*	FP	111- 64
6♦	54S134W	TTL	S54S134W	SIC	*	FP	111- 64
7♦	54S134W	TTL	S54S134W	VALG	*	FP	111- 64
8♦	54S134W	TTL	54S134FM	FSC	*	FP	111- 37
9♦	54S135	TTL	DM54S135J	NSC		DIP	94- 84
10♦	54S135W	TTL	S54S135W	MULB	*	FP	94- 83
11♦	54S135W	TTL	S54S135W	PHIN	*	FP	94- 83
12♦	54S135W	TTL	S54S135W	RTCF	*	FP	94- 83
13♦	54S135W	TTL	S54S135W	SIC	*	FP	94- 83
14♦	54S135W	TTL	S54S135W	VALG	*	FP	94- 83
15♦	54S135W	TTL	54S135FM	FSC	*	FP	94- 80
16♦	54-136W	TTL	S54LS136W	MULB	*	FP	93-102
17♦	54-136W	TTL	S54LS136W	PHIN	*	FP	93-102
18♦	54-136W	TTL	S54LS136W	SIC	*	FP	93-102
19♦	54-136W	TTL	S54LS136W	VALG	*	FP	93-102
20♦	54-136W	TTL	54LS136FM	FSC	*	FP	93- 62
21	54S138W	CMOS	TC40H138F	TOSJ	*	SO	126- 7
22	54S138W	TTL	S54LS138W(2)	MULB	*	FP	125- 42
23	54S138W	TTL	S54S138W(2)	MULB	*	FP	125- 44
24	54S139W	CMOS	HCC4556BK	SGSI	*	FP	126- 10
25	54S139W	CMOS	TC40H139F	TOSJ	*	SO	126- 17
26	54-154W	TTL	DM54L154AF	NSC	*	FP	125- 84
27	54-154W	TTL	54154FM(2)	FSC	*	FP	125- 68
28	54-156W	TTL	S54LS156W(2)	MULB	*	FP	126- 15
29♦	54-160	CMOS	CD74HCT160M	RCA	*	SO	173-108
30♦	54-160	CMOS	CD74HC160M	RCA	*	SO	173-104
31♦	54-160	TTL	DM54160AJ	NSC		DIP	174- 34
32♦	54-160	TTL	DM9310J	NSC		DIP	174- 33
33♦	54-160	TTL	74F160ASC	FSC	*	SO	176- 69
34♦	54-160W		DM54LS160AW	NSC			172- 40
35♦	54-160W	CMOS	CD40160BMW	NSC	*	FP	172- 82
36♦	54-160W	CMOS	HCC40160BK	SGSI	*	QSM	173- 51
37♦	54-160W	CMOS	HEF40160BT	MULB	*	SO	173- 76
38♦	54-160W	CMOS	HEF40160BT	PHIN	*	SO	173- 76
39♦	54-160W	CMOS	HEF40160BT	RTCF	*	SO	173- 76
40♦	54-160W	CMOS	HEF40160BT	VALG	*	SO	173- 76
41♦	54-160W	CMOS	HEF40160BTD	SIC	*	SO	175- 46
42♦	54-160W	CMOS	MM54HC160J	NSC		DIP	174- 23
43♦	54-160W	CMOS	TC40H160F	TOSJ	*	SO	173- 91
44♦	54-160W	CMOS	40160BFC	FSC	*	FP	172- 89
45♦	54-160W	CMOS	40160BFM	FSC	*	FP	172- 90
46♦	54-160W	TTL	DM54S160W	NSC	*	FP	176- 26
47♦	54-160W	TTL	DM54160AW	NSC	*	FP	175- 41
48♦	54-160W	TTL	DM9310W	NSC	*	FP	175- 40
49♦	54-160W	TTL	MC54F160AJ	MOTA		DIP	176- 79
50▼	54-160W	TTL	MC54F160AN	MOTA		DIP	176- 80
51♦	54-160W	TTL	MC74F160AJ	MOTA		DIP	176- 83
52♦	54-160W	TTL	MC74F160AN	MOTA		DIP	176- 84
53♦	54-160W	TTL	S54LS160AW	MULB	*	FP	174- 62
54♦	54-160W	TTL	S54LS160AW	PHIN	*	FP	174- 62
55♦	54-160W	TTL	S54LS160AW	RTCF	*	FP	174- 62
56♦	54-160W	TTL	S54LS160AW	SIC	*	FP	174- 62
57♦	54-160W	TTL	S54LS160AW	VALG	*	FP	174- 62
58♦	54-160W	TTL	S54160W	MULB	*	FP	174- 66
59♦	54-160W	TTL	S54160W	PHIN	*	FP	174- 66
60♦	54-160W	TTL	S54160W	RTCF	*	FP	174- 66
61♦	54-160W	TTL	S54160W	SIC	*	FP	174- 66
62♦	54-160W	TTL	S54160W	VALG	*	FP	174- 66
63♦	54-160W	TTL	54F160FM	FSC	*	FP	176- 60
64♦	54-160W	TTL	54LS160FM	FSC	*	FP	172- 35
65♦	54-160W	TTL	54160FM	FSC	*	FP	174-107
66♦	54-160W	TTL	93L10FM	FSC	*	FP	173- 65
67♦	54-160W	TTL	93S10FM	FSC	*	FP	176- 48
68♦	54-160W	TTL	9310FM	FSC	*	FP	173- 82
69♦	54-161	CMOS	CD74HCT161M	RCA	*	SO	155-103
70♦	54-161	CMOS	CD74HC161M	RCA	*	SO	155- 99
71♦	54-161	CMOS	HEF40161BT	MULB	*	SO	155- 48
72♦	54-161	CMOS	HEF40161BT	PHIN	*	SO	155- 48
73♦	54-161	CMOS	HEF40161BT	RTCF	*	SO	155- 48
74♦	54-161	CMOS	HEF40161BT	VALG	*	SO	155- 48
75♦	54-161	TTL	DM54S161J	NSC		DIP	158- 71
76♦	54-161	TTL	DM54161AJ	NSC		DIP	156- 69
77♦	54-161	TTL	DM9316J	NSC		DIP	156- 68
78♦	54-161N	TTL	DM8316N	NSC		DIP	175- 39
79♦	54-161W		MC54F161AJ	MOTA		DIP	159- 10
80▼	54-161W		MC54F161AN	MOTA		DIP	159- 11
81♦	54-161W		MC74F161AJ	MOTA		DIP	159- 14
82♦	54-161W		MC74F161AN	MOTA		DIP	159- 15
83♦	54-161W	CMOS	CD40161BMW	NSC	*	FP	154- 60
84♦	54-161W	CMOS	HCC40161BK	SGSI	*	QSM	155- 25
85♦	54-161W	CMOS	HEF40161BTD	SIC	*	SO	157- 83
86♦	54-161W	CMOS	TC40H161F	TOSJ	*	SO	155- 76
87♦	54-161W	CMOS	40161BFC	FSC	*	FP	154- 67
88♦	54-161W	CMOS	40161BFM	FSC	*	FP	154- 68
89♦	54-161W	TTL	DM54LS161AW	NSC	*	FP	157- 37
90♦	54-161W	TTL	DM54161AW	NSC	*	FP	157- 77
91♦	54-161W	TTL	DM9316W	NSC	*	FP	157- 76
92♦	54-161W	TTL	S54LS161AW	MULB	*	FP	156- 96
93♦	54-161W	TTL	S54LS161AW	PHIN	*	FP	156- 96
94♦	54-161W	TTL	S54LS161AW	RTCF	*	FP	156- 96
95♦	54-161W	TTL	S54LS161AW	SIC	*	FP	156- 96
96♦	54-161W	TTL	S54LS161AW	VALG	*	FP	156- 96
97♦	54-161W	TTL	S54161W	MULB	*	FP	156-103
98♦	54-161W	TTL	S54161W	PHIN	*	FP	156-103
99♦	54-161W	TTL	S54161W	RTCF	*	FP	156-103
100♦	54-161W	TTL	S54161W	SIC	*	FP	156-103
101♦	54-161W	TTL	S54161W	VALG	*	FP	156-103
102♦	54-161W	TTL	54F161FM	FSC	*	FP	158-101
103♦	54-161W	TTL	54LS161FM	FSC	*	FP	154- 9
104♦	54-161W	TTL	54161FM	FSC	*	FP	157- 31
105♦	54-161W	TTL	93L16FM	FSC	*	FP	155- 37
106♦	54-161W	TTL	93S16FM	FSC	*	FP	158- 92
107♦	54-161W	TTL	9316FM	FSC	*	FP	155- 54
108♦	54-162	CMOS	CD74HCT162M	RCA	*	SO	173-110
109♦	54-162	CMOS	CD74HC162M	RCA	*	SO	173-106
110♦	54-162	TTL	DM54162AJ	NSC		DIP	174- 35
111♦	54-162	TTL	74F162ASC	FSC	*	SO	176- 76
112♦	54-162W		DM54LS162AW	NSC			172- 41
113♦	54-162W	CMOS	CD40162BMW	NSC	*	FP	172- 86
114♦	54-162W	CMOS	HCC40162BK	SGSI	*	QSM	173- 54
115♦	54-162W	CMOS	HEF40162BT	MULB	*	SO	173- 79
116♦	54-162W	CMOS	HEF40162BT	PHIN	*	SO	173- 79
117♦	54-162W	CMOS	HEF40162BT	RTCF	*	SO	173- 79
118♦	54-162W	CMOS	HEF40162BT	VALG	*	SO	173- 79
119♦	54-162W	CMOS	HEF40162BTD	SIC	*	SO	175- 47
120♦	54-162W	CMOS	MM54HC162J	NSC		DIP	174- 24
121♦	54-162W	CMOS	TC40H162F	TOSJ	*	SO	173- 93
122♦	54-162W	CMOS	40162BFC	FSC	*	FP	172- 94
123♦	54-162W	CMOS	40162BFM	FSC	*	FP	172- 95
124♦	54-162W	TTL	DM54S162W	NSC	*	FP	176- 27
125♦	54-162W	TTL	MC54F162AJ	MOTA		DIP	176- 81
126▼	54-162W	TTL	MC54F162AN	MOTA		DIP	176- 82
127♦	54-162W	TTL	MC74F162AJ	MOTA		DIP	176- 85
128♦	54-162W	TTL	MC74F162AN	MOTA		DIP	176- 86
129♦	54-162W	TTL	S54LS162AW	MULB	*	FP	174- 64
130♦	54-162W	TTL	S54LS162AW	PHIN	*	FP	174- 64
131♦	54-162W	TTL	S54LS162AW	RTCF	*	FP	174- 64
132♦	54-162W	TTL	S54LS162AW	SIC	*	FP	174- 64
133♦	54-162W	TTL	S54LS162AW	VALG	*	FP	174- 64
134♦	54-162W	TTL	S54162R	MULB	*	FP	174- 69
135♦	54-162W	TTL	S54162R	PHIN	*	FP	174- 69
136♦	54-162W	TTL	S54162W	MULB	*	FP	174- 70
137♦	54-162W	TTL	S54162W	PHIN	*	FP	174- 70
138♦	54-162W	TTL	S54162W	VALG	*	FP	174- 70
139♦	54-162W	TTL	54F162FM	FSC	*	FP	176- 64
140♦	54-162W	TTL	54LS162FM	FSC	*	FP	172- 36
141♦	54-162W	TTL	54162FM	FSC	*	FP	174-108
142♦	54-163	CMOS	CD74HCT163M	RCA	*	SO	155-105
143♦	54-163	CMOS	CD74HC163M	RCA	*	SO	155-101
144♦	54-163	TTL	DM54163AJ	NSC		DIP	156- 70
145♦	54-163	TTL	74F161ASC	FSC	*	SO	158-110
146♦	54-163	TTL	74F163ASC	FSC	*	SO	159- 7
147♦	54-163W		MC54F163AJ	MOTA		DIP	159- 12
148▼	54-163W		MC54F163AN	MOTA		DIP	159- 13
149♦	54-163W		MC74F163AJ	MOTA		DIP	159- 16
150♦	54-163W		MC74F163AN	MOTA		DIP	159- 17
151♦	54-163W	TTL	DM54163AW	NSC	*	FP	157- 78
152♦	54-163W	TTL	S54163R	MULB	*	FP	156-106
153♦	54-163W	TTL	S54163R	PHIN	*	FP	156-106
154♦	54-163W	TTL	S54163W	MULB	*	FP	156-107
155♦	54-163W	TTL	S54163W	PHIN	*	FP	156-107
156♦	54-163W	TTL	S54163W	RTCF	*	FP	156-107
157♦	54-163W	TTL	S54163W	SIC	*	FP	156-107
158♦	54-163W	TTL	S54163W	VALG	*	FP	156-107
159♦	54-163W	TTL	54163FM	FSC	*	FP	157- 33
160♦	54LS163W	CMOS	CD40163BMW	NSC	*	FP	154- 64
161♦	54LS163W	CMOS	HCC40163BK	SGSI	*	QSM	155- 28
162♦	54LS163W	CMOS	HEF40163BT	MULB	*	SO	155- 51
163♦	54LS163W	CMOS	HEF40163BT	PHIN	*	SO	155- 51
164♦	54LS163W	CMOS	HEF40163BT	RTCF	*	SO	155- 51
165♦	54LS163W	CMOS	HEF40163BT	VALG	*	SO	155- 51
166♦	54LS163W	CMOS	HEF40163BTD	SIC	*	SO	157- 84
167♦	54LS163W	CMOS	TC40H163F	TOSJ	*	SO	166- 36
168♦	54LS163W	CMOS	40163BFC	FSC	*	FP	154- 72
169♦	54LS163W	CMOS	40163BFM	FSC	*	FP	154- 73
170♦	54LS163W	TTL	DM54LS163AW	NSC	*	FP	157- 39
171♦	54LS163W	TTL	S54LS163AW	MULB	*	FP	156- 99
172♦	54LS163W	TTL	S54LS163AW	PHIN	*	FP	156- 99
173♦	54LS163W	TTL	S54LS163AW	RTCF	*	FP	156- 99
174♦	54LS163W	TTL	S54LS163AW	SIC	*	FP	156- 99
175♦	54LS163W	TTL	S54LS163AW	VALG	*	FP	156- 99
176♦	54LS163W	TTL	54F163FM	FSC	*	FP	158-105
177♦	54LS163W	TTL	54LS163FM	FSC	*	FP	154- 11
178	54-167	TTL	54167FM	FSC	*	FP	197- 86
179♦	54S168	TTL	74F168SC	FSC	*	SO	180- 51
180♦	54S168W	TTL	S54LS168AW	MULB	*	FP	179- 22
181♦	54S168W	TTL	S54LS168AW	PHIN	*	FP	179- 22
182♦	54S168W	TTL	S54LS168AW	RTCF	*	FP	179- 22
183♦	54S168W	TTL	S54LS168AW	SIC	*	FP	179- 22
184♦	54S168W	TTL	S54LS168AW	VALG	*	FP	179- 22
185♦	54S168W	TTL	54LS168FM	FSC	*	FP	178- 93
186♦	54S169	TTL	74F169SC	FSC	*	SO	163- 78
187♦	54S169W	TTL	N74S169F	MULB		DIP	163- 26
188♦	54S169W	TTL	S54LS169AW	MULB	*	FP	162- 29
189♦	54S169W	TTL	S54LS169AW	PHIN	*	FP	162- 29
190♦	54S169W	TTL	S54LS169AW	RTCF	*	FP	162- 29
191♦	54S169W	TTL	S54LS169AW	SIC	*	FP	162- 29
192♦	54S169W	TTL	S54LS169AW	VALG	*	FP	162- 29
193♦	54S169W	TTL	54LS169FM	FSC	*	FP	161-103
194	54-173	TTL	N74LS173D	MULB	*	SO	55- 3
195	54-173	TTL	N74LS173D	PHIN	*	SO	55- 3
196	54-173	TTL	N74LS173D	RTCF	*	SO	55- 3
197	54-173	TTL	N74LS173D	VALG	*	SO	55- 3
198	54-173	TTL	S54LS173G	MULB	*	LLCC	55- 9
199	54-173	TTL	S54LS173G	PHIN	*	LLCC	55- 9
200	54-173	TTL	S54LS173G	RTCF	*	LLCC	55- 9
201	54-173	TTL	S54LS173G	VALG	*	LLCC	55- 9
202	54-173W	TTL	S54LS173W	MULB	*	FP	55- 10
203	54-173W	TTL	S54LS173W	PHIN	*	FP	55- 10
204	54-173W	TTL	S54LS173W	RTCF	*	FP	55- 10
205	54-173W	TTL	S54LS173W	SIC	*	FP	55- 10
206	54-173W	TTL	S54LS173W	VALG	*	FP	55- 10
207	54-174	CMOS	UPD4174BG	NECJ	*	SO	56- 15
208♦	54-174	TTL	SN54LS174J	MOTA		DIP	56- 99
209▼	54-174	TTL	SN54LS174N	MOTA		DIP	56-100
210	54-174	TTL	S54LS174G	MULB	*	LLCC	56- 79
211	54-174	TTL	S54LS174G	PHIN	*	LLCC	56- 79
212	54-174	TTL	S54LS174G	RTCF	*	LLCC	56- 79
213	54-174	TTL	S54LS174G	VALG	*	LLCC	56- 79
214	54-174	TTL	74F174SC	FSC	*	SO	57- 52
215	54-174W	CMOS	HCC40174BK	SGSI	*	QSM	56- 18
216	54-174W	CMOS	HEF40174BT	MULB	*	SO	56- 68
217	54-174W	CMOS	HEF40174BT	PHIN	*	SO	56- 68
218	54-174W	CMOS	HEF40174BT	RTCF	*	SO	56- 68
219	54-174W	CMOS	HEF40174BT	VALG	*	SO	56- 68
220	54-174W	CMOS	HEF40174BTD	SIC	*	SO	57- 1

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1	54-174W	CMOS	TC40H174F	TOSJ		DIP	56- 33
2	54-174W	TTL	DM54LS174W	NSC	*	FP	56- 88
3	54-174W	TTL	DM54S174W	NSC	*	FP	57- 38
4▼	54-174W	TTL	DM54174W	NSC	*	FP	56- 91
5	54-174W	TTL	S54LS174W	MULB	*	FP	56- 80
6	54-174W	TTL	S54LS174W	PHIN	*	FP	56- 80
7	54-174W	TTL	S54LS174W	RTCF	*	FP	56- 80
8	54-174W	TTL	S54LS174W	SIC	*	FP	56- 80
9	54-174W	TTL	S54LS174W	VALG	*	FP	56- 80
10	54-174W	TTL	S54S174W	MULB	*	FP	57- 22
11	54-174W	TTL	S54S174W	PHIN	*	FP	57- 22
12	54-174W	TTL	S54S174W	RTCF	*	FP	57- 22
13	54-174W	TTL	S54S174W	SIC	*	FP	57- 22
14	54-174W	TTL	S54S174W	VALG	*	FP	57- 22
15	54-174W	TTL	S54174W	MULB	*	FP	56- 48
16	54-174W	TTL	S54174W	RTCF	*	FP	56- 48
17	54-174W	TTL	S54174W	SIC	*	FP	56- 48
18	54-174W	TTL	S54174W	VALG	*	FP	56- 48
19	54-175	CMOS	UPD4175BG	NECJ	*	SO	54- 19
20	54-175	TTL	SN54175W(1)	TII	*	FP	55- 18
21	54-175	TTL	74F175SC	FSC	*	SO	55- 95
22	54-175W	CMOS	CD40175BK	RCA	*	FP	54- 14
23	54-175W	CMOS	HEF40175BT	MULB	*	SO	54-106
24	54-175W	CMOS	HEF40175BT	PHIN	*	SO	54-106
25	54-175W	CMOS	HEF40175BT	RTCF	*	SO	54-106
26	54-175W	CMOS	HEF40175BT	VALG	*	SO	54-106
27	54-175W	CMOS	HEF40175BTD	SIC	*	SO	55- 37
28♦	54-175W	TTL	DM54LS175W	NSC	*	FP	55- 21
29♦	54-175W	TTL	DM54S175W	NSC	*	FP	55- 86
30	54-175W	TTL	S54LS175W	MULB	*	FP	55- 13
31	54-175W	TTL	S54LS175W	PHIN	*	FP	55- 13
32	54-175W	TTL	S54LS175W	RTCF	*	FP	55- 13
33	54-175W	TTL	S54LS175W	SIC	*	FP	55- 13
34	54-175W	TTL	S54LS175W	VALG	*	FP	55- 13
35	54-175W	TTL	S54175W	MULB	*	FP	54- 72
36	54-175W	TTL	S54175W	PHIN	*	FP	54- 72
37	54-175W	TTL	S54175W	RTCF	*	FP	54- 72
38	54-175W	TTL	S54175W	SIC	*	FP	54- 72
39	54-175W	TTL	S54175W	VALG	*	FP	54- 72
40	54-175W	TTL	54F175FM	FSC	*	FP	55-101
41	54-175W	TTL	54LS175FM	FSC	*	FP	53-102
42	54-175W	TTL	54S175FM	FSC	*	FP	53-104
43	54-175W	TTL	54175FM	FSC	*	FP	53-110
44♦	54-176W	TTL	DM74176W	NSC	*	FP	181-107
45♦	54-176W	TTL	54176FM	FSC	*	FP	181-101
46♦	54-177W		DM54S197W	NSC			154- 23
47♦	54-177W	TTL	DM54LS197W	NSC	*	FP	157- 87
48♦	54-177W	TTL	DM74177W	NSC	*	FP	158- 38
49♦	54-177W	TTL	DM8281W	NSC	*	FP	158- 34
50♦	54-177W	TTL	N8281Q	MULB	*	FP	156- 89
51♦	54-177W	TTL	N8281Q	PHIN	*	FP	156- 89
52♦	54-177W	TTL	S54LS197W	MULB	*	FP	157- 19
53♦	54-177W	TTL	S54LS197W	PHIN	*	FP	157- 19
54♦	54-177W	TTL	S54LS197W	RTCF	*	FP	157- 19
55♦	54-177W	TTL	S54LS197W	SIC	*	FP	157- 19
56♦	54-177W	TTL	S54LS197W	VALG	*	FP	157- 19
57♦	54-177W	TTL	S8281W	MULB	*	FP	155- 9
58♦	54-177W	TTL	S8281W	PHIN	*	FP	155- 9
59♦	54-177W	TTL	S8281W	SIC	*	FP	155- 9
60♦	54-177W	TTL	S8281W	VALG	*	FP	155- 9
61♦	54-177W	TTL	S8291W	MULB	*	FP	156- 33
62♦	54-177W	TTL	S8291W	PHIN	*	FP	156- 33
63♦	54-177W	TTL	S8291W	VALG	*	FP	156- 33
64♦	54-177W	TTL	54177FM	FSC	*	FP	154- 32
65♦	54-177W	TTL	54197FM	FSC	*	FP	158- 68
66	54-180W	TTL	DM74180W	NSC	*	FP	227- 45
67♦	54-180W	TTL	SFC4180PM	THEF	*	FP	227- 56
68	54-180W	TTL	S54180W	MULB	*	FP	227- 50
69	54-180W	TTL	S54180W	PHIN	*	FP	227- 50
70	54-180W	TTL	S54180W	RTCF	*	FP	227- 50
71	54-180W	TTL	S54180W	SIC	*	FP	227- 50
72	54-180W	TTL	S54180W	VALG	*	FP	227- 50
73	54-180W	TTL	54180FM	FSC	*	FP	227- 39
74	54-181	CMOS	CD74HCT181M(A)	RCA	*	SO	221- 17
75	54-181	CMOS	CD74HC181M(A)	RCA	*	SO	221- 15
76▼	54-181	CMOS	M54HC181F1	SGSI		DIP	220- 17
77	54-181	TTL	N74S181W	MULB	*	FP	221- 6
78	54-181	TTL	N74S181W	PHIN	*	FP	221- 6
79	54-181	TTL	N74S181W	SIC	*	FP	221- 6
80	54-181	TTL	S54LS181Q	MULB	*	FP	222- 54
81	54-181	TTL	S54LS181Q	PHIN	*	FP	222- 54
82	54-181	TTL	S54LS181W	MULB	*	FP	222- 80
83	54-181	TTL	S54LS181W	PHIN	*	FP	222- 80
84	54-181	TTL	S54LS181W	RTCF	*	FP	222- 80
85	54-181	TTL	S54LS181W	SIC	*	FP	222- 80
86	54-181	TTL	S54LS181W	VALG	*	FP	222- 80
87	54-181	TTL	S54S181W	MULB	*	FP	221- 8
88	54-181	TTL	S54S181W	PHIN	*	FP	221- 8
89	54-181	TTL	S54181Q	MULB	*	FP	222- 59
90	54-181	TTL	S54181Q	PHIN	*	FP	222- 59
91	54-181	TTL	54F181FM	FSC	*	FP	221- 22
92	54-181	TTL	54LS181FM	FSC	*	FP	222- 72
93	54-181	TTL	54S181FM	FSC	*	FP	220-106
94	54-181	TTL	74F181SC	FSC	*	SO	221- 52
95	54-181	TTL	93L41FM	FSC	*	FP	221- 99
96	54-181	TTL	93S41FM	FSC	*	FP	221- 2
97	54-181	TTL	9341FM	FSC	*	FP	221- 26
98	54-182	CMOS	CD74HCT182M(A)	RCA	*	SO	225- 28
99	54-182	CMOS	CD74HC182M(A)	RCA	*	SO	225- 26
100▼	54-182	CMOS	M54HC182F1	SGSI		DIP	224- 6
101	54-182	CMOS	4582BFC	FSC	*	FP	225- 60
102	54-182	CMOS	4582BFM	FSC	*	FP	225- 61
103	54-182	TTL	SN54S182-16W	MMI	*	FP	224- 95
104	54-182	TTL	SN54S182F	MMI	*	FP	224- 97
105	54-182	TTL	SN54S182F16	MMI	*	FP	224- 98
106	54-182	TTL	SN54S182W	MMI	*	FP	224-101
107	54-182	TTL	S54S182W	MULB	*	FP	224- 94
108	54-182	TTL	S54S182W	PHIN	*	FP	224- 94
109	54-182	TTL	S54S182W	RTCF	*	FP	224- 94
110	54-182	TTL	S54S182W	SIC	*	FP	224- 94
111	54-182	TTL	S54S182W	VALG	*	FP	224- 94
112	54-182	TTL	S54182W	MULB	*	FP	225- 33
113	54-182	TTL	S54182W	PHIN	*	FP	225- 33
114	54-182	TTL	S54182W	VALG	*	FP	225- 33
115	54-182	TTL	54F182FM	FSC	*	FP	224- 69
116	54-182	TTL	54S182FM	FSC	*	FP	224- 78
117	54-182	TTL	74F182SC	FSC	*	SO	224- 83
118	54-182	TTL	93S42FM	FSC	*	FP	225- 1
119	54-182	TTL	9342FM	FSC	*	FP	225- 11
120	54H183W	TTL	54H183FM	FSC	*	FP	198-100
121♦	54-190	CMOS	CD74HCT190M	RCA	*	SO	178- 34
122♦	54-190	CMOS	CD74HC190M	RCA	*	SO	178- 30
123♦	54-190	TTL	74F190SC	FSC	*	SO	180- 67
124▼	54-190W	CMOS	M54HC190F1	SGSI		DIP	177- 22
125♦	54-190W	TTL	DM74190W	NSC	*	FP	179- 2
126♦	54-190W	TTL	N74190W	MULB	*	FP	179- 18
127♦	54-190W	TTL	N74190W	PHIN	*	FP	179- 18
128♦	54-190W	TTL	S54LS190W	MULB	*	FP	178- 72
129♦	54-190W	TTL	S54LS190W	PHIN	*	FP	178- 72
130♦	54-190W	TTL	S54LS190W	SIC	*	FP	178- 72
131♦	54-190W	TTL	S54LS190W	VALG	*	FP	178- 72
132♦	54-190W	TTL	S54190W	MULB	*	FP	178- 74
133♦	54-190W	TTL	S54190W	PHIN	*	FP	178- 74
134♦	54-190W	TTL	S54190W	RTCF	*	FP	178- 74
135♦	54-190W	TTL	S54190W	SIC	*	FP	178- 74
136♦	54-190W	TTL	S54190W	VALG	*	FP	178- 74
137♦	54-190W	TTL	54LS190FM	FSC	*	FP	178- 50
138♦	54-190W	TTL	54190FM	FSC	*	FP	178- 98
139♦	54-191	CMOS	CD74HCT191M	RCA	*	SO	161- 36
140♦	54-191	CMOS	CD74HC191M	RCA	*	SO	161- 32
141♦	54-191	TTL	74F191SC	FSC	*	SO	163- 92
142▼	54-191W	CMOS	M54HC191F1	SGSI		DIP	159- 67
143♦	54-191W	TTL	DM74191W	NSC	*	FP	162- 8
144♦	54-191W	TTL	N74191W	MULB	*	FP	162- 27
145♦	54-191W	TTL	N74191W	PHIN	*	FP	162- 27
146♦	54-191W	TTL	S54LS191W	MULB	*	FP	161- 83
147♦	54-191W	TTL	S54LS191W	PHIN	*	FP	161- 83
148♦	54-191W	TTL	S54LS191W	RTCF	*	FP	161- 83
149♦	54-191W	TTL	S54LS191W	SIC	*	FP	161- 83
150♦	54-191W	TTL	S54LS191W	VALG	*	FP	161- 83
151♦	54-191W	TTL	S54191W	MULB	*	FP	161- 85
152♦	54-191W	TTL	S54191W	PHIN	*	FP	161- 85
153♦	54-191W	TTL	S54191W	RTCF	*	FP	161- 85
154♦	54-191W	TTL	S54191W	SIC	*	FP	161- 85
155♦	54-191W	TTL	S54191W	VALG	*	FP	161- 85
156♦	54-191W	TTL	54LS191FM	FSC	*	FP	163- 8
157♦	54-191W	TTL	54191FM	FSC	*	FP	161-107
158♦	54-192	CMOS	CD74HCT192M	RCA	*	SO	178- 36
159♦	54-192	CMOS	CD74HC192M	RCA	*	SO	178- 32
160♦	54-192	TTL	74F192SC	FSC	*	SO	180- 72
161♦	54-192W	CMOS	CD40192BMW	NSC	*	FP	177- 84
162♦	54-192W	CMOS	HEF40192BT	MULB	*	SO	178- 25
163♦	54-192W	CMOS	HEF40192BT	PHIN	*	SO	178- 25
164♦	54-192W	CMOS	HEF40192BT	RTCF	*	SO	178- 25
165♦	54-192W	CMOS	HEF40192BT	VALG	*	SO	178- 25
166♦	54-192W	CMOS	HEF40192BTD	SIC	*	SO	179- 48
167▼	54-192W	CMOS	M54HC192F1	SGSI		DIP	177- 23
168♦	54-192W	CMOS	40192BFC	FSC	*	FP	177- 65
169♦	54-192W	CMOS	40192BFM	FSC	*	FP	177- 66
170♦	54-192W	TTL	DM54LS192W	NSC	*	FP	179- 78
171♦	54-192W	TTL	DM54192W	NSC	*	FP	179- 64
172♦	54-192W	TTL	DM7560W	NSC	*	FP	179- 60
173♦	54-192W	TTL	S54LS192W	MULB	*	FP	179- 24
174♦	54-192W	TTL	S54LS192W	PHIN	*	FP	179- 24
175♦	54-192W	TTL	S54LS192W	RTCF	*	FP	179- 24
176♦	54-192W	TTL	S54LS192W	SIC	*	FP	179- 24
177♦	54-192W	TTL	S54LS192W	VALG	*	FP	179- 24
178♦	54-192W	TTL	S54192R	MULB	*	FP	179- 28
179♦	54-192W	TTL	S54192R	PHIN	*	FP	179- 28
180♦	54-192W	TTL	S54192W	MULB	*	FP	179- 29
181♦	54-192W	TTL	S54192W	PHIN	*	FP	179- 29
182♦	54-192W	TTL	S54192W	VALG	*	FP	179- 29
183♦	54-192W	TTL	54LS192FM	FSC	*	FP	179-108
184♦	54-192W	TTL	54192FM	FSC	*	FP	178- 99
185♦	54-193	CMOS	CD74HCT193M	RCA	*	SO	161- 38
186♦	54-193	CMOS	CD74HC193M	RCA	*	SO	161- 34
187♦	54-193	TTL	74F193SC	FSC	*	SO	163- 97
188♦	54-193W	CMOS	CD40193BMW	NSC	*	FP	160- 38
189♦	54-193W	CMOS	HEF40193BT	MULB	*	SO	161- 23
190♦	54-193W	CMOS	HEF40193BT	PHIN	*	SO	161- 23
191♦	54-193W	CMOS	HEF40193BT	RTCF	*	SO	161- 23
192♦	54-193W	CMOS	HEF40193BT	VALG	*	SO	161- 23
193♦	54-193W	CMOS	HEF40193BTD	SIC	*	SO	162- 54
194♦	54-193W	CMOS	MM54HC193J	NSC		DIP	161- 11
195▼	54-193W	CMOS	M54HC193F1	SGSI		DIP	159- 68
196♦	54-193W	CMOS	40193BFC	FSC	*	FP	160- 2
197♦	54-193W	CMOS	40193BFM	FSC	*	FP	160- 3
198♦	54-193W	TTL	DM54LS193W	NSC	*	FP	162- 88
199♦	54-193W	TTL	DM54193W	NSC	*	FP	162- 74
200♦	54-193W	TTL	DM7563W	NSC	*	FP	162- 70
201♦	54-193W	TTL	S54LS193W	MULB	*	FP	162- 32
202♦	54-193W	TTL	S54LS193W	PHIN	*	FP	162- 32
203♦	54-193W	TTL	S54LS193W	RTCF	*	FP	162- 32
204♦	54-193W	TTL	S54LS193W	SIC	*	FP	162- 32
205♦	54-193W	TTL	S54LS193W	VALG	*	FP	162- 32
206♦	54-193W	TTL	S54193R	MULB	*	FP	162- 36
207♦	54-193W	TTL	S54193R	PHIN	*	FP	162- 36
208♦	54-193W	TTL	S54193W	MULB	*	FP	162- 37
209♦	54-193W	TTL	S54193W	PHIN	*	FP	162- 37
210♦	54-193W	TTL	S54193W	RTCF	*	FP	162- 37
211♦	54-193W	TTL	S54193W	SIC	*	FP	162- 37
212♦	54-193W	TTL	S54193W	VALG	*	FP	162- 37
213♦	54-193W	TTL	54LS193FM	FSC	*	FP	163- 20
214♦	54-193W	TTL	54193FM	FSC	*	FP	162- 60
215♦	54-196W	TTL	DM54LS196W	NSC	*	FP	175- 55
216♦	54-196W	TTL	DM54S196J	NSC		DIP	176- 44
217♦	54-196W	TTL	DM54S196W	NSC	*	FP	176- 50
218♦	54-196W	TTL	DM7280W	NSC	*	FP	175-107
219♦	54-196W	TTL	DM8280W	NSC	*	FP	175-110
220♦	54-196W	TTL	N8280Q	MULB	*	FP	174- 54

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	54-196W	TTL	N8280Q	PHIN	*	FP	174- 54
2♦	54-196W	TTL	N8288Q	MULB	*	FP	174- 56
3♦	54-196W	TTL	N8288Q	PHIN	*	FP	174- 56
4♦	54-196W	TTL	N8290Q	MULB	*	FP	176- 21
5♦	54-196W	TTL	N8290Q	PHIN	*	FP	176- 21
6♦	54-196W	TTL	N8292Q	MULB	*	FP	173- 28
7♦	54-196W	TTL	N8292Q	PHIN	*	FP	173- 28
8♦	54-196W	TTL	S54LS196W	MULB	*	FP	174-102
9♦	54-196W	TTL	S54LS196W	PHIN	*	FP	174-102
10♦	54-196W	TTL	S54LS196W	SIC	*	FP	174-102
11♦	54-196W	TTL	S54LS196W	VALG	*	FP	174-102
12♦	54-196W	TTL	S8280W	MULB	*	FP	173- 32
13♦	54-196W	TTL	S8280W	PHIN	*	FP	173- 32
14♦	54-196W	TTL	S8280W	SIC	*	FP	173- 32
15♦	54-196W	TTL	S8280W	VALG	*	FP	173- 32
16♦	54-196W	TTL	S8290W	MULB	*	FP	174- 18
17♦	54-196W	TTL	S8290W	PHIN	*	FP	174- 18
18♦	54-196W	TTL	S8290W	VALG	*	FP	174- 18
19♦	54-196W	TTL	S8292W	MULB	*	FP	172- 78
20♦	54-196W	TTL	S8292W	PHIN	*	FP	172- 78
21♦	54-196W	TTL	S8292W	VALG	*	FP	172- 78
22♦	54-196W	TTL	54LS196FM	FSC	*	FP	176- 18
23♦	54-196W	TTL	54196FM	FSC	*	FP	176- 20
24	54-221	CMOS	CD74HCT221M	RCA	*	SO	189- 85
25	54-221	CMOS	CD74HC221M	RCA	*	SO	189- 77
26♦	54-221	CMOS	MM54HC221J	NSC		DIP	190- 88
27▼	54-221	CMOS	M54HC221F1	SGSI		DIP	190- 28
28	54-221	TTL	S54LS221W	MULB	*	FP	191- 39
29	54-221	TTL	S54LS221W	PHIN	*	FP	191- 39
30	54-221	TTL	S54LS221W	SIC	*	FP	191- 39
31	54-221	TTL	S54LS221W	VALG	*	FP	191- 39
32	54-221	TTL	S54221W	MULB	*	FP	191- 47
33	54-221	TTL	S54221W	PHIN	*	FP	191- 47
34	54-221	TTL	S54221W	RTCF	*	FP	191- 47
35	54-221	TTL	S54221W	SIC	*	FP	191- 47
36	54-221	TTL	S54221W	VALG	*	FP	191- 47
37♦	54LS256	TTL	N74LS256D	MULB	*	SO	231- 79
38♦	54LS256	TTL	N74LS256D	PHIN	*	SO	231- 79
39♦	54LS256	TTL	N74LS256D	RTCF	*	SO	231- 79
40♦	54LS256	TTL	N74LS256D	SIC	*	SO	231- 79
41♦	54LS256	TTL	N74LS256D	VALG	*	SO	231- 79
42♦	54LS256	TTL	74F256SC(A)	FSC	*	SO	230- 57
43♦	54LS256W	TTL	S54LS256W	MULB	*	FP	231- 82
44♦	54LS256W	TTL	S54LS256W	PHIN	*	FP	231- 82
45♦	54LS256W	TTL	S54LS256W	RTCF	*	FP	231- 82
46♦	54LS256W	TTL	S54LS256W	SIC	*	FP	231- 82
47♦	54LS256W	TTL	S54LS256W	VALG	*	FP	231- 82
48	54LS256W	TTL	54LS256FM	FSC	*	FP	231- 19
49♦	54-259	CMOS	CD74HCT259M	RCA		SO	239- 41
50♦	54-259	CMOS	CD74HC259M	RCA		SO	239- 40
51♦	54-259	TTL	DM54259J	NSC		DIP	238- 90
52♦	54-259	TTL	74F259SC(A)	FSC	*	SO	234- 91
53♦	54-259N	TTL	DM74LS259N	NSC		DIP	239- 30
54▼	54-259N	TTL	HD74LS259G	HITJ		DIP	238- 91
55♦	54-259N	TTL	N74LS259D	MULB	*	SO	238- 52
56♦	54-259N	TTL	N74LS259D	PHIN	*	SO	238- 52
57♦	54-259N	TTL	N74LS259D	RTCF	*	SO	238- 52
58♦	54-259N	TTL	N74LS259D	SIC	*	SO	238- 52
59♦	54-259N	TTL	N74LS259D	VALG	*	SO	238- 52
60	54-259W	CMOS	TC40H259F	TOSJ	*	SO	240- 87
61♦	54-259W	TTL	DM54LS259W	NSC	*	FP	239- 29
62♦	54-259W	TTL	DM54259W	NSC	*	FP	238- 4
63	54-259W	TTL	DM8334W	NSC	*	FP	238- 87
64	54-259W	TTL	DM9334W	NSC	*	FP	238- 89
65♦	54-259W	TTL	S54LS259W	MULB	*	FP	238- 56
66♦	54-259W	TTL	S54LS259W	PHIN	*	FP	238- 56
67♦	54-259W	TTL	S54LS259W	RTCF	*	FP	238- 56
68♦	54-259W	TTL	S54LS259W	SIC	*	FP	238- 56
69♦	54-259W	TTL	S54LS259W	VALG	*	FP	238- 56
70	54-259W	TTL	S9334W	PHIN	*	FP	239- 3
71	54-259W	TTL	S9334W	SIC	*	FP	239- 3
72	54-259W	TTL	S9334W	VALG	*	FP	239- 3
73	54-259W	TTL	54LS259FM	FSC	*	FP	238- 19
74	54-259W	TTL	93L34FM	FSC	*	FP	239- 17
75	54-259W	TTL	9334FM	FSC	*	FP	237-110
76♦	54S260W	TTL	S54LS260W	MULB	*	FP	119- 35
77♦	54S260W	TTL	S54LS260W	PHIN	*	FP	119- 35
78♦	54S260W	TTL	S54LS260W	RTCF	*	FP	119- 35
79♦	54S260W	TTL	S54LS260W	SIC	*	FP	119- 35
80♦	54S260W	TTL	S54LS260W	VALG	*	FP	119- 35
81♦	54S260W	TTL	S54S260W	MULB	*	FP	119- 21
82♦	54S260W	TTL	S54S260W	PHIN	*	FP	119- 21
83♦	54S260W	TTL	S54S260W	RTCF	*	FP	119- 21
84♦	54S260W	TTL	S54S260W	SIC	*	FP	119- 21
85♦	54S260W	TTL	S54S260W	VALG	*	FP	119- 21
86♦	54S260W	TTL	54LS260FM	FSC	*	FP	119- 27
87♦	54S260W	TTL	54S260FM	FSC	*	FP	119- 16
88	54LS261	TTL	S54LS261W	MULB	*	FP	202- 39
89	54LS261	TTL	S54LS261W	PHIN	*	FP	202- 39
90	54LS261	TTL	S54LS261W	VALG	*	FP	202- 39
91♦	54LS266N	CMOS	MC74HC266J	MOTA		DIP	90- 90
92♦	54LS266N	CMOS	MC74HC266N	MOTA		DIP	90- 91
93♦	54LS266N	CMOS	MM54HC266J	NSC		DIP	90- 92
94♦	54LS266W	CMOS	HCC4077BK	SGSI	*	QSM	90-104
95♦	54LS266W	CMOS	HEF4077BT	MULB	*	SO	90-107
96♦	54LS266W	CMOS	HEF4077BT	PHIN	*	SO	90-107
97♦	54LS266W	CMOS	HEF4077BT	RTCF	*	SO	90-107
98♦	54LS266W	CMOS	HEF4077BT	VALG	*	SO	90-107
99♦	54LS266W	CMOS	HEF4077BTD	SIC	*	SO	90-101
100♦	54LS266W	CMOS	4077BFC	FSC	*	FP	90- 99
101♦	54LS266W	CMOS	4077BFM	FSC	*	FP	90-100
102♦	54LS266W	TTL	N8242Q	MULB	*	FP	90- 69
103♦	54LS266W	TTL	N8242Q	PHIN	*	FP	90- 69
104♦	54LS266W	TTL	S54LS266W	MULB	*	FP	90- 94
105♦	54LS266W	TTL	S54LS266W	PHIN	*	FP	90- 94
106♦	54LS266W	TTL	S54LS266W	RTCF	*	FP	90- 94
107♦	54LS266W	TTL	S54LS266W	SIC	*	FP	90- 94
108♦	54LS266W	TTL	S54LS266W	VALG	*	FP	90- 94
109♦	54LS266W	TTL	S8242W	MULB	*	FP	90- 82
110♦	54LS266W	TTL	S8242W	PHIN	*	FP	90- 82
111♦	54LS266W	TTL	S8242W	VALG	*	FP	90- 82
112♦	54LS266W	TTL	54LS266FM	FSC	*	FP	90- 72
113♦	54LS266W	TTL	9386FM	FSC	*	FP	90- 73
114	54-273W	CMOS	TC40H273F	TOSJ	*	SO	59- 91
115	54LS273	CMOS	CD74HCT273M	RCA	*	SO	60- 39
116	54LS273	TTL	74F273SC(A)	FSC	*	SO	63- 34
117	54LS273W	TTL	54LS273FM	FSC	*	FP	62- 3
118♦	54-279	ITL	DM54LS279J	NSC		DIP	243- 74
119♦	54-279W	TTL	S54LS279W	MULB	*	FP	243- 61
120♦	54-279W	TTL	S54LS279W	PHIN	*	FP	243- 61
121♦	54-279W	TTL	S54LS279W	RTCF	*	FP	243- 61
122♦	54-279W	TTL	S54LS279W	SIC	*	FP	243- 61
123♦	54-279W	TTL	S54LS279W	VALG	*	FP	243- 61
124♦	54-279W	TTL	S54279W	MULB	*	FP	243- 63
125♦	54-279W	TTL	S54279W	PHIN	*	FP	243- 63
126♦	54-279W	TTL	S54279W	RTCF	*	FP	243- 63
127♦	54-279W	TTL	S54279W	SIC	*	FP	243- 63
128♦	54-279W	TTL	S54279W	VALG	*	FP	243- 63
129♦	54-279W	TTL	54LS279FM	FSC	*	FP	243- 45
130	54S280	CMOS	CD74HCT280M(A)	RCA	*	SO	227- 15
131	54S280	CMOS	CD74HC280M(A)	RCA	*	SO	226- 99
132	54S280	TTL	74F280SC	FSC	*	SO	226- 71
133♦	54S280w		MC54F280J	MOTA		DIP	226- 56
134▼	54S280w		MC54F280N	MOTA		DIP	226- 57
135♦	54S280w		MC74F280J	MOTA		DIP	226- 58
136♦	54S280w		MC74F280N	MOTA		DIP	226- 59
137♦	54S280W	CMOS	MM54HC280J	NSC		DIP	227- 5
138	54S280W	TTL	S54F280AF(A)	MULB	*	FP	226- 60
139	54S280W	TTL	S54F280AF(A)	PHIN	*	FP	226- 60
140	54S280W	TTL	S54F280AF(A)	RTCF	*	FP	226- 60
141	54S280W	TTL	S54F280AF(A)	SIC	*	FP	226- 60
142	54S280W	TTL	S54F280AF(A)	VALG	*	FP	226- 60
143♦	54S280W	TTL	S54F280AW	SIC		DIP	226- 61
144	54S280W	TTL	S54S280W	MULB	*	FP	226- 75
145	54S280W	TTL	S54S280W	PHIN	*	FP	226- 75
146	54S280W	TTL	S54S280W	RTCF	*	FP	226- 75
147	54S280W	TTL	S54S280W	SIC	*	FP	226- 75
148	54S280W	TTL	S54S280W	VALG	*	FP	226- 75
149	54S280W	TTL	54F280FM	FSC	*	FP	226- 63
150	54S280W	TTL	54S280FM	FSC	*	FP	226- 66
151▼	54-283	CMOS	CD54ACT283F(A)	RCA		DIP	199- 99
152▼	54-283	CMOS	CD54AC283F(A)	RCA		DIP	199- 98
153	54-283	TTL	DM54LS283W	NSC	*	FP	200- 60
154	54-283	TTL	DM54S283W	NSC	*	FP	199- 75
155	54-283	TTL	S54LS283G	MULB	*	LLCC	200- 35
156	54-283	TTL	S54LS283G	PHIN	*	LLCC	200- 35
157	54-283	TTL	S54LS283G	RTCF	*	LLCC	200- 35
158	54-283	TTL	S54LS283G	SIC	*	LLCC	200- 35
159	54-283	TTL	S54LS283G	VALG	*	LLCC	200- 35
160	54-283	TTL	S54LS283W	MULB	*	FP	200- 36
161	54-283	TTL	S54LS283W	PHIN	*	FP	200- 36
162	54-283	TTL	S54LS283W	RTCF	*	FP	200- 36
163	54-283	TTL	S54LS283W	SIC	*	FP	200- 36
164	54-283	TTL	S54LS283W	VALG	*	FP	200- 36
165	54-283	TTL	54F283FM	FSC	*	FP	199- 50
166	54-283	TTL	54LS283FM	FSC	*	FP	200- 2
167	54-283	TTL	54LS283W	FSC	*	FP	200- 4
168	54-283	TTL	74F283SC	FSC	*	SO	199- 53
169♦	54-284	TTL	DM7875AJ	NSC		DIP	202- 47
170♦	54-285	TTL	DM7875BJ	NSC		DIP	202- 49
171♦	54-290W	TTL	DM54LS290W	NSC	*	FP	175- 83
172♦	54-290W	TTL	S54LS290W	MULB	*	FP	175- 20
173♦	54-290W	TTL	S54LS290W	PHIN	*	FP	175- 20
174♦	54-290W	TTL	S54LS290W	RTCF	*	FP	175- 20
175♦	54-290W	TTL	S54LS290W	SIC	*	FP	175- 20
176♦	54-290W	TTL	S54LS290W	VALG	*	FP	175- 20
177♦	54-290W	TTL	54LS290FM	FSC	*	FP	176- 4
178▼	54LS292	CMOS	M54HC292F1	SGSI		DIP	195- 72
179♦	54-293W	TTL	DM54LS293W	NSC	*	FP	158- 5
180♦	54-293W	TTL	S54LS293W	MULB	*	FP	157- 58
181♦	54-293W	TTL	S54LS293W	PHIN	*	FP	157- 58
182♦	54-293W	TTL	S54LS293W	RTCF	*	FP	157- 58
183♦	54-293W	TTL	S54LS293W	SIC	*	FP	157- 58
184♦	54-293W	TTL	S54LS293W	VALG	*	FP	157- 58
185♦	54-293W	TTL	54LS293FM	FSC	*	FP	158- 42
186▼	54LS294	CMOS	M54HC294F1	SGSI		DIP	195- 73
187♦	54LS363	TTL	S54LS363G	MULB	*	LLCC	237-108
188♦	54LS363	TTL	S54LS363G	PHIN	*	LLCC	237-108
189♦	54LS363	TTL	S54LS363G	RTCF	*	LLCC	237-108
190♦	54LS363	TTL	S54LS363G	VALG	*	LLCC	237-108
191♦	54LS363	TTL	74F373SC	FSC	*	SO	234- 41
192♦	54LS363W	CMOS	TC40H373F	TOSJ	*	SO	240- 57
193♦	54LS363W	TTL	DM54LS373W	NSC		DIP	236- 83
194♦	54LS363W	TTL	DM54S373W	NSC		DIP	234- 94
195♦	54LS363W	TTL	54F373FM	FSC	*	FP	234- 76
196♦	54LS363W	TTL	54LS373FM	FSC	*	FP	229-109
197▼	54-373	CMOS	CD54AC373F(A)	RCA		DIP	234- 92
198♦	54-373	CMOS	CD74HCT373M(A)	RCA	*	SO	239- 82
199♦	54-373	CMOS	CD74HC373M(A)	RCA	*	SO	239- 79
200▼	54-373	CMOS	M54HCT373F1	SGSI		DIP	233- 55
201♦	54-373	CMOS	54HCT373	AEIL		DIP	233- 47
202♦	54LS374	CMOS	54HCT374	AEIL		DIP	57- 71
203♦	54LS374W	CMOS	CD54AC374F(A)	RCA		DIP	61- 78
204♦	54LS374W	CMOS	TC40H374F	TOSJ	*	SO	60- 56
205	54S374	CMOS	CD74HCT374M	RCA	*	SO	60- 41
206	54S374	CMOS	CD74HC374M	RCA	*	SO	60- 31
207♦	54S374	TTL	DM54S374J	NSC		DIP	63- 71
208	54S374	TTL	74F374SC	FSC	*	SO	64- 45
209▼	54S374W	CMOS	M54HCT374F1	SGSI		DIP	58- 13
210♦	54S374W	TTL	DM54LS374W	NSC		DIP	238- 2
211	54S374W	TTL	54F374FM	FSC	*	FP	64- 39
212	54S374W	TTL	54LS374FM	FSC	*	FP	61- 31
213♦	54LS375W	TTL	S54LS375W	MULB	*	FP	231- 44
214♦	54LS375W	TTL	S54LS375W	PHIN	*	FP	231- 44
215♦	54LS375W	TTL	S54LS375W	RTCF	*	FP	231- 44
216♦	54LS375W	TTL	S54LS375W	SIC	*	FP	231- 44
217♦	54LS375W	TTL	S54LS375W	VALG	*	FP	231- 44
218	54LS375W	TTL	54LS375FM	FSC	*	FP	229- 25
219	54LS377	CMOS	CD74HCT377M	RCA	*	SO	59- 44
220	54LS377	CMOS	CD74HC377M	RCA	*	SO	60- 33

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG SMD	PKG TYPE	PAGE & LINE
1♦	54LS377	TTL	SN54LS377N	MOTA		DIP	61-102
2	54LS377	TTL	74F377SC(A)	FSC	*	SO	63- 39
3♦	54LS377W	TTL	54LS377FM	FSC	*	FP	60- 78
4♦	54LS378	TTL	SN54LS378N	MOTA		DIP	56-102
5	54LS378	TTL	54F378L1M	FSC	*	LLCC	57- 15
6	54LS378W	TTL	S54LS378W	MULB	*	FP	56- 82
7	54LS378W	TTL	S54LS378W	PHIN	*	FP	56- 82
8	54LS378W	TTL	S54LS378W	RTCF	*	FP	56- 82
9	54LS378W	TTL	S54LS378W	SIC	*	FP	56- 82
10	54LS378W	TTL	S54LS378W	VALG	*	FP	56- 82
11	54LS378W	TTL	54LS378FM(1)	FSC	*	FP	56- 58
12♦	54LS379	TTL	SN54LS379N	MOTA		DIP	55- 29
13♦	54LS379	TTL	54F379DM	FSC		DIP	55- 71
14	54LS379	TTL	54F379L1M	FSC	*	LLCC	55- 72
15	54LS381	TTL	AM25LS381FMB	AMD	*	FP	221-103
16	54LS381	TTL	AM54LS381FM	AMD	*	FP	222- 28
17	54LS381	TTL	AM54LS381FMB	AMD	*	FP	222- 29
18	54LS381	TTL	AM74LS381FM	AMD	*	FP	222- 36
19	54LS381	TTL	AM74LS381FMB	AMD	*	FP	222- 37
20♦	54LS381	TTL	N74F381D(A)	MULB	*	SO	220- 65
21♦	54LS381	TTL	N74F381D(A)	PHIN	*	SO	220- 65
22♦	54LS381	TTL	N74F381D(A)	RTCF	*	SO	220- 65
23♦	54LS381	TTL	N74F381D(A)	SIC	*	SO	220- 65
24♦	54LS381	TTL	N74F381D(A)	VALG	*	SO	220- 65
25	54LS381	TTL	SN54S381-20W	MMI	*	FP	221- 66
26	54LS381	TTL	SN54S381F20	MMI	*	FP	221- 67
27	54LS381	TTL	SN54S381L	MMI	*	LLCC	221- 36
28	54LS381	TTL	SN54S381W	MMI	*	FP	221- 37
29♦	54LS381	TTL	SN74S381J	MMI		DIP	221- 38
30	54LS381	TTL	74F381SC	FSC	*	SO	220- 85
31	54LS382	TTL	AM25LS2517FMB	AMD	*	FP	221-109
32	54LS382	TTL	74F382SC	FSC	*	SO	220- 90
33♦	54LS384	TTL	N74F384D(A)	MULB	*	SO	202- 61
34♦	54LS384	TTL	N74F384D(A)	PHIN	*	SO	202- 61
35♦	54LS384	TTL	N74F384D(A)	RTCF	*	SO	202- 61
36♦	54LS384	TTL	N74F384D(A)	SIC	*	SO	202- 61
37♦	54LS384	TTL	N74F384D(A)	VALG	*	SO	202- 61
38	54LS384	TTL	54LS384FM	FSC	*	FP	202- 75
39	54LS384	TTL	74F384SC	FSC	*	SO	202- 71
40	54LS385	TTL	74F385SC	FSC	*	SO	198- 36
41♦	54LS386W	TTL	S54LS386W	MULB	*	FP	93-103
42♦	54LS386W	TTL	S54LS386W	PHIN	*	FP	93-103
43♦	54LS386W	TTL	54LS386FM	FSC	*	FP	93- 52
44♦	54-390W	CMOS	MM54HC390J	NSC		DIP	181- 45
45♦	54-390W	CMOS	TC40H390F	TOSJ	*	SO	181- 64
46♦	54-390W	TTL	S54LS390W	MULB	*	FP	182- 12
47♦	54-390W	TTL	S54LS390W	PHIN	*	FP	182- 12
48♦	54-390W	TTL	S54LS390W	RTCF	*	FP	182- 12
49♦	54-390W	TTL	S54LS390W	VALG	*	FP	182- 12
50♦	54-390W	TTL	54LS390FM	FSC	*	FP	182- 6
51♦	54-393W	CMOS	TC40H393F	TOSJ	*	SO	165- 7
52♦	54-393W	TTL	DM54LS393W	NSC	*	FP	157- 73
53♦	54-393W	TTL	S54LS393W	MULB	*	FP	164-102
54♦	54-393W	TTL	S54LS393W	PHIN	*	FP	164-102
55♦	54-393W	TTL	S54LS393W	RTCF	*	FP	164-102
56♦	54-393W	TTL	S54LS393W	SIC	*	FP	164-102
57♦	54-393W	TTL	S54LS393W	VALG	*	FP	164-102
58♦	54-393W	TTL	54LS393FM	FSC	*	FP	164- 67
59♦	54-406	TTL	MC4306F	MOTA	*	FP	125- 31
60	54-406	TTL	S8250W	MULB	*	FP	125- 47
61	54-406	TTL	S8250W	PHIN	*	FP	125- 47
62	54-406	TTL	S8250W	SIC	*	FP	125- 47
63♦	54-408W	TTL	MC4308F	MOTA	*	FP	226- 15
64♦	54S412	TTL	74F412SC	FSC	*	SO	234-110
65♦	54S412	TTL	74F432SC	FSC	*	SO	235- 53
66♦	54S412	TTL	74F533SC	FSC	*	SO	235- 12
67▼	54LS423W	CMOS	M54HC423F1	SGSI		DIP	190- 29
68♦	54-490W	TTL	S54LS490W	MULB	*	FP	181- 73
69♦	54-490W	TTL	S54LS490W	PHIN	*	FP	181- 73
70♦	54-490W	TTL	S54LS490W	RTCF	*	FP	181- 73
71♦	54-490W	TTL	S54LS490W	SIC	*	FP	181- 73
72♦	54-490W	TTL	S54LS490W	VALG	*	FP	181- 73
73♦	54-490W	TTL	54LS490FM	FSC	*	FP	181- 85
74	54-521	TTL	74F521SC	FSC	*	SO	215- 85
75	54F521	TTL	S54F521W	SIC	*	FP	215- 80
76	54F521	TTL	S54F521W	VALG	*	FP	215- 80
77♦	54LS533	CMOS	CD74HCT533M	RCA	*	SO	239- 84
78♦	54LS533	CMOS	CD74HC533M	RCA	*	SO	239- 59
79	54LS533W	TTL	S54F533W	SIC	*	FP	234-100
80	54LS533W	TTL	S54F533W	VALG	*	FP	234-100
81♦	54LS533W	TTL	54F533FM	FSC	*	FP	235- 48
82♦	54LS533W	TTL	54LS533FM	FSC	*	FP	230- 6
83	54LS534	CMOS	CD74HCT534M	RCA	*	SO	58-106
84	54LS534	CMOS	CD74HC534M	RCA	*	SO	59- 41
85♦	54LS534	CMOS	54HCT534	AEIL		DIP	57- 72
86♦	54LS534	TTL	N74F534D	MULB	*	SO	58- 28
87♦	54LS534	TTL	N74F534D	PHIN	*	SO	58- 28
88♦	54LS534	TTL	N74F534D	RTCF	*	SO	58- 28
89♦	54LS534	TTL	N74F534D	SIC	*	SO	58- 28
90♦	54LS534	TTL	N74F534D	VALG	*	SO	58- 28
91▼	54LS534	TTL	N74F534N	MULB		DIP	58- 29
92▼	54LS534	TTL	N74F534N	PHIN		DIP	58- 29
93▼	54LS534	TTL	N74F534N	RTCF		DIP	58- 29
94▼	54LS534	TTL	N74F534N	SIC		DIP	58- 29
95▼	54LS534	TTL	N74F534N	VALG		DIP	58- 29
96	54LS534	TTL	74F534SC	FSC	*	SO	63- 43
97	54LS534W	TTL	S54F534W	SIC	*	FP	63- 84
98	54LS534W	TTL	S54F534W	VALG	*	FP	63- 84
99	54LS534W	TTL	54F534FM	FSC	*	FP	63- 21
100	54LS534W	TTL	54LS534FM	FSC	*	FP	61- 33
101	54S557	SCH	SN54S557F42	MMI	*	FP	202- 89
102	54S558	SCH	SN54S558F42	MMI	*	FP	202- 91
103♦	54LS563	CMOS	CD74HCT563M	RCA	*	SO	239- 86
104♦	54LS563	CMOS	CD74HC563M	RCA	*	SO	239- 61
105♦	54LS563	CMOS	54HCT563	AEIL		DIP	233- 48
106♦	54LS563	TTL	74F563SC(A)	FSC	*	SO	234- 13
107♦	54LS563W	CMOS	MC54HC563J(A)	MOTA		DIP	240- 34
108♦	54LS563W	CMOS	MC74HC563J(A)	MOTA		DIP	240- 36
109♦	54LS563W	CMOS	MC74HC563N(A)	MOTA		DIP	240- 37
110♦	54LS563W	TTL	54LS563FM	FSC	*	FP	230- 2

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG SMD	PKG TYPE	PAGE & LINE
111	54LS564	CMOS	CD74HCT564M	RCA	*	SO	59- 47
112	54LS564	CMOS	CD74HC564M	RCA	*	SO	60- 36
113♦	54LS564	CMOS	54HCT564	AEIL		DIP	57- 73
114	54LS564	TTL	74F564SC(A)	FSC	*	SO	63- 48
115	54LS564W	TTL	54LS564FM	FSC	*	FP	61- 35
116♦	54LS568	TTL	74F568SC	FSC	*	SO	167- 1
117♦	54LS568W	TTL	AM25LS2568FMB	AMD	*	FP	166- 37
118♦	54LS568W	TTL	AM25LS2569FMB	AMD	*	FP	166- 40
119♦	54-569	TTL	74F569SC	FSC	*	SO	163- 81
120♦	54LS573	CMOS	CD74HCT573M	RCA	*	SO	240- 27
121♦	54LS573	CMOS	CD74HC573M	RCA	*	SO	239- 81
122▼	54LS573	CMOS	IDT54AHCT573DB	IDT		DIP	236- 23
123▼	54LS573	CMOS	IDT54AHCT573EB	IDT	*	FP	236- 24
124▼	54LS573	CMOS	IDT54AHCT573LB	IDT	*	LLCC	236- 25
125▼	54LS573	CMOS	IDT54FCT573ADB	IDT		DIP	233-103
126▼	54LS573	CMOS	IDT54FCT573AEB	IDT	*	FP	233-104
127▼	54LS573	CMOS	IDT54FCT573ALB	IDT	*	LLCC	233-105
128▼	54LS573	CMOS	IDT54FCT573DB	IDT		DIP	234- 82
129▼	54LS573	CMOS	IDT54FCT573EB	IDT	*	FP	234- 83
130▼	54LS573	CMOS	IDT54FCT573LB	IDT	*	LLCC	234- 84
131♦	54LS573	CMOS	54HCT573	AEIL		DIP	233- 49
132♦	54LS573	TTL	74F573SC(A)	FSC	*	SO	234- 46
133♦	54LS573W	TTL	54LS573FM	FSC	*	FP	230- 8
134	54LS574	CMOS	CD74HCT574M	RCA	*	SO	60- 43
135	54LS574	CMOS	CD74HC574M	RCA	*	SO	60- 38
136▼	54LS574	CMOS	IDT54FCT574ADB	IDT		DIP	58- 48
137▼	54LS574	CMOS	IDT54FCT574AEB	IDT	*	FP	58- 49
138▼	54LS574	CMOS	IDT54FCT574ALB	IDT	*	LLCC	58- 50
139▼	54LS574	CMOS	IDT54FCT574DB	IDT		DIP	58- 51
140▼	54LS574	CMOS	IDT54FCT574EB	IDT	*	FP	58- 52
141▼	54LS574	CMOS	IDT54FCT574LB	IDT	*	LLCC	58- 53
142♦	54LS574	CMOS	54HCT574	AEIL		DIP	57- 74
143	54LS574	TTL	74F574SC(A)	FSC	*	SO	63- 53
144♦	54LS574W	CMOS	MM54HC574J	NSC		DIP	59-106
145	54LS574W	TTL	54LS574FM	FSC	*	FP	61- 37
146♦	54ALS575	CMOS	V54ACT575DL	VTC	*	LLCC	62- 60
147♦	54ALS575	CMOS	V74ACT575DL	VTC	*	LLCC	62- 72
148♦	54ALS575	CMOS	V74ACT575PK	VTC	*	LDCC	62- 74
149▼	54ALS575	TTL	SN74ALS575AFN	TII	*	LDCC	61- 13
150♦	54AS576	CMOS	V54ACT576D	VTC		DIP	62-102
151♦	54AS576	CMOS	V54ACT576DL	VTC	*	LLCC	62-103
152♦	54ALS577	CMOS	V54ACT577DL	VTC	*	LLCC	49- 77
153♦	54ALS577	CMOS	V74ACT577DL	VTC	*	LLCC	62- 83
154♦	54ALS577	CMOS	V74ACT577PK	VTC	*	LDCC	62- 85
155♦	54AS580	CMOS	V54ACT580D	VTC		DIP	236- 4
156♦	54AS580	CMOS	V54ACT580DL	VTC	*	LLCC	236- 5
157▼	54LS590	CMOS	M54HC590F1	SGSI		DIP	165- 60
158♦	54ALS632	TTL	SN74ALS632AFN	TII	*	LDCC	245- 63
159♦	54ALS666	TTL	SN74ALS666FN	TII	*	LDCC	236-102
160♦	54ALS667	TTL	SN74ALS667FN	TII	*	LDCC	237- 29
161	54LS688	CMOS	CD74HCT688M	RCA	*	SO	218- 82
162	54LS688	CMOS	CD74HC688M	RCA	*	SO	218- 80
163♦	54AC793	CMOS	54ACT793J	MMI		DIP	239- 42
164	54AC793	CMOS	54ACT793L	MMI	*	LDCC	239- 43
165	54AC793	CMOS	54ACT793W	MMI	*	FP	239- 44
166♦	54AC793	CMOS	54ACT794J	MMI		DIP	239- 45
167♦	54AC793	CMOS	54ACT794L	MMI	*	LLCC	239- 46
168♦	54AC793	CMOS	54ACT794W	MMI	*	FP	239- 47
169♦	54ALS992	TTL	SN74ALS992FN	TII	*	LDCC	242- 30
170♦	54ALS993	TTL	SN74ALS993FN	TII	*	LDCC	242- 48
171♦	74-00	CMOS	LC74HC00	TSAJ		DIP	98- 95
172♦	74-00	CMOS	MC54HCT00J(A)	MOTA		DIP	96- 70
173♦	74-00	CMOS	MC74HCT00J	MOTA		DIP	96- 77
174♦	74-00	CMOS	MC74HCT00N(A)	MOTA		DIP	99- 31
175♦	74-00	CMOS	M54HC00F1(A)	SGSI		DIP	96- 36
176♦	74-00	CMOS	M74HC00B1(A)	SGSI		DIP	96- 40
177♦	74-00	CMOS	M74HC00F1(A)	SGSI		DIP	96- 41
178♦	74-00	CMOS	M74HC00P	MITJ		DIP	96- 42
179♦	74-00	CMOS	PC54HCT00D(A)	MULB		DIP	97- 14
180♦	74-00	CMOS	PC54HCT00D(A)	PHIN		DIP	97- 14
181♦	74-00	CMOS	PC54HCT00D(A)	RTCF		DIP	97- 14
182♦	74-00	CMOS	PC54HCT00D(A)	VALG		DIP	97- 14
183♦	74-00	CMOS	PC54HC00D(A)	MULB		DIP	97- 12
184♦	74-00	CMOS	PC54HC00D(A)	PHIN		DIP	97- 12
185♦	74-00	CMOS	PC54HC00D(A)	RTCF		DIP	97- 12
186♦	74-00	CMOS	PC54HC00D(A)	VALG		DIP	97- 12
187♦	74-00	CMOS	PC74HCT00D(A)	MULB		DIP	97- 18
188♦	74-00	CMOS	PC74HCT00D(A)	PHIN		DIP	97- 18
189♦	74-00	CMOS	PC74HCT00D(A)	RTCF		DIP	97- 18
190♦	74-00	CMOS	PC74HCT00D(A)	VALG		DIP	97- 18
191♦	74-00	CMOS	PC74HCT00P(A)	MULB		DIP	99- 38
192♦	74-00	CMOS	PC74HCT00P(A)	PHIN		DIP	99- 38
193♦	74-00	CMOS	PC74HCT00P(A)	RTCF		DIP	99- 38
194♦	74-00	CMOS	PC74HCT00P(A)	VALG		DIP	99- 38
195♦	74-00	CMOS	PC74HCT00T(A)	MULB	*	SO	99- 39
196♦	74-00	CMOS	PC74HCT00T(A)	PHIN	*	SO	99- 39
197♦	74-00	CMOS	PC74HCT00T(A)	RTCF	*	SO	99- 39
198♦	74-00	CMOS	PC74HCT00T(A)	VALG	*	SO	99- 39
199♦	74-00	CMOS	PC74HC00D(A)	MULB		DIP	97- 16
200♦	74-00	CMOS	PC74HC00D(A)	PHIN		DIP	97- 16
201♦	74-00	CMOS	PC74HC00D(A)	RTCF		DIP	97- 16
202♦	74-00	CMOS	PC74HC00D(A)	VALG		DIP	97- 16
203♦	74-00	CMOS	PC74HC00P	MULB		DIP	99- 32
204♦	74-00	CMOS	PC74HC00P	PHIN		DIP	99- 32
205♦	74-00	CMOS	PC74HC00P	RTCF		DIP	99- 32
206♦	74-00	CMOS	PC74HC00P	VALG		DIP	99- 32
207♦	74-00	CMOS	PC74HC00T	MULB	*	SO	99- 33
208♦	74-00	CMOS	PC74HC00T	PHIN	*	SO	99- 33
209♦	74-00	CMOS	PC74HC00T	RTCF	*	SO	99- 33
210♦	74-00	CMOS	PC74HC00T	VALG	*	SO	99- 33
211♦	74-00	CMOS	UPD74HC00C(A)	NECJ		DIP	98- 79
212♦	74-00	CMOS	54ACT00DM(A)	FSC		DIP	98- 28
213♦	74-00	CMOS	54ACT00SM(A)	FSC	*	SO	98- 29
214♦	74-00	CMOS	54AC00DM(A)	FSC		DIP	98- 26
215♦	74-00	CMOS	54AC00SM(A)	FSC	*	SO	98- 27
216♦	74-00	CMOS	74ACT00DC(A)	FSC		DIP	98- 33
217♦	74-00	CMOS	74ACT00PC(A)	FSC		DIP	98- 34
218♦	74-00	CMOS	74ACT00SC(A)	FSC	*	SO	98- 35
219♦	74-00	CMOS	74AC00DC(A)	FSC		DIP	98- 30
220♦	74-00	CMOS	74AC00PC(A)	FSC		DIP	98- 31

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-00	CMOS	74AC00SC(A)	FSC	*	SO	98- 32
2♦	74-00	CMOS	74HCT00D	SIC	*	SO	99- 15
3♦	74-00	CMOS	74HCT00N	SIC		DIP	99- 16
4♦	74-00	CMOS	74HC00D	SIC	*	SO	98- 86
5♦	74-00	CMOS	74HC00N	SIC		DIP	98- 87
6♦	74-00	TTL	DM54ALS00AJ	NSC		DIP	95- 93
7♦	74-00	TTL	DM54AS00J	NSC		DIP	95- 95
8♦	74-00	TTL	DM54LS00J	NSC		DIP	95-100
9♦	74-00	TTL	DM74ALS00AJ	NSC		DIP	95-103
10♦	74-00	TTL	DM74ALS00AN	NSC		DIP	95-104
11♦	74-00	TTL	DM74AS00J	NSC		DIP	95-107
12♦	74-00	TTL	DM74AS00N	NSC		DIP	95-108
13♦	74-00	TTL	DM74LS00N	NSC		DIP	96- 4
14♦	74-00	TTL	DN74LS00P1	MATJ		DIP	96- 23
15♦	74-00	TTL	DN74LS00P4	MATJ	*	SO	96- 24
16♦	74-00	TTL	N74F00D	MULB	*	SO	98- 5
17♦	74-00	TTL	N74F00D	PHIN	*	SO	98- 5
18♦	74-00	TTL	N74F00D	RTCF	*	SO	98- 5
19♦	74-00	TTL	N74F00D	SIC	*	SO	98- 5
20♦	74-00	TTL	N74F00D	VALG	*	SO	98- 5
21♦	74-00	TTL	N74F00N	MULB		DIP	98- 6
22♦	74-00	TTL	N74F00N	PHIN		DIP	98- 6
23♦	74-00	TTL	N74F00N	RTCF		DIP	98- 6
24♦	74-00	TTL	N74F00N	SIC		DIP	98- 6
25♦	74-00	TTL	N74F00N	VALG		DIP	98- 6
26♦	74-00	TTL	SN54LS00J	MOTA		DIP	97- 65
27♦	74-00	TTL	SN54LS00J	TII		DIP	97- 65
28♦	74-00	TTL	SN74LS00D	TII	*	SO	97- 72
29♦	74-00	TTL	SN74S00D	TII	*	SO	97- 80
30▼	74-00n	CMOS	SN74HC00D	TII	*	SO	99- 13
31♦	74-00n	CMOS	SN74HC00N	TII		DIP	99- 14
32♦	74-00N	CMOS	CD54HCT00F(A)	RCA		DIP	98- 90
33♦	74-00N	CMOS	CD54HC00F	RCA		DIP	98- 80
34▼	74-00N	CMOS	CD74AC00E(A)	RCA		DIP	98- 2
35▼	74-00N	CMOS	CD74AC00M(A)	RCA	*	SO	98- 3
36♦	74-00N	CMOS	CD74HCT00E(A)	RCA		DIP	98- 93
37♦	74-00N	CMOS	CD74HCT00M	RCA	*	SO	98- 94
38♦	74-00N	CMOS	CD74HC00E	RCA		DIP	98- 91
39♦	74-00N	CMOS	CD74HC00M	RCA	*	SO	98- 92
40▼	74-00N	CMOS	HD74HC00FP	HITJ	*	SO	98- 36
41▼	74-00N	CMOS	HD74HC00P	HITJ		DIP	98- 37
42♦	74-00N	CMOS	MC54HC00J	MOTA		DIP	96- 68
43♦	74-00N	CMOS	MC74HC00J(A)	MOTA		DIP	96- 73
44♦	74-00N	CMOS	MC74HC00N(A)	MOTA		DIP	96- 74
45♦	74-00N	CMOS	MM54C00D	NSC		DIP	96- 86
46♦	74-00N	CMOS	MM54HCT00J(A)	NSC		DIP	96- 88
47♦	74-00N	CMOS	MM54HC00J(A)	NSC		DIP	96- 87
48♦	74-00N	CMOS	MM74C00N	NSC		DIP	96- 89
49♦	74-00N	CMOS	MM74HCT00J(A)	NSC		DIP	96- 92
50♦	74-00N	CMOS	MM74HCT00N(A)	NSC		DIP	96- 93
51♦	74-00N	CMOS	MM74HC00J(A)	NSC		DIP	96- 90
52♦	74-00N	CMOS	MM74HC00N	NSC		DIP	96- 91
53♦	74-00N	CMOS	MM74PC00J	NSC		DIP	98- 81
54♦	74-00N	CMOS	MM74PC00JI	NSC		DIP	98- 82
55♦	74-00N	CMOS	MM74PC00N	NSC		DIP	98- 83
56♦	74-00N	CMOS	MM74PC00NI	NSC		DIP	98- 84
57♦	74-00N	CMOS	SN54HC00J	TII		DIP	99- 34
58♦	74-00N	CMOS	TC40H000P	IMTM		DIP	97- 97
59♦	74-00N	CMOS	TC40H000P	TOSJ		DIP	97- 97
60▼	74-00N	CMOS	TC74HC00F(A)	TOSA	*	SO	98- 96
61♦	74-00N	CMOS	TC74HC00P(A)	TOSA		DIP	97- 98
62♦	74-00N	CMOS	TC74HC00P(A)	TOSJ		DIP	97- 98
63♦	74-00N	CMOS	TC7400BP	IMTM		DIP	97- 99
64♦	74-00N	CMOS	TC7400BP	TOSJ		DIP	97- 99
65♦	74-00N	CMOS	US74HCT00N(A)	UNV		DIP	97-100
66♦	74-00N	DTL	E302F2	SGSI		DIP	96- 27
67♦	74-00N	DTL	E302F7	SGSI		DIP	96- 28
68♦	74-00N	DTL	H122D1	SGSI		DIP	96- 32
69♦	74-00N	DTL	H122D2	SGSI		DIP	96- 33
70♦	74-00N	DTL	H122D6	SGSI		DIP	96- 34
71♦	74-00N	DTL	H222B1	SGSI		DIP	96- 35
72▼	74-00N	DTL	MC846L	MOTA		DIP	96- 78
73▼	74-00N	DTL	MC846P	MOTA		DIP	96- 79
74▼	74-00N	DTL	MC849L	MOTA		DIP	96- 80
75▼	74-00N	DTL	MC849P	MOTA		DIP	96- 81
76♦	74-00N	DTL	MC946L	MOTA		DIP	96- 82
77♦	74-00N	DTL	MC949L	MOTA		DIP	96- 83
78♦	74-00N	DTL	SFC946E	THEF		DIP	97- 64
79♦	74-00N	DTL	946DM	FSC		DIP	95- 73
80♦	74-00N	DTL	949DC	FSC		DIP	95- 74
81♦	74-00N	DTL	949DM	FSC		DIP	95- 75
82♦	74-00N	DTL	9946BC	SGSI		DIP	95- 88
83♦	74-00N	DTL	9946DC	SGSI		DIP	95- 89
84♦	74-00N	DTL	9946DM	SGSI		DIP	95- 90
85♦	74-00N	TTL	DM54H00J	NSC		DIP	95- 96
86♦	74-00N	TTL	DM54L00J	NSC		DIP	95- 98
87♦	74-00N	TTL	DM5400J	NSC		DIP	96- 9
88♦	74-00N	TTL	DM5437J	NSC		DIP	96- 11
89♦	74-00N	TTL	DM74H00N	NSC		DIP	95-109
90♦	74-00N	TTL	DM74L00N	NSC		DIP	96- 2
91♦	74-00N	TTL	DM74S00N	NSC		DIP	96- 7
92♦	74-00N	TTL	DM7400N	NSC		DIP	96- 13
93♦	74-00N	TTL	DM7437N	NSC		DIP	96- 15
94♦	74-00N	TTL	FJH131-7400	PHIN		DIP	96- 29
95▼	74-00N	TTL	HD74LS00G	HITJ		DIP	98- 42
96♦	74-00N	TTL	HD74LS00P	HITJ		DIP	98- 43
97♦	74-00N	TTL	MB400	FCAJ		DIP	96- 53
98♦	74-00N	TTL	MB400M	FCAJ		DIP	96- 54
99♦	74-00N	TTL	MB401	FCAJ		DIP	96- 55
100♦	74-00N	TTL	MB401M	FCAJ		DIP	96- 56
101♦	74-00N	TTL	MB435	FCAJ		DIP	96- 63
102♦	74-00N	TTL	MB435M	FCAJ		DIP	96- 64
103♦	74-00N	TTL	MB601	FCAJ		DIP	96- 65
104♦	74-00N	TTL	MB74LS00	FCAJ		DIP	96- 49
105♦	74-00N	TTL	MB74LS00M	FCAJ		DIP	96- 50
106♦	74-00N	TTL	MC54F00J	MOTA		DIP	96- 66
107▼	74-00N	TTL	MC54F00N	MOTA		DIP	96- 67
108♦	74-00N	TTL	MC74F00J	MOTA		DIP	96- 71
109♦	74-00N	TTL	MC74F00N	MOTA		DIP	96- 72
110♦	74-00N	TTL	M53200P	MITJ		DIP	96- 47
111♦	74-00N	TTL	M74ALS00AP	MITA		DIP	96- 38
112♦	74-00N	TTL	M74ALS00AP	MITJ		DIP	96- 38
113♦	74-00N	TTL	M74LS00P	MITA		DIP	96- 45
114♦	74-00N	TTL	M74LS00P	MITJ		DIP	96- 45
115♦	74-00N	TTL	N74F00F	VALG		DIP	96- 95
116♦	74-00N	TTL	N74H00A	PHIN		DIP	96- 96
117♦	74-00N	TTL	N74H00F	MULB		DIP	96- 97
118♦	74-00N	TTL	N74H00F	PHIN		DIP	96- 97
119♦	74-00N	TTL	N74H00F	VALG		DIP	96- 97
120♦	74-00N	TTL	N74H00N	MULB		DIP	96- 98
121♦	74-00N	TTL	N74H00N	PHIN		DIP	96- 98
122♦	74-00N	TTL	N74H00N	VALG		DIP	96- 98
123♦	74-00N	TTL	N74LS00D	MULB	*	SO	96-101
124♦	74-00N	TTL	N74LS00D	PHIN	*	SO	96-101
125♦	74-00N	TTL	N74LS00D	RTCF	*	SO	96-101
126♦	74-00N	TTL	N74LS00D	SIC	*	SO	96-101
127♦	74-00N	TTL	N74LS00D	VALG	*	SO	96-101
128♦	74-00N	TTL	N74LS00N	MULB		DIP	96-102
129♦	74-00N	TTL	N74LS00N	PHIN		DIP	96-102
130♦	74-00N	TTL	N74LS00N	RTCF		DIP	96-102
131♦	74-00N	TTL	N74LS00N	SIC		DIP	96-102
132♦	74-00N	TTL	N74LS00N	VALG		DIP	96-102
133♦	74-00N	TTL	N74S00D	MULB	*	SO	96-107
134♦	74-00N	TTL	N74S00D	PHIN	*	SO	96-107
135♦	74-00N	TTL	N74S00D	RTCF	*	SO	96-107
136♦	74-00N	TTL	N74S00D	SIC	*	SO	96-107
137♦	74-00N	TTL	N74S00D	VALG	*	SO	96-107
138♦	74-00N	TTL	N74S00N	MULB		DIP	96-108
139♦	74-00N	TTL	N74S00N	PHIN		DIP	96-108
140♦	74-00N	TTL	N74S00N	RTCF		DIP	96-108
141♦	74-00N	TTL	N74S00N	SIC		DIP	96-108
142♦	74-00N	TTL	N74S00N	VALG		DIP	96-108
143♦	74-00N	TTL	N7400F	MULB		DIP	97- 2
144♦	74-00N	TTL	N7400F	PHIN		DIP	97- 2
145♦	74-00N	TTL	N7400F	RTCF		DIP	97- 2
146♦	74-00N	TTL	N7400F	VALG		DIP	97- 2
147♦	74-00N	TTL	N7400N	MULB		DIP	97- 3
148♦	74-00N	TTL	N7400N	PHIN		DIP	97- 3
149♦	74-00N	TTL	N7400N	RTCF		DIP	97- 3
150♦	74-00N	TTL	N7400N	SIC		DIP	97- 3
151♦	74-00N	TTL	N7400N	VALG		DIP	97- 3
152♦	74-00N	TTL	N8H80A	MULB		DIP	96- 94
153♦	74-00N	TTL	N8H80A	PHIN		DIP	96- 94
154♦	74-00N	TTL	N8480A	MULB		DIP	97- 8
155♦	74-00N	TTL	N8480A	PHIN		DIP	97- 8
156♦	74-00N	TTL	N8480F	MULB		DIP	97- 9
157♦	74-00N	TTL	N8480F	PHIN		DIP	97- 9
158♦	74-00N	TTL	SFC400E	THEF		DIP	97- 35
159♦	74-00N	TTL	SFC400EM	THEF		DIP	97- 36
160♦	74-00N	TTL	SFC400ET	THEF		DIP	97- 37
161♦	74-00N	TTL	SFC400HE	THEF		DIP	97- 38
162♦	74-00N	TTL	SFC400HEM	THEF		DIP	97- 39
163♦	74-00N	TTL	SFC400HJM	THEF		DIP	97- 40
164♦	74-00N	TTL	SFC400HKM	THEF		DIP	97- 41
165♦	74-00N	TTL	SFC400JM	THEF		DIP	97- 42
166♦	74-00N	TTL	SFC400KM	THEF		DIP	97- 43
167♦	74-00N	TTL	SFC400LE	THEF		DIP	97- 44
168♦	74-00N	TTL	SFC400LEM	THEF		DIP	97- 45
169♦	74-00N	TTL	SFC400LJM	THEF		DIP	97- 46
170♦	74-00N	TTL	SFC400LKM	THEF		DIP	97- 47
171♦	74-00N	TTL	SFC400LSE	THEF		DIP	97- 48
172♦	74-00N	TTL	SFC400LSEM	THEF		DIP	97- 49
173♦	74-00N	TTL	SFC400SE	THEF		DIP	97- 50
174♦	74-00N	TTL	SFC400SJM	THEF		DIP	97- 51
175♦	74-00N	TTL	SFC400SKM	THEF		DIP	97- 52
176♦	74-00N	TTL	SN54ALS00AJ	TII		DIP	98- 78
177♦	74-00N	TTL	SN54AS00J	TII		DIP	97-108
178♦	74-00N	TTL	SN54LS132J	MOTA		DIP	97- 68
179♦	74-00N	TTL	SN54S00J	TII		DIP	97- 69
180▼	74-00N	TTL	SN74ALS00AD	TII	*	SO	98- 62
181♦	74-00N	TTL	SN74ALS00AN	TII		DIP	98- 63
182▼	74-00N	TTL	SN74AS00D	TII	*	SO	97-103
183♦	74-00N	TTL	SN74AS00N	TII		DIP	97-104
184♦	74-00N	TTL	SN74H00N	TII		DIP	97- 71
185♦	74-00N	TTL	SN74LS00J	MOTA		DIP	97- 73
186♦	74-00N	TTL	SN74LS00N	MOTA		DIP	97- 74
187♦	74-00N	TTL	SN74LS00N	TII		DIP	97- 74
188♦	74-00N	TTL	SN74LS132J	MOTA		DIP	97- 78
189♦	74-00N	TTL	SN74LS132N	MOTA		DIP	97- 79
190♦	74-00N	TTL	SN74S00N	TII		DIP	97- 81
191♦	74-00N	TTL	SN7400N	TII		DIP	97- 85
192♦	74-00N	TTL	S54H00F	MULB		DIP	97- 21
193♦	74-00N	TTL	S54H00F	PHIN		DIP	97- 21
194♦	74-00N	TTL	S54H00F	VALG		DIP	97- 21
195♦	74-00N	TTL	S54LS00F	MULB		DIP	97- 23
196♦	74-00N	TTL	S54LS00F	PHIN		DIP	97- 23
197♦	74-00N	TTL	S54LS00F	RTCF		DIP	97- 23
198♦	74-00N	TTL	S54LS00F	SIC		DIP	97- 23
199♦	74-00N	TTL	S54LS00F	VALG		DIP	97- 23
200♦	74-00N	TTL	S54S00F	MULB		DIP	97- 26
201♦	74-00N	TTL	S54S00F	PHIN		DIP	97- 26
202♦	74-00N	TTL	S54S00F	RTCF		DIP	97- 26
203♦	74-00N	TTL	S54S00F	SIC		DIP	97- 26
204♦	74-00N	TTL	S54S00F	VALG		DIP	97- 26
205♦	74-00N	TTL	S5400F	MULB		DIP	97- 28
206♦	74-00N	TTL	S5400F	PHIN		DIP	97- 28
207♦	74-00N	TTL	S5400F	RTCF		DIP	97- 28
208♦	74-00N	TTL	S5400F	SIC		DIP	97- 28
209♦	74-00N	TTL	S5400F	VALG		DIP	97- 28
210♦	74-00N	TTL	S8H80A	MULB		DIP	97- 20
211♦	74-00N	TTL	S8H80A	PHIN		DIP	97- 20
212♦	74-00N	TTL	S8480A	MULB		DIP	97- 31
213♦	74-00N	TTL	S8480A	PHIN		DIP	97- 31
214♦	74-00N	TTL	S8480F	MULB		DIP	97- 32
215♦	74-00N	TTL	S8480F	PHIN		DIP	97- 32
216♦	74-00N	TTL	T54LS00D2	SGSI		DIP	97- 88
217♦	74-00N	TTL	T74LS00B1	SGSI		DIP	97- 91
218♦	74-00N	TTL	T74LS00D1	SGSI		DIP	97- 92
219♦	74-00N	TTL	ZN5400E	FERB		DIP	97-101
220♦	74-00N	TTL	54F00DM	FSC		DIP	95- 49

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-00N	TTL	54H00DM	FSC		DIP	95- 50
2♦	74-00N	TTL	54LS00DM	FSC		DIP	95- 52
3♦	74-00N	TTL	54S00DM	FSC		DIP	95- 55
4♦	74-00N	TTL	5400DM	FSC		DIP	95- 76
5♦	74-00N	TTL	74F00DC	FSC		DIP	95- 57
6♦	74-00N	TTL	74F00PC	FSC		DIP	95- 58
7♦	74-00N	TTL	74H00DC	FSC		DIP	95- 59
8♦	74-00N	TTL	74H00PC	FSC		DIP	95- 60
9♦	74-00N	TTL	74LS00DC	FSC		DIP	95- 63
10♦	74-00N	TTL	74LS00PC	FSC		DIP	95- 64
11♦	74-00N	TTL	74S00DC	FSC		DIP	95- 69
12♦	74-00N	TTL	74S00PC	FSC		DIP	95- 70
13♦	74-00N	TTL	7400DC	FSC		DIP	95- 78
14♦	74-00N	TTL	7400PC	FSC		DIP	95- 79
15♦	74-00N	TTL	9002DC	FSC		DIP	95- 84
16♦	74-00N	TTL	9002DM	FSC		DIP	95- 85
17♦	74-01	TTL	DM54ALS01J	NSC		DIP	100- 50
18♦	74-01	TTL	DM54LS01J	NSC		DIP	100- 5
19♦	74-01	TTL	DM74ALS01J	NSC		DIP	100- 43
20♦	74-01	TTL	DM74ALS01N	NSC		DIP	100- 44
21♦	74-01	TTL	DM74LS01N	NSC		DIP	100- 6
22♦	74-01	TTL	DM74L01N	NSC		DIP	100- 87
23♦	74-01	TTL	DN74LS01P1	MATJ		DIP	99- 52
24♦	74-01	TTL	DN74LS01P4	MATJ	*	SO	99- 53
25♦	74-01	TTL	SN54LS01J	MOTA		DIP	99- 69
26♦	74-01	TTL	SN54LS01J	TII		DIP	99- 69
27▼	74-01	TTL	SN54LS01N	MOTA		DIP	99- 70
28♦	74-01	TTL	SN74LS01D	TII	*	SO	99- 71
29♦	74-01	TTL	SN74LS01N	MOTA		DIP	99- 73
30♦	74-01	TTL	SN74LS01N	TII		DIP	99- 73
31▼	74-01N	CMOS	HD74HC01FP	HITJ	*	SO	98- 38
32▼	74-01N	CMOS	HD74HC01P	HITJ		DIP	98- 39
33♦	74-01N	TTL	DM5401J	NSC		DIP	100- 7
34♦	74-01N	TTL	DM7401N	NSC		DIP	100- 9
35♦	74-01N	TTL	FJH231-7401	PHIN		DIP	99- 1
36♦	74-01N	TTL	FJH311-7401	PHIN		DIP	99- 2
37♦	74-01N	TTL	FJH311-7401S1	PHIN		DIP	99- 3
38▼	74-01N	TTL	HD74LS01G	HITJ		DIP	99- 54
39♦	74-01N	TTL	HD74LS01P	HITJ		DIP	99- 55
40♦	74-01N	TTL	MB74LS01	FCAJ		DIP	99- 58
41♦	74-01N	TTL	MB74LS01M	FCAJ		DIP	99- 59
42♦	74-01N	TTL	M53201P	MITJ		DIP	98- 64
43♦	74-01N	TTL	M74ALS01P	MITA		DIP	100- 47
44♦	74-01N	TTL	M74ALS01P	MITJ		DIP	100- 47
45♦	74-01N	TTL	N74LS01D	MULB	*	SO	99- 60
46♦	74-01N	TTL	N74LS01D	PHIN	*	SO	99- 60
47♦	74-01N	TTL	N74LS01D	RTCF	*	SO	99- 60
48♦	74-01N	TTL	N74LS01D	SIC	*	SO	99- 60
49♦	74-01N	TTL	N74LS01D	VALG	*	SO	99- 60
50♦	74-01N	TTL	N74LS01F	MULB		DIP	99- 61
51♦	74-01N	TTL	N74LS01F	PHIN		DIP	99- 61
52♦	74-01N	TTL	N74LS01F	VALG		DIP	99- 61
53♦	74-01N	TTL	N74LS01N	MULB		DIP	99- 62
54♦	74-01N	TTL	N74LS01N	PHIN		DIP	99- 62
55♦	74-01N	TTL	N74LS01N	RTCF		DIP	99- 62
56♦	74-01N	TTL	N74LS01N	SIC		DIP	99- 62
57♦	74-01N	TTL	N74LS01N	VALG		DIP	99- 62
58♦	74-01N	TTL	N7401F	MULB		DIP	100- 13
59♦	74-01N	TTL	N7401F	PHIN		DIP	100- 13
60♦	74-01N	TTL	N7401F	VALG		DIP	100- 13
61♦	74-01N	TTL	N7401N	MULB		DIP	100- 14
62♦	74-01N	TTL	N7401N	PHIN		DIP	100- 14
63♦	74-01N	TTL	N7401N	VALG		DIP	100- 14
64♦	74-01N	TTL	N8880A	MULB		DIP	98- 65
65♦	74-01N	TTL	N8880A	PHIN		DIP	98- 65
66♦	74-01N	TTL	N8880F	MULB		DIP	98- 66
67♦	74-01N	TTL	N8880F	PHIN		DIP	98- 66
68♦	74-01N	TTL	N8881F	MULB		DIP	99- 23
69♦	74-01N	TTL	N8881F	PHIN		DIP	99- 23
70♦	74-01N	TTL	N8881N	SIC		DIP	99- 25
71♦	74-01N	TTL	SFC401E	THEF		DIP	99- 7
72♦	74-01N	TTL	SFC401EM	THEF		DIP	99- 8
73♦	74-01N	TTL	SFC401ET	THEF		DIP	99- 9
74♦	74-01N	TTL	SFC401JM	THEF		DIP	99- 10
75♦	74-01N	TTL	SFC401KM	THEF		DIP	99- 11
76♦	74-01N	TTL	SFC401LSE	THEF		DIP	99- 67
77♦	74-01N	TTL	SFC401LSEM	THEF		DIP	99- 68
78♦	74-01N	TTL	SN54ALS01J	TII		DIP	100- 59
79♦	74-01N	TTL	SN5401J	TII		DIP	100- 48
80▼	74-01N	TTL	SN74ALS01D	TII	*	SO	100- 45
81♦	74-01N	TTL	SN74ALS01N	TII		DIP	100- 46
82♦	74-01N	TTL	SN74LS01J	MOTA		DIP	99- 72
83♦	74-01N	TTL	SN7401N	TII		DIP	100- 49
84♦	74-01N	TTL	S54LS01F	MULB		DIP	99- 63
85♦	74-01N	TTL	S54LS01F	PHIN		DIP	99- 63
86♦	74-01N	TTL	S54LS01F	RTCF		DIP	99- 63
87♦	74-01N	TTL	S54LS01F	VALG		DIP	99- 63
88♦	74-01N	TTL	S5401F	MULB		DIP	100- 15
89♦	74-01N	TTL	S5401F	PHIN		DIP	100- 15
90♦	74-01N	TTL	S5401F	VALG		DIP	100- 15
91♦	74-01N	TTL	S8880A	MULB		DIP	98- 68
92♦	74-01N	TTL	S8880A	PHIN		DIP	98- 68
93♦	74-01N	TTL	S8880F	MULB		DIP	98- 69
94♦	74-01N	TTL	S8880F	PHIN		DIP	98- 69
95♦	74-01N	TTL	S8881A	MULB		DIP	99- 26
96♦	74-01N	TTL	S8881A	PHIN		DIP	99- 26
97♦	74-01N	TTL	S8881F	MULB		DIP	99- 27
98♦	74-01N	TTL	S8881F	PHIN		DIP	99- 27
99♦	74-01N	TTL	5401DM	FSC		DIP	99-110
100♦	74-01N	TTL	7401DC	FSC		DIP	100- 3
101♦	74-01N	TTL	7401PC	FSC		DIP	99- 42
102♦	74-02	CMOS	LC74HC02	TSAJ		DIP	113- 92
103♦	74-02	CMOS	M54HC02F1(A)	SGSI		DIP	112- 72
104♦	74-02	CMOS	M74HC02B1(A)	SGSI		DIP	112- 74
105♦	74-02	CMOS	M74HC02F1(A)	SGSI		DIP	112- 75
106♦	74-02	CMOS	M74HC02P	MITJ		DIP	112- 76
107♦	74-02	CMOS	PC54HCT02D(A)	MULB		DIP	112- 99
108♦	74-02	CMOS	PC54HCT02D(A)	PHIN		DIP	112- 99
109♦	74-02	CMOS	PC54HCT02D(A)	RTCF		DIP	112- 99
110♦	74-02	CMOS	PC54HCT02D(A)	VALG		DIP	112- 99
111♦	74-02	CMOS	PC54HC02D(A)	MULB		DIP	112- 98
112♦	74-02	CMOS	PC54HC02D(A)	PHIN		DIP	112- 98
113♦	74-02	CMOS	PC54HC02D(A)	RTCF		DIP	112- 98
114♦	74-02	CMOS	PC54HC02D(A)	VALG		DIP	112- 98
115♦	74-02	CMOS	PC74HCT02D(A)	MULB		DIP	112-101
116♦	74-02	CMOS	PC74HCT02D(A)	PHIN		DIP	112-101
117♦	74-02	CMOS	PC74HCT02D(A)	RTCF		DIP	112-101
118♦	74-02	CMOS	PC74HCT02D(A)	VALG		DIP	112-101
119♦	74-02	CMOS	PC74HCT02P	MULB		DIP	114- 11
120♦	74-02	CMOS	PC74HCT02P	PHIN		DIP	114- 11
121♦	74-02	CMOS	PC74HCT02P	RTCF		DIP	114- 11
122♦	74-02	CMOS	PC74HCT02P	VALG		DIP	114- 11
123♦	74-02	CMOS	PC74HCT02T	MULB	*	SO	114- 12
124♦	74-02	CMOS	PC74HCT02T	PHIN	*	SO	114- 12
125♦	74-02	CMOS	PC74HCT02T	RTCF	*	SO	114- 12
126♦	74-02	CMOS	PC74HCT02T	VALG	*	SO	114- 12
127♦	74-02	CMOS	PC74HC02D(A)	MULB		DIP	112-100
128♦	74-02	CMOS	PC74HC02D(A)	PHIN		DIP	112-100
129♦	74-02	CMOS	PC74HC02D(A)	RTCF		DIP	112-100
130♦	74-02	CMOS	PC74HC02D(A)	VALG		DIP	112-100
131♦	74-02	CMOS	PC74HC02P	MULB		DIP	114- 7
132♦	74-02	CMOS	PC74HC02P	PHIN		DIP	114- 7
133♦	74-02	CMOS	PC74HC02P	RTCF		DIP	114- 7
134♦	74-02	CMOS	PC74HC02P	VALG		DIP	114- 7
135♦	74-02	CMOS	PC74HC02T(A)	MULB	*	SO	114- 8
136♦	74-02	CMOS	PC74HC02T(A)	PHIN	*	SO	114- 8
137♦	74-02	CMOS	PC74HC02T(A)	RTCF	*	SO	114- 8
138♦	74-02	CMOS	PC74HC02T(A)	VALG	*	SO	114- 8
139♦	74-02	TTL	DM54ALS02J	NSC		DIP	112- 57
140♦	74-02	TTL	DM54AS02J	NSC		DIP	112- 58
141♦	74-02	TTL	DM54LS02J	NSC		DIP	112- 60
142♦	74-02	TTL	DM74ALS02J	NSC		DIP	112- 61
143♦	74-02	TTL	DM74ALS02N	NSC		DIP	112- 62
144♦	74-02	TTL	DM74AS02J	NSC		DIP	112- 63
145♦	74-02	TTL	DM74AS02N	NSC		DIP	112- 64
146♦	74-02	TTL	DM74LS02N	NSC		DIP	112- 66
147♦	74-02	TTL	DM74S02N	NSC		DIP	113- 66
148♦	74-02	TTL	DN74LS02P1	MATJ		DIP	112- 69
149♦	74-02	TTL	DN74LS02P4	MATJ	*	SO	112- 70
150♦	74-02	TTL	N74F02D	MULB	*	SO	113- 61
151♦	74-02	TTL	N74F02D	PHIN	*	SO	113- 61
152♦	74-02	TTL	N74F02D	RTCF	*	SO	113- 61
153♦	74-02	TTL	N74F02D	SIC	*	SO	113- 61
154♦	74-02	TTL	N74F02D	VALG	*	SO	113- 61
155♦	74-02	TTL	N74F02N	MULB		DIP	113- 62
156♦	74-02	TTL	N74F02N	PHIN		DIP	113- 62
157♦	74-02	TTL	N74F02N	RTCF		DIP	113- 62
158♦	74-02	TTL	N74F02N	SIC		DIP	113- 62
159♦	74-02	TTL	N74F02N	VALG		DIP	113- 62
160♦	74-02	TTL	SN54LS02J	MOTA		DIP	112-110
161♦	74-02	TTL	SN54LS02J	TII		DIP	112-110
162▼	74-02	TTL	SN54LS02N	MOTA		DIP	113- 1
163♦	74-02	TTL	SN54S02J	TII		DIP	113- 53
164♦	74-02	TTL	SN74LS02D	TII	*	SO	113- 2
165♦	74-02	TTL	SN74LS02J	MOTA		DIP	113- 3
166♦	74-02	TTL	SN74LS02N	MOTA		DIP	113- 4
167♦	74-02	TTL	SN74LS02N	TII		DIP	113- 4
168♦	74-02	TTL	SN74S02D	TII	*	SO	113- 5
169♦	74-02N	CMOS	CD54HCT02F	RCA		DIP	113-105
170♦	74-02N	CMOS	CD54HC02F	RCA		DIP	113-104
171♦	74-02N	CMOS	CD74HCT02E	RCA		DIP	113- 89
172♦	74-02N	CMOS	CD74HCT02M	RCA	*	SO	113- 90
173♦	74-02N	CMOS	CD74HC02E	RCA		DIP	113- 87
174♦	74-02N	CMOS	CD74HC02M	RCA	*	SO	113- 88
175▼	74-02N	CMOS	HD74HC02FP	HITJ	*	SO	115- 13
176▼	74-02N	CMOS	HD74HC02P	HITJ		DIP	115- 14
177♦	74-02N	CMOS	MC54HC02J	MOTA		DIP	112- 85
178♦	74-02N	CMOS	MC74HC02J(A)	MOTA		DIP	112- 88
179♦	74-02N	CMOS	MC74HC02N(A)	MOTA		DIP	112- 89
180♦	74-02N	CMOS	MM54C02D	NSC		DIP	112- 90
181♦	74-02N	CMOS	MM74C02N	NSC		DIP	112- 91
182♦	74-02N	CMOS	MM74PC02J	NSC		DIP	113- 94
183♦	74-02N	CMOS	MM74PC02JI	NSC		DIP	113- 95
184♦	74-02N	CMOS	MM74PC02N	NSC		DIP	113- 96
185♦	74-02N	CMOS	MM74PC02NI	NSC		DIP	113- 97
186♦	74-02N	CMOS	SN54HC02J	TII		DIP	114- 9
187▼	74-02N	CMOS	SN74HC02D	TII	*	SO	113-106
188♦	74-02N	CMOS	SN74HC02N	TII		DIP	113-107
189♦	74-02N	CMOS	TC40H002P	IMTM		DIP	113- 12
190♦	74-02N	CMOS	TC40H002P	TOSJ		DIP	113- 12
191▼	74-02N	CMOS	TC74HC02F(A)	TOSA	*	SO	113-108
192♦	74-02N	CMOS	TC74HC02P(A)	TOSA		DIP	113-109
193♦	74-02N	CMOS	TC74HC02P(A)	TOSJ		DIP	113-109
194♦	74-02N	CMOS	US74HCT02N(A)	UNV		DIP	113- 13
195♦	74-02N	TTL	DM54L02J	NSC		DIP	112- 59
196♦	74-02N	TTL	DM5402J	NSC		DIP	112- 67
197♦	74-02N	TTL	DM74L02N	NSC		DIP	112- 65
198♦	74-02N	TTL	DM7402N	NSC		DIP	112- 68
199♦	74-02N	TTL	FJH221-7402	PHIN		DIP	112- 71
200▼	74-02N	TTL	HD74LS02G	HITJ		DIP	113- 78
201♦	74-02N	TTL	HD74LS02P	HITJ		DIP	113- 79
202♦	74-02N	TTL	MB417	FCAJ		DIP	112- 81
203♦	74-02N	TTL	MB417M	FCAJ		DIP	112- 82
204♦	74-02N	TTL	MB74LS02	FCAJ		DIP	112- 79
205♦	74-02N	TTL	MB74LS02M	FCAJ		DIP	112- 80
206♦	74-02N	TTL	MC54F02J	MOTA		DIP	112- 83
207▼	74-02N	TTL	MC54F02N	MOTA		DIP	112- 84
208♦	74-02N	TTL	MC74F02J	MOTA		DIP	112- 86
209♦	74-02N	TTL	MC74F02N	MOTA		DIP	112- 87
210♦	74-02N	TTL	M53202P	MITJ		DIP	112- 78
211♦	74-02N	TTL	M74ALS02P	MITA		DIP	112- 73
212♦	74-02N	TTL	M74ALS02P	MITJ		DIP	112- 73
213♦	74-02N	TTL	M74LS02P	MITA		DIP	112- 77
214♦	74-02N	TTL	M74LS02P	MITJ		DIP	112- 77
215♦	74-02N	TTL	N74LS02D	MULB	*	SO	112- 92
216♦	74-02N	TTL	N74LS02D	PHIN	*	SO	112- 92
217♦	74-02N	TTL	N74LS02D	RTCF	*	SO	112- 92
218♦	74-02N	TTL	N74LS02D	SIC	*	SO	112- 92
219♦	74-02N	TTL	N74LS02D	VALG	*	SO	112- 92
220♦	74-02N	TTL	N74LS02N	MULB		DIP	112- 93

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-02N	TTL	N74LS02N	PHIN		DIP	112- 93
2♦	74-02N	TTL	N74LS02N	RTCF		DIP	112- 93
3♦	74-02N	TTL	N74LS02N	SIC		DIP	112- 93
4♦	74-02N	TTL	N74LS02N	VALG		DIP	112- 93
5♦	74-02N	TTL	N74S02D	MULB	*	SO	112- 94
6♦	74-02N	TTL	N74S02D	PHIN	*	SO	112- 94
7♦	74-02N	TTL	N74S02D	RTCF	*	SO	112- 94
8♦	74-02N	TTL	N74S02D	SIC	*	SO	112- 94
9♦	74-02N	TTL	N74S02D	VALG	*	SO	112- 94
10♦	74-02N	TTL	N74S02N	MULB		DIP	112- 95
11♦	74-02N	TTL	N74S02N	PHIN		DIP	112- 95
12♦	74-02N	TTL	N74S02N	RTCF		DIP	112- 95
13♦	74-02N	TTL	N74S02N	SIC		DIP	112- 95
14♦	74-02N	TTL	N74S02N	VALG		DIP	112- 95
15♦	74-02N	TTL	N7402F	MULB		DIP	112- 96
16♦	74-02N	TTL	N7402F	PHIN		DIP	112- 96
17♦	74-02N	TTL	N7402F	RTCF		DIP	112- 96
18♦	74-02N	TTL	N7402F	VALG		DIP	112- 96
19♦	74-02N	TTL	N7402N	MULB		DIP	112- 97
20♦	74-02N	TTL	N7402N	PHIN		DIP	112- 97
21♦	74-02N	TTL	N7402N	RTCF		DIP	112- 97
22♦	74-02N	TTL	N7402N	SIC		DIP	112- 97
23♦	74-02N	TTL	N7402N	VALG		DIP	112- 97
24♦	74-02N	TTL	SFC402E	THEF		DIP	112-106
25♦	74-02N	TTL	SFC402EM	THEF		DIP	112-107
26♦	74-02N	TTL	SFC402ET	THEF		DIP	112-108
27♦	74-02N	TTL	SFC402EV	THEF		DIP	112-109
28♦	74-02N	TTL	SN54ALS02J	TII		DIP	113- 84
29♦	74-02N	TTL	SN54AS02J	TII		DIP	113- 51
30♦	74-02N	TTL	SN5402J	TII		DIP	113- 7
31▼	74-02N	TTL	SN74ALS02D	TII	*	SO	113- 74
32♦	74-02N	TTL	SN74ALS02N	TII		DIP	113- 76
33▼	74-02N	TTL	SN74AS02D	TII	*	SO	113- 48
34♦	74-02N	TTL	SN74AS02N	TII		DIP	113- 49
35♦	74-02N	TTL	SN74S02N	TII		DIP	113- 6
36♦	74-02N	TTL	SN7402N	TII		DIP	113- 8
37♦	74-02N	TTL	S54F02F	MULB		DIP	112-102
38♦	74-02N	TTL	S54F02F	PHIN		DIP	112-102
39♦	74-02N	TTL	S54F02F	RTCF		DIP	112-102
40♦	74-02N	TTL	S54F02F	SIC		DIP	112-102
41♦	74-02N	TTL	S54F02F	VALG		DIP	112-102
42♦	74-02N	TTL	S54LS02F	MULB		DIP	112-103
43♦	74-02N	TTL	S54LS02F	PHIN		DIP	112-103
44♦	74-02N	TTL	S54LS02F	RTCF		DIP	112-103
45♦	74-02N	TTL	S54LS02F	SIC		DIP	112-103
46♦	74-02N	TTL	S54LS02F	VALG		DIP	112-103
47♦	74-02N	TTL	S54S02F	MULB		DIP	112-104
48♦	74-02N	TTL	S54S02F	PHIN		DIP	112-104
49♦	74-02N	TTL	S54S02F	RTCF		DIP	112-104
50♦	74-02N	TTL	S54S02F	SIC		DIP	112-104
51♦	74-02N	TTL	S54S02F	VALG		DIP	112-104
52♦	74-02N	TTL	S5402F	MULB		DIP	112-105
53♦	74-02N	TTL	S5402F	PHIN		DIP	112-105
54♦	74-02N	TTL	S5402F	VALG		DIP	112-105
55♦	74-02N	TTL	T54LS02D2	SGSI		DIP	113- 9
56♦	74-02N	TTL	T74LS02B1	SGSI		DIP	113- 10
57♦	74-02N	TTL	T74LS02D1	SGSI		DIP	113- 11
58♦	74-02N	TTL	54F02DM	FSC		DIP	112- 45
59♦	74-02N	TTL	54LS02DM	FSC		DIP	112- 46
60♦	74-02N	TTL	5402DM	FSC		DIP	112- 52
61♦	74-02N	TTL	74F02DC	FSC		DIP	112- 47
62♦	74-02N	TTL	74F02PC	FSC		DIP	112- 48
63♦	74-02N	TTL	74LS02DC	FSC		DIP	112- 49
64♦	74-02N	TTL	74LS02PC	FSC		DIP	112- 50
65♦	74-02N	TTL	74S02PC	FSC		DIP	112- 51
66♦	74-02N	TTL	7402DC	FSC		DIP	112- 53
67♦	74-02N	TTL	7402PC	FSC		DIP	112- 54
68♦	74H02	CMOS	UPD74HC02C(A)	NECJ		DIP	113- 83
69	74H02	CMOS	74HCT02D	SIC	*	SO	113-110
70♦	74H02	CMOS	74HCT02N	SIC		DIP	114- 1
71	74H02	CMOS	74HC02D	SIC	*	SO	113- 85
72♦	74H02	CMOS	74HC02N	SIC		DIP	113- 86
73♦	74H02	DTL	FZH301	SIEG		DIP	115- 11
74♦	74H02	DTL	FZH305	SIEG		DIP	115- 12
75▼	74H02P	TTL	MC3002L	MOTA		DIP	113- 57
76▼	74H02P	TTL	MC3002P	MOTA		DIP	113- 58
77♦	74H02P	TTL	MC3102L	MOTA		DIP	113- 60
78♦	74-03	CMOS	M54HC03F1(A)	SGSI		DIP	96- 37
79♦	74-03	CMOS	M74HC03B1(A)	SGSI		DIP	96- 43
80♦	74-03	CMOS	M74HC03F1(A)	SGSI		DIP	96- 44
81♦	74-03	CMOS	PC54HCT03D(A)	MULB		DIP	97- 15
82♦	74-03	CMOS	PC54HCT03D(A)	PHIN		DIP	97- 15
83♦	74-03	CMOS	PC54HCT03D(A)	RTCF		DIP	97- 15
84♦	74-03	CMOS	PC54HCT03D(A)	VALG		DIP	97- 15
85♦	74-03	CMOS	PC54HC03D(A)	MULB		DIP	97- 13
86♦	74-03	CMOS	PC54HC03D(A)	PHIN		DIP	97- 13
87♦	74-03	CMOS	PC54HC03D(A)	RTCF		DIP	97- 13
88♦	74-03	CMOS	PC54HC03D(A)	VALG		DIP	97- 13
89♦	74-03	CMOS	PC74HCT03D(A)	MULB		DIP	97- 19
90♦	74-03	CMOS	PC74HCT03D(A)	PHIN		DIP	97- 19
91♦	74-03	CMOS	PC74HCT03D(A)	RTCF		DIP	97- 19
92♦	74-03	CMOS	PC74HCT03D(A)	VALG		DIP	97- 19
93♦	74-03	CMOS	PC74HCT03P	MULB		DIP	99- 81
94♦	74-03	CMOS	PC74HCT03P	PHIN		DIP	99- 81
95♦	74-03	CMOS	PC74HCT03P	RTCF		DIP	99- 81
96♦	74-03	CMOS	PC74HCT03P	VALG		DIP	99- 81
97♦	74-03	CMOS	PC74HCT03T	MULB	*	SO	99- 82
98♦	74-03	CMOS	PC74HCT03T	PHIN	*	SO	99- 82
99♦	74-03	CMOS	PC74HCT03T	RTCF	*	SO	99- 82
100♦	74-03	CMOS	PC74HCT03T	VALG	*	SO	99- 82
101♦	74-03	CMOS	PC74HC03D(A)	MULB		DIP	97- 17
102♦	74-03	CMOS	PC74HC03D(A)	PHIN		DIP	97- 17
103♦	74-03	CMOS	PC74HC03D(A)	RTCF		DIP	97- 17
104♦	74-03	CMOS	PC74HC03D(A)	VALG		DIP	97- 17
105♦	74-03	CMOS	PC74HC03P	MULB		DIP	99- 36
106♦	74-03	CMOS	PC74HC03P	PHIN		DIP	99- 36
107♦	74-03	CMOS	PC74HC03P	RTCF		DIP	99- 36
108♦	74-03	CMOS	PC74HC03P	VALG		DIP	99- 36
109♦	74-03	CMOS	PC74HC03T	MULB	*	SO	99- 37
110♦	74-03	CMOS	PC74HC03T	PHIN	*	SO	99- 37
111♦	74-03	CMOS	PC74HC03T	RTCF	*	SO	99- 37
112♦	74-03	CMOS	PC74HC03T	VALG	*	SO	99- 37
113▼	74-03	CMOS	SN74HC03D	TII	*	SO	99- 48
114▼	74-03	CMOS	SN74HC03N	TII		DIP	99- 49
115♦	74-03	CMOS	74HCT03D	SIC	*	SO	99- 40
116♦	74-03	CMOS	74HCT03N	SIC		DIP	99- 41
117♦	74-03	CMOS	74HC03D	SIC	*	SO	98- 88
118♦	74-03	CMOS	74HC03N	SIC		DIP	98- 89
119♦	74-03	TTL	DM54ALS03AJ	NSC		DIP	95- 94
120♦	74-03	TTL	DM54LS03J	NSC		DIP	95-101
121♦	74-03	TTL	DM54LS26J	NSC		DIP	95-102
122♦	74-03	TTL	DM74ALS03AJ	NSC		DIP	95-105
123♦	74-03	TTL	DM74ALS03AN	NSC		DIP	95-106
124♦	74-03	TTL	DM74LS03N	NSC		DIP	96- 5
125♦	74-03	TTL	DM74LS26N	NSC		DIP	96- 6
126♦	74-03	TTL	DM74L26N	NSC		DIP	100- 88
127♦	74-03	TTL	DM7426N	NSC		DIP	99- 18
128♦	74-03	TTL	DN74LS03P1	MATJ		DIP	96- 25
129♦	74-03	TTL	DN74LS03P4	MATJ	*	SO	96- 26
130♦	74-03	TTL	N74S03D	MULB	*	SO	96-109
131♦	74-03	TTL	N74S03D	PHIN	*	SO	96-109
132♦	74-03	TTL	N74S03D	RTCF	*	SO	96-109
133♦	74-03	TTL	N74S03D	SIC	*	SO	96-109
134♦	74-03	TTL	N74S03D	VALG	*	SO	96-109
135♦	74-03	TTL	SN54LS03J	MOTA		DIP	97- 66
136♦	74-03	TTL	SN54LS03J	TII		DIP	97- 66
137▼	74-03	TTL	SN54LS03N	MOTA		DIP	97- 67
138♦	74-03	TTL	SN74LS03D	TII	*	SO	97- 75
139♦	74-03	TTL	SN74LS03J	MOTA		DIP	97- 76
140♦	74-03	TTL	SN74LS03N	MOTA		DIP	97- 77
141♦	74-03	TTL	SN74LS03N	TII		DIP	97- 77
142♦	74-03	TTL	SN74S03D	TII	*	SO	97- 82
143♦	74-03N	CMOS	CD54HCT03F(A)	RCA		DIP	99- 30
144♦	74-03N	CMOS	CD54HC03F(A)	RCA		DIP	99- 29
145♦	74-03N	CMOS	CD74HCT03E(A)	RCA		DIP	98- 99
146♦	74-03N	CMOS	CD74HCT03M(A)	RCA	*	SO	98-100
147♦	74-03N	CMOS	CD74HC03E(A)	RCA		DIP	98- 97
148♦	74-03N	CMOS	CD74HC03M(A)	RCA	*	SO	98- 98
149♦	74-03N	CMOS	MC54HC03J(A)	MOTA		DIP	96- 69
150♦	74-03N	CMOS	MC74HC03J(A)	MOTA		DIP	96- 75
151♦	74-03N	CMOS	MC74HC03N(A)	MOTA		DIP	96- 76
152▼	74-03N	CMOS	SN54HC03J	TII		DIP	99- 83
153▼	74-03N	CMOS	TC74HC03F(A)	TOSA	*	SO	99- 50
154▼	74-03N	CMOS	TC74HC03P(A)	TOSA		DIP	99- 51
155♦	74-03N	DTL	MC1818L,P	MOTA		DIP	96- 84
156♦	74-03N	DTL	MC1918L	MOTA		DIP	96- 85
157♦	74-03N	TTL	DM54H01J	NSC		DIP	95- 97
158♦	74-03N	TTL	DM54L03J	NSC		DIP	95- 99
159♦	74-03N	TTL	DM5403J	NSC		DIP	96- 10
160♦	74-03N	TTL	DM5438J	NSC		DIP	96- 12
161♦	74-03N	TTL	DM74H01J	NSC		DIP	95-110
162♦	74-03N	TTL	DM74H01N	NSC		DIP	96- 1
163♦	74-03N	TTL	DM74L03N	NSC		DIP	96- 3
164♦	74-03N	TTL	DM74S03N	NSC		DIP	96- 8
165♦	74-03N	TTL	DM7403N	NSC		DIP	96- 14
166♦	74-03N	TTL	DM7438N	NSC		DIP	96- 16
167♦	74-03N	TTL	DM8810N	NSC		DIP	96- 17
168♦	74-03N	TTL	DM8811N	NSC		DIP	96- 18
169♦	74-03N	TTL	DM9002CJ	NSC		DIP	96- 19
170♦	74-03N	TTL	DM9002CN	NSC		DIP	96- 20
171♦	74-03N	TTL	DM9012CJ	NSC		DIP	96- 21
172♦	74-03N	TTL	DM9012CN	NSC		DIP	96- 22
173♦	74-03N	TTL	FJH291-7403	PHIN		DIP	96- 30
174♦	74-03N	TTL	FJH301-7426	PHIN		DIP	96- 31
175▼	74-03N	TTL	HD74LS03G	HITJ		DIP	99- 56
176♦	74-03N	TTL	HD74LS03P	HITJ		DIP	99- 57
177♦	74-03N	TTL	MB416	FCAJ		DIP	96- 57
178♦	74-03N	TTL	MB416M	FCAJ		DIP	96- 58
179♦	74-03N	TTL	MB431	FCAJ		DIP	96- 59
180♦	74-03N	TTL	MB431M	FCAJ		DIP	96- 60
181♦	74-03N	TTL	MB433	FCAJ		DIP	96- 61
182♦	74-03N	TTL	MB433M	FCAJ		DIP	96- 62
183♦	74-03N	TTL	MB74LS03	FCAJ		DIP	96- 51
184♦	74-03N	TTL	MB74LS03M	FCAJ		DIP	96- 52
185♦	74-03N	TTL	M53203P	MITJ		DIP	96- 48
186♦	74-03N	TTL	M74ALS03AP	MITA		DIP	96- 39
187♦	74-03N	TTL	M74ALS03AP	MITJ		DIP	96- 39
188♦	74-03N	TTL	M74LS03P	MITA		DIP	96- 46
189♦	74-03N	TTL	M74LS03P	MITJ		DIP	96- 46
190♦	74-03N	TTL	N74H01F	MULB		DIP	96- 99
191♦	74-03N	TTL	N74H01F	PHIN		DIP	96- 99
192♦	74-03N	TTL	N74H01F	VALG		DIP	96- 99
193♦	74-03N	TTL	N74H01N	MULB		DIP	96-100
194♦	74-03N	TTL	N74H01N	PHIN		DIP	96-100
195♦	74-03N	TTL	N74H01N	VALG		DIP	96-100
196♦	74-03N	TTL	N74LS03F	MULB		DIP	96-103
197♦	74-03N	TTL	N74LS03F	PHIN		DIP	96-103
198♦	74-03N	TTL	N74LS03F	VALG		DIP	96-103
199♦	74-03N	TTL	N74LS03N	MULB		DIP	96-104
200♦	74-03N	TTL	N74LS03N	PHIN		DIP	96-104
201♦	74-03N	TTL	N74LS03N	VALG		DIP	96-104
202♦	74-03N	TTL	N74LS26D	MULB	*	SO	96-105
203♦	74-03N	TTL	N74LS26D	PHIN	*	SO	96-105
204♦	74-03N	TTL	N74LS26D	RTCF	*	SO	96-105
205♦	74-03N	TTL	N74LS26D	SIC	*	SO	96-105
206♦	74-03N	TTL	N74LS26D	VALG	*	SO	96-105
207♦	74-03N	TTL	N74LS26N	MULB		DIP	96-106
208♦	74-03N	TTL	N74LS26N	PHIN		DIP	96-106
209♦	74-03N	TTL	N74LS26N	RTCF		DIP	96-106
210♦	74-03N	TTL	N74LS26N	SIC		DIP	96-106
211♦	74-03N	TTL	N74LS26N	VALG		DIP	96-106
212♦	74-03N	TTL	N74S03F	MULB		DIP	96-110
213♦	74-03N	TTL	N74S03F	PHIN		DIP	96-110
214♦	74-03N	TTL	N74S03F	RTCF		DIP	96-110
215♦	74-03N	TTL	N74S03F	VALG		DIP	96-110
216♦	74-03N	TTL	N74S03N	MULB		DIP	97- 1
217♦	74-03N	TTL	N74S03N	PHIN		DIP	97- 1
218♦	74-03N	TTL	N74S03N	RTCF		DIP	97- 1
219♦	74-03N	TTL	N74S03N	VALG		DIP	97- 1
220♦	74-03N	TTL	N7403F	MULB		DIP	97- 4

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-03N	TTL	N7403F	PHIN		DIP	97- 4
2♦	74-03N	TTL	N7403F	RTCF		DIP	97- 4
3♦	74-03N	TTL	N7403F	VALG		DIP	97- 4
4♦	74-03N	TTL	N7403N	MULB		DIP	97- 5
5♦	74-03N	TTL	N7403N	PHIN		DIP	97- 5
6♦	74-03N	TTL	N7403N	RTCF		DIP	97- 5
7♦	74-03N	TTL	N7403N	SIC		DIP	97- 5
8♦	74-03N	TTL	N7403N	VALG		DIP	97- 5
9♦	74-03N	TTL	N7426F	MULB		DIP	97- 6
10♦	74-03N	TTL	N7426F	PHIN		DIP	97- 6
11♦	74-03N	TTL	N7426F	RTCF		DIP	97- 6
12♦	74-03N	TTL	N7426F	VALG		DIP	97- 6
13♦	74-03N	TTL	N7426N	MULB		DIP	97- 7
14♦	74-03N	TTL	N7426N	PHIN		DIP	97- 7
15♦	74-03N	TTL	N7426N	RTCF		DIP	97- 7
16♦	74-03N	TTL	N7426N	SIC		DIP	97- 7
17♦	74-03N	TTL	N7426N	VALG		DIP	97- 7
18♦	74-03N	TTL	N8481A	MULB		DIP	97- 10
19♦	74-03N	TTL	N8481A	PHIN		DIP	97- 10
20♦	74-03N	TTL	N8481F	MULB		DIP	97- 11
21♦	74-03N	TTL	N8481F	PHIN		DIP	97- 11
22♦	74-03N	TTL	SFC401AE	THEF		DIP	97- 53
23♦	74-03N	TTL	SFC401HE	THEF		DIP	97- 54
24♦	74-03N	TTL	SFC401HEM	THEF		DIP	97- 55
25♦	74-03N	TTL	SFC401HJM	THEF		DIP	97- 56
26♦	74-03N	TTL	SFC401HKM	THEF		DIP	97- 57
27♦	74-03N	TTL	SFC403E	THEF		DIP	97- 58
28♦	74-03N	TTL	SFC403EM	THEF		DIP	97- 59
29♦	74-03N	TTL	SFC403ET	THEF		DIP	97- 60
30♦	74-03N	TTL	SFC403EV	THEF		DIP	97- 61
31♦	74-03N	TTL	SFC403LE	THEF		DIP	97- 62
32♦	74-03N	TTL	SFC403LEM	THEF		DIP	97- 63
33▼	74-03N	TTL	SN54ALS03BJ	TII		DIP	100- 51
34♦	74-03N	TTL	SN54S03J	TII		DIP	97- 70
35♦	74-03N	TTL	SN5403J	TII		DIP	97- 84
36▼	74-03N	TTL	SN74ALS03BD	TII	*	SO	100- 39
37▼	74-03N	TTL	SN74ALS03BN	TII		DIP	100- 40
38♦	74-03N	TTL	SN74S03N	TII		DIP	97- 83
39♦	74-03N	TTL	SN7403N	TII		DIP	97- 86
40▼	74-03N	TTL	SN7438N	TII		DIP	97- 87
41♦	74-03N	TTL	S54H01F	MULB		DIP	97- 22
42♦	74-03N	TTL	S54H01F	PHIN		DIP	97- 22
43♦	74-03N	TTL	S54H01F	VALG		DIP	97- 22
44♦	74-03N	TTL	S54LS03F	MULB		DIP	97- 24
45♦	74-03N	TTL	S54LS03F	PHIN		DIP	97- 24
46♦	74-03N	TTL	S54LS03F	RTCF		DIP	97- 24
47♦	74-03N	TTL	S54LS03F	VALG		DIP	97- 24
48♦	74-03N	TTL	S54LS26F	MULB		DIP	97- 25
49♦	74-03N	TTL	S54LS26F	PHIN		DIP	97- 25
50♦	74-03N	TTL	S54LS26F	RTCF		DIP	97- 25
51♦	74-03N	TTL	S54LS26F	VALG		DIP	97- 25
52♦	74-03N	TTL	S54S03F	MULB		DIP	97- 27
53♦	74-03N	TTL	S54S03F	PHIN		DIP	97- 27
54♦	74-03N	TTL	S5403F	MULB		DIP	97- 29
55♦	74-03N	TTL	S5403F	PHIN		DIP	97- 29
56♦	74-03N	TTL	S5403F	RTCF		DIP	97- 29
57♦	74-03N	TTL	S5403F	SIC		DIP	97- 29
58♦	74-03N	TTL	S5403F	VALG		DIP	97- 29
59♦	74-03N	TTL	S5426F	MULB		DIP	97- 30
60♦	74-03N	TTL	S5426F	PHIN		DIP	97- 30
61♦	74-03N	TTL	S5426F	RTCF		DIP	97- 30
62♦	74-03N	TTL	S5426F	SIC		DIP	97- 30
63♦	74-03N	TTL	S5426F	VALG		DIP	97- 30
64♦	74-03N	TTL	S8481A	MULB		DIP	97- 33
65♦	74-03N	TTL	S8481A	PHIN		DIP	97- 33
66♦	74-03N	TTL	S8481F	MULB		DIP	97- 34
67♦	74-03N	TTL	S8481F	PHIN		DIP	97- 34
68♦	74-03N	TTL	T54LS03D2	SGSI		DIP	97- 89
69♦	74-03N	TTL	T54LS26D2	SGSI		DIP	97- 90
70♦	74-03N	TTL	T74LS03B1	SGSI		DIP	97- 93
71♦	74-03N	TTL	T74LS03D1	SGSI		DIP	97- 94
72♦	74-03N	TTL	T74LS26B1	SGSI		DIP	97- 95
73♦	74-03N	TTL	T74LS26D1	SGSI		DIP	97- 96
74♦	74-03N	TTL	54H01DM	FSC		DIP	95- 51
75♦	74-03N	TTL	54LS03DM	FSC		DIP	95- 53
76♦	74-03N	TTL	54LS26DM	FSC		DIP	95- 54
77♦	74-03N	TTL	54S03DM	FSC		DIP	95- 56
78♦	74-03N	TTL	5403DM	FSC		DIP	95- 77
79♦	74-03N	TTL	74H01DC	FSC		DIP	95- 61
80♦	74-03N	TTL	74H01PC	FSC		DIP	95- 62
81♦	74-03N	TTL	74LS03DC	FSC		DIP	95- 65
82♦	74-03N	TTL	74LS03PC	FSC		DIP	95- 66
83♦	74-03N	TTL	74LS26DC	FSC		DIP	95- 67
84♦	74-03N	TTL	74LS26PC	FSC		DIP	95- 68
85♦	74-03N	TTL	74S03DC	FSC		DIP	95- 71
86♦	74-03N	TTL	74S03PC	FSC		DIP	95- 72
87♦	74-03N	TTL	7403DC	FSC		DIP	95- 80
88♦	74-03N	TTL	7403PC	FSC		DIP	95- 81
89♦	74-03N	TTL	7426DC	FSC		DIP	95- 82
90♦	74-03N	TTL	7426PC	FSC		DIP	95- 83
91♦	74-03N	TTL	9012DC	FSC		DIP	95- 86
92♦	74-03N	TTL	9012DM	FSC		DIP	95- 87
93♦	74-05N	DTL	941DM	FSC		DIP	189- 46
94♦	74-08	CMOS	LC74HC08	TSAJ		DIP	77- 90
95♦	74-08	CMOS	MC54HC08J(A)	MOTA		DIP	76- 51
96♦	74-08	CMOS	MC74HC08J(A)	MOTA		DIP	76- 56
97♦	74-08	CMOS	MC74HC08N(A)	MOTA		DIP	76- 57
98♦	74-08	CMOS	M54HC08F1(A)	SGSI		DIP	76- 37
99♦	74-08	CMOS	M74HC08B1(A)	SGSI		DIP	76- 39
100♦	74-08	CMOS	M74HC08F1(A)	SGSI		DIP	76- 41
101♦	74-08	CMOS	M74HC08P	MITJ		DIP	76- 42
102♦	74-08	CMOS	PC54HCT08D(A)	MULB		DIP	76- 82
103♦	74-08	CMOS	PC54HCT08D(A)	PHIN		DIP	76- 82
104♦	74-08	CMOS	PC54HCT08D(A)	RTCF		DIP	76- 82
105♦	74-08	CMOS	PC54HCT08D(A)	VALG		DIP	76- 82
106♦	74-08	CMOS	PC54HC08D(A)	MULB		DIP	76- 81
107♦	74-08	CMOS	PC54HC08D(A)	PHIN		DIP	76- 81
108♦	74-08	CMOS	PC54HC08D(A)	RTCF		DIP	76- 81
109♦	74-08	CMOS	PC54HC08D(A)	VALG		DIP	76- 81
110♦	74-08	CMOS	PC74HCT08D(A)	MULB		DIP	76- 84
111♦	74-08	CMOS	PC74HCT08D(A)	PHIN		DIP	76- 84
112♦	74-08	CMOS	PC74HCT08D(A)	RTCF		DIP	76- 84
113♦	74-08	CMOS	PC74HCT08D(A)	VALG		DIP	76- 84
114♦	74-08	CMOS	PC74HCT08P	MULB		DIP	78- 43
115♦	74-08	CMOS	PC74HCT08P	PHIN		DIP	78- 43
116♦	74-08	CMOS	PC74HCT08P	RTCF		DIP	78- 43
117♦	74-08	CMOS	PC74HCT08P	VALG		DIP	78- 43
118♦	74-08	CMOS	PC74HCT08T	MULB	*	SO	78- 44
119♦	74-08	CMOS	PC74HCT08T	PHIN	*	SO	78- 44
120♦	74-08	CMOS	PC74HCT08T	RTCF	*	SO	78- 44
121♦	74-08	CMOS	PC74HCT08T	VALG	*	SO	78- 44
122♦	74-08	CMOS	PC74HC08D(A)	MULB		DIP	76- 83
123♦	74-08	CMOS	PC74HC08D(A)	PHIN		DIP	76- 83
124♦	74-08	CMOS	PC74HC08D(A)	RTCF		DIP	76- 83
125♦	74-08	CMOS	PC74HC08D(A)	VALG		DIP	76- 83
126♦	74-08	CMOS	PC74HC08P	MULB		DIP	77- 99
127♦	74-08	CMOS	PC74HC08P	PHIN		DIP	77- 99
128♦	74-08	CMOS	PC74HC08P	RTCF		DIP	77- 99
129♦	74-08	CMOS	PC74HC08P	VALG		DIP	77- 99
130♦	74-08	CMOS	PC74HC08T	MULB	*	SO	77-100
131♦	74-08	CMOS	PC74HC08T	PHIN	*	SO	77-100
132♦	74-08	CMOS	PC74HC08T	RTCF	*	SO	77-100
133♦	74-08	CMOS	PC74HC08T	VALG	*	SO	77-100
134♦	74-08	CMOS	UPD74HC08C(A)	NECJ		DIP	77- 74
135♦	74-08	TTL	DM54ALS08J	NSC		DIP	76- 22
136♦	74-08	TTL	DM54AS08J	NSC		DIP	76- 23
137♦	74-08	TTL	DM54LS08J	NSC		DIP	76- 25
138♦	74-08	TTL	DM74ALS08J	NSC		DIP	76- 26
139♦	74-08	TTL	DM74ALS08N	NSC		DIP	76- 27
140♦	74-08	TTL	DM74AS08J	NSC		DIP	76- 28
141♦	74-08	TTL	DM74AS08N	NSC		DIP	76- 29
142♦	74-08	TTL	DM74LS08N	NSC		DIP	76- 31
143♦	74-08	TTL	DM74L08N	NSC		DIP	78- 74
144♦	74-08	TTL	DM74S08N	NSC		DIP	77- 57
145♦	74-08	TTL	DN74LS08P1	MATJ		DIP	76- 34
146♦	74-08	TTL	DN74LS08P4	MATJ	*	SO	76- 35
147♦	74-08	TTL	N74F08D	MULB	*	SO	77- 38
148♦	74-08	TTL	N74F08D	PHIN	*	SO	77- 38
149♦	74-08	TTL	N74F08D	RTCF	*	SO	77- 38
150♦	74-08	TTL	N74F08D	SIC	*	SO	77- 38
151♦	74-08	TTL	N74F08D	VALG	*	SO	77- 38
152♦	74-08	TTL	N74F08N	MULB		DIP	77- 39
153♦	74-08	TTL	N74F08N	PHIN		DIP	77- 39
154♦	74-08	TTL	N74F08N	RTCF		DIP	77- 39
155♦	74-08	TTL	N74F08N	SIC		DIP	77- 39
156♦	74-08	TTL	N74F08N	VALG		DIP	77- 39
157♦	74-08	TTL	N74S08D	MULB	*	SO	76- 73
158♦	74-08	TTL	N74S08D	PHIN	*	SO	76- 73
159♦	74-08	TTL	N74S08D	RTCF	*	SO	76- 73
160♦	74-08	TTL	N74S08D	VALG	*	SO	76- 73
161♦	74-08	TTL	SN54LS08J	MOTA		DIP	76- 99
162♦	74-08	TTL	SN54LS08J	TII		DIP	76- 99
163▼	74-08	TTL	SN54LS08N	MOTA		DIP	76-100
164♦	74-08	TTL	SN74LS08D	TII	*	SO	76-102
165♦	74-08	TTL	SN74LS08J	MOTA		DIP	76-103
166♦	74-08	TTL	SN74S08D	TII	*	SO	76-105
167♦	74-08N	CMOS	CD54HCT08F	RCA		DIP	77- 94
168♦	74-08N	CMOS	CD54HC08F	RCA		DIP	77- 93
169♦	74-08N	CMOS	CD74HCT08E	RCA		DIP	77- 86
170♦	74-08N	CMOS	CD74HCT08M	RCA	*	SO	77- 87
171♦	74-08N	CMOS	CD74HC08E	RCA		DIP	77- 84
172♦	74-08N	CMOS	CD74HC08M	RCA	*	SO	77- 85
173▼	74-08N	CMOS	HD74HC08FP	HITJ	*	SO	77- 45
174▼	74-08N	CMOS	HD74HC08P	HITJ		DIP	77- 46
175♦	74-08N	CMOS	MC54HC08BCAJ(A)	MOTA		DIP	76- 49
176♦	74-08N	CMOS	MC54HC08BCAN(A)	MOTA		DIP	76- 50
177♦	74-08N	CMOS	MC74HC08BCAJ(A)	MOTA		DIP	76- 54
178♦	74-08N	CMOS	MC74HC08BCAN(A)	MOTA		DIP	76- 55
179♦	74-08N	CMOS	MM54C08D	NSC		DIP	76- 67
180♦	74-08N	CMOS	MM74C08N	NSC		DIP	76- 68
181♦	74-08N	CMOS	MM74PC08J	NSC		DIP	77- 78
182♦	74-08N	CMOS	MM74PC08JI	NSC		DIP	77- 79
183♦	74-08N	CMOS	MM74PC08N	NSC		DIP	77- 80
184♦	74-08N	CMOS	MM74PC08NI	NSC		DIP	77- 81
185♦	74-08N	CMOS	SN54HC08J	TII		DIP	77-110
186▼	74-08N	CMOS	SN74HC08D	TII	*	SO	77- 96
187♦	74-08N	CMOS	SN74HC08N	TII		DIP	77- 97
188♦	74-08N	CMOS	TC40H008P	IMTM		DIP	77- 3
189♦	74-08N	CMOS	TC40H008P	TOSJ		DIP	77- 3
190▼	74-08N	CMOS	TC74HC08F(A)	TOSA	*	SO	77- 95
191▼	74-08N	CMOS	TC74HC08F(A)	TOSJ	*	SO	77- 95
192♦	74-08N	CMOS	TC74HC08P(A)	TOSA		DIP	77- 4
193♦	74-08N	CMOS	TC74HC08P(A)	TOSJ		DIP	77- 4
194♦	74-08N	CMOS	US74HCT08N(A)	UNV		DIP	77- 5
195▼	74-08N	DTL	MC1806L	MOTA		DIP	76- 58
196▼	74-08N	DTL	MC1806P	MOTA		DIP	76- 59
197▼	74-08N	DTL	MC1807L	MOTA		DIP	76- 60
198▼	74-08N	DTL	MC1807P	MOTA		DIP	76- 61
199♦	74-08N	DTL	MC1906L	MOTA		DIP	76- 62
200♦	74-08N	DTL	MC1907L	MOTA		DIP	76- 63
201♦	74-08N	TTL	DM54H08J	NSC		DIP	76- 24
202♦	74-08N	TTL	DM5408J	NSC		DIP	76- 32
203♦	74-08N	TTL	DM74H08N	NSC		DIP	76- 30
204♦	74-08N	TTL	DM7408N	NSC		DIP	76- 33
205▼	74-08N	TTL	HD74LS08G	HITJ		DIP	77- 88
206♦	74-08N	TTL	HD74LS08P	HITJ		DIP	77- 89
207♦	74-08N	TTL	MB74LS08	FCAJ		DIP	76- 45
208♦	74-08N	TTL	MB74LS08M	FCAJ		DIP	76- 46
209▼	74-08N	TTL	MC3001L	MOTA		DIP	76- 64
210▼	74-08N	TTL	MC3001P	MOTA		DIP	76- 65
211♦	74-08N	TTL	MC3101L	MOTA		DIP	76- 66
212♦	74-08N	TTL	MC54F08J	MOTA		DIP	76- 47
213▼	74-08N	TTL	MC54F08N	MOTA		DIP	76- 48
214♦	74-08N	TTL	MC74F08J	MOTA		DIP	76- 52
215♦	74-08N	TTL	MC74F08N	MOTA		DIP	76- 53
216♦	74-08N	TTL	M53208P	MITJ		DIP	76- 44
217♦	74-08N	TTL	M74ALS08P	MITA		DIP	76- 38
218♦	74-08N	TTL	M74ALS08P	MITJ		DIP	76- 38
219♦	74-08N	TTL	M74LS08P	MITA		DIP	76- 43
220♦	74-08N	TTL	M74LS08P	MITJ		DIP	76- 43

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-08N	TTL	N74H08F	MULB		DIP	76- 69
2♦	74-08N	TTL	N74H08F	PHIN		DIP	76- 69
3♦	74-08N	TTL	N74H08F	VALG		DIP	76- 69
4♦	74-08N	TTL	N74H08N	MULB		DIP	76- 70
5♦	74-08N	TTL	N74H08N	PHIN		DIP	76- 70
6♦	74-08N	TTL	N74H08N	VALG		DIP	76- 70
7♦	74-08N	TTL	N74LS08D	MULB		DIP	76- 71
8♦	74-08N	TTL	N74LS08D	PHIN		DIP	76- 71
9♦	74-08N	TTL	N74LS08D	RTCF		DIP	76- 71
10♦	74-08N	TTL	N74LS08D	SIC		DIP	76- 71
11♦	74-08N	TTL	N74LS08D	VALG		DIP	76- 71
12♦	74-08N	TTL	N74LS08N	MULB		DIP	76- 72
13♦	74-08N	TTL	N74LS08N	PHIN		DIP	76- 72
14♦	74-08N	TTL	N74LS08N	RTCF		DIP	76- 72
15♦	74-08N	TTL	N74LS08N	SIC		DIP	76- 72
16♦	74-08N	TTL	N74LS08N	VALG		DIP	76- 72
17♦	74-08N	TTL	N74S08F	MULB		DIP	76- 74
18♦	74-08N	TTL	N74S08F	PHIN		DIP	76- 74
19♦	74-08N	TTL	N74S08F	RTCF		DIP	76- 74
20♦	74-08N	TTL	N74S08F	VALG		DIP	76- 74
21♦	74-08N	TTL	N74S08N	MULB		DIP	76- 75
22♦	74-08N	TTL	N74S08N	PHIN		DIP	76- 75
23♦	74-08N	TTL	N74S08N	RTCF		DIP	76- 75
24♦	74-08N	TTL	N74S08N	SIC		DIP	76- 75
25♦	74-08N	TTL	N74S08N	VALG		DIP	76- 75
26♦	74-08N	TTL	N7408F	MULB		DIP	76- 76
27♦	74-08N	TTL	N7408F	PHIN		DIP	76- 76
28♦	74-08N	TTL	N7408F	RTCF		DIP	76- 76
29♦	74-08N	TTL	N7408F	VALG		DIP	76- 76
30♦	74-08N	TTL	N7408N	MULB		DIP	76- 77
31♦	74-08N	TTL	N7408N	PHIN		DIP	76- 77
32♦	74-08N	TTL	N7408N	RTCF		DIP	76- 77
33♦	74-08N	TTL	N7408N	SIC		DIP	76- 77
34♦	74-08N	TTL	N7408N	VALG		DIP	76- 77
35♦	74-08N	TTL	SFC408E	THEF		DIP	76- 95
36♦	74-08N	TTL	SFC408EM	THEF		DIP	76- 96
37♦	74-08N	TTL	SFC408ET	THEF		DIP	76- 97
38♦	74-08N	TTL	SFC408EV	THEF		DIP	76- 98
39♦	74-08N	TTL	SN54ALS08J	TII		DIP	77- 77
40♦	74-08N	TTL	SN54AS08J	TII		DIP	77- 37
41♦	74-08N	TTL	SN54S08J	TII		DIP	76-101
42♦	74-08N	TTL	SN5408J	TII		DIP	76-107
43▼	74-08N	TTL	SN74ALS08D	TII	*	SO	77- 65
44♦	74-08N	TTL	SN74ALS08N	TII		DIP	77- 66
45▼	74-08N	TTL	SN74AS08D	TII	*	SO	77- 33
46♦	74-08N	TTL	SN74AS08N	TII		DIP	77- 34
47♦	74-08N	TTL	SN74LS08N	MOTA		DIP	76-104
48♦	74-08N	TTL	SN74LS08N	TII		DIP	76-104
49♦	74-08N	TTL	SN74S08N	TII		DIP	76-106
50♦	74-08N	TTL	SN7408N	TII		DIP	76-108
51♦	74-08N	TTL	S54F08F	MULB		DIP	76- 85
52♦	74-08N	TTL	S54F08F	PHIN		DIP	76- 85
53♦	74-08N	TTL	S54F08F	RTCF		DIP	76- 85
54♦	74-08N	TTL	S54F08F	SIC		DIP	76- 85
55♦	74-08N	TTL	S54F08F	VALG		DIP	76- 85
56♦	74-08N	TTL	S54H08F	MULB		DIP	76- 87
57♦	74-08N	TTL	S54H08F	PHIN		DIP	76- 87
58♦	74-08N	TTL	S54H08F	VALG		DIP	76- 87
59♦	74-08N	TTL	S54LS08F	MULB		DIP	76- 88
60♦	74-08N	TTL	S54LS08F	PHIN		DIP	76- 88
61♦	74-08N	TTL	S54LS08F	RTCF		DIP	76- 88
62♦	74-08N	TTL	S54LS08F	SIC		DIP	76- 88
63♦	74-08N	TTL	S54LS08F	VALG		DIP	76- 88
64♦	74-08N	TTL	S54S08F	MULB		DIP	76- 90
65♦	74-08N	TTL	S54S08F	PHIN		DIP	76- 90
66♦	74-08N	TTL	S54S08F	RTCF		DIP	76- 90
67♦	74-08N	TTL	S54S08F	SIC		DIP	76- 90
68♦	74-08N	TTL	S54S08F	VALG		DIP	76- 90
69♦	74-08N	TTL	S5408F	MULB		DIP	76- 91
70♦	74-08N	TTL	S5408F	PHIN		DIP	76- 91
71♦	74-08N	TTL	S5408F	VALG		DIP	76- 91
72♦	74-08N	TTL	T54LS08D2	SGSI		DIP	76-110
73♦	74-08N	TTL	T74LS08B1	SGSI		DIP	77- 1
74♦	74-08N	TTL	T74LS08D1	SGSI		DIP	77- 2
75♦	74-08N	TTL	54F08DM	FSC		DIP	76- 5
76♦	74-08N	TTL	54H08DM	FSC		DIP	76- 7
77♦	74-08N	TTL	54LS08DM	FSC		DIP	76- 8
78♦	74-08N	TTL	5408DM	FSC		DIP	76- 17
79♦	74-08N	TTL	74F08DC	FSC		DIP	76- 9
80♦	74-08N	TTL	74F08PC	FSC		DIP	76- 11
81♦	74-08N	TTL	74LS08DC	FSC		DIP	76- 13
82♦	74-08N	TTL	74LS08PC	FSC		DIP	76- 14
83♦	74-08N	TTL	74S08DC	FSC		DIP	76- 15
84♦	74-08N	TTL	74S08PC	FSC		DIP	76- 16
85♦	74-08N	TTL	7408DC	FSC		DIP	76- 18
86♦	74-08N	TTL	7408PC	FSC		DIP	76- 19
87♦	74-09	TTL	DM54ALS09J	NSC		DIP	78- 64
88♦	74-09	TTL	DM54LS09J	NSC		DIP	77-107
89♦	74-09	TTL	DM74ALS09J	NSC		DIP	78- 59
90♦	74-09	TTL	DM74ALS09N	NSC		DIP	78- 60
91♦	74-09	TTL	DM74LS09N	NSC		DIP	77-108
92♦	74-09	TTL	DM74S09N	NSC		DIP	77- 76
93♦	74-09	TTL	DN74LS09P1	MATJ		DIP	78- 27
94♦	74-09	TTL	DN74LS09P4	MATJ	*	SO	78- 28
95♦	74-09	TTL	SN54LS09J	MOTA		DIP	78- 38
96♦	74-09	TTL	SN54LS09J	TII		DIP	78- 38
97▼	74-09	TTL	SN54LS09N	MOTA		DIP	78- 39
98♦	74-09	TTL	SN74LS09D	TII	*	SO	78- 40
99♦	74-09	TTL	SN74LS09J	MOTA		DIP	78- 41
100♦	74-09	TTL	SN74LS09N	MOTA		DIP	78- 42
101♦	74-09	TTL	SN74LS09N	TII		DIP	78- 42
102♦	74-09	TTL	SN74S09D	TII	*	SO	77- 54
103▼	74-09N	CMOS	HD74HC09FP	HITJ	*	SO	77- 43
104▼	74-09N	CMOS	HD74HC09P	HITJ		DIP	77- 44
105▼	74-09N	CMOS	SN54HC09J	TII		DIP	78- 45
106▼	74-09N	CMOS	SN74HC09D	TII	*	SO	78- 1
107▼	74-09N	CMOS	SN74HC09N	TII		DIP	78- 2
108♦	74-09N	TTL	DM5409J	NSC		DIP	78- 8
109♦	74-09N	TTL	DM7409N	NSC		DIP	78- 10
110♦	74-09N	TTL	DM7819J	NSC		DIP	77- 68
111♦	74-09N	TTL	DM7819N	NSC		DIP	77- 69
112♦	74-09N	TTL	DM8819J	NSC		DIP	77- 71
113♦	74-09N	TTL	DM8819N	NSC		DIP	77- 72
114♦	74-09N	TTL	DS7819J(2)	NSC		DIP	78- 11
115♦	74-09N	TTL	DS8819J(2)	NSC		DIP	78- 12
116♦	74-09N	TTL	DS8819N(2)	NSC		DIP	78- 13
117▼	74-09N	TTL	HD74LS09G	HITJ		DIP	78- 29
118♦	74-09N	TTL	HD74LS09P	HITJ		DIP	78- 30
119♦	74-09N	TTL	MB74LS09	FCAJ		DIP	78- 32
120♦	74-09N	TTL	MB74LS09M	FCAJ		DIP	78- 33
121♦	74-09N	TTL	M53209P	MITJ		DIP	78- 14
122♦	74-09N	TTL	M74ALS09P	MITA		DIP	78- 63
123♦	74-09N	TTL	M74ALS09P	MITJ		DIP	78- 63
124♦	74-09N	TTL	M74LS09P	MITA		DIP	78- 31
125♦	74-09N	TTL	M74LS09P	MITJ		DIP	78- 31
126♦	74-09N	TTL	N74LS09F	MULB		DIP	77- 91
127♦	74-09N	TTL	N74LS09F	PHIN		DIP	77- 91
128♦	74-09N	TTL	N74LS09F	VALG		DIP	77- 91
129♦	74-09N	TTL	N74LS09N	MULB		DIP	78- 35
130♦	74-09N	TTL	N74LS09N	PHIN		DIP	78- 35
131♦	74-09N	TTL	N74LS09N	RTCF		DIP	78- 35
132♦	74-09N	TTL	N74LS09N	VALG		DIP	78- 35
133♦	74-09N	TTL	N74S09F	MULB		DIP	77- 49
134♦	74-09N	TTL	N74S09F	PHIN		DIP	77- 49
135♦	74-09N	TTL	N74S09F	VALG		DIP	77- 49
136♦	74-09N	TTL	N74S09N	MULB		DIP	77- 50
137♦	74-09N	TTL	N74S09N	PHIN		DIP	77- 50
138♦	74-09N	TTL	N74S09N	VALG		DIP	77- 50
139♦	74-09N	TTL	N7409F	MULB		DIP	78- 15
140♦	74-09N	TTL	N7409F	PHIN		DIP	78- 15
141♦	74-09N	TTL	N7409F	VALG		DIP	78- 15
142♦	74-09N	TTL	N7409N	MULB		DIP	78- 16
143♦	74-09N	TTL	N7409N	PHIN		DIP	78- 16
144♦	74-09N	TTL	N7409N	VALG		DIP	78- 16
145♦	74-09N	TTL	SFC409E	THEF		DIP	78- 17
146♦	74-09N	TTL	SFC409EM	THEF		DIP	78- 18
147♦	74-09N	TTL	SFC409ET	THEF		DIP	78- 19
148♦	74-09N	TTL	SFC409EV	THEF		DIP	78- 20
149♦	74-09N	TTL	SN54ALS09J	TII		DIP	78- 66
150♦	74-09N	TTL	SN54S09J	TII		DIP	77- 53
151♦	74-09N	TTL	SN5409J	TII		DIP	78- 23
152▼	74-09N	TTL	SN74ALS09D	TII	*	SO	78- 61
153♦	74-09N	TTL	SN74ALS09N	TII		DIP	78- 62
154♦	74-09N	TTL	SN74S09N	TII		DIP	77- 55
155♦	74-09N	TTL	SN7409N	TII		DIP	78- 24
156♦	74-09N	TTL	S54LS09F	MULB		DIP	78- 36
157♦	74-09N	TTL	S54LS09F	PHIN		DIP	78- 36
158♦	74-09N	TTL	S54LS09F	RTCF		DIP	78- 36
159♦	74-09N	TTL	S54LS09F	VALG		DIP	78- 36
160♦	74-09N	TTL	S54S09F	MULB		DIP	77- 51
161♦	74-09N	TTL	S54S09F	PHIN		DIP	77- 51
162♦	74-09N	TTL	S54S09F	SIC		DIP	77- 51
163♦	74-09N	TTL	S54S09F	VALG		DIP	77- 51
164♦	74-09N	TTL	S5409F	MULB		DIP	78- 25
165♦	74-09N	TTL	S5409F	PHIN		DIP	78- 25
166♦	74-09N	TTL	S5409F	VALG		DIP	78- 25
167♦	74-09N	TTL	T54LS09D2	SGSI		DIP	77- 62
168♦	74-09N	TTL	T74LS09B1	SGSI		DIP	77- 63
169♦	74-09N	TTL	T74LS09D1	SGSI		DIP	77- 64
170♦	74-09N	TTL	5409DM	FSC		DIP	78- 3
171♦	74-09N	TTL	74LS09PC	FSC		DIP	77- 61
172♦	74-09N	TTL	7409DC	FSC		DIP	78- 5
173♦	74-09N	TTL	7409PC	FSC		DIP	78- 6
174♦	74-10	CMOS	LC74HC10	TSAJ		DIP	103- 3
175♦	74-10	CMOS	M54HC10F1(A)	SGSI		DIP	102-107
176♦	74-10	CMOS	M74HC10B1(A)	SGSI		DIP	102-108
177♦	74-10	CMOS	M74HC10F1(A)	SGSI		DIP	102-110
178♦	74-10	CMOS	M74HC10P	MITJ		DIP	102-105
179♦	74-10	CMOS	PC54HCT10D(A)	MULB		DIP	102- 70
180♦	74-10	CMOS	PC54HCT10D(A)	PHIN		DIP	102- 70
181♦	74-10	CMOS	PC54HCT10D(A)	RTCF		DIP	102- 70
182♦	74-10	CMOS	PC54HCT10D(A)	VALG		DIP	102- 70
183♦	74-10	CMOS	PC54HC10D(A)	MULB		DIP	102- 64
184♦	74-10	CMOS	PC54HC10D(A)	PHIN		DIP	102- 64
185♦	74-10	CMOS	PC54HC10D(A)	RTCF		DIP	102- 64
186♦	74-10	CMOS	PC54HC10D(A)	VALG		DIP	102- 64
187♦	74-10	CMOS	PC74HCT10D(A)	MULB		DIP	102- 71
188♦	74-10	CMOS	PC74HCT10D(A)	PHIN		DIP	102- 71
189♦	74-10	CMOS	PC74HCT10D(A)	RTCF		DIP	102- 71
190♦	74-10	CMOS	PC74HCT10D(A)	VALG		DIP	102- 71
191♦	74-10	CMOS	PC74HCT10P	MULB		DIP	103- 27
192♦	74-10	CMOS	PC74HCT10P	PHIN		DIP	103- 27
193♦	74-10	CMOS	PC74HCT10P	RTCF		DIP	103- 27
194♦	74-10	CMOS	PC74HCT10P	VALG		DIP	103- 27
195♦	74-10	CMOS	PC74HCT10T	MULB	*	SO	103- 28
196♦	74-10	CMOS	PC74HCT10T	PHIN	*	SO	103- 28
197♦	74-10	CMOS	PC74HCT10T	RTCF	*	SO	103- 28
198♦	74-10	CMOS	PC74HCT10T	VALG	*	SO	103- 28
199♦	74-10	CMOS	PC74HC10D(A)	MULB		DIP	102- 65
200♦	74-10	CMOS	PC74HC10D(A)	PHIN		DIP	102- 65
201♦	74-10	CMOS	PC74HC10D(A)	RTCF		DIP	102- 65
202♦	74-10	CMOS	PC74HC10D(A)	VALG		DIP	102- 65
203♦	74-10	CMOS	PC74HC10P	MULB		DIP	103- 18
204♦	74-10	CMOS	PC74HC10P	PHIN		DIP	103- 18
205♦	74-10	CMOS	PC74HC10P	RTCF		DIP	103- 18
206♦	74-10	CMOS	PC74HC10P	VALG		DIP	103- 18
207♦	74-10	CMOS	PC74HC10T	MULB	*	SO	103- 19
208♦	74-10	CMOS	PC74HC10T	PHIN	*	SO	103- 19
209♦	74-10	CMOS	PC74HC10T	RTCF	*	SO	103- 19
210♦	74-10	CMOS	PC74HC10T	VALG	*	SO	103- 19
211♦	74-10	TTL	DM54ALS10AJ	NSC		DIP	102- 92
212♦	74-10	TTL	DM54AS10J	NSC		DIP	102- 46
213♦	74-10	TTL	DM54LS10J	NSC		DIP	102- 96
214♦	74-10	TTL	DM74ALS10AJ	NSC		DIP	102- 87
215♦	74-10	TTL	DM74ALS10AN	NSC		DIP	102- 88
216♦	74-10	TTL	DM74AS10J	NSC		DIP	102- 42
217♦	74-10	TTL	DM74AS10N	NSC		DIP	102- 43
218♦	74-10	TTL	DM74LS10N	NSC		DIP	102- 97
219♦	74-10	TTL	DN74LS10P1	MATJ		DIP	102- 98
220♦	74-10	TTL	DN74LS10P4	MATJ	*	SO	102- 99

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-10	TTL	M74ALS10AP	MITJ		DIP	102- 89
2♦	74-10	TTL	N74F10D	MULB	*	SO	102- 56
3♦	74-10	TTL	N74F10D	PHIN	*	SO	102- 56
4♦	74-10	TTL	N74F10D	RTCF	*	SO	102- 56
5♦	74-10	TTL	N74F10D	SIC	*	SO	102- 56
6♦	74-10	TTL	N74F10D	VALG	*	SO	102- 56
7♦	74-10	TTL	N74F10N	MULB		DIP	102- 58
8♦	74-10	TTL	N74F10N	PHIN		DIP	102- 58
9♦	74-10	TTL	N74F10N	RTCF		DIP	102- 58
10♦	74-10	TTL	N74F10N	SIC		DIP	102- 58
11♦	74-10	TTL	N74F10N	VALG		DIP	102- 58
12♦	74-10	TTL	SN54ALS10AJ	TII		DIP	102-106
13▼	74-10	TTL	SN74ALS10AD	TII	*	SO	102- 90
14♦	74-10	TTL	SN74ALS10AN	TII		DIP	102- 91
15♦	74-10	TTL	SN74LS10D	TII	*	SO	102-104
16♦	74-10	TTL	SN74S10D	TII	*	SO	102- 50
17♦	74-10N	CMOS	CD54HCT10F	RCA		DIP	103- 17
18♦	74-10N	CMOS	CD54HC10F	RCA		DIP	103- 16
19♦	74-10N	CMOS	CD74HCT10E(A)	RCA		DIP	103- 6
20♦	74-10N	CMOS	CD74HCT10M	RCA	*	SO	103- 7
21♦	74-10N	CMOS	CD74HC10E	RCA		DIP	103- 4
22♦	74-10N	CMOS	CD74HC10M	RCA	*	SO	103- 5
23▼	74-10N	CMOS	HD74HC10FP	HITJ	*	SO	102- 68
24▼	74-10N	CMOS	HD74HC10P	HITJ		DIP	102- 69
25♦	74-10N	CMOS	MC54HC10J(A)	MOTA		DIP	101- 73
26♦	74-10N	CMOS	MC74HC10J(A)	MOTA		DIP	101- 76
27♦	74-10N	CMOS	MC74HC10N(A)	MOTA		DIP	101- 77
28♦	74-10N	CMOS	MM54C10D	NSC		DIP	101- 84
29♦	74-10N	CMOS	MM54HC10J(A)	NSC		DIP	101- 85
30♦	74-10N	CMOS	MM74C10N	NSC		DIP	101- 86
31♦	74-10N	CMOS	MM74HC10J	NSC		DIP	101- 87
32♦	74-10N	CMOS	MM74HC10N(A)	NSC		DIP	101- 88
33♦	74-10N	CMOS	SN54HC10J	TII		DIP	103- 20
34▼	74-10N	CMOS	SN74HC10D	TII	*	SO	103- 13
35♦	74-10N	CMOS	SN74HC10N	TII		DIP	103- 14
36♦	74-10N	CMOS	TC40H010P	IMTM		DIP	102- 39
37♦	74-10N	CMOS	TC40H010P	TOSJ		DIP	102- 39
38▼	74-10N	CMOS	TC74HC10F(A)	TOSA	*	SO	103- 11
39♦	74-10N	CMOS	TC74HC10P(A)	TOSA		DIP	103- 12
40♦	74-10N	CMOS	TC74HC10P(A)	TOSJ		DIP	103- 12
41♦	74-10N	CMOS	US74HCT10N(A)	UNV		DIP	102- 40
42♦	74-10N	DTL	E303F2	SGSI		DIP	101- 58
43♦	74-10N	DTL	E303F7	SGSI		DIP	101- 59
44▼	74-10N	DTL	MC862L	MOTA		DIP	101- 78
45▼	74-10N	DTL	MC862P	MOTA		DIP	101- 79
46▼	74-10N	DTL	MC863L	MOTA		DIP	101- 80
47▼	74-10N	DTL	MC863P	MOTA		DIP	101- 81
48♦	74-10N	DTL	MC962L	MOTA		DIP	101- 82
49♦	74-10N	DTL	MC963L	MOTA		DIP	101- 83
50♦	74-10N	DTL	SFC962E	THEF		DIP	102- 18
51♦	74-10N	DTL	962DM	FSC		DIP	101- 29
52♦	74-10N	DTL	963DC	FSC		DIP	101- 30
53♦	74-10N	DTL	963DM	FSC		DIP	101- 31
54♦	74-10N	DTL	9962BC	SGSI		DIP	101- 39
55♦	74-10N	DTL	9962DC	SGSI		DIP	101- 40
56♦	74-10N	DTL	9962DM	SGSI		DIP	101- 41
57♦	74-10N	TTL	DM54H10J	NSC		DIP	101- 43
58♦	74-10N	TTL	DM54L10J	NSC		DIP	101- 44
59♦	74-10N	TTL	DM5410J	NSC		DIP	101- 52
60♦	74-10N	TTL	DM74H10N	NSC		DIP	101- 48
61♦	74-10N	TTL	DM74L10N	NSC		DIP	101- 49
62♦	74-10N	TTL	DM74S10N	NSC		DIP	101- 51
63♦	74-10N	TTL	DM7410N	NSC		DIP	101- 53
64♦	74-10N	TTL	DM9003CJ	NSC		DIP	101- 54
65♦	74-10N	TTL	DM9003CN	NSC		DIP	101- 55
66♦	74-10N	TTL	FJH121-7410	PHIN		DIP	101- 60
67▼	74-10N	TTL	HD74LS10G	HITJ		DIP	102-100
68♦	74-10N	TTL	HD74LS10P	HITJ		DIP	102-101
69♦	74-10N	TTL	MB602	FCAJ		DIP	101- 70
70♦	74-10N	TTL	MB74LS10	FCAJ		DIP	101- 66
71♦	74-10N	TTL	MB74LS10M	FCAJ		DIP	101- 67
72♦	74-10N	TTL	MC54F10J	MOTA		DIP	101- 71
73▼	74-10N	TTL	MC54F10N	MOTA		DIP	101- 72
74♦	74-10N	TTL	MC74F10J	MOTA		DIP	101- 74
75♦	74-10N	TTL	MC74F10N	MOTA		DIP	101- 75
76♦	74-10N	TTL	M53210P	MITJ		DIP	101- 65
77♦	74-10N	TTL	M74ALS10P	MITA		DIP	101- 61
78♦	74-10N	TTL	M74LS10P	MITA		DIP	101- 63
79♦	74-10N	TTL	M74LS10P	MITJ		DIP	101- 63
80♦	74-10N	TTL	N74F10F	VALG		DIP	102- 57
81♦	74-10N	TTL	N74H10F	MULB		DIP	101- 90
82♦	74-10N	TTL	N74H10F	PHIN		DIP	101- 90
83♦	74-10N	TTL	N74H10F	VALG		DIP	101- 90
84♦	74-10N	TTL	N74H10N	MULB		DIP	101- 91
85♦	74-10N	TTL	N74H10N	PHIN		DIP	101- 91
86♦	74-10N	TTL	N74H10N	VALG		DIP	101- 91
87♦	74-10N	TTL	N74LS10D	MULB	*	SO	101- 92
88♦	74-10N	TTL	N74LS10D	PHIN	*	SO	101- 92
89♦	74-10N	TTL	N74LS10D	RTCF	*	SO	101- 92
90♦	74-10N	TTL	N74LS10D	SIC	*	SO	101- 92
91♦	74-10N	TTL	N74LS10D	VALG	*	SO	101- 92
92♦	74-10N	TTL	N74LS10N	MULB		DIP	101- 93
93♦	74-10N	TTL	N74LS10N	PHIN		DIP	101- 93
94♦	74-10N	TTL	N74LS10N	RTCF		DIP	101- 93
95♦	74-10N	TTL	N74LS10N	SIC		DIP	101- 93
96♦	74-10N	TTL	N74LS10N	VALG		DIP	101- 93
97♦	74-10N	TTL	N74S10D	MULB	*	SO	101- 96
98♦	74-10N	TTL	N74S10D	PHIN	*	SO	101- 96
99♦	74-10N	TTL	N74S10D	RTCF	*	SO	101- 96
100♦	74-10N	TTL	N74S10D	SIC	*	SO	101- 96
101♦	74-10N	TTL	N74S10D	VALG	*	SO	101- 96
102♦	74-10N	TTL	N74S10N	MULB		DIP	101- 97
103♦	74-10N	TTL	N74S10N	PHIN		DIP	101- 97
104♦	74-10N	TTL	N74S10N	RTCF		DIP	101- 97
105♦	74-10N	TTL	N74S10N	SIC		DIP	101- 97
106♦	74-10N	TTL	N74S10N	VALG		DIP	101- 97
107♦	74-10N	TTL	N7410F	MULB		DIP	101- 98
108♦	74-10N	TTL	N7410F	PHIN		DIP	101- 98
109♦	74-10N	TTL	N7410F	RTCF		DIP	101- 98
110♦	74-10N	TTL	N7410F	VALG		DIP	101- 98
111♦	74-10N	TTL	N7410N	MULB		DIP	101- 99
112♦	74-10N	TTL	N7410N	PHIN		DIP	101- 99
113♦	74-10N	TTL	N7410N	RTCF		DIP	101- 99
114♦	74-10N	TTL	N7410N	SIC		DIP	101- 99
115♦	74-10N	TTL	N7410N	VALG		DIP	101- 99
116♦	74-10N	TTL	N8H70A	MULB		DIP	101- 89
117♦	74-10N	TTL	N8H70A	PHIN		DIP	101- 89
118♦	74-10N	TTL	N8470A	MULB		DIP	101-102
119♦	74-10N	TTL	N8470A	PHIN		DIP	101-102
120♦	74-10N	TTL	N8470F	MULB		DIP	101-103
121♦	74-10N	TTL	N8470F	PHIN		DIP	101-103
122♦	74-10N	TTL	N8870A	MULB		DIP	101-105
123♦	74-10N	TTL	N8870A	PHIN		DIP	101-105
124♦	74-10N	TTL	N8870F	MULB		DIP	101-106
125♦	74-10N	TTL	N8870F	PHIN		DIP	101-106
126♦	74-10N	TTL	SFC410E	THEF		DIP	102- 10
127♦	74-10N	TTL	SFC410EM	THEF		DIP	102- 11
128♦	74-10N	TTL	SFC410ET	THEF		DIP	102- 12
129♦	74-10N	TTL	SFC410HE	THEF		DIP	102- 13
130♦	74-10N	TTL	SFC410HEM	THEF		DIP	102- 14
131♦	74-10N	TTL	SFC410LE	THEF		DIP	102- 15
132♦	74-10N	TTL	SFC410LEM	THEF		DIP	102- 16
133♦	74-10N	TTL	SFC410LPM	THEF		DIP	102- 17
134♦	74-10N	TTL	SN54AS10J	TII		DIP	102- 49
135♦	74-10N	TTL	SN54LS10J	MOTA		DIP	102- 19
136♦	74-10N	TTL	SN54LS10J	TII		DIP	102- 19
137▼	74-10N	TTL	SN54LS10N	MOTA		DIP	102- 20
138♦	74-10N	TTL	SN54S10J	TII		DIP	102- 23
139♦	74-10N	TTL	SN5410J	TII		DIP	102- 32
140▼	74-10N	TTL	SN74AS10D	TII	*	SO	102- 44
141♦	74-10N	TTL	SN74AS10N	TII		DIP	102- 45
142♦	74-10N	TTL	SN74H10N	TII		DIP	102- 25
143♦	74-10N	TTL	SN74LS10J	MOTA		DIP	102- 26
144♦	74-10N	TTL	SN74LS10N	MOTA		DIP	102- 27
145♦	74-10N	TTL	SN74LS10N	TII		DIP	102- 27
146♦	74-10N	TTL	SN74S10N	TII		DIP	102- 31
147♦	74-10N	TTL	SN7410N	TII		DIP	102- 34
148♦	74-10N	TTL	S54F10F	MULB		DIP	101-108
149♦	74-10N	TTL	S54F10F	PHIN		DIP	101-108
150♦	74-10N	TTL	S54F10F	RTCF		DIP	101-108
151♦	74-10N	TTL	S54F10F	VALG		DIP	101-108
152♦	74-10N	TTL	S54H10F	MULB		DIP	101-109
153♦	74-10N	TTL	S54H10F	PHIN		DIP	101-109
154♦	74-10N	TTL	S54H10F	VALG		DIP	101-109
155♦	74-10N	TTL	S54LS10F	MULB		DIP	101-110
156♦	74-10N	TTL	S54LS10F	PHIN		DIP	101-110
157♦	74-10N	TTL	S54LS10F	RTCF		DIP	101-110
158♦	74-10N	TTL	S54LS10F	SIC		DIP	101-110
159♦	74-10N	TTL	S54LS10F	VALG		DIP	101-110
160♦	74-10N	TTL	S54S10F	MULB		DIP	102- 2
161♦	74-10N	TTL	S54S10F	PHIN		DIP	102- 2
162♦	74-10N	TTL	S54S10F	RTCF		DIP	102- 2
163♦	74-10N	TTL	S54S10F	SIC		DIP	102- 2
164♦	74-10N	TTL	S54S10F	VALG		DIP	102- 2
165♦	74-10N	TTL	S5410F	MULB		DIP	102- 3
166♦	74-10N	TTL	S5410F	PHIN		DIP	102- 3
167♦	74-10N	TTL	S5410F	VALG		DIP	102- 3
168♦	74-10N	TTL	S8H70A	MULB		DIP	101-107
169♦	74-10N	TTL	S8H70A	PHIN		DIP	101-107
170♦	74-10N	TTL	S8470A	MULB		DIP	102- 5
171♦	74-10N	TTL	S8470A	PHIN		DIP	102- 5
172♦	74-10N	TTL	S8470F	MULB		DIP	102- 6
173♦	74-10N	TTL	S8470F	PHIN		DIP	102- 6
174♦	74-10N	TTL	S8870A	MULB		DIP	102- 8
175♦	74-10N	TTL	S8870A	PHIN		DIP	102- 8
176♦	74-10N	TTL	S8870F	MULB		DIP	102- 9
177♦	74-10N	TTL	S8870F	PHIN		DIP	102- 9
178♦	74-10N	TTL	T54LS10D2	SGSI		DIP	102- 36
179♦	74-10N	TTL	T74LS10B1	SGSI		DIP	102- 37
180♦	74-10N	TTL	T74LS10D1	SGSI		DIP	102- 38
181♦	74-10N	TTL	54F10DM	FSC		DIP	101- 17
182♦	74-10N	TTL	54H10DM	FSC		DIP	101- 18
183♦	74-10N	TTL	54LS10DM	FSC		DIP	101- 19
184♦	74-10N	TTL	54S10DM	FSC		DIP	101- 20
185♦	74-10N	TTL	5410DM	FSC		DIP	101- 32
186♦	74-10N	TTL	74F10DC	FSC		DIP	101- 21
187♦	74-10N	TTL	74F10PC	FSC		DIP	101- 22
188♦	74-10N	TTL	74H10DC	FSC		DIP	101- 23
189♦	74-10N	TTL	74H10PC	FSC		DIP	101- 24
190♦	74-10N	TTL	74LS10DC	FSC		DIP	101- 25
191♦	74-10N	TTL	74LS10PC	FSC		DIP	101- 26
192♦	74-10N	TTL	74S10DC	FSC		DIP	101- 27
193♦	74-10N	TTL	74S10PC	FSC		DIP	101- 28
194♦	74-10N	TTL	7410DC	FSC		DIP	101- 34
195♦	74-10N	TTL	7410PC	FSC		DIP	101- 35
196♦	74-10N	TTL	9003DC	FSC		DIP	101- 37
197♦	74-10N	TTL	9003DM	FSC		DIP	101- 38
198♦	74S10	CMOS	UPD74HC10C(A)	NECJ		DIP	103- 10
199♦	74-11	CMOS	LC74HC11	TSAJ		DIP	80- 64
200♦	74-11	CMOS	MC54HC11J(A)	MOTA		DIP	79- 84
201♦	74-11	CMOS	MC74HC11J(A)	MOTA		DIP	79- 87
202♦	74-11	CMOS	MC74HC11N(A)	MOTA		DIP	79- 88
203♦	74-11	CMOS	M54HC11F1(A)	SGSI		DIP	79- 70
204♦	74-11	CMOS	M74HC11B1(A)	SGSI		DIP	79- 73
205♦	74-11	CMOS	M74HC11F1(A)	SGSI		DIP	79- 75
206♦	74-11	CMOS	PC54HCT11D(A)	MULB		DIP	79-104
207♦	74-11	CMOS	PC54HCT11D(A)	PHIN		DIP	79-104
208♦	74-11	CMOS	PC54HCT11D(A)	RTCF		DIP	79-104
209♦	74-11	CMOS	PC54HCT11D(A)	VALG		DIP	79-104
210♦	74-11	CMOS	PC54HC11D(A)	MULB		DIP	79-103
211♦	74-11	CMOS	PC54HC11D(A)	PHIN		DIP	79-103
212♦	74-11	CMOS	PC54HC11D(A)	RTCF		DIP	79-103
213♦	74-11	CMOS	PC54HC11D(A)	VALG		DIP	79-103
214♦	74-11	CMOS	PC74HCT11D(A)	MULB		DIP	79-106
215♦	74-11	CMOS	PC74HCT11D(A)	PHIN		DIP	79-106
216♦	74-11	CMOS	PC74HCT11D(A)	RTCF		DIP	79-106
217♦	74-11	CMOS	PC74HCT11D(A)	VALG		DIP	79-106
218♦	74-11	CMOS	PC74HCT11P	MULB		DIP	80- 94
219♦	74-11	CMOS	PC74HCT11P	PHIN		DIP	80- 94
220♦	74-11	CMOS	PC74HCT11P	RTCF		DIP	80- 94

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-11	CMOS	PC74HCT11P	VALG		DIP	80- 94
2♦	74-11	CMOS	PC74HCT11T	MULB	*	SO	80- 95
3♦	74-11	CMOS	PC74HCT11T	PHIN	*	SO	80- 95
4♦	74-11	CMOS	PC74HCT11T	RTCF	*	SO	80- 95
5♦	74-11	CMOS	PC74HCT11T	VALG	*	SO	80- 95
6♦	74-11	CMOS	PC74HC11D(A)	MULB		DIP	79-105
7♦	74-11	CMOS	PC74HC11D(A)	PHIN		DIP	79-105
8♦	74-11	CMOS	PC74HC11D(A)	RTCF		DIP	79-105
9♦	74-11	CMOS	PC74HC11D(A)	VALG		DIP	79-105
10♦	74-11	CMOS	PC74HC11P	MULB		DIP	80- 80
11♦	74-11	CMOS	PC74HC11P	PHIN		DIP	80- 80
12♦	74-11	CMOS	PC74HC11P	RTCF		DIP	80- 80
13♦	74-11	CMOS	PC74HC11P	VALG		DIP	80- 80
14♦	74-11	CMOS	PC74HC11T	MULB	*	SO	80- 81
15♦	74-11	CMOS	PC74HC11T	PHIN	*	SO	80- 81
16♦	74-11	CMOS	PC74HC11T	RTCF	*	SO	80- 81
17♦	74-11	CMOS	PC74HC11T	VALG	*	SO	80- 81
18♦	74-11	TTL	DM54ALS11AJ	NSC		DIP	79- 47
19♦	74-11	TTL	DM54AS11J	NSC		DIP	79- 49
20♦	74-11	TTL	DM54LS11J	NSC		DIP	79- 51
21♦	74-11	TTL	DM74ALS11AJ	NSC		DIP	79- 53
22♦	74-11	TTL	DM74ALS11AN	NSC		DIP	79- 54
23♦	74-11	TTL	DM74AS11J	NSC		DIP	79- 57
24♦	74-11	TTL	DM74AS11N	NSC		DIP	79- 58
25♦	74-11	TTL	DM74LS11N	NSC		DIP	79- 60
26♦	74-11	TTL	DN74LS11P1	MATJ		DIP	79- 66
27♦	74-11	TTL	DN74LS11P4	MATJ	*	SO	79- 67
28♦	74-11	TTL	M74ALS11AP	MITJ		DIP	80- 58
29♦	74-11	TTL	N74F11D	MULB	*	SO	80- 40
30♦	74-11	TTL	N74F11D	PHIN	*	SO	80- 40
31♦	74-11	TTL	N74F11D	RTCF	*	SO	80- 40
32♦	74-11	TTL	N74F11D	SIC	*	SO	80- 40
33♦	74-11	TTL	N74F11D	VALG	*	SO	80- 40
34♦	74-11	TTL	N74F11N	MULB		DIP	80- 41
35♦	74-11	TTL	N74F11N	PHIN		DIP	80- 41
36♦	74-11	TTL	N74F11N	RTCF		DIP	80- 41
37♦	74-11	TTL	N74F11N	SIC		DIP	80- 41
38♦	74-11	TTL	N74F11N	VALG		DIP	80- 41
39♦	74-11	TTL	SN54ALS11AJ	TII		DIP	80- 61
40▼	74-11	TTL	SN74ALS11AD	TII	*	SO	80- 59
41♦	74-11	TTL	SN74ALS11AN	TII		DIP	80- 60
42♦	74-11	TTL	SN74LS11D	TII	*	SO	80- 15
43♦	74-11	TTL	SN74S11D	TII	*	SO	80- 21
44♦	74-11N	CMOS	CD54HCT11F	RCA		DIP	80- 75
45♦	74-11N	CMOS	CD54HC11F	RCA		DIP	80- 74
46♦	74-11N	CMOS	CD74HCT11E	RCA		DIP	80- 70
47♦	74-11N	CMOS	CD74HCT11M	RCA	*	SO	80- 71
48♦	74-11N	CMOS	CD74HC11E	RCA		DIP	80- 68
49♦	74-11N	CMOS	CD74HC11M	RCA	*	SO	80- 69
50▼	74-11N	CMOS	HD74HC11FP	HITJ	*	SO	80- 47
51▼	74-11N	CMOS	HD74HC11P	HITJ		DIP	80- 48
52♦	74-11N	CMOS	SN54HC11J	TII		DIP	80- 82
53▼	74-11N	CMOS	SN74HC11D	TII	*	SO	80- 72
54♦	74-11N	CMOS	SN74HC11N	TII		DIP	80- 73
55♦	74-11N	CMOS	TC40H011P	IMTM		DIP	80- 31
56♦	74-11N	CMOS	TC40H011P	TOSJ		DIP	80- 31
57▼	74-11N	CMOS	TC74HC11F(A)	TOSA	*	SO	80- 78
58♦	74-11N	CMOS	TC74HC11P(A)	TOSA		DIP	80- 79
59♦	74-11N	CMOS	TC74HC11P(A)	TOSJ		DIP	80- 79
60♦	74-11N	CMOS	US74HCT11N(A)	UNV		DIP	80- 32
61♦	74-11N	TTL	DM54H11J	NSC		DIP	79- 50
62♦	74-11N	TTL	DM5411J	NSC		DIP	79- 64
63♦	74-11N	TTL	DM74H11N	NSC		DIP	79- 59
64♦	74-11N	TTL	DM74S11N	NSC		DIP	79- 62
65♦	74-11N	TTL	DM7411N	NSC		DIP	79- 65
66▼	74-11N	TTL	HD74LS11G	HITJ		DIP	80- 62
67♦	74-11N	TTL	HD74LS11P	HITJ		DIP	80- 63
68♦	74-11N	TTL	MB74LS11	FCAJ		DIP	79- 78
69♦	74-11N	TTL	MB74LS11M	FCAJ		DIP	79- 79
70♦	74-11N	TTL	MC54F11J(A)	MOTA		DIP	79- 82
71▼	74-11N	TTL	MC54F11N(A)	MOTA		DIP	79- 83
72♦	74-11N	TTL	MC74F11J(A)	MOTA		DIP	79- 85
73♦	74-11N	TTL	MC74F11N(A)	MOTA		DIP	79- 86
74♦	74-11N	TTL	M74ALS11P	MITA		DIP	79- 71
75♦	74-11N	TTL	M74LS11P	MITA		DIP	79- 76
76♦	74-11N	TTL	M74LS11P	MITJ		DIP	79- 76
77♦	74-11N	TTL	N74F11F	VALG		DIP	80- 35
78♦	74-11N	TTL	N74H11F	MULB		DIP	79- 89
79♦	74-11N	TTL	N74H11F	PHIN		DIP	79- 89
80♦	74-11N	TTL	N74H11F	VALG		DIP	79- 89
81♦	74-11N	TTL	N74H11N	MULB		DIP	79- 90
82♦	74-11N	TTL	N74H11N	PHIN		DIP	79- 90
83♦	74-11N	TTL	N74H11N	VALG		DIP	79- 90
84♦	74-11N	TTL	N74LS11D	MULB	*	SO	79- 93
85♦	74-11N	TTL	N74LS11D	PHIN	*	SO	79- 93
86♦	74-11N	TTL	N74LS11D	RTCF	*	SO	79- 93
87♦	74-11N	TTL	N74LS11D	SIC	*	SO	79- 93
88♦	74-11N	TTL	N74LS11D	VALG	*	SO	79- 93
89♦	74-11N	TTL	N74LS11N	MULB		DIP	79- 94
90♦	74-11N	TTL	N74LS11N	PHIN		DIP	79- 94
91♦	74-11N	TTL	N74LS11N	RTCF		DIP	79- 94
92♦	74-11N	TTL	N74LS11N	SIC		DIP	79- 94
93♦	74-11N	TTL	N74LS11N	VALG		DIP	79- 94
94♦	74-11N	TTL	N74S11D	MULB	*	SO	79- 97
95♦	74-11N	TTL	N74S11D	PHIN	*	SO	79- 97
96♦	74-11N	TTL	N74S11D	RTCF	*	SO	79- 97
97♦	74-11N	TTL	N74S11D	SIC	*	SO	79- 97
98♦	74-11N	TTL	N74S11D	VALG	*	SO	79- 97
99♦	74-11N	TTL	N74S11N	MULB		DIP	79- 98
100♦	74-11N	TTL	N74S11N	PHIN		DIP	79- 98
101♦	74-11N	TTL	N74S11N	RTCF		DIP	79- 98
102♦	74-11N	TTL	N74S11N	SIC		DIP	79- 98
103♦	74-11N	TTL	N74S11N	VALG		DIP	79- 98
104♦	74-11N	TTL	N7411F	MULB		DIP	79-101
105♦	74-11N	TTL	N7411F	PHIN		DIP	79-101
106♦	74-11N	TTL	N7411F	RTCF		DIP	79-101
107♦	74-11N	TTL	N7411F	VALG		DIP	79-101
108♦	74-11N	TTL	N7411N	MULB		DIP	79-102
109♦	74-11N	TTL	N7411N	PHIN		DIP	79-102
110♦	74-11N	TTL	N7411N	RTCF		DIP	79-102
111♦	74-11N	TTL	N7411N	SIC		DIP	79-102
112♦	74-11N	TTL	N7411N	VALG		DIP	79-102
113♦	74-11N	TTL	SFC411HE	THEF		DIP	80- 6
114♦	74-11N	TTL	SFC411HEM	THEF		DIP	80- 7
115♦	74-11N	TTL	SN54LS11J	MOTA		DIP	80- 8
116♦	74-11N	TTL	SN54LS11J	TII		DIP	80- 8
117▼	74-11N	TTL	SN54LS11N	MOTA		DIP	80- 9
118♦	74-11N	TTL	SN54S11J	TII		DIP	80- 12
119▼	74-11N	TTL	SN74AS11D	TII	*	SO	80- 38
120♦	74-11N	TTL	SN74AS11N	TII		DIP	80- 39
121♦	74-11N	TTL	SN74H11N	TII		DIP	80- 13
122♦	74-11N	TTL	SN74LS11J	MOTA		DIP	80- 16
123♦	74-11N	TTL	SN74LS11N	MOTA		DIP	80- 17
124♦	74-11N	TTL	SN74LS11N	TII		DIP	80- 17
125♦	74-11N	TTL	SN74S11N	TII		DIP	80- 22
126♦	74-11N	TTL	S54F11F	MULB		DIP	79-107
127♦	74-11N	TTL	S54F11F	PHIN		DIP	79-107
128♦	74-11N	TTL	S54F11F	RTCF		DIP	79-107
129♦	74-11N	TTL	S54F11F	VALG		DIP	79-107
130♦	74-11N	TTL	S54H11F	MULB		DIP	79-108
131♦	74-11N	TTL	S54H11F	PHIN		DIP	79-108
132♦	74-11N	TTL	S54H11F	VALG		DIP	79-108
133♦	74-11N	TTL	S54LS11F	MULB		DIP	80- 1
134♦	74-11N	TTL	S54LS11F	PHIN		DIP	80- 1
135♦	74-11N	TTL	S54LS11F	RTCF		DIP	80- 1
136♦	74-11N	TTL	S54LS11F	VALG		DIP	80- 1
137♦	74-11N	TTL	S54S11F	MULB		DIP	80- 3
138♦	74-11N	TTL	S54S11F	PHIN		DIP	80- 3
139♦	74-11N	TTL	S54S11F	RTCF		DIP	80- 3
140♦	74-11N	TTL	S54S11F	SIC		DIP	80- 3
141♦	74-11N	TTL	S54S11F	VALG		DIP	80- 3
142♦	74-11N	TTL	S5411F	MULB		DIP	80- 5
143♦	74-11N	TTL	S5411F	PHIN		DIP	80- 5
144♦	74-11N	TTL	S5411F	RTCF		DIP	80- 5
145♦	74-11N	TTL	S5411F	SIC		DIP	80- 5
146♦	74-11N	TTL	S5411F	VALG		DIP	80- 5
147♦	74-11N	TTL	T54LS11D2	SGSI		DIP	80- 25
148♦	74-11N	TTL	T74LS11B1	SGSI		DIP	80- 27
149♦	74-11N	TTL	T74LS11D1	SGSI		DIP	80- 28
150♦	74-11N	TTL	54F11DM	FSC		DIP	79- 22
151♦	74-11N	TTL	54H11DM	FSC		DIP	79- 24
152♦	74-11N	TTL	54LS11DM	FSC		DIP	79- 27
153♦	74-11N	TTL	54S11DM	FSC		DIP	79- 28
154♦	74-11N	TTL	5411DM	FSC		DIP	79- 44
155♦	74-11N	TTL	74F11DC	FSC		DIP	79- 30
156♦	74-11N	TTL	74F11PC	FSC		DIP	79- 32
157♦	74-11N	TTL	74H11DC	FSC		DIP	79- 34
158♦	74-11N	TTL	74H11PC	FSC		DIP	79- 35
159♦	74-11N	TTL	74LS11DC	FSC		DIP	79- 38
160♦	74-11N	TTL	74LS11PC	FSC		DIP	79- 39
161♦	74-11N	TTL	74S11DC	FSC		DIP	79- 41
162♦	74-11N	TTL	74S11PC	FSC		DIP	79- 42
163♦	74-11N	TTL	7411DC	FSC		DIP	79- 45
164♦	74-11N	TTL	7411PC	FSC		DIP	79- 46
165♦	74S11	CMOS	UPD74HC11C(A)	NECJ		DIP	80- 55
166♦	74-12	TTL	DM54ALS12AJ	NSC		DIP	101- 42
167♦	74-12	TTL	DM54LS12J	NSC		DIP	101- 45
168♦	74-12	TTL	DM74ALS12AJ	NSC		DIP	101- 46
169♦	74-12	TTL	DM74ALS12AN	NSC		DIP	101- 47
170♦	74-12	TTL	DM74LS12N	NSC		DIP	101- 50
171♦	74-12	TTL	DN74LS12P1	MATJ		DIP	101- 56
172♦	74-12	TTL	DN74LS12P4	MATJ	*	SO	101- 57
173♦	74-12	TTL	M74ALS12AP	MITJ		DIP	103- 74
174♦	74-12	TTL	SN54ALS12AJ	TII		DIP	103- 77
175▼	74-12	TTL	SN74ALS12AD	TII	*	SO	103- 75
176♦	74-12	TTL	SN74ALS12AN	TII		DIP	103- 76
177♦	74-12	TTL	SN74LS12D	TII	*	SO	102- 28
178♦	74-12N	TTL	MB74LS12	FCAJ		DIP	101- 68
179♦	74-12N	TTL	MB74LS12M	FCAJ		DIP	101- 69
180♦	74-12N	TTL	M74ALS12P	MITA		DIP	101- 62
181♦	74-12N	TTL	M74LS12P	MITA		DIP	101- 64
182♦	74-12N	TTL	M74LS12P	MITJ		DIP	101- 64
183♦	74-12N	TTL	N74LS12F	MULB		DIP	101- 94
184♦	74-12N	TTL	N74LS12F	PHIN		DIP	101- 94
185♦	74-12N	TTL	N74LS12F	VALG		DIP	101- 94
186♦	74-12N	TTL	N74LS12N	MULB		DIP	101- 95
187♦	74-12N	TTL	N74LS12N	PHIN		DIP	101- 95
188♦	74-12N	TTL	N74LS12N	RTCF		DIP	101- 95
189♦	74-12N	TTL	N74LS12N	VALG		DIP	101- 95
190♦	74-12N	TTL	N7412F	MULB		DIP	101-100
191♦	74-12N	TTL	N7412F	PHIN		DIP	101-100
192♦	74-12N	TTL	N7412F	VALG		DIP	101-100
193♦	74-12N	TTL	N7412N	MULB		DIP	101-101
194♦	74-12N	TTL	N7412N	PHIN		DIP	101-101
195♦	74-12N	TTL	N7412N	VALG		DIP	101-101
196♦	74-12N	TTL	N8471A	MULB		DIP	101-104
197♦	74-12N	TTL	N8471A	PHIN		DIP	101-104
198♦	74-12N	TTL	SN54LS12J	MOTA		DIP	102- 21
199♦	74-12N	TTL	SN54LS12J	TII		DIP	102- 21
200▼	74-12N	TTL	SN54LS12N	MOTA		DIP	102- 22
201♦	74-12N	TTL	SN5412J	TII		DIP	102- 33
202♦	74-12N	TTL	SN74ALS12J	MOTA		DIP	102- 24
203♦	74-12N	TTL	SN74LS12J	MOTA		DIP	102- 29
204♦	74-12N	TTL	SN74LS12N	MOTA		DIP	102- 30
205♦	74-12N	TTL	SN74LS12N	TII		DIP	102- 30
206♦	74-12N	TTL	SN7412N	TII		DIP	102- 35
207♦	74-12N	TTL	S54LS12F	MULB		DIP	102- 1
208♦	74-12N	TTL	S54LS12F	PHIN		DIP	102- 1
209♦	74-12N	TTL	S54LS12F	VALG		DIP	102- 1
210♦	74-12N	TTL	S5412F	MULB		DIP	102- 4
211♦	74-12N	TTL	S5412F	PHIN		DIP	102- 4
212♦	74-12N	TTL	S5412F	VALG		DIP	102- 4
213♦	74-12N	TTL	S8471A	MULB		DIP	102- 7
214♦	74-12N	TTL	S8471A	PHIN		DIP	102- 7
215♦	74-12N	TTL	5412DM	FSC		DIP	101- 33
216♦	74-12N	TTL	7412DC	FSC		DIP	101- 36
217▼	74-12P	TTL	HD74LS12G	HITJ		DIP	103- 23
218♦	74-12P	TTL	HD74LS12P	HITJ		DIP	103- 24
219♦	74-13	TTL	N74F20N	MULB		DIP	105- 97
220♦	74-13	TTL	N74F20N	PHIN		DIP	105- 97

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-13	TTL	N74F20N	RTCF		DIP	105- 97
2♦	74-13	TTL	N74F20N	SIC		DIP	105- 97
3♦	74-13	TTL	N74F20N	VALG		DIP	105- 97
4♦	74-13	TTL	SN74LS20D	TII	*	SO	106-100
5♦	74-13	TTL	SN74S20D	TII	*	SO	105- 82
6▼	74-13B	TTL	SN74AS20D	TII	*	SO	105- 80
7♦	74-13B	TTL	SN74AS20N	TII		DIP	105- 81
8♦	74-13N	CMOS	MC54HC20J(A)	MOTA		DIP	107- 27
9♦	74-13N	CMOS	MC74HC20J(A)	MOTA		DIP	107- 28
10♦	74-13N	CMOS	MC74HC20N(A)	MOTA		DIP	107- 29
11♦	74-13N	CMOS	MM54C20D	NSC		DIP	107- 89
12♦	74-13N	CMOS	MM54HC20J(A)	NSC		DIP	106- 24
13♦	74-13N	CMOS	MM74C20N	NSC		DIP	107- 90
14♦	74-13N	CMOS	MM74HC20J	NSC		DIP	106- 25
15♦	74-13N	CMOS	MM74HC20N(A)	NSC		DIP	106- 26
16♦	74-13N	CMOS	SN54HC20J	TII		DIP	107- 38
17▼	74-13N	CMOS	SN74HC20D	TII	*	SO	107- 32
18♦	74-13N	CMOS	SN74HC20N	TII		DIP	107- 33
19♦	74-13N	CMOS	TC40H020P	IMTM		DIP	107- 41
20♦	74-13N	CMOS	TC40H020P	TOSJ		DIP	107- 41
21▼	74-13N	CMOS	TC74HC20F(A)	TOSA	*	SO	107- 17
22♦	74-13N	CMOS	TC74HC20P(A)	TOSA		DIP	107- 18
23♦	74-13N	CMOS	TC74HC20P(A)	TOSJ		DIP	107- 18
24♦	74-13N	CMOS	US74HCT20N(A)	UNV		DIP	106-106
25♦	74-13N	TTL	DM54H20J	NSC		DIP	106- 37
26♦	74-13N	TTL	DM54H40J	NSC		DIP	106- 64
27♦	74-13N	TTL	DM54L20J	NSC		DIP	108- 4
28♦	74-13N	TTL	DM5420J	NSC		DIP	107- 19
29♦	74-13N	TTL	DM5440J	NSC		DIP	107- 21
30♦	74-13N	TTL	DM74H20N	NSC		DIP	106- 38
31♦	74-13N	TTL	DM74H40N	NSC		DIP	106- 65
32♦	74-13N	TTL	DM74L20N	NSC		DIP	108- 5
33♦	74-13N	TTL	DM74S20N	NSC		DIP	105- 69
34♦	74-13N	TTL	DM74S40N	NSC		DIP	106- 5
35♦	74-13N	TTL	DM7420N	NSC		DIP	107- 23
36♦	74-13N	TTL	DM7440N	NSC		DIP	107- 24
37♦	74-13N	TTL	DM9004CJ	NSC		DIP	106- 80
38♦	74-13N	TTL	DM9004CN	NSC		DIP	106- 81
39♦	74-13N	TTL	DM9009CJ	NSC		DIP	106-103
40♦	74-13N	TTL	DM9009CN	NSC		DIP	106-104
41♦	74-13N	TTL	FJH111-7420	PHIN		DIP	106- 60
42♦	74-13N	TTL	FJH141-7440	PHIN		DIP	106- 61
43▼	74-13N	TTL	HD74LS20G	HITJ		DIP	95- 48
44♦	74-13N	TTL	HD74LS20P	HITJ		DIP	106- 82
45♦	74-13N	TTL	MB404	FCAJ		DIP	106- 39
46♦	74-13N	TTL	MB404M	FCAJ		DIP	106- 40
47♦	74-13N	TTL	MB603	FCAJ		DIP	106- 12
48♦	74-13N	TTL	MB605	FCAJ		DIP	106- 13
49♦	74-13N	TTL	MB74LS20	FCAJ		DIP	106- 84
50♦	74-13N	TTL	MB74LS20M	FCAJ		DIP	106- 85
51▼	74-13N	TTL	MC3025L	MOTA		DIP	105- 90
52▼	74-13N	TTL	MC3025P	MOTA		DIP	105- 91
53♦	74-13N	TTL	MC54F20J	MOTA		DIP	105- 70
54▼	74-13N	TTL	MC54F20N	MOTA		DIP	105- 71
55♦	74-13N	TTL	MC74F20J	MOTA		DIP	105- 72
56♦	74-13N	TTL	MC74F20N	MOTA		DIP	105- 73
57♦	74-13N	TTL	M53220P	MITJ		DIP	106- 68
58♦	74-13N	TTL	M74ALS20AP	MITA		DIP	106- 66
59♦	74-13N	TTL	M74ALS20AP	MITJ		DIP	106- 66
60♦	74-13N	TTL	M74LS20P	MITA		DIP	106- 83
61♦	74-13N	TTL	M74LS20P	MITJ		DIP	106- 83
62♦	74-13N	TTL	N74F20F	VALG		DIP	105- 96
63♦	74-13N	TTL	N74H20F	MULB		DIP	106- 41
64♦	74-13N	TTL	N74H20F	PHIN		DIP	106- 41
65♦	74-13N	TTL	N74H20F	VALG		DIP	106- 41
66♦	74-13N	TTL	N74H20N	MULB		DIP	106- 42
67♦	74-13N	TTL	N74H20N	PHIN		DIP	106- 42
68♦	74-13N	TTL	N74H20N	VALG		DIP	106- 42
69♦	74-13N	TTL	N74LS20D	MULB	*	SO	106- 86
70♦	74-13N	TTL	N74LS20D	PHIN	*	SO	106- 86
71♦	74-13N	TTL	N74LS20D	RTCF	*	SO	106- 86
72♦	74-13N	TTL	N74LS20D	SIC	*	SO	106- 86
73♦	74-13N	TTL	N74LS20D	VALG	*	SO	106- 86
74♦	74-13N	TTL	N74LS20N	MULB		DIP	106- 87
75♦	74-13N	TTL	N74LS20N	PHIN		DIP	106- 87
76♦	74-13N	TTL	N74LS20N	RTCF		DIP	106- 87
77♦	74-13N	TTL	N74LS20N	SIC		DIP	106- 87
78♦	74-13N	TTL	N74LS20N	VALG		DIP	106- 87
79♦	74-13N	TTL	N74S20D	MULB	*	SO	105- 74
80♦	74-13N	TTL	N74S20D	PHIN	*	SO	105- 74
81♦	74-13N	TTL	N74S20D	RTCF	*	SO	105- 74
82♦	74-13N	TTL	N74S20D	SIC	*	SO	105- 74
83♦	74-13N	TTL	N74S20D	VALG	*	SO	105- 74
84♦	74-13N	TTL	N74S20N	MULB		DIP	105- 75
85♦	74-13N	TTL	N74S20N	PHIN		DIP	105- 75
86♦	74-13N	TTL	N74S20N	RTCF		DIP	105- 75
87♦	74-13N	TTL	N74S20N	SIC		DIP	105- 75
88♦	74-13N	TTL	N74S20N	VALG		DIP	105- 75
89♦	74-13N	TTL	N7420F	MULB		DIP	107- 9
90♦	74-13N	TTL	N7420F	PHIN		DIP	107- 9
91♦	74-13N	TTL	N7420F	RTCF		DIP	107- 9
92♦	74-13N	TTL	N7420F	VALG		DIP	107- 9
93♦	74-13N	TTL	N7420N	MULB		DIP	107- 10
94♦	74-13N	TTL	N7420N	PHIN		DIP	107- 10
95♦	74-13N	TTL	N7420N	RTCF		DIP	107- 10
96♦	74-13N	TTL	N7420N	SIC		DIP	107- 10
97♦	74-13N	TTL	N7420N	VALG		DIP	107- 10
98♦	74-13N	TTL	N8H16A	MULB		DIP	105- 92
99♦	74-13N	TTL	N8H16A	PHIN		DIP	105- 92
100♦	74-13N	TTL	N8H16F	MULB		DIP	105- 93
101♦	74-13N	TTL	N8H16F	PHIN		DIP	105- 93
102♦	74-13N	TTL	N8455A	MULB		DIP	107-107
103♦	74-13N	TTL	N8455A	PHIN		DIP	107-107
104♦	74-13N	TTL	N8455F	MULB		DIP	107-108
105♦	74-13N	TTL	N8455F	PHIN		DIP	107-108
106♦	74-13N	TTL	N8855A	MULB		DIP	106- 88
107♦	74-13N	TTL	N8855A	PHIN		DIP	106- 88
108♦	74-13N	TTL	N8855F	MULB		DIP	106- 89
109♦	74-13N	TTL	N8855F	PHIN		DIP	106- 89
110♦	74-13N	TTL	SFC420E	THEF		DIP	106- 75
111♦	74-13N	TTL	SFC420EM	THEF		DIP	107- 13
112♦	74-13N	TTL	SFC420ET	THEF		DIP	107- 14
113♦	74-13N	TTL	SFC420HE	THEF		DIP	106- 3
114♦	74-13N	TTL	SFC420HEM	THEF		DIP	106- 57
115♦	74-13N	TTL	SFC420LE	THEF		DIP	107- 86
116♦	74-13N	TTL	SFC420LEM	THEF		DIP	107- 87
117♦	74-13N	TTL	SN54ALS20AJ	TII		DIP	106- 77
118♦	74-13N	TTL	SN54AS20J	TII		DIP	105- 84
119♦	74-13N	TTL	SN54LS20J	MOTA		DIP	106- 98
120♦	74-13N	TTL	SN54LS20J	TII		DIP	106- 98
121▼	74-13N	TTL	SN54LS20N	MOTA		DIP	106- 99
122♦	74-13N	TTL	SN54S20J	TII		DIP	105- 79
123▼	74-13N	TTL	SN54S40J	TII		DIP	105- 65
124♦	74-13N	TTL	SN5420J	TII		DIP	107- 15
125▼	74-13N	TTL	SN74ALS20AD	TII	*	SO	106- 62
126♦	74-13N	TTL	SN74ALS20AN	TII		DIP	106- 63
127♦	74-13N	TTL	SN74H20N	TII		DIP	106- 58
128▼	74-13N	TTL	SN74LS18D	MOTA		DIP	107- 77
129▼	74-13N	TTL	SN74LS18J	MOTA		DIP	107- 79
130▼	74-13N	TTL	SN74LS18N	MOTA		DIP	107- 80
131▼	74-13N	TTL	SN74LS18N	TII		DIP	107- 80
132♦	74-13N	TTL	SN74LS20J	MOTA		DIP	106-101
133♦	74-13N	TTL	SN74LS20N	MOTA		DIP	106-102
134♦	74-13N	TTL	SN74LS20N	TII		DIP	106-102
135♦	74-13N	TTL	SN74S20N	TII		DIP	105- 83
136♦	74-13N	TTL	SN7420N	TII		DIP	107- 16
137♦	74-13N	TTL	S54F20F	MULB		DIP	106- 16
138♦	74-13N	TTL	S54F20F	PHIN		DIP	106- 16
139♦	74-13N	TTL	S54F20F	RTCF		DIP	106- 16
140♦	74-13N	TTL	S54F20F	SIC		DIP	106- 16
141♦	74-13N	TTL	S54F20F	VALG		DIP	106- 16
142♦	74-13N	TTL	S54H20F	MULB		DIP	106- 55
143♦	74-13N	TTL	S54H20F	PHIN		DIP	106- 55
144♦	74-13N	TTL	S54H20F	VALG		DIP	106- 55
145♦	74-13N	TTL	S54LS20F	MULB		DIP	106- 92
146♦	74-13N	TTL	S54LS20F	PHIN		DIP	106- 92
147♦	74-13N	TTL	S54LS20F	RTCF		DIP	106- 92
148♦	74-13N	TTL	S54LS20F	SIC		DIP	106- 92
149♦	74-13N	TTL	S54LS20F	VALG		DIP	106- 92
150♦	74-13N	TTL	S54S140A	MULB		DIP	106- 6
151♦	74-13N	TTL	S54S140A	PHIN		DIP	106- 6
152♦	74-13N	TTL	S54S20F	MULB		DIP	105- 77
153♦	74-13N	TTL	S54S20F	PHIN		DIP	105- 77
154♦	74-13N	TTL	S54S20F	RTCF		DIP	105- 77
155♦	74-13N	TTL	S54S20F	SIC		DIP	105- 77
156♦	74-13N	TTL	S54S20F	VALG		DIP	105- 77
157♦	74-13N	TTL	S5420F	MULB		DIP	107- 11
158♦	74-13N	TTL	S5420F	PHIN		DIP	107- 11
159♦	74-13N	TTL	S5420F	RTCF		DIP	107- 11
160♦	74-13N	TTL	S5420F	SIC		DIP	107- 11
161♦	74-13N	TTL	S5420F	VALG		DIP	107- 11
162♦	74-13N	TTL	S8H16A	MULB		DIP	105-110
163♦	74-13N	TTL	S8H16A	PHIN		DIP	105-110
164♦	74-13N	TTL	S8H16F	MULB		DIP	106- 1
165♦	74-13N	TTL	S8H16F	PHIN		DIP	106- 1
166♦	74-13N	TTL	S8455A	MULB		DIP	107-110
167♦	74-13N	TTL	S8455A	PHIN		DIP	107-110
168♦	74-13N	TTL	S8455F	MULB		DIP	108- 1
169♦	74-13N	TTL	S8455F	PHIN		DIP	108- 1
170♦	74-13N	TTL	S8855A	MULB		DIP	106- 95
171♦	74-13N	TTL	S8855A	PHIN		DIP	106- 95
172♦	74-13N	TTL	S8855F	MULB		DIP	106- 96
173♦	74-13N	TTL	S8855F	PHIN		DIP	106- 96
174♦	74-13N	TTL	T54LS20D2	SGSI		DIP	106- 18
175♦	74-13N	TTL	T74LS20B1	SGSI		DIP	106- 19
176♦	74-13N	TTL	T74LS20D1	SGSI		DIP	106- 20
177♦	74-13N	TTL	54F20DM	FSC		DIP	106- 7
178♦	74-13N	TTL	54H20DM	FSC		DIP	106- 31
179♦	74-13N	TTL	5420DM	FSC		DIP	107- 5
180♦	74-13N	TTL	74F20DC	FSC		DIP	105- 85
181♦	74-13N	TTL	74F20PC	FSC		DIP	105- 87
182♦	74-13N	TTL	74H20DC	FSC		DIP	106- 33
183♦	74-13N	TTL	74H20PC	FSC		DIP	106- 34
184♦	74-13N	TTL	74LS20DC	FSC		DIP	106- 10
185♦	74-13N	TTL	74LS20PC	FSC		DIP	106- 11
186♦	74-13N	TTL	74S20DC	FSC		DIP	105- 67
187♦	74-13N	TTL	74S20PC	FSC		DIP	105- 68
188♦	74-13N	TTL	7420DC	FSC		DIP	107- 7
189♦	74-13N	TTL	7420PC	FSC		DIP	107- 8
190♦	74-13N	TTL	9004DC	FSC		DIP	106- 67
191♦	74-13N	TTL	9004DM	FSC		DIP	106- 35
192♦	74-15	TTL	DM54ALS15J	NSC		DIP	79- 48
193♦	74-15	TTL	DM54LS15J	NSC		DIP	79- 52
194♦	74-15	TTL	DM74ALS15J	NSC		DIP	79- 55
195♦	74-15	TTL	DM74ALS15N	NSC		DIP	79- 56
196♦	74-15	TTL	DM74LS15N	NSC		DIP	79- 61
197♦	74-15	TTL	DN74LS15P1	MATJ		DIP	79- 68
198♦	74-15	TTL	DN74LS15P4	MATJ	*	SO	79- 69
199♦	74-15	TTL	M74ALS15AP	MITJ		DIP	80-101
200♦	74H15	TTL	SN74LS15D	TII	*	SO	80- 18
201♦	74H15	TTL	SN74S15D	TII	*	SO	80- 23
202♦	74H15N	TTL	DM74S15N	NSC		DIP	79- 63
203▼	74H15N	TTL	HD74LS15G	HITJ		DIP	80- 86
204♦	74H15N	TTL	HD74LS15P	HITJ		DIP	80- 87
205♦	74H15N	TTL	MB74LS15	FCAJ		DIP	79- 80
206♦	74H15N	TTL	MB74LS15M	FCAJ		DIP	79- 81
207♦	74H15N	TTL	M74ALS15P	MITA		DIP	79- 72
208♦	74H15N	TTL	M74LS15P	MITA		DIP	79- 77
209♦	74H15N	TTL	M74LS15P	MITJ		DIP	79- 77
210♦	74H15N	TTL	N74LS15F	MULB		DIP	79- 95
211♦	74H15N	TTL	N74LS15F	PHIN		DIP	79- 95
212♦	74H15N	TTL	N74LS15F	VALG		DIP	79- 95
213♦	74H15N	TTL	N74LS15N	MULB		DIP	79- 96
214♦	74H15N	TTL	N74LS15N	PHIN		DIP	79- 96
215♦	74H15N	TTL	N74LS15N	VALG		DIP	79- 96
216♦	74H15N	TTL	N74S15F	MULB		DIP	79- 99
217♦	74H15N	TTL	N74S15F	PHIN		DIP	79- 99
218♦	74H15N	TTL	N74S15F	VALG		DIP	79- 99
219♦	74H15N	TTL	N74S15N	MULB		DIP	79-100
220♦	74H15N	TTL	N74S15N	PHIN		DIP	79-100

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	[1] FUNCTIONAL NUMBER	[2] TECH	[3] TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74H15N	TTL	N74S15N	VALG		DIP	79-100
2▼	74H15N	TTL	SN54ALS15AJ	TII		DIP	80-107
3♦	74H15N	TTL	SN54LS15J	MOTA		DIP	80- 10
4♦	74H15N	TTL	SN54LS15J	TII		DIP	80- 10
5▼	74H15N	TTL	SN54LS15N	MOTA		DIP	80- 11
6▼	74H15N	TTL	SN74ALS15AD	TII	*	SO	80-102
7▼	74H15N	TTL	SN74ALS15AN	TII		DIP	80-103
8♦	74H15N	TTL	SN74LS15J	MOTA		DIP	80- 19
9♦	74H15N	TTL	SN74LS15N	MOTA		DIP	80- 20
10♦	74H15N	TTL	SN74LS15N	TII		DIP	80- 20
11♦	74H15N	TTL	SN74S15N	TII		DIP	80- 24
12♦	74H15N	TTL	S54LS15F	MULB		DIP	80- 2
13♦	74H15N	TTL	S54LS15F	PHIN		DIP	80- 2
14♦	74H15N	TTL	S54LS15F	VALG		DIP	80- 2
15♦	74H15N	TTL	S54S15F	MULB		DIP	80- 4
16♦	74H15N	TTL	S54S15F	PHIN		DIP	80- 4
17♦	74H15N	TTL	S54S15F	VALG		DIP	80- 4
18♦	74H15N	TTL	T54LS15D2	SGSI		DIP	80- 26
19♦	74H15N	TTL	T74LS15B1	SGSI		DIP	80- 29
20♦	74H15N	TTL	T74LS15D1	SGSI		DIP	80- 30
21♦	74H15N	TTL	54S15DM	FSC		DIP	79- 29
22♦	74H15N	TTL	74LS15PC	FSC		DIP	79- 40
23♦	74H15N	TTL	74S15PC	FSC		DIP	79- 43
24♦	74-20	CMOS	LC74HC20	TSAJ		DIP	108- 48
25♦	74-20	CMOS	M54HC20F1(A)	SGSI		DIP	104-101
26♦	74-20	CMOS	M74HC20B1(A)	SGSI		DIP	104-103
27♦	74-20	CMOS	M74HC20F1(A)	SGSI		DIP	104-104
28♦	74-20	CMOS	M74HC20P	MITJ		DIP	104-105
29♦	74-20	CMOS	PC54HCT20D(A)	MULB		DIP	105- 27
30♦	74-20	CMOS	PC54HCT20D(A)	PHIN		DIP	105- 27
31♦	74-20	CMOS	PC54HCT20D(A)	RTCF		DIP	105- 27
32♦	74-20	CMOS	PC54HCT20D(A)	VALG		DIP	105- 27
33♦	74-20	CMOS	PC54HC20D(A)	MULB		DIP	105- 26
34♦	74-20	CMOS	PC54HC20D(A)	PHIN		DIP	105- 26
35♦	74-20	CMOS	PC54HC20D(A)	RTCF		DIP	105- 26
36♦	74-20	CMOS	PC54HC20D(A)	VALG		DIP	105- 26
37♦	74-20	CMOS	PC74HCT20D(A)	MULB		DIP	105- 29
38♦	74-20	CMOS	PC74HCT20D(A)	PHIN		DIP	105- 29
39♦	74-20	CMOS	PC74HCT20D(A)	RTCF		DIP	105- 29
40♦	74-20	CMOS	PC74HCT20D(A)	VALG		DIP	105- 29
41♦	74-20	CMOS	PC74HCT20P	MULB		DIP	107- 55
42♦	74-20	CMOS	PC74HCT20P	PHIN		DIP	107- 55
43♦	74-20	CMOS	PC74HCT20P	RTCF		DIP	107- 55
44♦	74-20	CMOS	PC74HCT20P	VALG		DIP	107- 55
45♦	74-20	CMOS	PC74HCT20T	MULB	*	SO	107- 56
46♦	74-20	CMOS	PC74HCT20T	PHIN	*	SO	107- 56
47♦	74-20	CMOS	PC74HCT20T	RTCF	*	SO	107- 56
48♦	74-20	CMOS	PC74HCT20T	VALG	*	SO	107- 56
49♦	74-20	CMOS	PC74HC20D(A)	MULB		DIP	105- 28
50♦	74-20	CMOS	PC74HC20D(A)	PHIN		DIP	105- 28
51♦	74-20	CMOS	PC74HC20D(A)	RTCF		DIP	105- 28
52♦	74-20	CMOS	PC74HC20D(A)	VALG		DIP	105- 28
53♦	74-20	CMOS	PC74HC20P	MULB		DIP	107- 30
54♦	74-20	CMOS	PC74HC20P	PHIN		DIP	107- 30
55♦	74-20	CMOS	PC74HC20P	RTCF		DIP	107- 30
56♦	74-20	CMOS	PC74HC20P	VALG		DIP	107- 30
57♦	74-20	CMOS	PC74HC20T	MULB	*	SO	107- 31
58♦	74-20	CMOS	PC74HC20T	PHIN	*	SO	107- 31
59♦	74-20	CMOS	PC74HC20T	RTCF	*	SO	107- 31
60♦	74-20	CMOS	PC74HC20T	VALG	*	SO	107- 31
61♦	74-20	CMOS	UPD74HC20C(A)	NECJ		DIP	106- 27
62	74-20	CMOS	74HCT20D	SIC	*	SO	106-109
63♦	74-20	CMOS	74HCT20N	SIC		DIP	106-110
64	74-20	CMOS	74HC20D	SIC	*	SO	106-107
65♦	74-20	CMOS	74HC20N	SIC		DIP	106-108
66♦	74-20	TTL	DM54ALS20AJ	NSC		DIP	104- 73
67♦	74-20	TTL	DM54AS20J	NSC		DIP	104- 75
68♦	74-20	TTL	DM54LS20J	NSC		DIP	104- 76
69♦	74-20	TTL	DM74ALS20AJ	NSC		DIP	104- 78
70♦	74-20	TTL	DM74ALS20AN	NSC		DIP	104- 79
71♦	74-20	TTL	DM74AS20J	NSC		DIP	104- 82
72♦	74-20	TTL	DM74AS20N	NSC		DIP	104- 83
73♦	74-20	TTL	DM74LS20N	NSC		DIP	104- 85
74♦	74-20	TTL	DN74LS20P1	MATJ		DIP	104- 88
75♦	74-20	TTL	DN74LS20P4	MATJ	*	SO	104- 89
76♦	74-20	TTL	N74F20D	MULB	*	SO	105- 95
77♦	74-20	TTL	N74F20D	PHIN	*	SO	105- 95
78♦	74-20	TTL	N74F20D	RTCF	*	SO	105- 95
79♦	74-20	TTL	N74F20D	SIC	*	SO	105- 95
80♦	74-20	TTL	N74F20D	VALG	*	SO	105- 95
81♦	74-20	TTL	54LS20DM	FSC		DIP	104- 35
82♦	74-20	TTL	54S20DM	FSC		DIP	104- 36
83♦	74-20N	CMOS	CD54HCT20F	RCA		DIP	107- 26
84♦	74-20N	CMOS	CD54HC20F	RCA		DIP	107- 25
85♦	74-20N	CMOS	CD74HCT20E	RCA		DIP	107- 3
86♦	74-20N	CMOS	CD74HCT20M	RCA	*	SO	107- 4
87♦	74-20N	CMOS	CD74HC20E	RCA		DIP	107- 1
88♦	74-20N	CMOS	CD74HC20M	RCA	*	SO	107- 2
89▼	74-20N	CMOS	HD74HC20FP	HITJ	*	SO	106- 29
90▼	74-20N	CMOS	HD74HC20P	HITJ		DIP	106- 30
91♦	74H20	TTL	N8816A	MULB		DIP	106- 69
92♦	74H20	TTL	N8816A	PHIN		DIP	106- 69
93♦	74H20	TTL	N8816F	MULB		DIP	106- 70
94♦	74H20	TTL	N8816F	PHIN		DIP	106- 70
95♦	74H20	TTL	N8816J	MULB	*	FP	106- 71
96♦	74H20	TTL	N8816J	PHIN	*	FP	106- 71
97♦	74H20	TTL	S8816A	MULB		DIP	106- 72
98♦	74H20	TTL	S8816A	PHIN		DIP	106- 72
99♦	74H20	TTL	S8816F	MULB		DIP	106- 73
100♦	74H20	TTL	S8816F	PHIN		DIP	106- 73
101♦	74H20	TTL	S8816J	MULB	*	FP	106- 74
102♦	74H20	TTL	S8816J	PHIN	*	FP	106- 74
103♦	74-21	CMOS	LC74HC21	TSAJ		DIP	82- 85
104♦	74-21	CMOS	M54HC21F1(A)	SGSI		DIP	81- 57
105♦	74-21	CMOS	M74HC21B1(A)	SGSI		DIP	81- 58
106♦	74-21	CMOS	M74HC21F1(A)	SGSI		DIP	81- 60
107♦	74-21	CMOS	PC54HCT21D(A)	MULB		DIP	82- 19
108♦	74-21	CMOS	PC54HCT21D(A)	PHIN		DIP	82- 19
109♦	74-21	CMOS	PC54HCT21D(A)	RTCF		DIP	82- 19
110♦	74-21	CMOS	PC54HCT21D(A)	VALG		DIP	82- 19
111♦	74-21	CMOS	PC54HC21D(A)	MULB		DIP	82- 4
112♦	74-21	CMOS	PC54HC21D(A)	PHIN		DIP	82- 4
113♦	74-21	CMOS	PC54HC21D(A)	RTCF		DIP	82- 4
114♦	74-21	CMOS	PC54HC21D(A)	VALG		DIP	82- 4
115♦	74-21	CMOS	PC74HCT21D(A)	MULB		DIP	82- 20
116♦	74-21	CMOS	PC74HCT21D(A)	PHIN		DIP	82- 20
117♦	74-21	CMOS	PC74HCT21D(A)	RTCF		DIP	82- 20
118♦	74-21	CMOS	PC74HCT21D(A)	VALG		DIP	82- 20
119♦	74-21	CMOS	PC74HCT21P	MULB		DIP	82-104
120♦	74-21	CMOS	PC74HCT21P	PHIN		DIP	82-104
121♦	74-21	CMOS	PC74HCT21P	RTCF		DIP	82-104
122♦	74-21	CMOS	PC74HCT21P	VALG		DIP	82-104
123♦	74-21	CMOS	PC74HCT21T	MULB	*	SO	82- 21
124♦	74-21	CMOS	PC74HCT21T	PHIN	*	SO	82- 21
125♦	74-21	CMOS	PC74HCT21T	RTCF	*	SO	82- 21
126♦	74-21	CMOS	PC74HCT21T	VALG	*	SO	82- 21
127♦	74-21	CMOS	PC74HC21D(A)	MULB		DIP	82- 5
128♦	74-21	CMOS	PC74HC21D(A)	PHIN		DIP	82- 5
129♦	74-21	CMOS	PC74HC21D(A)	RTCF		DIP	82- 5
130♦	74-21	CMOS	PC74HC21D(A)	VALG		DIP	82- 5
131♦	74-21	CMOS	PC74HC21P	MULB		DIP	82- 6
132♦	74-21	CMOS	PC74HC21P	PHIN		DIP	82- 6
133♦	74-21	CMOS	PC74HC21P	RTCF		DIP	82- 6
134♦	74-21	CMOS	PC74HC21P	VALG		DIP	82- 6
135♦	74-21	CMOS	PC74HC21T	MULB	*	SO	82- 7
136♦	74-21	CMOS	PC74HC21T	PHIN	*	SO	82- 7
137♦	74-21	CMOS	PC74HC21T	RTCF	*	SO	82- 7
138♦	74-21	CMOS	PC74HC21T	VALG	*	SO	82- 7
139♦	74-21	TTL	DM54AS21J	NSC		DIP	81-109
140♦	74-21	TTL	DM54LS21J	NSC		DIP	82- 56
141♦	74-21	TTL	DM74AS21J	NSC		DIP	81-105
142♦	74-21	TTL	DM74AS21N	NSC		DIP	81-106
143♦	74-21	TTL	DM74LS21N	NSC		DIP	82- 57
144♦	74-21	TTL	DN74LS21P1	MATJ		DIP	82- 64
145♦	74-21	TTL	DN74LS21P4	MATJ	*	SO	82- 65
146♦	74-21N	CMOS	CD54HCT21F	RCA		DIP	82- 98
147♦	74-21N	CMOS	CD54HC21F	RCA		DIP	82- 97
148♦	74-21N	CMOS	CD74HCT21E	RCA		DIP	82- 82
149♦	74-21N	CMOS	CD74HCT21M	RCA	*	SO	82- 83
150♦	74-21N	CMOS	CD74HC21E	RCA		DIP	82- 80
151♦	74-21N	CMOS	CD74HC21M	RCA	*	SO	82- 81
152▼	74-21N	CMOS	TC74HC21F(A)	TOSA	*	SO	82-102
153♦	74-21N	CMOS	TC74HC21P(A)	TOSA		DIP	82- 79
154♦	74-21N	CMOS	TC74HC21P(A)	TOSJ		DIP	82- 79
155♦	74H21	CMOS	UPD74HC21C(A)	NECJ		DIP	82- 8
156	74H21	CMOS	74HCT21D	SIC	*	SO	82- 15
157♦	74H21	CMOS	74HCT21N	SIC		DIP	82- 16
158	74H21	CMOS	74HC21D	SIC	*	SO	82- 2
159♦	74H21	CMOS	74HC21N	SIC		DIP	82- 3
160♦	74H21	TTL	DM54ALS21J	NSC		DIP	82-103
161♦	74H21	TTL	DM74ALS21J	NSC		DIP	82- 86
162♦	74H21	TTL	DM74ALS21N	NSC		DIP	82- 87
163♦	74H21	TTL	M74LS21P	MITA		DIP	82- 67
164♦	74H21	TTL	M74LS21P	MITJ		DIP	82- 67
165♦	74H21	TTL	SN74LS21D	TII	*	SO	82- 76
166▼	74H21N	CMOS	HD74HC21FP	HITJ	*	SO	82- 24
167▼	74H21N	CMOS	HD74HC21P	HITJ		DIP	82- 25
168♦	74H21N	CMOS	SN54HC21J	TII		DIP	82-105
169▼	74H21N	CMOS	SN74HC21D	TII	*	SO	82-100
170♦	74H21N	CMOS	SN74HC21N	TII		DIP	82-101
171♦	74H21N	CMOS	TC40H021P	IMTM		DIP	82-110
172♦	74H21N	CMOS	TC40H021P	TOSJ		DIP	82-110
173♦	74H21N	TTL	DM54H21J	NSC		DIP	82- 43
174♦	74H21N	TTL	DM74H21N	NSC		DIP	82- 44
175▼	74H21N	TTL	HD74LS21G	HITJ		DIP	82- 66
176♦	74H21N	TTL	HD74LS21P	HITJ		DIP	82- 99
177♦	74H21N	TTL	MB614	FCAJ		DIP	82- 26
178♦	74H21N	TTL	MB74LS21	FCAJ		DIP	82- 68
179♦	74H21N	TTL	MB74LS21M	FCAJ		DIP	82- 69
180▼	74H21N	TTL	MC3026L	MOTA		DIP	82- 9
181▼	74H21N	TTL	MC3026P	MOTA		DIP	82- 10
182♦	74H21N	TTL	MC3126L	MOTA		DIP	82- 12
183♦	74H21N	TTL	M74ALS21P	MITA		DIP	82- 92
184♦	74H21N	TTL	M74ALS21P	MITJ		DIP	82- 92
185♦	74H21N	TTL	N74H21F	MULB		DIP	82- 45
186♦	74H21N	TTL	N74H21F	PHIN		DIP	82- 45
187♦	74H21N	TTL	N74H21F	VALG		DIP	82- 45
188♦	74H21N	TTL	N74H21N	MULB		DIP	82- 46
189♦	74H21N	TTL	N74H21N	PHIN		DIP	82- 46
190♦	74H21N	TTL	N74H21N	VALG		DIP	82- 46
191♦	74H21N	TTL	N74LS21D	MULB		DIP	82- 70
192♦	74H21N	TTL	N74LS21D	PHIN		DIP	82- 70
193♦	74H21N	TTL	N74LS21D	RTCF		DIP	82- 70
194♦	74H21N	TTL	N74LS21D	SIC		DIP	82- 70
195♦	74H21N	TTL	N74LS21D	VALG		DIP	82- 70
196♦	74H21N	TTL	N74LS21N	MULB		DIP	82- 71
197♦	74H21N	TTL	N74LS21N	PHIN		DIP	82- 71
198♦	74H21N	TTL	N74LS21N	RTCF		DIP	82- 71
199♦	74H21N	TTL	N74LS21N	SIC		DIP	82- 71
200♦	74H21N	TTL	N74LS21N	VALG		DIP	82- 71
201♦	74H21N	TTL	N7421F	MULB		DIP	82- 93
202♦	74H21N	TTL	N7421F	PHIN		DIP	82- 93
203♦	74H21N	TTL	N7421F	RTCF		DIP	82- 93
204♦	74H21N	TTL	N7421F	VALG		DIP	82- 93
205♦	74H21N	TTL	N7421N	MULB		DIP	82- 94
206♦	74H21N	TTL	N7421N	PHIN		DIP	82- 94
207♦	74H21N	TTL	N7421N	RTCF		DIP	82- 94
208♦	74H21N	TTL	N7421N	SIC		DIP	82- 94
209♦	74H21N	TTL	N7421N	VALG		DIP	82- 94
210▼	74H21N	TTL	SN54ALS21AJ	TII		DIP	82- 58
211♦	74H21N	TTL	SN54AS21J	TII		DIP	81-110
212♦	74H21N	TTL	SN54LS21J	MOTA		DIP	82- 74
213♦	74H21N	TTL	SN54LS21J	TII		DIP	82- 74
214▼	74H21N	TTL	SN54LS21N	MOTA		DIP	82- 75
215▼	74H21N	TTL	SN74ALS21AD	TII	*	SO	82- 54
216▼	74H21N	TTL	SN74ALS21AN	TII		DIP	82- 55
217▼	74H21N	TTL	SN74AS21D	TII	*	SO	81-107
218♦	74H21N	TTL	SN74AS21N	TII		DIP	81-108
219♦	74H21N	TTL	SN74H21N	TII		DIP	82- 51
220♦	74H21N	TTL	SN74LS21J	MOTA		DIP	82- 77

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74H21N	TTL	SN74LS21N	MOTA		DIP	82- 78
2♦	74H21N	TTL	SN74LS21N	TII		DIP	82- 78
3♦	74H21N	TTL	S54H21F	MULB		DIP	82- 47
4♦	74H21N	TTL	S54H21F	PHIN		DIP	82- 47
5♦	74H21N	TTL	S54H21F	VALG		DIP	82- 47
6♦	74H21N	TTL	S54LS21F	MULB		DIP	82- 72
7♦	74H21N	TTL	S54LS21F	PHIN		DIP	82- 72
8♦	74H21N	TTL	S54LS21F	RTCF		DIP	82- 72
9♦	74H21N	TTL	S54LS21F	VALG		DIP	82- 72
10♦	74H21N	TTL	S5421F	MULB		DIP	82- 95
11♦	74H21N	TTL	S5421F	PHIN		DIP	82- 95
12♦	74H21N	TTL	S5421F	VALG		DIP	82- 95
13♦	74H21N	TTL	T54LS21D2	SGSI		DIP	79- 8
14♦	74H21N	TTL	T74LS21B1	SGSI		DIP	82- 22
15♦	74H21N	TTL	T74LS21D1	SGSI		DIP	82- 23
16♦	74H21N	TTL	54H21DM	FSC		DIP	82- 39
17♦	74H21N	TTL	54LS21DM	FSC		DIP	82- 13
18♦	74H21N	TTL	5421DM	FSC		DIP	82- 88
19♦	74H21N	TTL	74H21DC	FSC		DIP	82- 41
20♦	74H21N	TTL	74H21PC	FSC		DIP	82- 42
21♦	74H21N	TTL	74LS21DC	FSC		DIP	82- 17
22♦	74H21N	TTL	74LS21PC	FSC		DIP	82- 18
23♦	74H21N	TTL	7421DC	FSC		DIP	82- 90
24♦	74H21N	TTL	7421PC	FSC		DIP	82- 91
25♦	74-22	TTL	DM54ALS22J	NSC		DIP	104- 74
26♦	74-22	TTL	DM54LS22J	NSC		DIP	104- 77
27♦	74-22	TTL	DM74ALS22BJ	NSC		DIP	104- 80
28♦	74-22	TTL	DM74ALS22BN	NSC		DIP	104- 81
29♦	74-22	TTL	DM74LS22N	NSC		DIP	104- 86
30♦	74-22	TTL	DN74LS22P1	MATJ		DIP	104- 90
31♦	74-22	TTL	DN74LS22P4	MATJ	*	SO	104- 91
32▼	74-22	TTL	N74F40D	PHIN		DIP	106- 14
33▼	74-22	TTL	N74F40N	PHIN		DIP	106- 15
34♦	74-22	TTL	SN74S22D	TII	*	SO	105- 46
35♦	74-22N	DTL	N8415A	MULB		DIP	105- 21
36♦	74-22N	DTL	N8415A	PHIN		DIP	105- 21
37♦	74-22N	DTL	N8415F	MULB		DIP	105- 22
38♦	74-22N	DTL	N8415F	PHIN		DIP	105- 22
39♦	74-22N	DTL	S8415A	MULB		DIP	105- 33
40♦	74-22N	DTL	S8415A	PHIN		DIP	105- 33
41♦	74-22N	DTL	S8415F	MULB		DIP	105- 34
42♦	74-22N	DTL	S8415F	PHIN		DIP	105- 34
43♦	74-22N	TTL	DM74H22N	NSC		DIP	104- 84
44♦	74-22N	TTL	DM74S22N	NSC		DIP	104- 87
45▼	74-22N	TTL	HD74LS22G	HITJ		DIP	107- 34
46♦	74-22N	TTL	HD74LS22P	HITJ		DIP	107- 35
47♦	74-22N	TTL	MB402	FCAJ		DIP	104-109
48♦	74-22N	TTL	MB402M	FCAJ		DIP	104-110
49♦	74-22N	TTL	MB74LS22	FCAJ		DIP	104-107
50♦	74-22N	TTL	MB74LS22M	FCAJ		DIP	104-108
51♦	74-22N	TTL	M74ALS22AP	MITA		DIP	104-102
52♦	74-22N	TTL	M74ALS22AP	MITJ		DIP	104-102
53♦	74-22N	TTL	M74LS22P	MITA		DIP	104-106
54♦	74-22N	TTL	M74LS22P	MITJ		DIP	104-106
55♦	74-22N	TTL	N74H22F	MULB		DIP	105- 15
56♦	74-22N	TTL	N74H22F	PHIN		DIP	105- 15
57♦	74-22N	TTL	N74H22F	VALG		DIP	105- 15
58♦	74-22N	TTL	N74H22N	MULB		DIP	105- 16
59♦	74-22N	TTL	N74H22N	PHIN		DIP	105- 16
60♦	74-22N	TTL	N74H22N	VALG		DIP	105- 16
61♦	74-22N	TTL	N74LS22F	MULB		DIP	105- 17
62♦	74-22N	TTL	N74LS22F	PHIN		DIP	105- 17
63♦	74-22N	TTL	N74LS22F	VALG		DIP	105- 17
64♦	74-22N	TTL	N74LS22N	MULB		DIP	105- 18
65♦	74-22N	TTL	N74LS22N	PHIN		DIP	105- 18
66♦	74-22N	TTL	N74LS22N	VALG		DIP	105- 18
67♦	74-22N	TTL	N74S22F	MULB		DIP	105- 19
68♦	74-22N	TTL	N74S22F	PHIN		DIP	105- 19
69♦	74-22N	TTL	N74S22F	VALG		DIP	105- 19
70♦	74-22N	TTL	N74S22N	MULB		DIP	105- 20
71♦	74-22N	TTL	N74S22N	PHIN		DIP	105- 20
72♦	74-22N	TTL	N74S22N	VALG		DIP	105- 20
73▼	74-22N	TTL	SN54ALS22BJ	TII	*	SO	107- 88
74♦	74-22N	TTL	SN54LS22J	MOTA		DIP	105- 41
75♦	74-22N	TTL	SN54LS22J	TII		DIP	105- 41
76▼	74-22N	TTL	SN54LS22N	MOTA		DIP	105- 42
77♦	74-22N	TTL	SN54S22J	TII		DIP	105- 43
78♦	74-22N	TTL	SN5422J	TII		DIP	105- 48
79▼	74-22N	TTL	SN74ALS22BD	TII	*	SO	107- 58
80▼	74-22N	TTL	SN74ALS22BN	TII		DIP	107- 59
81♦	74-22N	TTL	SN74LS22J	MOTA		DIP	105- 44
82♦	74-22N	TTL	SN74LS22N	MOTA		DIP	105- 45
83♦	74-22N	TTL	SN74LS22N	TII		DIP	105- 45
84♦	74-22N	TTL	SN74S22N	TII		DIP	105- 47
85♦	74-22N	TTL	SN7422N	TII		DIP	105- 49
86♦	74-22N	TTL	S54H22F	MULB		DIP	105- 30
87♦	74-22N	TTL	S54H22F	PHIN		DIP	105- 30
88♦	74-22N	TTL	S54H22F	VALG		DIP	105- 30
89♦	74-22N	TTL	S54LS22F	MULB		DIP	105- 31
90♦	74-22N	TTL	S54LS22F	PHIN		DIP	105- 31
91♦	74-22N	TTL	S54LS22F	VALG		DIP	105- 31
92♦	74-22N	TTL	S54S22F	MULB		DIP	105- 32
93♦	74-22N	TTL	S54S22F	PHIN		DIP	105- 32
94♦	74-22N	TTL	S54S22F	VALG		DIP	105- 32
95♦	74-22N	TTL	T54LS22D2	SGSI		DIP	105- 50
96♦	74-22N	TTL	T74LS22B1	SGSI		DIP	105- 51
97♦	74-22N	TTL	T74LS22D1	SGSI		DIP	105- 52
98♦	74-22N	TTL	54H22DM	FSC		DIP	104- 34
99♦	74-22N	TTL	54S22DM	FSC		DIP	104- 37
100♦	74-22N	TTL	5422DM	FSC		DIP	104- 55
101♦	74-22N	TTL	74H22DC	FSC		DIP	104- 38
102♦	74-22N	TTL	74H22PC	FSC		DIP	104- 39
103♦	74-22N	TTL	74LS22PC	FSC		DIP	104- 40
104♦	74-22N	TTL	74S22DC	FSC		DIP	104- 41
105♦	74-22N	TTL	74S22PC	FSC		DIP	104- 42
106♦	74-22N	TTL	7422DC	FSC		DIP	104- 56
107♦	74-22N	TTL	7422PC	FSC		DIP	104- 57
108♦	74-23N	TTL	DM5423J	NSC		DIP	117- 89
109♦	74-23N	TTL	DM7423N	NSC		DIP	117- 91
110♦	74-23N	TTL	N7423F	MULB		DIP	117- 94
111♦	74-23N	TTL	N7423F	PHIN		DIP	117- 94
112♦	74-23N	TTL	N7423F	VALG		DIP	117- 94
113♦	74-23N	TTL	N7423N	MULB		DIP	117- 95
114♦	74-23N	TTL	N7423N	PHIN		DIP	117- 95
115♦	74-23N	TTL	N7423N	VALG		DIP	117- 95
116♦	74-23N	TTL	SN5423J	TII		DIP	117-102
117♦	74-23N	TTL	SN7423N	TII		DIP	117-104
118♦	74-23N	TTL	S5423F	MULB		DIP	117- 99
119♦	74-23N	TTL	S5423F	PHIN		DIP	117- 99
120♦	74-23N	TTL	S5423F	SIC		DIP	117- 99
121♦	74-23N	TTL	S5423F	VALG		DIP	117- 99
122♦	74-23N	TTL	7423PC	FSC			117- 86
123♦	74-25N	TTL	DM5425J	NSC		DIP	117- 90
124♦	74-25N	TTL	DM7425N	NSC		DIP	117- 92
125♦	74-25N	TTL	M53225P	MITJ		DIP	117- 93
126♦	74-25N	TTL	N7425N	MULB		DIP	117- 96
127♦	74-25N	TTL	N7425N	PHIN		DIP	117- 96
128♦	74-25N	TTL	N7425N	RTCF		DIP	117- 96
129♦	74-25N	TTL	N7425N	SIC		DIP	117- 96
130♦	74-25N	TTL	N7425N	VALG		DIP	117- 96
131♦	74-25N	TTL	N8815A	MULB		DIP	117- 97
132♦	74-25N	TTL	N8815A	PHIN		DIP	117- 97
133♦	74-25N	TTL	N8815N	MULB	*	FP	117- 98
134♦	74-25N	TTL	N8815N	PHIN	*	FP	117- 98
135♦	74-25N	TTL	N8815N	SIC	*	FP	117- 98
136♦	74-25N	TTL	SN5425J	TII		DIP	117-103
137♦	74-25N	TTL	SN7425N	TII		DIP	117-105
138♦	74-25N	TTL	S5425F	MULB		DIP	117-100
139♦	74-25N	TTL	S5425F	PHIN		DIP	117-100
140♦	74-25N	TTL	S5425F	RTCF		DIP	117-100
141♦	74-25N	TTL	S5425F	SIC		DIP	117-100
142♦	74-25N	TTL	S5425F	VALG		DIP	117-100
143♦	74-25N	TTL	S8815A	MULB		DIP	117-101
144♦	74-25N	TTL	S8815A	PHIN		DIP	117-101
145♦	74-25N	TTL	5425DM	FSC		DIP	117- 85
146♦	74-25N	TTL	7425DC	FSC		DIP	117- 87
147♦	74-25N	TTL	7425PC	FSC		DIP	117- 88
148♦	74-27	CMOS	LC74HC27	TSAJ		DIP	116- 30
149♦	74-27	CMOS	M54HC27F1(A)	SGSI		DIP	115- 76
150♦	74-27	CMOS	M74HC27B1(A)	SGSI		DIP	115- 78
151♦	74-27	CMOS	M74HC27F1(A)	SGSI		DIP	115- 79
152♦	74-27	CMOS	M74HC27P	MITJ		DIP	115- 80
153♦	74-27	CMOS	PC54HCT27D(A)	MULB		DIP	115- 96
154♦	74-27	CMOS	PC54HCT27D(A)	PHIN		DIP	115- 96
155♦	74-27	CMOS	PC54HCT27D(A)	RTCF		DIP	115- 96
156♦	74-27	CMOS	PC54HCT27D(A)	VALG		DIP	115- 96
157♦	74-27	CMOS	PC54HC27D(A)	MULB		DIP	115- 95
158♦	74-27	CMOS	PC54HC27D(A)	PHIN		DIP	115- 95
159♦	74-27	CMOS	PC54HC27D(A)	RTCF		DIP	115- 95
160♦	74-27	CMOS	PC54HC27D(A)	VALG		DIP	115- 95
161♦	74-27	CMOS	PC74HCT27D(A)	MULB		DIP	115- 98
162♦	74-27	CMOS	PC74HCT27D(A)	PHIN		DIP	115- 98
163♦	74-27	CMOS	PC74HCT27D(A)	RTCF		DIP	115- 98
164♦	74-27	CMOS	PC74HCT27D(A)	VALG		DIP	115- 98
165♦	74-27	CMOS	PC74HCT27P	MULB		DIP	115- 99
166♦	74-27	CMOS	PC74HCT27P	PHIN		DIP	115- 99
167♦	74-27	CMOS	PC74HCT27P	RTCF		DIP	115- 99
168♦	74-27	CMOS	PC74HCT27P	VALG		DIP	115- 99
169♦	74-27	CMOS	PC74HCT27T	MULB	*	SO	115-100
170♦	74-27	CMOS	PC74HCT27T	PHIN	*	SO	115-100
171♦	74-27	CMOS	PC74HCT27T	RTCF	*	SO	115-100
172♦	74-27	CMOS	PC74HCT27T	VALG	*	SO	115-100
173♦	74-27	CMOS	PC74HC27D(A)	MULB		DIP	115- 97
174♦	74-27	CMOS	PC74HC27D(A)	PHIN		DIP	115- 97
175♦	74-27	CMOS	PC74HC27D(A)	RTCF		DIP	115- 97
176♦	74-27	CMOS	PC74HC27D(A)	VALG		DIP	115- 97
177♦	74-27	CMOS	PC74HC27P	MULB		DIP	116- 32
178♦	74-27	CMOS	PC74HC27P	PHIN		DIP	116- 32
179♦	74-27	CMOS	PC74HC27P	RTCF		DIP	116- 32
180♦	74-27	CMOS	PC74HC27P	VALG		DIP	116- 32
181♦	74-27	CMOS	PC74HC27T	MULB	*	SO	116- 33
182♦	74-27	CMOS	PC74HC27T	PHIN	*	SO	116- 33
183♦	74-27	CMOS	PC74HC27T	RTCF	*	SO	116- 33
184♦	74-27	CMOS	PC74HC27T	VALG	*	SO	116- 33
185♦	74-27	CMOS	UPD74HC27C(A)	NECJ		DIP	116- 15
186	74-27	CMOS	74HCT27D	SIC	*	SO	116- 41
187♦	74-27	CMOS	74HCT27N	SIC		DIP	116- 42
188	74-27	CMOS	74HC27D	SIC	*	SO	116- 25
189♦	74-27	CMOS	74HC27N	SIC		DIP	116- 26
190♦	74-27	TTL	DM54ALS27J	NSC		DIP	115- 64
191♦	74-27	TTL	DM54AS27J	NSC		DIP	115- 65
192♦	74-27	TTL	DM54LS27J	NSC		DIP	115- 66
193♦	74-27	TTL	DM74ALS27J	NSC		DIP	115- 67
194♦	74-27	TTL	DM74ALS27N	NSC		DIP	115- 68
195♦	74-27	TTL	DM74AS27J	NSC		DIP	115- 69
196♦	74-27	TTL	DM74AS27N	NSC		DIP	115- 70
197♦	74-27	TTL	DM74LS27N	NSC		DIP	115- 71
198♦	74-27	TTL	DN74LS27P1	MATJ		DIP	115- 74
199♦	74-27	TTL	DN74LS27P4	MATJ	*	SO	115- 75
200▼	74-27	TTL	N74F27D	PHIN		DIP	116- 5
201▼	74-27	TTL	N74F27N	PHIN		DIP	116- 6
202♦	74-27	TTL	SN74LS27D	TII	*	SO	115-107
203♦	74-27N	CMOS	CD54HCT27F	RCA		DIP	116- 39
204♦	74-27N	CMOS	CD54HC27F	RCA		DIP	116- 38
205♦	74-27N	CMOS	CD74HCT27E	RCA		DIP	116- 28
206♦	74-27N	CMOS	CD74HCT27M	RCA	*	SO	116- 29
207♦	74-27N	CMOS	CD74HC27E	RCA		DIP	116- 27
208♦	74-27N	CMOS	CD74HC27M	RCA	*	SO	116- 40
209▼	74-27N	CMOS	HD74HC27FP	HITJ	*	SO	116- 13
210▼	74-27N	CMOS	HD74HC27P	HITJ		DIP	116- 14
211♦	74-27N	CMOS	MC54HC27J(A)	MOTA		DIP	115- 85
212♦	74-27N	CMOS	MC74HC27J(A)	MOTA		DIP	115- 86
213♦	74-27N	CMOS	MC74HC27N(A)	MOTA		DIP	115- 87
214♦	74-27N	CMOS	SN54HC27J	TII		DIP	116- 44
215▼	74-27N	CMOS	SN74HC27D	TII	*	SO	116- 34
216♦	74-27N	CMOS	SN74HC27N	TII		DIP	116- 35
217♦	74-27N	CMOS	TC40H027P	IMTM		DIP	116- 3
218♦	74-27N	CMOS	TC40H027P	TOSJ		DIP	116- 3
219▼	74-27N	CMOS	TC74HC27F(A)	TOSA	*	SO	116- 36
220♦	74-27N	CMOS	TC74HC27P(A)	TOSA		DIP	116- 37

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-27N	CMOS	TC74HC27P(A)	TOSJ		DIP	116- 37
2♦	74-27N	CMOS	US74HCT27N(A)	UNV		DIP	116- 4
3♦	74-27N	TTL	DM5427J	NSC		DIP	115- 72
4♦	74-27N	TTL	DM7427N	NSC		DIP	115- 73
5▼	74-27N	TTL	HD74LS27G	HITJ		DIP	116- 18
6♦	74-27N	TTL	HD74LS27P	HITJ		DIP	116- 19
7♦	74-27N	TTL	MB74LS27	FCAJ		DIP	115- 83
8♦	74-27N	TTL	MB74LS27M	FCAJ		DIP	115- 84
9♦	74-27N	TTL	M53227P	MITJ		DIP	115- 82
10♦	74-27N	TTL	M74ALS27P	MITA		DIP	115- 77
11♦	74-27N	TTL	M74ALS27P	MITJ		DIP	115- 77
12♦	74-27N	TTL	M74LS27P	MITA		DIP	115- 81
13♦	74-27N	TTL	M74LS27P	MITJ		DIP	115- 81
14♦	74-27N	TTL	N74LS27D	MULB	*	SO	115- 88
15♦	74-27N	TTL	N74LS27D	PHIN	*	SO	115- 88
16♦	74-27N	TTL	N74LS27D	RTCF	*	SO	115- 88
17♦	74-27N	TTL	N74LS27D	SIC	*	SO	115- 88
18♦	74-27N	TTL	N74LS27D	VALG	*	SO	115- 88
19♦	74-27N	TTL	N74LS27F	MULB		DIP	115- 89
20♦	74-27N	TTL	N74LS27F	PHIN		DIP	115- 89
21♦	74-27N	TTL	N74LS27F	RTCF		DIP	115- 89
22♦	74-27N	TTL	N74LS27F	VALG		DIP	115- 89
23♦	74-27N	TTL	N74LS27N	MULB		DIP	115- 90
24♦	74-27N	TTL	N74LS27N	PHIN		DIP	115- 90
25♦	74-27N	TTL	N74LS27N	RTCF		DIP	115- 90
26♦	74-27N	TTL	N74LS27N	SIC		DIP	115- 90
27♦	74-27N	TTL	N74LS27N	VALG		DIP	115- 90
28♦	74-27N	TTL	N7427F	MULB		DIP	115- 91
29♦	74-27N	TTL	N7427F	PHIN		DIP	115- 91
30♦	74-27N	TTL	N7427F	RTCF		DIP	115- 91
31♦	74-27N	TTL	N7427F	VALG		DIP	115- 91
32♦	74-27N	TTL	N7427N	MULB		DIP	115- 92
33♦	74-27N	TTL	N7427N	PHIN		DIP	115- 92
34♦	74-27N	TTL	N7427N	RTCF		DIP	115- 92
35♦	74-27N	TTL	N7427N	SIC		DIP	115- 92
36♦	74-27N	TTL	N7427N	VALG		DIP	115- 92
37♦	74-27N	TTL	N8875A	MULB		DIP	115- 93
38♦	74-27N	TTL	N8875A	PHIN		DIP	115- 93
39♦	74-27N	TTL	N8875F	MULB		DIP	115- 94
40♦	74-27N	TTL	N8875F	PHIN		DIP	115- 94
41♦	74-27N	TTL	SN54ALS27J	TII		DIP	116- 43
42♦	74-27N	TTL	SN54AS27J	TII		DIP	116- 9
43♦	74-27N	TTL	SN54LS27J	MOTA		DIP	115-105
44♦	74-27N	TTL	SN54LS27J	TII		DIP	115-105
45▼	74-27N	TTL	SN54LS27N	MOTA		DIP	115-106
46▼	74-27N	TTL	SN74ALS27D	TII	*	SO	116- 23
47♦	74-27N	TTL	SN74ALS27N	TII		DIP	116- 24
48▼	74-27N	TTL	SN74AS27D	TII	*	SO	116- 7
49♦	74-27N	TTL	SN74AS27N	TII		DIP	116- 8
50♦	74-27N	TTL	SN74LS27J	MOTA		DIP	115-108
51♦	74-27N	TTL	SN74LS27N	MOTA		DIP	115-109
52♦	74-27N	TTL	SN74LS27N	TII		DIP	115-109
53♦	74-27N	TTL	SN7427N	TII		DIP	115-110
54♦	74-27N	TTL	S54LS27F	MULB		DIP	115-101
55♦	74-27N	TTL	S54LS27F	PHIN		DIP	115-101
56♦	74-27N	TTL	S54LS27F	VALG		DIP	115-101
57♦	74-27N	TTL	S5427F	MULB		DIP	115-102
58♦	74-27N	TTL	S5427F	PHIN		DIP	115-102
59♦	74-27N	TTL	S5427F	VALG		DIP	115-102
60♦	74-27N	TTL	S8875A	MULB		DIP	115-103
61♦	74-27N	TTL	S8875A	PHIN		DIP	115-103
62♦	74-27N	TTL	S8875F	MULB		DIP	115-104
63♦	74-27N	TTL	S8875F	PHIN		DIP	115-104
64♦	74-27N	TTL	T54LS27D2	SGSI		DIP	116- 1
65♦	74-27N	TTL	T74LS27D1	SGSI		DIP	116- 2
66♦	74-27N	TTL	54LS27DM	FSC		DIP	115- 58
67♦	74-27N	TTL	5427DM	FSC		DIP	115- 61
68♦	74-27N	TTL	74LS27DC	FSC		DIP	115- 59
69♦	74-27N	TTL	74LS27PC	FSC		DIP	115- 60
70♦	74-27N	TTL	7427DC	FSC		DIP	115- 62
71♦	74-27N	TTL	7427PC	FSC		DIP	115- 63
72♦	74-30	CMOS	MC54HC30J(A)	MOTA		DIP	109- 3
73♦	74-30	CMOS	MC74HC30J(A)	MOTA		DIP	109- 4
74♦	74-30	CMOS	MC74HC30N(A)	MOTA		DIP	109- 5
75♦	74-30	CMOS	M54HC30F1(A)	SGSI		DIP	109-104
76♦	74-30	CMOS	M74HC30B1(A)	SGSI		DIP	109-105
77♦	74-30	CMOS	M74HC30F1(A)	SGSI		DIP	109-107
78♦	74-30	CMOS	PC54HCT30D(A)	MULB		DIP	109- 66
79♦	74-30	CMOS	PC54HCT30D(A)	PHIN		DIP	109- 66
80♦	74-30	CMOS	PC54HCT30D(A)	RTCF		DIP	109- 66
81♦	74-30	CMOS	PC54HCT30D(A)	VALG		DIP	109- 66
82♦	74-30	CMOS	PC54HC30D(A)	MULB		DIP	109- 51
83♦	74-30	CMOS	PC54HC30D(A)	PHIN		DIP	109- 51
84♦	74-30	CMOS	PC54HC30D(A)	RTCF		DIP	109- 51
85♦	74-30	CMOS	PC54HC30D(A)	VALG		DIP	109- 51
86♦	74-30	CMOS	PC74HCT30D(A)	MULB		DIP	109- 67
87♦	74-30	CMOS	PC74HCT30D(A)	PHIN		DIP	109- 67
88♦	74-30	CMOS	PC74HCT30D(A)	RTCF		DIP	109- 67
89♦	74-30	CMOS	PC74HCT30D(A)	VALG		DIP	109- 67
90♦	74-30	CMOS	PC74HCT30P	MULB		DIP	110- 54
91♦	74-30	CMOS	PC74HCT30P	PHIN		DIP	110- 54
92♦	74-30	CMOS	PC74HCT30P	RTCF		DIP	110- 54
93♦	74-30	CMOS	PC74HCT30P	VALG		DIP	110- 54
94♦	74-30	CMOS	PC74HCT30T	MULB	*	SO	110- 55
95♦	74-30	CMOS	PC74HCT30T	PHIN	*	SO	110- 55
96♦	74-30	CMOS	PC74HCT30T	RTCF	*	SO	110- 55
97♦	74-30	CMOS	PC74HCT30T	VALG	*	SO	110- 55
98♦	74-30	CMOS	PC74HC30D(A)	MULB		DIP	109- 52
99♦	74-30	CMOS	PC74HC30D(A)	PHIN		DIP	109- 52
100♦	74-30	CMOS	PC74HC30D(A)	RTCF		DIP	109- 52
101♦	74-30	CMOS	PC74HC30D(A)	VALG		DIP	109- 52
102♦	74-30	CMOS	PC74HC30P	MULB		DIP	110- 51
103♦	74-30	CMOS	PC74HC30P	PHIN		DIP	110- 51
104♦	74-30	CMOS	PC74HC30P	RTCF		DIP	110- 51
105♦	74-30	CMOS	PC74HC30P	VALG		DIP	110- 51
106♦	74-30	CMOS	PC74HC30T	MULB	*	SO	110- 52
107♦	74-30	CMOS	PC74HC30T	PHIN	*	SO	110- 52
108♦	74-30	CMOS	PC74HC30T	RTCF	*	SO	110- 52
109♦	74-30	CMOS	PC74HC30T	VALG	*	SO	110- 52
110♦	74-30	CMOS	UPD74HC30C(A)	NECJ		DIP	109- 32
111	74-30	CMOS	74HCT30D	SIC	*	SO	110- 49
112♦	74-30	CMOS	74HCT30N	SIC		DIP	110- 50
113	74-30	CMOS	74HC30D	SIC	*	SO	110- 35
114♦	74-30	CMOS	74HC30N	SIC		DIP	110- 36
115♦	74-30	TTL	DM54ALS30AJ	NSC		DIP	109- 93
116♦	74-30	TTL	DM54AS30J	NSC		DIP	109- 10
117♦	74-30	TTL	DM54LS30J	NSC		DIP	109-108
118♦	74-30	TTL	DM74ALS30AJ	NSC		DIP	109- 62
119♦	74-30	TTL	DM74ALS30AN	NSC		DIP	109- 63
120♦	74-30	TTL	DM74AS30J	NSC		DIP	109- 6
121♦	74-30	TTL	DM74AS30N	NSC		DIP	109- 7
122♦	74-30	TTL	DM74LS30N	NSC		DIP	109-109
123♦	74-30	TTL	DM74S30N	NSC		DIP	109- 48
124♦	74-30	TTL	DN74LS30P1	MATJ		DIP	109-110
125♦	74-30	TTL	DN74LS30P4	MATJ	*	SO	110- 1
126♦	74-30	TTL	M74ALS30AP	MITJ		DIP	109- 65
127▼	74-30	TTL	N74F30D	PHIN		DIP	109- 11
128▼	74-30	TTL	N74F30N	PHIN		DIP	109- 12
129♦	74-30	TTL	SN54ALS30AJ	TII		DIP	109-103
130▼	74-30	TTL	SN74ALS30AD	TII	*	SO	109- 80
131♦	74-30	TTL	SN74ALS30AN	TII		DIP	109- 81
132♦	74-30	TTL	SN74LS30D	TII	*	SO	110- 13
133♦	74-30	TTL	SN74S30D	TII	*	SO	109- 18
134♦	74-30N	CMOS	CD54HCT30F(A)	RCA		DIP	110- 46
135♦	74-30N	CMOS	CD54HC30F(A)	RCA		DIP	110- 45
136♦	74-30N	CMOS	CD74HCT30E	RCA		DIP	110- 39
137♦	74-30N	CMOS	CD74HCT30M(A)	RCA	*	SO	110- 40
138♦	74-30N	CMOS	CD74HC30E	RCA		DIP	110- 37
139♦	74-30N	CMOS	CD74HC30M	RCA	*	SO	110- 38
140▼	74-30N	CMOS	HD74HC30FP	HITJ	*	SO	109- 54
141▼	74-30N	CMOS	HD74HC30P	HITJ		DIP	109- 55
142♦	74-30N	CMOS	MM54C30D	NSC		DIP	110- 89
143♦	74-30N	CMOS	MM54HC30J(A)	NSC		DIP	109- 90
144♦	74-30N	CMOS	MM74C30N	NSC		DIP	110- 90
145♦	74-30N	CMOS	MM74HC30J	NSC		DIP	109- 91
146♦	74-30N	CMOS	MM74HC30N(A)	NSC		DIP	109- 92
147♦	74-30N	CMOS	SN54HC30J	TII		DIP	110- 53
148▼	74-30N	CMOS	SN74HC30D	TII	*	SO	110- 47
149♦	74-30N	CMOS	SN74HC30N	TII		DIP	110- 48
150♦	74-30N	CMOS	US74HCT30N(A)	UNV		DIP	110- 41
151♦	74-30N	TTL	DM54H30J	NSC		DIP	109- 61
152♦	74-30N	TTL	DM54L30J	NSC		DIP	110- 71
153♦	74-30N	TTL	DM5430J	NSC		DIP	110- 25
154♦	74-30N	TTL	DM74H30N	NSC		DIP	109- 64
155♦	74-30N	TTL	DM74L30N	NSC		DIP	110- 72
156♦	74-30N	TTL	DM7430N	NSC		DIP	110- 27
157♦	74-30N	TTL	FJH101-7430	PHIN		DIP	109- 53
158▼	74-30N	TTL	HD74LS30G	HITJ		DIP	110- 2
159♦	74-30N	TTL	HD74LS30P	HITJ		DIP	110- 3
160♦	74-30N	TTL	MB403	FCAJ		DIP	109- 49
161♦	74-30N	TTL	MB403M	FCAJ		DIP	109- 50
162♦	74-30N	TTL	MB604	FCAJ		DIP	109- 16
163♦	74-30N	TTL	MB74LS30	FCAJ		DIP	110- 5
164♦	74-30N	TTL	MB74LS30M	FCAJ		DIP	110- 6
165♦	74-30N	TTL	M53230P	MITJ		DIP	109- 83
166♦	74-30N	TTL	M74ALS30P	MITA		DIP	110- 16
167♦	74-30N	TTL	M74LS30P	MITA		DIP	110- 4
168♦	74-30N	TTL	M74LS30P	MITJ		DIP	110- 4
169♦	74-30N	TTL	N74H30F	MULB		DIP	109- 33
170♦	74-30N	TTL	N74H30F	PHIN		DIP	109- 33
171♦	74-30N	TTL	N74H30F	VALG		DIP	109- 33
172♦	74-30N	TTL	N74H30N	MULB		DIP	109- 34
173♦	74-30N	TTL	N74H30N	PHIN		DIP	109- 34
174♦	74-30N	TTL	N74H30N	VALG		DIP	109- 34
175♦	74-30N	TTL	N74LS30D	MULB	*	SO	110- 7
176♦	74-30N	TTL	N74LS30D	PHIN	*	SO	110- 7
177♦	74-30N	TTL	N74LS30D	RTCF	*	SO	110- 7
178♦	74-30N	TTL	N74LS30D	SIC	*	SO	110- 7
179♦	74-30N	TTL	N74LS30D	VALG	*	SO	110- 7
180♦	74-30N	TTL	N74LS30N	MULB		DIP	110- 8
181♦	74-30N	TTL	N74LS30N	PHIN		DIP	110- 8
182♦	74-30N	TTL	N74LS30N	RTCF		DIP	110- 8
183♦	74-30N	TTL	N74LS30N	SIC		DIP	110- 8
184♦	74-30N	TTL	N74LS30N	VALG		DIP	110- 8
185♦	74-30N	TTL	N7430F	MULB		DIP	110- 28
186♦	74-30N	TTL	N7430F	PHIN		DIP	110- 28
187♦	74-30N	TTL	N7430F	RTCF		DIP	110- 28
188♦	74-30N	TTL	N7430F	VALG		DIP	110- 28
189♦	74-30N	TTL	N7430N	MULB		DIP	110- 29
190♦	74-30N	TTL	N7430N	PHIN		DIP	110- 29
191♦	74-30N	TTL	N7430N	RTCF		DIP	110- 29
192♦	74-30N	TTL	N7430N	SIC		DIP	110- 29
193♦	74-30N	TTL	N7430N	VALG		DIP	110- 29
194♦	74-30N	TTL	N8808A	MULB		DIP	109- 84
195♦	74-30N	TTL	N8808A	PHIN		DIP	109- 84
196♦	74-30N	TTL	SFC430E	THEF		DIP	109- 88
197♦	74-30N	TTL	SFC430EM	THEF		DIP	110- 32
198♦	74-30N	TTL	SFC430ET	THEF		DIP	110- 33
199♦	74-30N	TTL	SFC430HE	THEF		DIP	109- 14
200♦	74-30N	TTL	SFC430HEM	THEF		DIP	109- 56
201♦	74-30N	TTL	SFC430LE	THEF		DIP	110- 56
202♦	74-30N	TTL	SFC430LEM	THEF		DIP	110- 57
203♦	74-30N	TTL	SN54AS30J	TII		DIP	109- 13
204♦	74-30N	TTL	SN54LS30J	MOTA		DIP	110- 11
205♦	74-30N	TTL	SN54LS30J	TII		DIP	110- 11
206▼	74-30N	TTL	SN54LS30N	MOTA		DIP	110- 12
207♦	74-30N	TTL	SN54S30J	TII		DIP	109- 17
208▼	74-30N	TTL	SN74AS30D	TII	*	SO	109- 8
209♦	74-30N	TTL	SN74AS30N	TII		DIP	109- 9
210♦	74-30N	TTL	SN74LS30J	MOTA		DIP	110- 14
211♦	74-30N	TTL	SN74LS30N	MOTA		DIP	110- 15
212♦	74-30N	TTL	SN74LS30N	TII		DIP	110- 15
213♦	74-30N	TTL	SN74S30N	TII		DIP	109- 19
214♦	74-30N	TTL	SN7430N	TII		DIP	110- 34
215♦	74-30N	TTL	S54H30F	MULB		DIP	109- 36
216♦	74-30N	TTL	S54H30F	PHIN		DIP	109- 36
217♦	74-30N	TTL	S54H30F	VALG		DIP	109- 36
218♦	74-30N	TTL	S54LS30F	MULB		DIP	110- 9
219♦	74-30N	TTL	S54LS30F	PHIN		DIP	110- 9
220♦	74-30N	TTL	S54LS30F	RTCF		DIP	110- 9

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-30N	TTL	S54LS30F	SIC		DIP	110- 9
2♦	74-30N	TTL	S54LS30F	VALG		DIP	110- 9
3♦	74-30N	TTL	S5430F	MULB		DIP	110- 30
4♦	74-30N	TTL	S5430F	PHIN		DIP	110- 30
5♦	74-30N	TTL	S5430F	VALG		DIP	110- 30
6♦	74-30N	TTL	S8808A	MULB		DIP	109- 86
7♦	74-30N	TTL	S8808A	PHIN		DIP	109- 86
8♦	74-30N	TTL	T54LS30D2	SGSI		DIP	109- 42
9♦	74-30N	TTL	T74LS30B1	SGSI		DIP	109- 43
10♦	74-30N	TTL	T74LS30D1	SGSI		DIP	109- 44
11♦	74-30N	TTL	54H30DM	FSC		DIP	109- 57
12♦	74-30N	TTL	54LS30DM	FSC		DIP	109- 38
13♦	74-30N	TTL	54S30DM	FSC		DIP	110- 17
14♦	74-30N	TTL	5430DM	FSC		DIP	110- 21
15♦	74-30N	TTL	74H30DC	FSC		DIP	109- 59
16♦	74-30N	TTL	74H30PC	FSC		DIP	109- 60
17♦	74-30N	TTL	74LS30DC	FSC		DIP	109- 40
18♦	74-30N	TTL	74LS30PC	FSC		DIP	109- 41
19♦	74-30N	TTL	74S30DC	FSC		DIP	110- 19
20♦	74-30N	TTL	74S30PC	FSC		DIP	110- 20
21♦	74-30N	TTL	7430DC	FSC		DIP	110- 23
22♦	74-30N	TTL	7430PC	FSC		DIP	110- 24
23▼	74-30P	CMOS	TC74HC30F(A)	TOSA	*	SO	110- 42
24♦	74-30P	CMOS	TC74HC30P(A)	TOSA		DIP	110- 43
25♦	74-30P	CMOS	TC74HC30P(A)	TOSJ		DIP	110- 43
26	74LS31	TTL	SN74LS31D	TII	*	SO	191- 82
27♦	74LS31	TTL	SN74LS31N	TII		DIP	191- 83
28♦	74-32	CMOS	LC74HC32	TSAJ		DIP	121- 65
29♦	74-32	CMOS	MC54HC32J	MOTA		DIP	120- 44
30♦	74-32	CMOS	MC74HC32J(A)	MOTA		DIP	120- 47
31♦	74-32	CMOS	MC74HC32N(A)	MOTA		DIP	120- 48
32♦	74-32	CMOS	M54HC32F1(A)	SGSI		DIP	120- 32
33♦	74-32	CMOS	M74HC32B1(A)	SGSI		DIP	120- 34
34♦	74-32	CMOS	M74HC32F1(A)	SGSI		DIP	120- 35
35♦	74-32	CMOS	M74HC32P	MITJ		DIP	120- 36
36♦	74-32	CMOS	PC54HCT32D(A)	MULB		DIP	120- 70
37♦	74-32	CMOS	PC54HCT32D(A)	PHIN		DIP	120- 70
38♦	74-32	CMOS	PC54HCT32D(A)	RTCF		DIP	120- 70
39♦	74-32	CMOS	PC54HCT32D(A)	VALG		DIP	120- 70
40♦	74-32	CMOS	PC54HC32D(A)	MULB		DIP	120- 69
41♦	74-32	CMOS	PC54HC32D(A)	PHIN		DIP	120- 69
42♦	74-32	CMOS	PC54HC32D(A)	RTCF		DIP	120- 69
43♦	74-32	CMOS	PC54HC32D(A)	VALG		DIP	120- 69
44♦	74-32	CMOS	PC74HCT32D(A)	MULB		DIP	120- 72
45♦	74-32	CMOS	PC74HCT32D(A)	PHIN		DIP	120- 72
46♦	74-32	CMOS	PC74HCT32D(A)	RTCF		DIP	120- 72
47♦	74-32	CMOS	PC74HCT32D(A)	VALG		DIP	120- 72
48♦	74-32	CMOS	PC74HCT32P	MULB		DIP	121- 98
49♦	74-32	CMOS	PC74HCT32P	PHIN		DIP	121- 98
50♦	74-32	CMOS	PC74HCT32P	RTCF		DIP	121- 98
51♦	74-32	CMOS	PC74HCT32P	VALG		DIP	121- 98
52♦	74-32	CMOS	PC74HCT32T	MULB	*	SO	121- 99
53♦	74-32	CMOS	PC74HCT32T	PHIN	*	SO	121- 99
54♦	74-32	CMOS	PC74HCT32T	RTCF	*	SO	121- 99
55♦	74-32	CMOS	PC74HCT32T	VALG	*	SO	121- 99
56♦	74-32	CMOS	PC74HC32D(A)	MULB		DIP	120- 71
57♦	74-32	CMOS	PC74HC32D(A)	PHIN		DIP	120- 71
58♦	74-32	CMOS	PC74HC32D(A)	RTCF		DIP	120- 71
59♦	74-32	CMOS	PC74HC32D(A)	VALG		DIP	120- 71
60♦	74-32	CMOS	PC74HC32P	MULB		DIP	121- 81
61♦	74-32	CMOS	PC74HC32P	PHIN		DIP	121- 81
62♦	74-32	CMOS	PC74HC32P	RTCF		DIP	121- 81
63♦	74-32	CMOS	PC74HC32P	VALG		DIP	121- 81
64♦	74-32	CMOS	PC74HC32T	MULB	*	SO	121- 82
65♦	74-32	CMOS	PC74HC32T	PHIN	*	SO	121- 82
66♦	74-32	CMOS	PC74HC32T	RTCF	*	SO	121- 82
67♦	74-32	CMOS	PC74HC32T	VALG	*	SO	121- 82
68♦	74-32	CMOS	UPD74HC32C(A)	NECJ		DIP	121- 49
69	74-32	CMOS	74HCT32D	SIC	*	SO	121- 84
70♦	74-32	CMOS	74HCT32N	SIC		DIP	121- 85
71	74-32	CMOS	74HC32D	SIC	*	SO	121- 59
72♦	74-32	CMOS	74HC32N	SIC		DIP	121- 60
73♦	74-32	TTL	DM54ALS32J	NSC		DIP	120- 18
74♦	74-32	TTL	DM54AS32J	NSC		DIP	120- 19
75♦	74-32	TTL	DM54LS32J	NSC		DIP	120- 20
76♦	74-32	TTL	DM74ALS32J	NSC		DIP	120- 21
77♦	74-32	TTL	DM74ALS32N	NSC		DIP	120- 22
78♦	74-32	TTL	DM74AS32J	NSC		DIP	120- 23
79♦	74-32	TTL	DM74AS32N	NSC		DIP	120- 24
80♦	74-32	TTL	DM74LS32N	NSC		DIP	120- 25
81♦	74-32	TTL	DM74S32N	NSC		DIP	121- 46
82♦	74-32	TTL	DN74LS32P1	MATJ		DIP	120- 29
83♦	74-32	TTL	DN74LS32P4	MATJ	*	SO	120- 30
84♦	74-32	TTL	MC54F32J	MOTA		DIP	120- 42
85▼	74-32	TTL	MC54F32N	MOTA		DIP	120- 43
86♦	74-32	TTL	MC74F32J	MOTA		DIP	120- 45
87♦	74-32	TTL	MC74F32N	MOTA		DIP	120- 46
88♦	74-32	TTL	N74F32D	MULB	*	SO	121- 37
89♦	74-32	TTL	N74F32D	PHIN	*	SO	121- 37
90♦	74-32	TTL	N74F32D	RTCF	*	SO	121- 37
91♦	74-32	TTL	N74F32D	SIC	*	SO	121- 37
92♦	74-32	TTL	N74F32D	VALG	*	SO	121- 37
93♦	74-32	TTL	N74F32N	MULB		DIP	121- 38
94♦	74-32	TTL	N74F32N	PHIN		DIP	121- 38
95♦	74-32	TTL	N74F32N	RTCF		DIP	121- 38
96♦	74-32	TTL	N74F32N	SIC		DIP	121- 38
97♦	74-32	TTL	N74F32N	VALG		DIP	121- 38
98♦	74-32	TTL	SN74LS32D	TII	*	SO	120- 79
99♦	74-32	TTL	SN74S32D	TII	*	SO	120- 82
100♦	74-32	TTL	S54F32F	MULB		DIP	121- 43
101♦	74-32	TTL	S54F32F	PHIN		DIP	121- 43
102♦	74-32	TTL	S54F32F	RTCF		DIP	121- 43
103♦	74-32	TTL	S54F32F	VALG		DIP	121- 43
104♦	74-32N	CMOS	CD54HCT32F	RCA		DIP	121- 76
105♦	74-32N	CMOS	CD54HC32F	RCA		DIP	121- 75
106♦	74-32N	CMOS	CD74HCT32E	RCA		DIP	121- 63
107♦	74-32N	CMOS	CD74HCT32M	RCA	*	SO	121- 64
108♦	74-32N	CMOS	CD74HC32E(A)	RCA		DIP	121- 61
109♦	74-32N	CMOS	CD74HC32M	RCA	*	SO	121- 62
110▼	74-32N	CMOS	HD74HC32FP	HITJ	*	SO	121- 47
111▼	74-32N	CMOS	HD74HC32P	HITJ		DIP	121- 48
112♦	74-32N	CMOS	MM54C32D	NSC		DIP	120- 60
113♦	74-32N	CMOS	MM54HC32J	NSC		DIP	120- 61
114♦	74-32N	CMOS	MM74C32N	NSC		DIP	120- 62
115♦	74-32N	CMOS	MM74PC32J	NSC		DIP	121- 54
116♦	74-32N	CMOS	MM74PC32JI	NSC		DIP	121- 55
117♦	74-32N	CMOS	MM74PC32N	NSC		DIP	121- 56
118♦	74-32N	CMOS	MM74PC32NI	NSC		DIP	121- 57
119♦	74-32N	CMOS	SN54HC32J	TII		DIP	121- 87
120▼	74-32N	CMOS	SN74HC32D	TII	*	SO	121- 79
121♦	74-32N	CMOS	SN74HC32N	TII		DIP	121- 80
122♦	74-32N	CMOS	TC40H032P	IMTM		DIP	120- 89
123♦	74-32N	CMOS	TC40H032P	TOSJ		DIP	120- 89
124▼	74-32N	CMOS	TC74HC32F(A)	TOSA	*	SO	121- 77
125♦	74-32N	CMOS	TC74HC32P(A)	TOSA		DIP	121- 78
126♦	74-32N	CMOS	TC74HC32P(A)	TOSJ		DIP	121- 78
127♦	74-32N	CMOS	US74HCT32N(A)	UNV		DIP	120- 90
128♦	74-32N	DTL	MC1808L,P	MOTA		DIP	120- 49
129♦	74-32N	DTL	MC1809L,P	MOTA		DIP	120- 50
130♦	74-32N	DTL	MC1908L	MOTA		DIP	120- 51
131♦	74-32N	DTL	MC1909L	MOTA		DIP	120- 52
132♦	74-32N	TTL	DM5432J	NSC		DIP	120- 26
133♦	74-32N	TTL	DM7432N	NSC		DIP	120- 27
134▼	74-32N	TTL	HD74LS32G	HITJ		DIP	121- 70
135♦	74-32N	TTL	HD74LS32P	HITJ		DIP	121- 71
136♦	74-32N	TTL	MB74LS32	FCAJ		DIP	120- 38
137♦	74-32N	TTL	MB74LS32M	FCAJ		DIP	120- 39
138♦	74-32N	TTL	M74ALS32P	MITA		DIP	120- 33
139♦	74-32N	TTL	M74ALS32P	MITJ		DIP	120- 33
140♦	74-32N	TTL	M74LS32P	MITA		DIP	120- 37
141♦	74-32N	TTL	M74LS32P	MITJ		DIP	120- 37
142♦	74-32N	TTL	N74LS32D	MULB	*	SO	120- 63
143♦	74-32N	TTL	N74LS32D	PHIN	*	SO	120- 63
144♦	74-32N	TTL	N74LS32D	RTCF	*	SO	120- 63
145♦	74-32N	TTL	N74LS32D	SIC	*	SO	120- 63
146♦	74-32N	TTL	N74LS32D	VALG	*	SO	120- 63
147♦	74-32N	TTL	N74LS32N	MULB		DIP	120- 64
148♦	74-32N	TTL	N74LS32N	PHIN		DIP	120- 64
149♦	74-32N	TTL	N74LS32N	RTCF		DIP	120- 64
150♦	74-32N	TTL	N74LS32N	SIC		DIP	120- 64
151♦	74-32N	TTL	N74LS32N	VALG		DIP	120- 64
152♦	74-32N	TTL	N74S32D	MULB	*	SO	120- 65
153♦	74-32N	TTL	N74S32D	PHIN	*	SO	120- 65
154♦	74-32N	TTL	N74S32D	RTCF	*	SO	120- 65
155♦	74-32N	TTL	N74S32D	SIC	*	SO	120- 65
156♦	74-32N	TTL	N74S32D	VALG	*	SO	120- 65
157♦	74-32N	TTL	N74S32N	MULB		DIP	120- 66
158♦	74-32N	TTL	N74S32N	PHIN		DIP	120- 66
159♦	74-32N	TTL	N74S32N	RTCF		DIP	120- 66
160♦	74-32N	TTL	N74S32N	SIC		DIP	120- 66
161♦	74-32N	TTL	N74S32N	VALG		DIP	120- 66
162♦	74-32N	TTL	N7432F	MULB		DIP	120- 67
163♦	74-32N	TTL	N7432F	PHIN		DIP	120- 67
164♦	74-32N	TTL	N7432F	RTCF		DIP	120- 67
165♦	74-32N	TTL	N7432F	VALG		DIP	120- 67
166♦	74-32N	TTL	N7432N	MULB		DIP	120- 68
167♦	74-32N	TTL	N7432N	PHIN		DIP	120- 68
168♦	74-32N	TTL	N7432N	RTCF		DIP	120- 68
169♦	74-32N	TTL	N7432N	SIC		DIP	120- 68
170♦	74-32N	TTL	N7432N	VALG		DIP	120- 68
171♦	74-32N	TTL	SN54ALS32J	TII		DIP	121- 58
172♦	74-32N	TTL	SN54LS32J	MOTA		DIP	120- 76
173♦	74-32N	TTL	SN54LS32J	TII		DIP	120- 76
174▼	74-32N	TTL	SN54LS32N	MOTA		DIP	120- 77
175♦	74-32N	TTL	SN54S32J	TII		DIP	120- 78
176♦	74-32N	TTL	SN5432J	TII		DIP	120- 84
177▼	74-32N	TTL	SN74ALS32D	TII	*	SO	121- 50
178♦	74-32N	TTL	SN74ALS32N	TII		DIP	121- 51
179▼	74-32N	TTL	SN74AS32D	TII	*	SO	121- 32
180♦	74-32N	TTL	SN74AS32N	TII		DIP	121- 33
181♦	74-32N	TTL	SN74LS32J	MOTA		DIP	120- 80
182♦	74-32N	TTL	SN74LS32N	MOTA		DIP	120- 81
183♦	74-32N	TTL	SN74LS32N	TII		DIP	120- 81
184♦	74-32N	TTL	SN74S32N	TII		DIP	120- 83
185♦	74-32N	TTL	SN7432N	TII		DIP	120- 85
186♦	74-32N	TTL	S54LS32F	MULB		DIP	120- 73
187♦	74-32N	TTL	S54LS32F	PHIN		DIP	120- 73
188♦	74-32N	TTL	S54LS32F	RTCF		DIP	120- 73
189♦	74-32N	TTL	S54LS32F	SIC		DIP	120- 73
190♦	74-32N	TTL	S54LS32F	VALG		DIP	120- 73
191♦	74-32N	TTL	S54S32F	MULB		DIP	120- 74
192♦	74-32N	TTL	S54S32F	PHIN		DIP	120- 74
193♦	74-32N	TTL	S54S32F	VALG		DIP	120- 74
194♦	74-32N	TTL	S5432F	MULB		DIP	120- 75
195♦	74-32N	TTL	S5432F	PHIN		DIP	120- 75
196♦	74-32N	TTL	S5432F	RTCF		DIP	120- 75
197♦	74-32N	TTL	S5432F	SIC		DIP	120- 75
198♦	74-32N	TTL	S5432F	VALG		DIP	120- 75
199♦	74-32N	TTL	T54LS32D2	SGSI		DIP	120- 86
200♦	74-32N	TTL	T74LS32B1	SGSI		DIP	120- 87
201♦	74-32N	TTL	T74LS32D1	SGSI		DIP	120- 88
202♦	74-32N	TTL	54F32DM	FSC		DIP	120- 6
203♦	74-32N	TTL	54LS32DM	FSC		DIP	120- 7
204♦	74-32N	TTL	54S32DM	FSC		DIP	120- 8
205♦	74-32N	TTL	5432DM	FSC		DIP	120- 15
206♦	74-32N	TTL	74F32DC	FSC		DIP	120- 9
207♦	74-32N	TTL	74F32PC	FSC		DIP	120- 10
208♦	74-32N	TTL	74LS32DC	FSC		DIP	120- 11
209♦	74-32N	TTL	74LS32PC	FSC		DIP	120- 12
210♦	74-32N	TTL	74S32DC	FSC		DIP	120- 13
211♦	74-32N	TTL	74S32PC	FSC		DIP	120- 14
212♦	74-32N	TTL	7432DC	FSC		DIP	120- 16
213♦	74-32N	TTL	7432PC	FSC		DIP	120- 17
214♦	74-33N	TTL	74LS33PC	FSC		DIP	113- 99
215♦	74HC36	CMOS	SN54HC36J	TII		DIP	114- 18
216▼	74HC36	CMOS	SN74HC36D	TII	*	SO	114- 5
217♦	74HC36	CMOS	SN74HC36N	TII		DIP	114- 6
218	74-42	CMOS	CD54HCT42F	RCA		DIP	126- 56
219	74-42	CMOS	CD54HC42F	RCA		DIP	126- 55
220	74-42	CMOS	CD74HCT42E	RCA		DIP	126- 59

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1	74-42	CMOS	CD74HC42E	RCA		DIP	126- 57
2▼	74-42	CMOS	HD74HC42FP	HITJ	*	SO	126- 96
3▼	74-42	CMOS	HD74HC42P	HITJ		DIP	126- 97
4♦	74-42	CMOS	M54HC42F1(A)	SGSI		DIP	127- 2
5♦	74-42	CMOS	M74HC42B1(A)	SGSI		DIP	127- 4
6♦	74-42	CMOS	M74HC42F1(A)	SGSI		DIP	127- 6
7♦	74-42	CMOS	M74HC42P	MITJ		DIP	127- 7
8♦	74-42	CMOS	PC54HCT42D(A)	MULB		DIP	127- 52
9♦	74-42	CMOS	PC54HCT42D(A)	PHIN		DIP	127- 52
10♦	74-42	CMOS	PC54HCT42D(A)	RTCF		DIP	127- 52
11♦	74-42	CMOS	PC54HCT42D(A)	VALG		DIP	127- 52
12♦	74-42	CMOS	PC54HC42D(A)	MULB		DIP	127- 51
13♦	74-42	CMOS	PC54HC42D(A)	PHIN		DIP	127- 51
14♦	74-42	CMOS	PC54HC42D(A)	RTCF		DIP	127- 51
15♦	74-42	CMOS	PC54HC42D(A)	VALG		DIP	127- 51
16♦	74-42	CMOS	PC74HCT42D(A)	MULB		DIP	127- 56
17♦	74-42	CMOS	PC74HCT42D(A)	PHIN		DIP	127- 56
18♦	74-42	CMOS	PC74HCT42D(A)	RTCF		DIP	127- 56
19♦	74-42	CMOS	PC74HCT42D(A)	VALG		DIP	127- 56
20♦	74-42	CMOS	PC74HCT42P	MULB		DIP	127- 57
21♦	74-42	CMOS	PC74HCT42P	PHIN		DIP	127- 57
22♦	74-42	CMOS	PC74HCT42P	RTCF		DIP	127- 57
23♦	74-42	CMOS	PC74HCT42P	VALG		DIP	127- 57
24	74-42	CMOS	PC74HCT42T	MULB	*	SO	127- 58
25	74-42	CMOS	PC74HCT42T	PHIN	*	SO	127- 58
26	74-42	CMOS	PC74HCT42T	RTCF	*	SO	127- 58
27	74-42	CMOS	PC74HCT42T	VALG	*	SO	127- 58
28♦	74-42	CMOS	PC74HC42D(A)	MULB		DIP	127- 53
29♦	74-42	CMOS	PC74HC42D(A)	PHIN		DIP	127- 53
30♦	74-42	CMOS	PC74HC42D(A)	RTCF		DIP	127- 53
31♦	74-42	CMOS	PC74HC42D(A)	VALG		DIP	127- 53
32♦	74-42	CMOS	PC74HC42P	MULB		DIP	127- 54
33♦	74-42	CMOS	PC74HC42P	PHIN		DIP	127- 54
34♦	74-42	CMOS	PC74HC42P	RTCF		DIP	127- 54
35♦	74-42	CMOS	PC74HC42P	VALG		DIP	127- 54
36	74-42	CMOS	PC74HC42T	MULB	*	SO	127- 55
37	74-42	CMOS	PC74HC42T	PHIN	*	SO	127- 55
38	74-42	CMOS	PC74HC42T	RTCF	*	SO	127- 55
39	74-42	CMOS	PC74HC42T	VALG	*	SO	127- 55
40▼	74-42	CMOS	TC74HC42F(A)	TOSA	*	SO	127- 77
41▼	74-42	CMOS	TC74HC42P(A)	TOSA		DIP	127- 78
42♦	74-42	CMOS	UPD74HC42C(A)	NECJ		DIP	127- 82
43	74-42	CMOS	74HCT42D	SIC	*	SO	125- 54
44♦	74-42	CMOS	74HCT42N	SIC		DIP	125- 55
45	74-42	CMOS	74HC42D	SIC	*	SO	125- 52
46♦	74-42	CMOS	74HC42N	SIC		DIP	125- 53
47♦	74-42	DTL	FCH301	PHIN		DIP	126- 78
48♦	74-42	TTL	DM54LS42AJ	NSC		DIP	126- 75
49♦	74-42	TTL	DM74LS42AN	NSC		DIP	126- 77
50♦	74-42	TTL	DN74LS42P2	MATJ		DIP	127- 84
51	74-42	TTL	DN74LS42P5	MATJ	*	SO	127- 85
52♦	74-42N	CMOS	MM54HC42J	NSC		DIP	127- 32
53♦	74-42N	CMOS	MM74HC42J	NSC		DIP	127- 34
54♦	74-42N	CMOS	MM74HC42N	NSC		DIP	127- 35
55	74-42N	CMOS	TC40H042P(2)	IMTM		DIP	127- 76
56	74-42N	CMOS	TC40H042P(2)	TOSJ		DIP	127- 76
57♦	74-42N	DTL	FZL101(2)	SIEG		DIP	126- 80
58♦	74-42N	DTL	FZL101(2)	VALG		DIP	126- 80
59♦	74-42N	DTL	FZL105(2)	SIEG		DIP	126- 81
60♦	74-42N	TTL	DM54L42AJ	NSC		DIP	126- 73
61♦	74-42N	TTL	DM74L42AN	NSC		DIP	126- 76
62♦	74-42N	TTL	FJH261-7442	PHIN		DIP	126- 79
63▼	74-42N	TTL	HD74LS42G	HITJ		DIP	126- 98
64♦	74-42N	TTL	HD74LS42P	HITJ		DIP	126- 99
65♦	74-42N	TTL	MB442	FCAJ		DIP	127- 16
66♦	74-42N	TTL	MB442M	FCAJ		DIP	127- 17
67♦	74-42N	TTL	MB74LS42	FCAJ		DIP	127- 14
68♦	74-42N	TTL	MB74LS42M	FCAJ		DIP	127- 15
69♦	74-42N	TTL	M53242P	MITJ		DIP	127- 13
70♦	74-42N	TTL	M74LS42P	MITA		DIP	127- 11
71♦	74-42N	TTL	M74LS42P	MITJ		DIP	127- 11
72	74-42N	TTL	N74LS42D	MULB	*	SO	127- 40
73	74-42N	TTL	N74LS42D	PHIN	*	SO	127- 40
74	74-42N	TTL	N74LS42D	RTCF	*	SO	127- 40
75	74-42N	TTL	N74LS42D	SIC	*	SO	127- 40
76	74-42N	TTL	N74LS42D	VALG	*	SO	127- 40
77♦	74-42N	TTL	N74LS42N(2)	MULB		DIP	127- 41
78♦	74-42N	TTL	N74LS42N(2)	PHIN		DIP	127- 41
79♦	74-42N	TTL	N74LS42N(2)	RTCF		DIP	127- 41
80♦	74-42N	TTL	N74LS42N(2)	SIC		DIP	127- 41
81♦	74-42N	TTL	N74LS42N(2)	VALG		DIP	127- 41
82▼	74-42N	TTL	N7442F	MULB		DIP	127- 44
83▼	74-42N	TTL	N7442F	PHIN		DIP	127- 44
84▼	74-42N	TTL	N7442F	VALG		DIP	127- 44
85▼	74-42N	TTL	N7442N	MULB		DIP	127- 45
86▼	74-42N	TTL	N7442N	PHIN		DIP	127- 45
87▼	74-42N	TTL	N7442N	RTCF		DIP	127- 45
88▼	74-42N	TTL	N7442N	SIC		DIP	127- 45
89▼	74-42N	TTL	N7442N	VALG		DIP	127- 45
90♦	74-42N	TTL	SFC442E	THEF		DIP	127- 71
91♦	74-42N	TTL	SFC442EM	THEF		DIP	127- 72
92♦	74-42N	TTL	SFC442ET	THEF		DIP	127- 73
93♦	74-42N	TTL	SN5442AJ	TII		DIP	127- 74
94♦	74-42N	TTL	SN7442AN	TII		DIP	127- 75
95♦	74-42N	TTL	S54LS42F(2)	MULB		DIP	127- 59
96♦	74-42N	TTL	S54LS42F(2)	PHIN		DIP	127- 59
97♦	74-42N	TTL	S54LS42F(2)	RTCF		DIP	127- 59
98♦	74-42N	TTL	S54LS42F(2)	SIC		DIP	127- 59
99♦	74-42N	TTL	S54LS42F(2)	VALG		DIP	127- 59
100♦	74-42N	TTL	S5442F(2)	MULB		DIP	127- 62
101♦	74-42N	TTL	S5442F(2)	PHIN		DIP	127- 62
102♦	74-42N	TTL	S5442F(2)	RTCF		DIP	127- 62
103♦	74-42N	TTL	S5442F(2)	SIC		DIP	127- 62
104♦	74-42N	TTL	S5442F(2)	VALG		DIP	127- 62
105♦	74-42N	TTL	54LS42DM	FSC		DIP	126- 27
106♦	74-42N	TTL	5442ADM	FSC		DIP	126- 41
107♦	74-42N	TTL	74LS42DC	FSC		DIP	126- 29
108♦	74-42N	TTL	74LS42PC	FSC		DIP	126- 30
109♦	74-42N	TTL	7442ADC	FSC		DIP	126- 43
110	74-42N	TTL	7442APC	FSC			126- 44

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
111♦	74-43N	TTL	N7443F	MULB		DIP	127- 90
112♦	74-43N	TTL	N7443F	PHIN		DIP	127- 90
113♦	74-43N	TTL	N7443F	VALG		DIP	127- 90
114♦	74-43N	TTL	N7443N	MULB		DIP	127- 46
115♦	74-43N	TTL	N7443N	PHIN		DIP	127- 46
116♦	74-43N	TTL	N7443N	VALG		DIP	127- 46
117♦	74-43N	TTL	S5443F	MULB		DIP	127- 91
118♦	74-43N	TTL	S5443F	PHIN		DIP	127- 91
119♦	74-43N	TTL	S5443F	SIC		DIP	127- 91
120♦	74-43N	TTL	S5443F	VALG		DIP	127- 91
121♦	74-44N	TTL	N7444F	MULB		DIP	127- 97
122♦	74-44N	TTL	N7444F	PHIN		DIP	127- 97
123♦	74-44N	TTL	N7444F	VALG		DIP	127- 97
124♦	74-44N	TTL	N7444N	MULB		DIP	127- 98
125♦	74-44N	TTL	N7444N	PHIN		DIP	127- 98
126♦	74-44N	TTL	N7444N	VALG		DIP	127- 98
127♦	74-44N	TTL	S5444F	MULB		DIP	127- 99
128♦	74-44N	TTL	S5444F	PHIN		DIP	127- 99
129♦	74-44N	TTL	S5444F	VALG		DIP	127- 99
130♦	74-50N	CMOS	MC74HC51N(A)	MOTA		DIP	88- 72
131♦	74-50N	TTL	DM54H50J	NSC		DIP	85- 91
132♦	74-50N	TTL	DM5450J	NSC		DIP	85- 94
133♦	74-50N	TTL	DM74H50N	NSC		DIP	85- 92
134♦	74-50N	TTL	DM7450N	NSC		DIP	85- 98
135♦	74-50N	TTL	DM9005CJ	NSC		DIP	85-100
136♦	74-50N	TTL	DM9005CN	NSC		DIP	85-101
137♦	74-50N	TTL	FJH151-7450	PHIN		DIP	85-102
138♦	74-50N	TTL	FJH161-7451	PHIN		DIP	85-103
139♦	74-50N	TTL	MB405	FCAJ		DIP	85-105
140♦	74-50N	TTL	MB405M	FCAJ		DIP	85-106
141♦	74-50N	TTL	MB606	FCAJ		DIP	85-107
142♦	74-50N	TTL	M53250P	MITJ		DIP	85-104
143♦	74-50N	TTL	N74H50F	MULB		DIP	86- 1
144♦	74-50N	TTL	N74H50F	PHIN		DIP	86- 1
145♦	74-50N	TTL	N74H50F	VALG		DIP	86- 1
146♦	74-50N	TTL	N74H50N	MULB		DIP	86- 2
147♦	74-50N	TTL	N74H50N	PHIN		DIP	86- 2
148♦	74-50N	TTL	N74H50N	VALG		DIP	86- 2
149♦	74-50N	TTL	N7450F	MULB		DIP	86- 7
150♦	74-50N	TTL	N7450F	PHIN		DIP	86- 7
151♦	74-50N	TTL	N7450F	RTCF		DIP	86- 7
152♦	74-50N	TTL	N7450F	VALG		DIP	86- 7
153♦	74-50N	TTL	N7450N	MULB		DIP	86- 8
154♦	74-50N	TTL	N7450N	PHIN		DIP	86- 8
155♦	74-50N	TTL	N7450N	RTCF		DIP	86- 8
156♦	74-50N	TTL	N7450N	VALG		DIP	86- 8
157♦	74-50N	TTL	N8840A	MULB		DIP	86- 11
158♦	74-50N	TTL	N8840A	PHIN		DIP	86- 11
159♦	74-50N	TTL	N8840F	MULB		DIP	86- 12
160♦	74-50N	TTL	N8840F	PHIN		DIP	86- 12
161♦	74-50N	TTL	SFC450E	THEF		DIP	86- 51
162♦	74-50N	TTL	SFC450EM	THEF		DIP	86- 52
163♦	74-50N	TTL	SFC450ET	THEF		DIP	86- 53
164♦	74-50N	TTL	SFC450HE	THEF		DIP	86- 54
165♦	74-50N	TTL	SFC451E	THEF		DIP	86- 57
166♦	74-50N	TTL	SFC451EM	THEF		DIP	86- 58
167♦	74-50N	TTL	SFC451ET	THEF		DIP	86- 59
168♦	74-50N	TTL	SFC451HE	THEF		DIP	86- 60
169♦	74-50N	TTL	SFC451HEM	THEF		DIP	86- 61
170♦	74-50N	TTL	SFC451LE	THEF		DIP	86- 63
171♦	74-50N	TTL	SFC451LEM	THEF		DIP	86- 64
172♦	74-50N	TTL	SN5450J	TII		DIP	86- 71
173♦	74-50N	TTL	SN74H50N	TII		DIP	86- 67
174♦	74-50N	TTL	SN7450N	TII		DIP	86- 73
175♦	74-50N	TTL	S54H50F	MULB		DIP	86- 38
176♦	74-50N	TTL	S54H50F	PHIN		DIP	86- 38
177♦	74-50N	TTL	S54H50F	VALG		DIP	86- 38
178♦	74-50N	TTL	S5450F	MULB		DIP	86- 44
179♦	74-50N	TTL	S5450F	PHIN		DIP	86- 44
180♦	74-50N	TTL	S5450F	VALG		DIP	86- 44
181♦	74-50N	TTL	S8840A	MULB		DIP	86- 48
182♦	74-50N	TTL	S8840A	PHIN		DIP	86- 48
183♦	74-50N	TTL	S8840F	MULB		DIP	86- 49
184♦	74-50N	TTL	S8840F	PHIN		DIP	86- 49
185♦	74-50N	TTL	54H50DM	FSC		DIP	85- 67
186♦	74-50N	TTL	5450DM	FSC		DIP	85- 80
187♦	74-50N	TTL	74H50DC	FSC		DIP	85- 73
188♦	74-50N	TTL	74H50PC	FSC		DIP	85- 75
189♦	74-50N	TTL	7450DC	FSC		DIP	85- 84
190♦	74-50N	TTL	7450PC	FSC		DIP	85- 85
191♦	74-50N	TTL	9005DC	FSC		DIP	85- 88
192♦	74-50N	TTL	9005DM	FSC		DIP	85- 89
193♦	74-51	CMOS	MC74HC51J(A)	MOTA		DIP	88- 71
194♦	74-51	CMOS	MM74HC51J(A)	NSC		DIP	88- 74
195♦	74-51	CMOS	MM74HC51N(A)	NSC		DIP	88- 75
196▼	74-51	CMOS	SN74HC51D	TII	*	SO	88- 61
197♦	74-51	CMOS	SN74HC51N	TII		DIP	88- 62
198♦	74-51	TTL	DM5451J	NSC		DIP	85- 96
199♦	74-51	TTL	DM74H51N	NSC		DIP	85- 93
200♦	74-51	TTL	DM7451N	NSC		DIP	85- 99
201♦	74-51	TTL	N74H51F	MULB		DIP	86- 3
202♦	74-51	TTL	N74H51F	PHIN		DIP	86- 3
203♦	74-51	TTL	N74H51F	VALG		DIP	86- 3
204♦	74-51	TTL	N74H51N	MULB		DIP	86- 4
205♦	74-51	TTL	N74H51N	PHIN		DIP	86- 4
206♦	74-51	TTL	N74H51N	VALG		DIP	86- 4
207♦	74-51	TTL	N74S51D	MULB	*	SO	86- 5
208♦	74-51	TTL	N74S51D	PHIN	*	SO	86- 5
209♦	74-51	TTL	N74S51D	RTCF	*	SO	86- 5
210♦	74-51	TTL	N74S51D	SIC	*	SO	86- 5
211♦	74-51	TTL	N74S51D	VALG	*	SO	86- 5
212♦	74-51	TTL	N74S51N	MULB		DIP	86- 6
213♦	74-51	TTL	N74S51N	PHIN		DIP	86- 6
214♦	74-51	TTL	N74S51N	RTCF		DIP	86- 6
215♦	74-51	TTL	N74S51N	SIC		DIP	86- 6
216♦	74-51	TTL	N74S51N	VALG		DIP	86- 6
217♦	74-51	TTL	N7451F	MULB		DIP	86- 9
218♦	74-51	TTL	N7451F	PHIN		DIP	86- 9
219♦	74-51	TTL	N7451F	RTCF		DIP	86- 9
220♦	74-51	TTL	N7451F	VALG		DIP	86- 9

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-51	TTL	N7451N	MULB		DIP	86- 10
2♦	74-51	TTL	N7451N	PHIN		DIP	86- 10
3♦	74-51	TTL	N7451N	RTCF		DIP	86- 10
4♦	74-51	TTL	N7451N	SIC		DIP	86- 10
5♦	74-51	TTL	N7451N	VALG		DIP	86- 10
6♦	74-51	TTL	SN54S51J	TII		DIP	86- 66
7♦	74-51	TTL	SN5451J	TII		DIP	86- 72
8♦	74-51	TTL	SN74H51N	TII		DIP	86- 68
9♦	74-51	TTL	SN74S51D	TII	*	SO	86- 69
10♦	74-51	TTL	SN74S51N	TII		DIP	86- 70
11♦	74-51	TTL	SN7451N	TII		DIP	86- 74
12♦	74-51	TTL	S54H51F	MULB		DIP	86- 40
13♦	74-51	TTL	S54H51F	PHIN		DIP	86- 40
14♦	74-51	TTL	S54H51F	VALG		DIP	86- 40
15♦	74-51	TTL	S54S51F	MULB		DIP	86- 42
16♦	74-51	TTL	S54S51F	PHIN		DIP	86- 42
17♦	74-51	TTL	S54S51F	RTCF		DIP	86- 42
18♦	74-51	TTL	S54S51F	SIC		DIP	86- 42
19♦	74-51	TTL	S54S51F	VALG		DIP	86- 42
20♦	74-51	TTL	S5451F	MULB		DIP	86- 46
21♦	74-51	TTL	S5451F	PHIN		DIP	86- 46
22♦	74-51	TTL	S5451F	VALG		DIP	86- 46
23♦	74-51	TTL	54H51DM	FSC		DIP	85- 69
24♦	74-51	TTL	54S51DM	FSC		DIP	85- 71
25♦	74-51	TTL	5451DM	FSC		DIP	85- 82
26♦	74-51	TTL	74H51DC	FSC		DIP	85- 76
27♦	74-51	TTL	74H51PC	FSC		DIP	85- 77
28♦	74-51	TTL	74S51DC	FSC		DIP	85- 78
29♦	74-51	TTL	74S51PC	FSC		DIP	85- 79
30♦	74-51	TTL	7451DC	FSC		DIP	85- 86
31♦	74-51	TTL	7451PC	FSC		DIP	85- 87
32♦	74L51	CMOS	UPD74HC51C(A)	NECJ		DIP	88- 89
33♦	74L51	TTL	DM54LS51J	NSC		DIP	88- 92
34♦	74L51	TTL	DM74LS51N	NSC		DIP	88- 93
35▼	74L51	TTL	N74F51D	PHIN		DIP	85- 36
36▼	74L51	TTL	N74F51N	PHIN		DIP	85- 37
37♦	74L51N	CMOS	TC40H051F	TOSJ	*	SO	89- 8
38♦	74L51N	CMOS	TC40H051P	IMTM		DIP	89- 9
39♦	74L51N	CMOS	TC40H051P	TOSJ		DIP	89- 9
40♦	74L51N	TTL	DM54L51J	NSC		DIP	88-104
41♦	74L51N	TTL	DM74L51N	NSC		DIP	88-105
42▼	74L51N	TTL	HD74LS51G	HITJ		DIP	88- 95
43♦	74L51N	TTL	HD74LS51P	HITJ		DIP	88- 96
44♦	74L51N	TTL	MB74LS51	FCAJ		DIP	88- 98
45♦	74L51N	TTL	MB74LS51M	FCAJ		DIP	88- 99
46♦	74L51N	TTL	M74LS51P	MITA		DIP	88- 97
47♦	74L51N	TTL	M74LS51P	MITJ		DIP	88- 97
48♦	74L51N	TTL	N74LS51D	MULB	*	SO	88-100
49♦	74L51N	TTL	N74LS51D	PHIN	*	SO	88-100
50♦	74L51N	TTL	N74LS51D	RTCF	*	SO	88-100
51♦	74L51N	TTL	N74LS51D	SIC	*	SO	88-100
52♦	74L51N	TTL	N74LS51D	VALG	*	SO	88-100
53♦	74L51N	TTL	N74LS51N	MULB		DIP	88-101
54♦	74L51N	TTL	N74LS51N	PHIN		DIP	88-101
55♦	74L51N	TTL	N74LS51N	RTCF		DIP	88-101
56♦	74L51N	TTL	N74LS51N	SIC		DIP	88-101
57♦	74L51N	TTL	N74LS51N	VALG		DIP	88-101
58♦	74L51N	TTL	S54LS51F	MULB		DIP	85- 35
59♦	74L51N	TTL	S54LS51F	PHIN		DIP	85- 35
60♦	74L51N	TTL	S54LS51F	RTCF		DIP	85- 35
61♦	74L51N	TTL	S54LS51F	SIC		DIP	85- 35
62♦	74L51N	TTL	S54LS51F	VALG		DIP	85- 35
63♦	74L51N	TTL	T54LS51D2	SGSI		DIP	88- 86
64♦	74L51N	TTL	T74LS51B1	SGSI		DIP	88- 87
65♦	74L51N	TTL	T74LS51D1	SGSI		DIP	88- 88
66♦	74L51N	TTL	54LS51DM	FSC		DIP	88- 83
67♦	74L51N	TTL	74LS51DC	FSC		DIP	88- 84
68♦	74L51N	TTL	74LS51PC	FSC		DIP	88- 85
69▼	74LS51	CMOS	HD74HC51FP	HITJ	*	SO	88- 90
70▼	74LS51	CMOS	HD74HC51P	HITJ		DIP	88- 91
71♦	74LS51	CMOS	MC54HC51J(A)	MOTA		DIP	88- 70
72♦	74LS51	CMOS	MM54HC51J(A)	NSC		DIP	88- 73
73♦	74LS51	CMOS	M54HC51F1(A)	SGSI		DIP	88- 67
74♦	74LS51	CMOS	M74HC51B1(A)	SGSI		DIP	88- 68
75♦	74LS51	CMOS	M74HC51F1(A)	SGSI		DIP	88- 69
76♦	74LS51	CMOS	SN54HC51J	TII		DIP	88- 63
77▼	74LS51	CMOS	TC74HC51F(A)	TOSA	*	SO	88-102
78▼	74LS51	CMOS	TC74HC51P(A)	TOSA		DIP	88-103
79♦	74LS51	TTL	DN74LS51P1	MATJ		DIP	88- 65
80♦	74LS51	TTL	DN74LS51P4	MATJ	*	SO	88- 66
81♦	74LS51	TTL	SN74LS51D	TII	*	SO	88- 80
82♦	74LS51N	TTL	SN54LS51J	MOTA		DIP	88- 77
83♦	74LS51N	TTL	SN54LS51J	TII		DIP	88- 77
84▼	74LS51N	TTL	SN54LS51N	MOTA		DIP	88- 78
85♦	74LS51N	TTL	SN74LS51J	MOTA		DIP	88- 81
86♦	74LS51N	TTL	SN74LS51N	MOTA		DIP	88- 82
87♦	74LS51N	TTL	SN74LS51N	TII		DIP	88- 82
88♦	74H52N	TTL	N74H52F	MULB		DIP	85- 4
89♦	74H52N	TTL	N74H52F	PHIN		DIP	85- 4
90♦	74H52N	TTL	N74H52F	VALG		DIP	85- 4
91♦	74H52N	TTL	N74H52N	MULB		DIP	85- 5
92♦	74H52N	TTL	N74H52N	PHIN		DIP	85- 5
93♦	74H52N	TTL	N74H52N	VALG		DIP	85- 5
94♦	74H52N	TTL	SN74H52N	TII		DIP	85- 6
95♦	74H52N	TTL	S54H52F	MULB		DIP	84- 91
96♦	74H52N	TTL	S54H52F	PHIN		DIP	84- 91
97♦	74H52N	TTL	S54H52F	VALG		DIP	84- 91
98♦	74H52N	TTL	54H52DM	FSC		DIP	84- 89
99♦	74H52N	TTL	74H52PC	FSC		DIP	85- 3
100♦	74-53N	TTL	DM5453J	NSC		DIP	86- 98
101♦	74-53N	TTL	DM5454J	NSC		DIP	86-100
102♦	74-53N	TTL	DM7453N	NSC		DIP	86-102
103♦	74-53N	TTL	FJH171-7453	PHIN		DIP	86-104
104♦	74-53N	TTL	FJH181-7454	PHIN		DIP	86-105
105♦	74-53N	TTL	MB411	FCAJ		DIP	87- 7
106♦	74-53N	TTL	MB411M	FCAJ		DIP	87- 8
107♦	74-53N	TTL	M53253P	MITJ		DIP	87- 6
108♦	74-53N	TTL	N7453F	MULB		DIP	87- 11
109♦	74-53N	TTL	N7453F	PHIN		DIP	87- 11
110♦	74-53N	TTL	N7453F	VALG		DIP	87- 11
111♦	74-53N	TTL	N7453N	MULB		DIP	87- 12
112♦	74-53N	TTL	N7453N	PHIN		DIP	87- 12
113♦	74-53N	TTL	N7453N	VALG		DIP	87- 12
114♦	74-53N	TTL	SFC453E	THEF		DIP	87- 18
115♦	74-53N	TTL	SFC453EM	THEF		DIP	87- 19
116♦	74-53N	TTL	SFC453ET	THEF		DIP	87- 20
117♦	74-53N	TTL	SFC453HE	THEF		DIP	87- 21
118♦	74-53N	TTL	SFC454E	THEF		DIP	87- 22
119♦	74-53N	TTL	SFC454EM	THEF		DIP	87- 23
120♦	74-53N	TTL	SFC454ET	THEF		DIP	87- 24
121♦	74-53N	TTL	SN5453J	TII		DIP	87- 25
122♦	74-53N	TTL	SN5454J	TII		DIP	87- 26
123♦	74-53N	TTL	SN7453N	TII		DIP	87- 27
124♦	74-53N	TTL	S5453F	MULB		DIP	87- 15
125♦	74-53N	TTL	S5453F	PHIN		DIP	87- 15
126♦	74-53N	TTL	S5453F	VALG		DIP	87- 15
127♦	74-53N	TTL	S5454F	MULB		DIP	87- 16
128♦	74-53N	TTL	S5454F	PHIN		DIP	87- 16
129♦	74-53N	TTL	S5454F	VALG		DIP	87- 16
130♦	74-53N	TTL	5453DM	FSC		DIP	86- 86
131♦	74-53N	TTL	5454DM	FSC		DIP	86- 88
132♦	74-53N	TTL	7453DC	FSC		DIP	86- 90
133♦	74-53N	TTL	7453PC	FSC		DIP	86- 91
134♦	74H53N	TTL	DM9008CJ	NSC		DIP	87- 79
135♦	74H53N	TTL	DM9008CN	NSC		DIP	87- 80
136♦	74H53N	TTL	N74H53F	MULB		DIP	89- 79
137♦	74H53N	TTL	N74H53F	PHIN		DIP	89- 79
138♦	74H53N	TTL	N74H53F	VALG		DIP	89- 79
139♦	74H53N	TTL	N74H53N	MULB		DIP	89- 80
140♦	74H53N	TTL	N74H53N	PHIN		DIP	89- 80
141♦	74H53N	TTL	N74H53N	VALG		DIP	89- 80
142♦	74H53N	TTL	N8848A	MULB		DIP	87- 73
143♦	74H53N	TTL	N8848A	PHIN		DIP	87- 73
144♦	74H53N	TTL	N8848F	MULB		DIP	87- 74
145♦	74H53N	TTL	N8848F	PHIN		DIP	87- 74
146♦	74H53N	TTL	SN74H53N	TII		DIP	87- 72
147♦	74H53N	TTL	S54H53F	MULB		DIP	87- 68
148♦	74H53N	TTL	S54H53F	PHIN		DIP	87- 68
149♦	74H53N	TTL	S54H53F	VALG		DIP	87- 68
150♦	74H53N	TTL	S8848A	MULB		DIP	87- 75
151♦	74H53N	TTL	S8848A	PHIN		DIP	87- 75
152♦	74H53N	TTL	S8848F	MULB		DIP	87- 76
153♦	74H53N	TTL	S8848F	PHIN		DIP	87- 76
154♦	74H53N	TTL	54H53DM	FSC		DIP	87- 69
155♦	74H53N	TTL	74H53DC	FSC		DIP	87- 70
156♦	74H53N	TTL	74H53PC	FSC		DIP	87- 71
157♦	74H53N	TTL	9008DC	FSC		DIP	87- 77
158♦	74H53N	TTL	9008DM	FSC		DIP	87- 78
159♦	74H54N	TTL	N74H54F	MULB		DIP	87- 39
160♦	74H54N	TTL	N74H54F	PHIN		DIP	87- 39
161♦	74H54N	TTL	N74H54F	VALG		DIP	87- 39
162♦	74H54N	TTL	N74H54N	MULB		DIP	87- 40
163♦	74H54N	TTL	N74H54N	PHIN		DIP	87- 40
164♦	74H54N	TTL	N74H54N	VALG		DIP	87- 40
165♦	74H54N	TTL	SFC454HE	THEF		DIP	87- 63
166♦	74H54N	TTL	SFC454HEM	THEF		DIP	87- 64
167♦	74H54N	TTL	SN74H54N	TII		DIP	87- 67
168♦	74H54N	TTL	S54H54F	MULB		DIP	87- 56
169♦	74H54N	TTL	S54H54F	PHIN		DIP	87- 56
170♦	74H54N	TTL	S54H54F	VALG		DIP	87- 56
171♦	74H54N	TTL	54H54DM	FSC		DIP	87- 34
172♦	74H54N	TTL	74H54DC	FSC		DIP	87- 36
173♦	74H54N	TTL	74H54PC	FSC		DIP	87- 37
174♦	74L54	TTL	DM54LS54J	NSC		DIP	88- 19
175♦	74L54	TTL	DM74LS54N	NSC		DIP	88- 20
176♦	74L54	TTL	DN74LS54P1	MATJ		DIP	88- 9
177♦	74L54	TTL	DN74LS54P4	MATJ	*	SO	88- 10
178♦	74L54N	TTL	DM54LS54J	NSC		DIP	88- 21
179♦	74L54N	TTL	DM74LS54N	NSC		DIP	88- 22
180▼	74L54N	TTL	HD74LS54G	HITJ		DIP	88- 11
181♦	74L54N	TTL	HD74LS54P	HITJ		DIP	88- 12
182♦	74L54N	TTL	MB74LS54	FCAJ		DIP	88- 13
183♦	74L54N	TTL	MB74LS54M	FCAJ		DIP	88- 14
184♦	74L54N	TTL	N74LS54D	MULB		DIP	88- 15
185♦	74L54N	TTL	N74LS54D	PHIN		DIP	88- 15
186♦	74L54N	TTL	N74LS54D	RTCF		DIP	88- 15
187♦	74L54N	TTL	N74LS54D	SIC		DIP	88- 15
188♦	74L54N	TTL	N74LS54D	VALG		DIP	88- 15
189♦	74L54N	TTL	N74LS54N	MULB		DIP	88- 16
190♦	74L54N	TTL	N74LS54N	PHIN		DIP	88- 16
191♦	74L54N	TTL	N74LS54N	RTCF		DIP	88- 16
192♦	74L54N	TTL	N74LS54N	SIC		DIP	88- 16
193♦	74L54N	TTL	N74LS54N	VALG		DIP	88- 16
194♦	74L54N	TTL	SFC454LE	THEF		DIP	89- 77
195♦	74L54N	TTL	SFC454LEM	THEF		DIP	89- 78
196♦	74L54N	TTL	S54LS54F	MULB		DIP	88- 17
197♦	74L54N	TTL	S54LS54F	PHIN		DIP	88- 17
198♦	74L54N	TTL	S54LS54F	RTCF		DIP	88- 17
199♦	74L54N	TTL	S54LS54F	VALG		DIP	88- 17
200♦	74L54N	TTL	T54LS54D2	SGSI		DIP	88- 6
201♦	74L54N	TTL	T74LS54B1	SGSI		DIP	88- 7
202♦	74L54N	TTL	T74LS54D1	SGSI		DIP	88- 8
203♦	74L54N	TTL	54LS54DM	FSC		DIP	88- 3
204♦	74L54N	TTL	74LS54DC	FSC		DIP	88- 4
205♦	74L54N	TTL	74LS54PC	FSC		DIP	88- 5
206♦	74LS54	TTL	SN74LS54D	TII	*	SO	87-110
207♦	74LS54N	TTL	SN54LS54J	MOTA		DIP	87-108
208♦	74LS54N	TTL	SN54LS54J	TII		DIP	87-108
209▼	74LS54N	TTL	SN54LS54N	MOTA		DIP	87-109
210♦	74LS54N	TTL	SN74LS54J	MOTA		DIP	88- 1
211♦	74LS54N	TTL	SN74LS54N	MOTA		DIP	88- 2
212♦	74LS54N	TTL	SN74LS54N	TII		DIP	88- 2
213♦	74H55N	TTL	N74H55F	MULB		DIP	89- 28
214♦	74H55N	TTL	N74H55F	PHIN		DIP	89- 28
215♦	74H55N	TTL	N74H55F	VALG		DIP	89- 28
216♦	74H55N	TTL	N74H55N	MULB		DIP	89- 29
217♦	74H55N	TTL	N74H55N	PHIN		DIP	89- 29
218♦	74H55N	TTL	N74H55N	VALG		DIP	89- 29
219♦	74H55N	TTL	SN74H55N	TII		DIP	89- 62
220♦	74H55N	TTL	S54H55F	MULB		DIP	89- 56

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74H55N	TTL	S54H55F	PHIN		DIP	89- 56
2♦	74H55N	TTL	S54H55F	VALG		DIP	89- 56
3♦	74H55N	TTL	74H55PC	FSC		DIP	89- 19
4♦	74L55	TTL	DM54LS55J	NSC		DIP	89- 69
5♦	74L55	TTL	DM74LS55N	NSC		DIP	89- 70
6♦	74L55	TTL	DN74LS55P1	MATJ		DIP	89- 71
7♦	74L55	TTL	DN74LS55P4	MATJ	*	SO	89- 72
8♦	74L55N	TTL	DM54L55J	NSC		DIP	89- 21
9♦	74L55N	TTL	DM74L55N	NSC		DIP	89- 23
10▼	74L55N	TTL	HD74LS55G	HITJ		DIP	89- 24
11♦	74L55N	TTL	HD74LS55P	HITJ		DIP	89- 25
12♦	74L55N	TTL	MB74LS55	FCAJ		DIP	89- 26
13♦	74L55N	TTL	MB74LS55M	FCAJ		DIP	89- 27
14♦	74L55N	TTL	N74LS55F	MULB		DIP	89- 30
15♦	74L55N	TTL	N74LS55F	PHIN		DIP	89- 30
16♦	74L55N	TTL	N74LS55F	VALG		DIP	89- 30
17♦	74L55N	TTL	N74LS55N	MULB		DIP	89- 31
18♦	74L55N	TTL	N74LS55N	PHIN		DIP	89- 31
19♦	74L55N	TTL	N74LS55N	VALG		DIP	89- 31
20♦	74L55N	TTL	SN54LS55J	MOTA		DIP	89- 60
21▼	74L55N	TTL	SN54LS55N	MOTA		DIP	89- 61
22♦	74L55N	TTL	SN74LS55D	TII	*	SO	89- 63
23♦	74L55N	TTL	SN74LS55J	MOTA		DIP	89- 64
24♦	74L55N	TTL	SN74LS55N	MOTA		DIP	89- 65
25♦	74L55N	TTL	SN74LS55N	TII		DIP	89- 65
26♦	74L55N	TTL	S54LS55F	MULB		DIP	89- 58
27♦	74L55N	TTL	S54LS55F	PHIN		DIP	89- 58
28♦	74L55N	TTL	S54LS55F	VALG		DIP	89- 58
29♦	74L55N	TTL	T54LS55D2	SGSI		DIP	89- 66
30♦	74L55N	TTL	T74LS55B1	SGSI		DIP	89- 67
31♦	74L55N	TTL	T74LS55D1	SGSI		DIP	89- 68
32♦	74L55N	TTL	74LS55PC	FSC		DIP	89- 20
33♦	74L55N	TTL	SN74LS56P	TII		DIP	194- 61
34♦	74LS57	TTL	SN74LS57P	TII		DIP	194- 62
35♦	74HC58	CMOS	MC54HC58J(A)	MOTA		DIP	84-110
36♦	74HC58	CMOS	MC74HC58J(A)	MOTA		DIP	85- 1
37♦	74HC58	CMOS	MC74HC58N(A)	MOTA		DIP	85- 2
38♦	74HC58	CMOS	MM54HC58J(A)	NSC		DIP	84-109
39♦	74HC58	CMOS	MM74HC58J(A)	NSC		DIP	84-107
40♦	74HC58	CMOS	MM74HC58N(A)	NSC		DIP	84-108
41▼	74HC58	CMOS	PC74HC58P	MULB		DIP	84- 97
42▼	74HC58	CMOS	PC74HC58P	PHIN		DIP	84- 97
43▼	74HC58	CMOS	PC74HC58P	RTCF		DIP	84- 97
44▼	74HC58	CMOS	PC74HC58P	VALG		DIP	84- 97
45▼	74HC58	CMOS	PC74HC58T	MULB	*	SO	84- 98
46▼	74HC58	CMOS	PC74HC58T	PHIN	*	SO	84- 98
47▼	74HC58	CMOS	PC74HC58T	RTCF	*	SO	84- 98
48▼	74HC58	CMOS	PC74HC58T	VALG	*	SO	84- 98
49♦	74HC58	CMOS	74HCT58D	SIC	*	FP	85- 19
50♦	74HC58	CMOS	74HCT58N	SIC		DIP	85- 20
51♦	74HC58	CMOS	74HC58D	SIC	*	FP	84-105
52♦	74HC58	CMOS	74HC58N	SIC		DIP	84-106
53♦	74-60	TTL	MB406	FCAJ		DIP	81- 62
54♦	74-60	TTL	MB406M	FCAJ		DIP	81- 63
55♦	74-60N	TTL	DM5460J	NSC		DIP	81- 50
56♦	74-60N	TTL	DM7460N	NSC		DIP	81- 52
57♦	74-60N	TTL	DM9006CJ	NSC		DIP	81- 53
58♦	74-60N	TTL	DM9006CN	NSC		DIP	81- 54
59♦	74-60N	TTL	FJY101-7460	PHIN		DIP	81- 55
60♦	74-60N	TTL	MB607	FCAJ		DIP	81- 64
61♦	74-60N	TTL	M53260P	MITJ		DIP	81- 61
62♦	74-60N	TTL	N74H60F	MULB		DIP	81- 68
63♦	74-60N	TTL	N74H60F	PHIN		DIP	81- 68
64♦	74-60N	TTL	N74H60F	VALG		DIP	81- 68
65♦	74-60N	TTL	N74H60N	MULB		DIP	81- 69
66♦	74-60N	TTL	N74H60N	PHIN		DIP	81- 69
67♦	74-60N	TTL	N74H60N	VALG		DIP	81- 69
68♦	74-60N	TTL	N7460F	MULB		DIP	81- 70
69♦	74-60N	TTL	N7460F	PHIN		DIP	81- 70
70♦	74-60N	TTL	N7460F	VALG		DIP	81- 70
71♦	74-60N	TTL	N7460N	MULB		DIP	81- 71
72♦	74-60N	TTL	N7460N	PHIN		DIP	81- 71
73♦	74-60N	TTL	N7460N	VALG		DIP	81- 71
74♦	74-60N	TTL	N8806A	MULB		DIP	81- 72
75♦	74-60N	TTL	N8806A	PHIN		DIP	81- 72
76♦	74-60N	TTL	N8806F	MULB		DIP	81- 73
77♦	74-60N	TTL	N8806F	PHIN		DIP	81- 73
78♦	74-60N	TTL	SFC460E	THEF		DIP	81- 82
79♦	74-60N	TTL	SFC460EM	THEF		DIP	81- 83
80♦	74-60N	TTL	SFC460ET	THEF		DIP	81- 84
81♦	74-60N	TTL	SN5460J	TII		DIP	81- 88
82♦	74-60N	TTL	SN74H60N	TII		DIP	81- 87
83♦	74-60N	TTL	S54H60F	MULB		DIP	81- 75
84♦	74-60N	TTL	S54H60F	PHIN		DIP	81- 75
85♦	74-60N	TTL	S54H60F	VALG		DIP	81- 75
86♦	74-60N	TTL	S5460F	MULB		DIP	81- 77
87♦	74-60N	TTL	S5460F	PHIN		DIP	81- 77
88♦	74-60N	TTL	S5460F	VALG		DIP	81- 77
89♦	74-60N	TTL	S8806A	MULB		DIP	81- 79
90♦	74-60N	TTL	S8806A	PHIN		DIP	81- 79
91♦	74-60N	TTL	S8806F	MULB		DIP	81- 80
92♦	74-60N	TTL	S8806F	PHIN		DIP	81- 80
93♦	74-60N	TTL	ZN5460E	FERB		DIP	81- 89
94♦	74-60N	TTL	5460DM	FSC		DIP	81- 39
95♦	74-60N	TTL	7460DC	FSC		DIP	81- 41
96♦	74-60N	TTL	7460PC	FSC		DIP	81- 42
97♦	74-60N	TTL	9006DC	FSC		DIP	81- 43
98♦	74-60N	TTL	9006DM	FSC		DIP	81- 44
99♦	74H61N	TTL	N74H61F	MULB		DIP	79- 91
100♦	74H61N	TTL	N74H61F	PHIN		DIP	79- 91
101♦	74H61N	TTL	N74H61F	VALG		DIP	79- 91
102♦	74H61N	TTL	N74H61N	MULB		DIP	79- 92
103♦	74H61N	TTL	N74H61N	PHIN		DIP	79- 92
104♦	74H61N	TTL	N74H61N	VALG		DIP	79- 92
105♦	74H61N	TTL	SN74H61N	TII		DIP	80- 14
106♦	74H61N	TTL	S54H61F	MULB		DIP	79-109
107♦	74H61N	TTL	S54H61F	PHIN		DIP	79-109
108♦	74H61N	TTL	S54H61F	VALG		DIP	79-109
109♦	74H61N	TTL	54H61DM	FSC		DIP	79- 25
110♦	74H61N	TTL	74H61DC	FSC		DIP	79- 36
111♦	74H61N	TTL	74H61PC	FSC		DIP	79- 37
112♦	74H62N	TTL	DM54H62J	NSC		DIP	84- 94
113♦	74H62N	TTL	DM74H62N	NSC		DIP	85- 8
114♦	74H62N	TTL	N74H62F	MULB		DIP	85- 9
115♦	74H62N	TTL	N74H62F	PHIN		DIP	85- 9
116♦	74H62N	TTL	N74H62F	VALG		DIP	85- 9
117♦	74H62N	TTL	N74H62N	MULB		DIP	85- 10
118♦	74H62N	TTL	N74H62N	PHIN		DIP	85- 10
119♦	74H62N	TTL	N74H62N	VALG		DIP	85- 10
120♦	74H62N	TTL	SN74H62N	TII		DIP	85- 11
121♦	74H62N	TTL	S54H62F	MULB		DIP	84- 95
122♦	74H62N	TTL	S54H62F	PHIN		DIP	84- 95
123♦	74H62N	TTL	S54H62F	VALG		DIP	84- 95
124♦	74H62N	TTL	74H62PC	FSC		DIP	85- 7
125♦	74S64N	TTL	DM74S64N	NSC		DIP	88- 33
126♦	74S64N	TTL	MC54F64J	MOTA		DIP	89- 13
127▼	74S64N	TTL	MC54F64N	MOTA		DIP	89- 16
128♦	74S64N	TTL	MC74F64J	MOTA		DIP	88- 41
129♦	74S64N	TTL	MC74F64N	MOTA		DIP	88- 42
130♦	74S64N	TTL	N74F64D	MULB	*	SO	88- 44
131♦	74S64N	TTL	N74F64D	PHIN	*	SO	88- 44
132♦	74S64N	TTL	N74F64D	RTCF	*	SO	88- 44
133♦	74S64N	TTL	N74F64D	SIC	*	SO	88- 44
134♦	74S64N	TTL	N74F64D	VALG	*	SO	88- 44
135♦	74S64N	TTL	N74F64F	VALG		DIP	88- 43
136♦	74S64N	TTL	N74F64N	MULB		DIP	88- 45
137♦	74S64N	TTL	N74F64N	PHIN		DIP	88- 45
138♦	74S64N	TTL	N74F64N	RTCF		DIP	88- 45
139♦	74S64N	TTL	N74F64N	SIC		DIP	88- 45
140♦	74S64N	TTL	N74F64N	VALG		DIP	88- 45
141♦	74S64N	TTL	N74S64D	MULB	*	SO	88- 34
142♦	74S64N	TTL	N74S64D	PHIN	*	SO	88- 34
143♦	74S64N	TTL	N74S64D	RTCF	*	SO	88- 34
144♦	74S64N	TTL	N74S64D	SIC	*	SO	88- 34
145♦	74S64N	TTL	N74S64D	VALG	*	SO	88- 34
146♦	74S64N	TTL	N74S64F	MULB		DIP	88- 35
147♦	74S64N	TTL	N74S64F	PHIN		DIP	88- 35
148♦	74S64N	TTL	N74S64F	RTCF		DIP	88- 35
149♦	74S64N	TTL	N74S64F	VALG		DIP	88- 35
150♦	74S64N	TTL	N74S64N	MULB		DIP	88- 36
151♦	74S64N	TTL	N74S64N	PHIN		DIP	88- 36
152♦	74S64N	TTL	N74S64N	RTCF		DIP	88- 36
153♦	74S64N	TTL	N74S64N	SIC		DIP	88- 36
154♦	74S64N	TTL	N74S64N	VALG		DIP	88- 36
155♦	74S64N	TTL	SN54S64J	TII		DIP	88- 38
156♦	74S64N	TTL	SN74S64D	TII	*	SO	88- 39
157♦	74S64N	TTL	SN74S64N	TII		DIP	88- 40
158♦	74S64N	TTL	S54F64F	SIC		DIP	89- 14
159♦	74S64N	TTL	S54F64F	VALG		DIP	89- 14
160♦	74S64N	TTL	S54S64F	MULB		DIP	88- 37
161♦	74S64N	TTL	S54S64F	PHIN		DIP	88- 37
162♦	74S64N	TTL	S54S64F	VALG		DIP	88- 37
163♦	74S64N	TTL	54F64DM	FSC		DIP	89- 82
164♦	74S64N	TTL	54S64DM	FSC		DIP	88- 29
165♦	74S64N	TTL	74F64DC	FSC		DIP	88- 46
166♦	74S64N	TTL	74F64PC	FSC		DIP	88- 48
167♦	74S64N	TTL	74S64DC	FSC		DIP	88- 30
168♦	74S64N	TTL	74S64PC	FSC		DIP	88- 31
169♦	74S65N	TTL	DM74S65N	NSC		DIP	88- 52
170♦	74S65N	TTL	N74S65F	MULB		DIP	88- 53
171♦	74S65N	TTL	N74S65F	PHIN		DIP	88- 53
172♦	74S65N	TTL	N74S65F	VALG		DIP	88- 53
173♦	74S65N	TTL	N74S65N	MULB		DIP	88- 54
174♦	74S65N	TTL	N74S65N	PHIN		DIP	88- 54
175♦	74S65N	TTL	N74S65N	VALG		DIP	88- 54
176♦	74S65N	TTL	SN54S65J	TII		DIP	88- 57
177♦	74S65N	TTL	SN74S65D	TII	*	SO	88- 60
178♦	74S65N	TTL	SN74S65N	TII		DIP	88- 58
179♦	74S65N	TTL	S54S65F	MULB		DIP	88- 55
180♦	74S65N	TTL	S54S65F	PHIN		DIP	88- 55
181♦	74S65N	TTL	S54S65F	VALG		DIP	88- 55
182♦	74S65N	TTL	74S65PC	FSC		DIP	88- 32
183♦	74LS68	TTL	SN74LS68D	TII	*	SO	181- 94
184♦	74LS68	TTL	SN74LS68N	TII		DIP	181- 95
185♦	74LS69	TTL	SN74LS69N	TII		DIP	165- 35
186♦	74-70N	TTL	DM5470J	NSC		DIP	65- 32
187♦	74-70N	TTL	DM7470N	NSC		DIP	65- 34
188♦	74-70N	TTL	M53270P	MITJ		DIP	66- 24
189♦	74-70N	TTL	N7470F	MULB		DIP	65- 37
190♦	74-70N	TTL	N7470F	PHIN		DIP	65- 37
191♦	74-70N	TTL	N7470F	VALG		DIP	65- 37
192♦	74-70N	TTL	N7470N	MULB		DIP	65- 38
193♦	74-70N	TTL	N7470N	PHIN		DIP	65- 38
194♦	74-70N	TTL	N7470N	VALG		DIP	65- 38
195♦	74-70N	TTL	N8825A	MULB		DIP	65- 75
196♦	74-70N	TTL	N8825A	PHIN		DIP	65- 75
197♦	74-70N	TTL	N8825F	MULB		DIP	65- 76
198♦	74-70N	TTL	N8825F	PHIN		DIP	65- 76
199♦	74-70N	TTL	SN5470J	TII		DIP	66- 25
200♦	74-70N	TTL	SN7470N	TII		DIP	66- 26
201♦	74-70N	TTL	S5470F	MULB		DIP	65- 63
202♦	74-70N	TTL	S5470F	PHIN		DIP	65- 63
203♦	74-70N	TTL	S5470F	VALG		DIP	65- 63
204♦	74-70N	TTL	S8825A	MULB		DIP	65- 85
205♦	74-70N	TTL	S8825A	PHIN		DIP	65- 85
206♦	74-70N	TTL	S8825F	MULB		DIP	65- 86
207♦	74-70N	TTL	S8825F	PHIN		DIP	65- 86
208♦	74-70N	TTL	7470PC	FSC		DIP	66- 23
209♦	74-71	TTL	SN74LS716J	MOTA		DIP	173- 13
210♦	74-71	TTL	SN74LS716N	MOTA		DIP	173- 14
211♦	74H71N	TTL	N74H101F	MULB		DIP	66- 27
212♦	74H71N	TTL	N74H101F	PHIN		DIP	66- 27
213♦	74H71N	TTL	N74H101F	VALG		DIP	66- 27
214♦	74H71N	TTL	N74H101N	MULB		DIP	66- 28
215♦	74H71N	TTL	N74H101N	PHIN		DIP	66- 28
216♦	74H71N	TTL	N74H101N	VALG		DIP	66- 28
217♦	74H71N	TTL	N74H71F	MULB		DIP	65- 71
218♦	74H71N	TTL	N74H71F	PHIN		DIP	65- 71
219♦	74H71N	TTL	N74H71F	VALG		DIP	65- 71
220♦	74H71N	TTL	N74H71N	MULB		DIP	65- 72

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74H71N	TTL	N74H71N	PHIN		DIP	65- 72
2♦	74H71N	TTL	N74H71N	VALG		DIP	65- 72
3♦	74H71N	TTL	SN74H71N	TII		DIP	66- 20
4♦	74H71N	TTL	S54H101F	MULB		DIP	66- 31
5♦	74H71N	TTL	S54H101F	PHIN		DIP	66- 31
6♦	74H71N	TTL	S54H101F	VALG		DIP	66- 31
7♦	74H71N	TTL	S54H71F	MULB		DIP	65- 81
8♦	74H71N	TTL	S54H71F	PHIN		DIP	65- 81
9♦	74H71N	TTL	S54H71F	VALG		DIP	65- 81
10♦	74H71N	TTL	74H101PC	FSC		DIP	66- 37
11♦	74L71N	TTL	DM54L71J	NSC		DIP	75- 38
12♦	74L71N	TTL	DM74L71N	NSC		DIP	75- 40
13♦	74L72	DTL	SFC472HE	THEF		DIP	65- 67
14♦	74L72	TTL	DM54L72J	NSC		DIP	64-101
15♦	74L72	TTL	DM5472J	NSC		DIP	65- 92
16♦	74L72	TTL	DM74L72N	NSC		DIP	64-103
17♦	74L72	TTL	DM7472N	NSC		DIP	65- 94
18♦	74L72	TTL	FJJ111-7472	PHIN		DIP	64-100
19♦	74L72	TTL	MB407	FCAJ		DIP	65- 35
20♦	74L72	TTL	MB407M	FCAJ		DIP	65- 36
21♦	74L72	TTL	MB609	FCAJ		DIP	65-105
22♦	74L72	TTL	M53272P	MITJ		DIP	65- 4
23♦	74L72	TTL	N74H102F	MULB		DIP	66- 29
24♦	74L72	TTL	N74H102F	PHIN		DIP	66- 29
25♦	74L72	TTL	N74H102F	VALG		DIP	66- 29
26♦	74L72	TTL	N74H102N	MULB		DIP	66- 30
27♦	74L72	TTL	N74H102N	PHIN		DIP	66- 30
28♦	74L72	TTL	N74H102N	VALG		DIP	66- 30
29♦	74L72	TTL	N74H72F	MULB		DIP	65- 73
30♦	74L72	TTL	N74H72F	PHIN		DIP	65- 73
31♦	74L72	TTL	N74H72F	VALG		DIP	65- 73
32♦	74L72	TTL	N74H72N	MULB		DIP	65- 74
33♦	74L72	TTL	N74H72N	PHIN		DIP	65- 74
34♦	74L72	TTL	N74H72N	VALG		DIP	65- 74
35♦	74L72	TTL	N7472F	MULB		DIP	65- 5
36♦	74L72	TTL	N7472F	PHIN		DIP	65- 5
37♦	74L72	TTL	N7472F	VALG		DIP	65- 5
38♦	74L72	TTL	N7472N	MULB		DIP	65- 6
39♦	74L72	TTL	N7472N	PHIN		DIP	65- 6
40♦	74L72	TTL	N7472N	VALG		DIP	65- 6
41♦	74L72	TTL	N8829A	MULB		DIP	65- 78
42♦	74L72	TTL	N8829A	PHIN		DIP	65- 78
43♦	74L72	TTL	N8829F	MULB		DIP	65- 79
44♦	74L72	TTL	N8829F	PHIN		DIP	65- 79
45♦	74L72	TTL	SFC472E	THEF		DIP	65- 15
46♦	74L72	TTL	SFC472EM	THEF		DIP	65- 65
47♦	74L72	TTL	SFC472ET	THEF		DIP	65- 66
48♦	74L72	TTL	SFC472LE	THEF		DIP	64- 90
49♦	74L72	TTL	SFC472LEM	THEF		DIP	64- 91
50♦	74L72	TTL	SN54110J	TII		DIP	65- 91
51♦	74L72	TTL	SN7472N	TII		DIP	65- 70
52♦	74L72	TTL	S54H102F	MULB		DIP	66- 33
53♦	74L72	TTL	S54H102F	PHIN		DIP	66- 33
54♦	74L72	TTL	S54H102F	VALG		DIP	66- 33
55♦	74L72	TTL	S54H72F	MULB		DIP	65- 83
56♦	74L72	TTL	S54H72F	PHIN		DIP	65- 83
57♦	74L72	TTL	S54H72F	VALG		DIP	65- 83
58♦	74L72	TTL	S5472F	MULB		DIP	65- 13
59♦	74L72	TTL	S5472F	PHIN		DIP	65- 13
60♦	74L72	TTL	S5472F	VALG		DIP	65- 13
61♦	74L72	TTL	S8829A	MULB		DIP	65- 88
62♦	74L72	TTL	S8829A	PHIN		DIP	65- 88
63♦	74L72	TTL	S8829F	MULB		DIP	65- 89
64♦	74L72	TTL	S8829F	PHIN		DIP	65- 89
65♦	74L72	TTL	54H72DM	FSC		DIP	65-101
66♦	74L72	TTL	5472DM	FSC		DIP	65- 24
67♦	74L72	TTL	74H72DC	FSC		DIP	65-103
68♦	74L72	TTL	74H72PC	FSC		DIP	65-104
69♦	74L72	TTL	7472DC	FSC		DIP	65- 26
70♦	74L72	TTL	7472PC	FSC		DIP	65- 27
71♦	74-73	CMOS	M54HC73F1(A)	SGSI		DIP	73- 55
72♦	74-73	CMOS	M74HC73B1(A)	SGSI		DIP	69- 50
73	74-73	CMOS	M74HC73C1(A)	SGSI	*	LDCC	69- 51
74♦	74-73	CMOS	M74HC73F1(A)	SGSI		DIP	69- 52
75♦	74-73	CMOS	PC54HCT73D(A)	MULB		DIP	68- 15
76♦	74-73	CMOS	PC54HCT73D(A)	PHIN		DIP	68- 15
77♦	74-73	CMOS	PC54HCT73D(A)	RTCF		DIP	68- 15
78♦	74-73	CMOS	PC54HCT73D(A)	VALG		DIP	68- 15
79♦	74-73	CMOS	PC54HC73D(A)	MULB		DIP	68- 36
80♦	74-73	CMOS	PC54HC73D(A)	PHIN		DIP	68- 36
81♦	74-73	CMOS	PC54HC73D(A)	RTCF		DIP	68- 36
82♦	74-73	CMOS	PC54HC73D(A)	VALG		DIP	68- 36
83♦	74-73	CMOS	PC74HCT73D(A)	MULB		DIP	68- 38
84♦	74-73	CMOS	PC74HCT73D(A)	PHIN		DIP	68- 38
85♦	74-73	CMOS	PC74HCT73D(A)	RTCF		DIP	68- 38
86♦	74-73	CMOS	PC74HCT73D(A)	VALG		DIP	68- 38
87♦	74-73	CMOS	PC74HCT73P	MULB		DIP	68- 39
88♦	74-73	CMOS	PC74HCT73P	PHIN		DIP	68- 39
89♦	74-73	CMOS	PC74HCT73P	RTCF		DIP	68- 39
90♦	74-73	CMOS	PC74HCT73P	VALG		DIP	68- 39
91	74-73	CMOS	PC74HCT73T	MULB	*	SO	68- 40
92	74-73	CMOS	PC74HCT73T	PHIN	*	SO	68- 40
93	74-73	CMOS	PC74HCT73T	RTCF	*	SO	68- 40
94	74-73	CMOS	PC74HCT73T	VALG	*	SO	68- 40
95♦	74-73	CMOS	PC74HC73D(A)	MULB		DIP	69- 3
96♦	74-73	CMOS	PC74HC73D(A)	PHIN		DIP	69- 3
97♦	74-73	CMOS	PC74HC73D(A)	RTCF		DIP	69- 3
98♦	74-73	CMOS	PC74HC73D(A)	VALG		DIP	69- 3
99♦	74-73	CMOS	PC74HC73P	MULB		DIP	68- 62
100♦	74-73	CMOS	PC74HC73P	PHIN		DIP	68- 62
101♦	74-73	CMOS	PC74HC73P	RTCF		DIP	68- 62
102♦	74-73	CMOS	PC74HC73P	VALG		DIP	68- 62
103	74-73	CMOS	PC74HC73T	MULB	*	SO	68- 63
104	74-73	CMOS	PC74HC73T	PHIN	*	SO	68- 63
105	74-73	CMOS	PC74HC73T	RTCF	*	SO	68- 63
106	74-73	CMOS	PC74HC73T	VALG	*	SO	68- 63
107	74-73	CMOS	74HCT73D	SIC	*	SO	68-103
108♦	74-73	CMOS	74HCT73N	SIC		DIP	68-104
109	74-73	CMOS	74HC73D	SIC	*	SO	70- 2
110♦	74-73	CMOS	74HC73N	SIC		DIP	70- 3
111♦	74-73	TTL	DM54LS73AJ	NSC		DIP	71-102
112♦	74-73	TTL	DM74LS73AN	NSC		DIP	71-109
113♦	74-73	TTL	DN74LS73P1	MATJ		DIP	72- 6
114	74-73	TTL	DN74LS73P4	MATJ	*	SO	72- 7
115	74-73	TTL	SN74LS73AD	TII	*	SO	72- 41
116♦	74-73N	CMOS	CD54HCT73F	RCA		DIP	73- 28
117♦	74-73N	CMOS	CD54HC73F	RCA		DIP	73- 24
118♦	74-73N	CMOS	CD74HCT73E	RCA		DIP	73- 39
119♦	74-73N	CMOS	CD74HCT73M(A)	RCA	*	SO	73- 40
120♦	74-73N	CMOS	CD74HC73E	RCA		DIP	73- 32
121♦	74-73N	CMOS	CD74HC73M(A)	RCA	*	SO	73- 33
122▼	74-73N	CMOS	HD74HC73FP	HITJ	*	SO	69- 7
123▼	74-73N	CMOS	HD74HC73P	HITJ		DIP	69- 8
124♦	74-73N	CMOS	MC54HC73J(A)	MOTA		DIP	70- 64
125♦	74-73N	CMOS	MC74HC73J(A)	MOTA		DIP	70- 70
126♦	74-73N	CMOS	MC74HC73N(A)	MOTA		DIP	70- 71
127♦	74-73N	CMOS	MM54C73D	NSC		DIP	67- 38
128♦	74-73N	CMOS	MM54HC73J	NSC		DIP	68- 99
129♦	74-73N	CMOS	MM74C73N	NSC		DIP	67- 41
130♦	74-73N	CMOS	MM74HC73J	NSC		DIP	69- 65
131♦	74-73N	CMOS	MM74HC73N	NSC		DIP	69- 66
132♦	74-73N	CMOS	SN74HC73N(A)	TII		DIP	69-101
133▼	74-73N	CMOS	TC74HC73F(A)	TOSA	*	SO	73- 16
134▼	74-73N	CMOS	TC74HC73P(A)	TOSA		DIP	73- 17
135♦	74-73N	CMOS	US74HCT73N(A)	UNV		DIP	71- 26
136	74-73N	DTL	SFC473PM	THEF		Can	67- 6
137♦	74-73N	TTL	DM54L73J	NSC		DIP	67- 85
138♦	74-73N	TTL	DM5473J	NSC		DIP	69- 40
139♦	74-73N	TTL	DM74L73J	NSC		DIP	67- 89
140♦	74-73N	TTL	DM74L73N	NSC		DIP	67- 90
141♦	74-73N	TTL	DM7473N	NSC		DIP	69- 44
142♦	74-73N	TTL	FJJ121-7473	PHIN		DIP	67- 80
143♦	74-73N	TTL	MB74LS73A	FCAJ		DIP	70- 47
144♦	74-73N	TTL	MB74LS73AM	FCAJ		DIP	70- 48
145♦	74-73N	TTL	M53273P	MITJ		DIP	68- 7
146♦	74-73N	TTL	M74LS73AP	MITA		DIP	72- 21
147♦	74-73N	TTL	M74LS73AP	MITJ		DIP	72- 21
148♦	74-73N	TTL	N74H73F	MULB		DIP	69- 67
149♦	74-73N	TTL	N74H73F	PHIN		DIP	69- 67
150♦	74-73N	TTL	N74H73F	VALG		DIP	69- 67
151♦	74-73N	TTL	N74H73N	MULB		DIP	69- 68
152♦	74-73N	TTL	N74H73N	PHIN		DIP	69- 68
153♦	74-73N	TTL	N74H73N	VALG		DIP	69- 68
154♦	74-73N	TTL	N74LS73F	MULB		DIP	70- 82
155♦	74-73N	TTL	N74LS73F	PHIN		DIP	70- 82
156♦	74-73N	TTL	N74LS73F	RTCF		DIP	70- 82
157♦	74-73N	TTL	N74LS73F	VALG		DIP	70- 82
158♦	74-73N	TTL	N74LS73N	MULB		DIP	70- 83
159♦	74-73N	TTL	N74LS73N	PHIN		DIP	70- 83
160♦	74-73N	TTL	N74LS73N	RTCF		DIP	70- 83
161♦	74-73N	TTL	N74LS73N	SIC		DIP	70- 83
162♦	74-73N	TTL	N74LS73N	VALG		DIP	70- 83
163♦	74-73N	TTL	N7473F	MULB		DIP	68- 9
164♦	74-73N	TTL	N7473F	PHIN		DIP	68- 9
165♦	74-73N	TTL	N7473F	RTCF		DIP	68- 9
166♦	74-73N	TTL	N7473F	VALG		DIP	68- 9
167♦	74-73N	TTL	N7473N	MULB		DIP	68- 10
168♦	74-73N	TTL	N7473N	PHIN		DIP	68- 10
169♦	74-73N	TTL	N7473N	RTCF		DIP	68- 10
170♦	74-73N	TTL	N7473N	SIC		DIP	68- 10
171♦	74-73N	TTL	N7473N	VALG		DIP	68- 10
172♦	74-73N	TTL	SFC473E	THEF		DIP	68- 22
173♦	74-73N	TTL	SFC473EM	THEF		DIP	68- 72
174♦	74-73N	TTL	SFC473ET	THEF		DIP	68- 73
175♦	74-73N	TTL	SFC473LE	THEF		DIP	67- 33
176♦	74-73N	TTL	SFC473LEM	THEF		DIP	67- 34
177♦	74-73N	TTL	SN54LS73AJ	MOTA		DIP	72- 27
178♦	74-73N	TTL	SN54LS73AJ	TII		DIP	72- 27
179▼	74-73N	TTL	SN54LS73AN	MOTA		DIP	72- 28
180♦	74-73N	TTL	SN5473J	TII		DIP	68- 82
181♦	74-73N	TTL	SN74H73N	TII		DIP	71- 23
182♦	74-73N	TTL	SN74LS73AJ	MOTA		DIP	72- 42
183♦	74-73N	TTL	SN74LS73AN	MOTA		DIP	72- 43
184♦	74-73N	TTL	SN74LS73AN	TII		DIP	72- 43
185♦	74-73N	TTL	SN7473N	TII		DIP	68- 85
186♦	74-73N	TTL	S54H73F	MULB		DIP	69- 82
187♦	74-73N	TTL	S54H73F	PHIN		DIP	69- 82
188♦	74-73N	TTL	S54H73F	VALG		DIP	69- 82
189♦	74-73N	TTL	S54LS73F	MULB		DIP	70-104
190♦	74-73N	TTL	S54LS73F	PHIN		DIP	70-104
191♦	74-73N	TTL	S54LS73F	RTCF		DIP	70-104
192♦	74-73N	TTL	S54LS73F	SIC		DIP	70-104
193♦	74-73N	TTL	S54LS73F	VALG		DIP	70-104
194♦	74-73N	TTL	S5473F	MULB		DIP	68- 16
195♦	74-73N	TTL	S5473F	PHIN		DIP	68- 16
196♦	74-73N	TTL	S5473F	RTCF		DIP	68- 16
197♦	74-73N	TTL	S5473F	SIC		DIP	68- 16
198♦	74-73N	TTL	S5473F	VALG		DIP	68- 16
199♦	74-73N	TTL	54H73DM	FSC		DIP	70- 16
200♦	74-73N	TTL	5473DM	FSC		DIP	68- 45
201♦	74-73N	TTL	74H73DC	FSC		DIP	70- 26
202♦	74-73N	TTL	74H73PC	FSC		DIP	70- 27
203♦	74-73N	TTL	7473DC	FSC		DIP	68- 49
204♦	74-73N	TTL	7473PC	FSC		DIP	68- 50
205♦	74-74	CMOS	LC74HC74	TSAJ		DIP	52- 37
206	74-74	CMOS	MM74PC74	NSC			51- 2
207	74-74	CMOS	MM74PC74I	NSC			51- 3
208♦	74-74	CMOS	M54HC74F1(A)	SGSI		DIP	52- 38
209♦	74-74	CMOS	M74HC74B1(A)	SGSI		DIP	51- 32
210♦	74-74	CMOS	M74HC74F1(A)	SGSI		DIP	51- 34
211♦	74-74	CMOS	M74HC74P	MITJ		DIP	52- 5
212♦	74-74	CMOS	PC54HCT74D(A)	MULB		DIP	51- 25
213♦	74-74	CMOS	PC54HCT74D(A)	PHIN		DIP	51- 25
214♦	74-74	CMOS	PC54HCT74D(A)	RTCF		DIP	51- 25
215♦	74-74	CMOS	PC54HCT74D(A)	VALG		DIP	51- 25
216♦	74-74	CMOS	PC54HC74D(A)	MULB		DIP	51- 35
217♦	74-74	CMOS	PC54HC74D(A)	PHIN		DIP	51- 35
218♦	74-74	CMOS	PC54HC74D(A)	RTCF		DIP	51- 35
219♦	74-74	CMOS	PC54HC74D(A)	VALG		DIP	51- 35
220♦	74-74	CMOS	PC74HCT74D(A)	MULB		DIP	51- 36

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-74	CMOS	PC74HCT74D(A)	PHIN		DIP	51- 36
2♦	74-74	CMOS	PC74HCT74D(A)	RTCF		DIP	51- 36
3♦	74-74	CMOS	PC74HCT74D(A)	VALG		DIP	51- 36
4♦	74-74	CMOS	PC74HCT74P	MULB		DIP	51- 37
5♦	74-74	CMOS	PC74HCT74P	PHIN		DIP	51- 37
6♦	74-74	CMOS	PC74HCT74P	RTCF		DIP	51- 37
7♦	74-74	CMOS	PC74HCT74P	VALG		DIP	51- 37
8	74-74	CMOS	PC74HCT74T	MULB	*	SO	51- 29
9	74-74	CMOS	PC74HCT74T	PHIN	*	SO	51- 29
10	74-74	CMOS	PC74HCT74T	RTCF	*	SO	51- 29
11	74-74	CMOS	PC74HCT74T	VALG	*	SO	51- 29
12♦	74-74	CMOS	PC74HC74D(A)	MULB		DIP	51- 48
13♦	74-74	CMOS	PC74HC74D(A)	PHIN		DIP	51- 48
14♦	74-74	CMOS	PC74HC74D(A)	RTCF		DIP	51- 48
15♦	74-74	CMOS	PC74HC74D(A)	VALG		DIP	51- 48
16♦	74-74	CMOS	PC74HC74P	MULB		DIP	51- 49
17♦	74-74	CMOS	PC74HC74P	PHIN		DIP	51- 49
18♦	74-74	CMOS	PC74HC74P	RTCF		DIP	51- 49
19♦	74-74	CMOS	PC74HC74P	VALG		DIP	51- 49
20	74-74	CMOS	PC74HC74T	MULB	*	SO	51- 50
21	74-74	CMOS	PC74HC74T	PHIN	*	SO	51- 50
22	74-74	CMOS	PC74HC74T	RTCF	*	SO	51- 50
23	74-74	CMOS	PC74HC74T	VALG	*	SO	51- 50
24♦	74-74	CMOS	54ACT74DM(A)	FSC		DIP	52-105
25♦	74-74	CMOS	54ACT74SM(A)	FSC		DIP	52-106
26♦	74-74	CMOS	54AC74DM(A)	FSC		DIP	52-103
27♦	74-74	CMOS	54AC74SM(A)	FSC		DIP	52-104
28♦	74-74	CMOS	74ACT74DC(A)	FSC		DIP	53- 3
29♦	74-74	CMOS	74ACT74PC(A)	FSC		DIP	53- 4
30♦	74-74	CMOS	74ACT74SC(A)	FSC	*	SO	53- 5
31♦	74-74	CMOS	74AC74DC(A)	FSC		DIP	52-110
32♦	74-74	CMOS	74AC74PC(A)	FSC		DIP	53- 1
33♦	74-74	CMOS	74AC74SC(A)	FSC	*	SO	53- 2
34	74-74	CMOS	74HCT74D	SIC	*	SO	51- 44
35♦	74-74	CMOS	74HCT74N	SIC		DIP	51- 45
36	74-74	CMOS	74HC74D	SIC	*	SO	51- 92
37♦	74-74	CMOS	74HC74N	SIC		DIP	51- 93
38♦	74-74	TTL	DM54ALS74AJ	NSC		DIP	51- 98
39♦	74-74	TTL	DM54AS74J	NSC		DIP	52- 80
40♦	74-74	TTL	DM54LS74AJ	NSC		DIP	52- 6
41♦	74-74	TTL	DM74ALS74AJ	NSC		DIP	52- 15
42♦	74-74	TTL	DM74ALS74AN	NSC		DIP	52- 16
43♦	74-74	TTL	DM74AS74J	NSC		DIP	52- 89
44♦	74-74	TTL	DM74AS74N	NSC		DIP	52- 90
45♦	74-74	TTL	DM74LS74AN	NSC		DIP	52- 7
46♦	74-74	TTL	DN74LS74AP1	MATJ		DIP	52- 8
47	74-74	TTL	DN74LS74AP4	MATJ	*	SO	52- 9
48♦	74-74	TTL	M74ALS74AP	MITJ		DIP	52- 17
49▼	74-74	TTL	N74F74D	MULB	*	SO	53- 18
50▼	74-74	TTL	N74F74D	PHIN	*	SO	53- 18
51▼	74-74	TTL	N74F74D	RTCF	*	SO	53- 18
52▼	74-74	TTL	N74F74D	SIC	*	SO	53- 18
53▼	74-74	TTL	N74F74D	VALG	*	SO	53- 18
54♦	74-74	TTL	N74F74N	MULB		DIP	53- 20
55♦	74-74	TTL	N74F74N	PHIN		DIP	53- 20
56♦	74-74	TTL	N74F74N	RTCF		DIP	53- 20
57♦	74-74	TTL	N74F74N	SIC		DIP	53- 20
58♦	74-74	TTL	N74F74N	VALG		DIP	53- 20
59♦	74-74	TTL	SN54ALS74AJ	TII		DIP	51-108
60♦	74-74	TTL	SN54LS74AJ	MOTA		DIP	52- 10
61♦	74-74	TTL	SN54LS74AJ	TII		DIP	52- 10
62▼	74-74	TTL	SN54LS74AN	MOTA		DIP	52- 11
63▼	74-74	TTL	SN74ALS74AD	TII	*	SO	52- 19
64♦	74-74	TTL	SN74ALS74AN	TII		DIP	52- 20
65	74-74	TTL	SN74LS74AD	TII	*	SO	52- 12
66	74-74	TTL	SN74S74D	TII	*	SO	52-101
67♦	74-74N	CMOS	CD54HCT74F(A)	RCA		DIP	52- 51
68♦	74-74N	CMOS	CD54HC74F	RCA		DIP	52- 50
69▼	74-74N	CMOS	CD74AC74E(A)	RCA		DIP	52- 60
70▼	74-74N	CMOS	CD74AC74M(A)	RCA	*	SO	52- 61
71♦	74-74N	CMOS	CD74HCT74E	RCA		DIP	52- 54
72♦	74-74N	CMOS	CD74HCT74M	RCA	*	SO	52- 55
73♦	74-74N	CMOS	CD74HC74E	RCA		DIP	52- 52
74♦	74-74N	CMOS	CD74HC74M	RCA	*	SO	52- 53
75▼	74-74N	CMOS	HD74HC74FP	HITJ	*	SO	51- 30
76▼	74-74N	CMOS	HD74HC74P	HITJ		DIP	51- 31
77♦	74-74N	CMOS	MC54HC74J(A)	MOTA		DIP	51-101
78♦	74-74N	CMOS	MC74HC74J(A)	MOTA		DIP	51-102
79♦	74-74N	CMOS	MC74HC74N(A)	MOTA		DIP	51-103
80♦	74-74N	CMOS	MM54C74D	NSC		DIP	50- 60
81♦	74-74N	CMOS	MM54HCT74J(A)	NSC		DIP	51- 28
82♦	74-74N	CMOS	MM54HC74J	NSC		DIP	51- 40
83♦	74-74N	CMOS	MM74C74N	NSC		DIP	50- 61
84♦	74-74N	CMOS	MM74HCT74J(A)	NSC		DIP	51- 41
85♦	74-74N	CMOS	MM74HCT74N(A)	NSC		DIP	51- 42
86♦	74-74N	CMOS	MM74HC74J	NSC		DIP	51- 65
87♦	74-74N	CMOS	MM74HC74N	NSC		DIP	51- 66
88♦	74-74N	CMOS	SN54HC74J	TII		DIP	51- 43
89▼	74-74N	CMOS	SN74HC74D	TII	*	SO	51- 88
90♦	74-74N	CMOS	SN74HC74N	TII		DIP	51- 89
91	74-74N	CMOS	TC40H074P	IMTM		DIP	51- 39
92	74-74N	CMOS	TC40H074P	TOSJ		DIP	51- 39
93▼	74-74N	CMOS	TC74HC74F(A)	TOSA	*	SO	52- 59
94♦	74-74N	CMOS	TC74HC74P	TOSA		DIP	51- 91
95♦	74-74N	CMOS	TC74HC74P	TOSJ		DIP	51- 91
96♦	74-74N	CMOS	UPD74HC74C(A)	NECJ		DIP	52- 39
97♦	74-74N	CMOS	US74HCT74N(A)	UNV		DIP	52- 4
98♦	74-74N	TTL	DM54H74J	NSC		DIP	50- 49
99♦	74-74N	TTL	DM54L74J	NSC		DIP	51- 10
100♦	74-74N	TTL	DM5474J	NSC		DIP	52- 25
101♦	74-74N	TTL	DM74H74N	NSC		DIP	50- 50
102♦	74-74N	TTL	DM74L74N	NSC		DIP	51- 12
103♦	74-74N	TTL	DM74S74N	NSC		DIP	52- 98
104♦	74-74N	TTL	DM7474N	NSC		DIP	52- 27
105♦	74-74N	TTL	FJJ131-7474	PHIN		DIP	51- 19
106▼	74-74N	TTL	HD74LS74AG	HITJ		DIP	51- 58
107♦	74-74N	TTL	HD74LS74AP	HITJ		DIP	51- 59
108♦	74-74N	TTL	MB420	FCAJ		DIP	51- 63
109♦	74-74N	TTL	MB420M	FCAJ		DIP	51- 64
110♦	74-74N	TTL	MB74LS74A	FCAJ		DIP	51- 61
111♦	74-74N	TTL	MB74LS74AM	FCAJ		DIP	51- 62
112▼	74-74N	TTL	MC3060L	MOTA		DIP	51-104
113▼	74-74N	TTL	MC3060P	MOTA		DIP	51-105
114♦	74-74N	TTL	MC3160F	MOTA	*	FP	51-106
115♦	74-74N	TTL	MC3160L	MOTA		DIP	51-107
116♦	74-74N	TTL	MC54F74J	MOTA		DIP	53- 14
117▼	74-74N	TTL	MC54F74N	MOTA		DIP	53- 15
118♦	74-74N	TTL	MC74F74J	MOTA		DIP	53- 16
119♦	74-74N	TTL	MC74F74N	MOTA		DIP	53- 17
120♦	74-74N	TTL	M53274P	MITJ		DIP	51- 60
121♦	74-74N	TTL	M74ALS74P	MITA		DIP	52- 18
122♦	74-74N	TTL	M74LS74AP	MITA		DIP	52- 56
123♦	74-74N	TTL	M74LS74AP	MITJ		DIP	52- 56
124♦	74-74N	TTL	N74F74F	VALG		DIP	53- 19
125♦	74-74N	TTL	N74H74F	MULB		DIP	52- 28
126♦	74-74N	TTL	N74H74F	PHIN		DIP	52- 28
127♦	74-74N	TTL	N74H74F	VALG		DIP	52- 28
128♦	74-74N	TTL	N74H74N	MULB		DIP	52- 29
129♦	74-74N	TTL	N74H74N	PHIN		DIP	52- 29
130♦	74-74N	TTL	N74H74N	VALG		DIP	52- 29
131	74-74N	TTL	N74LS74AD	MULB	*	SO	51- 67
132	74-74N	TTL	N74LS74AD	PHIN	*	SO	51- 67
133	74-74N	TTL	N74LS74AD	RTCF	*	SO	51- 67
134	74-74N	TTL	N74LS74AD	VALG	*	SO	51- 67
135♦	74-74N	TTL	N74LS74AF	MULB		DIP	51- 68
136♦	74-74N	TTL	N74LS74AF	PHIN		DIP	51- 68
137♦	74-74N	TTL	N74LS74AF	RTCF		DIP	51- 68
138♦	74-74N	TTL	N74LS74AF	VALG		DIP	51- 68
139♦	74-74N	TTL	N74LS74AN	MULB		DIP	51- 69
140♦	74-74N	TTL	N74LS74AN	PHIN		DIP	51- 69
141♦	74-74N	TTL	N74LS74AN	RTCF		DIP	51- 69
142♦	74-74N	TTL	N74LS74AN	SIC		DIP	51- 69
143♦	74-74N	TTL	N74LS74AN	VALG		DIP	51- 69
144	74-74N	TTL	N74S74D	MULB	*	SO	52- 63
145	74-74N	TTL	N74S74D	PHIN	*	SO	52- 63
146	74-74N	TTL	N74S74D	RTCF	*	SO	52- 63
147	74-74N	TTL	N74S74D	SIC	*	SO	52- 63
148	74-74N	TTL	N74S74D	VALG	*	SO	52- 63
149♦	74-74N	TTL	N74S74N	MULB		DIP	52- 64
150♦	74-74N	TTL	N74S74N	PHIN		DIP	52- 64
151♦	74-74N	TTL	N74S74N	RTCF		DIP	52- 64
152♦	74-74N	TTL	N74S74N	SIC		DIP	52- 64
153♦	74-74N	TTL	N74S74N	VALG		DIP	52- 64
154♦	74-74N	TTL	N7474F	MULB		DIP	51- 20
155♦	74-74N	TTL	N7474F	PHIN		DIP	51- 20
156♦	74-74N	TTL	N7474F	RTCF		DIP	51- 20
157♦	74-74N	TTL	N7474F	VALG		DIP	51- 20
158♦	74-74N	TTL	N7474N	MULB		DIP	51- 21
159♦	74-74N	TTL	N7474N	PHIN		DIP	51- 21
160♦	74-74N	TTL	N7474N	RTCF		DIP	51- 21
161♦	74-74N	TTL	N7474N	SIC		DIP	51- 21
162♦	74-74N	TTL	N7474N	VALG		DIP	51- 21
163♦	74-74N	TTL	N8828A	MULB		DIP	51- 70
164♦	74-74N	TTL	N8828A	PHIN		DIP	51- 70
165♦	74-74N	TTL	N8828F	MULB		DIP	51- 71
166♦	74-74N	TTL	N8828F	PHIN		DIP	51- 71
167♦	74-74N	TTL	SFC474E	THEF		DIP	51- 81
168♦	74-74N	TTL	SFC474EM	THEF		DIP	51- 82
169♦	74-74N	TTL	SFC474ET	THEF		DIP	51- 83
170♦	74-74N	TTL	SFC474HE	THEF		DIP	52- 32
171♦	74-74N	TTL	SFC474HEM	THEF		DIP	52- 33
172♦	74-74N	TTL	SFC474LE	THEF		DIP	50- 58
173♦	74-74N	TTL	SFC474LEM	THEF		DIP	50- 59
174♦	74-74N	TTL	SN54AS74J	TII		DIP	52- 81
175♦	74-74N	TTL	SN54S74J	TII		DIP	52-100
176▼	74-74N	TTL	SN74AS74D	TII	*	SO	52- 91
177♦	74-74N	TTL	SN74AS74N	TII		DIP	52- 92
178♦	74-74N	TTL	SN74H74N	TII		DIP	52- 40
179♦	74-74N	TTL	SN74LS74AJ	MOTA		DIP	52- 13
180♦	74-74N	TTL	SN74LS74AN	MOTA		DIP	52- 14
181♦	74-74N	TTL	SN74LS74AN	TII		DIP	52- 14
182♦	74-74N	TTL	SN74S74N	TII		DIP	52-102
183♦	74-74N	TTL	SN7474N	TII		DIP	51- 90
184♦	74-74N	TTL	S54F74F	MULB		DIP	52- 78
185♦	74-74N	TTL	S54F74F	PHIN		DIP	52- 78
186♦	74-74N	TTL	S54F74F	RTCF		DIP	52- 78
187♦	74-74N	TTL	S54F74F	SIC		DIP	52- 78
188♦	74-74N	TTL	S54F74F	VALG		DIP	52- 78
189♦	74-74N	TTL	S54H74F	MULB		DIP	52- 30
190♦	74-74N	TTL	S54H74F	PHIN		DIP	52- 30
191♦	74-74N	TTL	S54H74F	VALG		DIP	52- 30
192♦	74-74N	TTL	S54LS74AF	MULB		DIP	51- 73
193♦	74-74N	TTL	S54LS74AF	PHIN		DIP	51- 73
194♦	74-74N	TTL	S54LS74AF	RTCF		DIP	51- 73
195♦	74-74N	TTL	S54LS74AF	SIC		DIP	51- 73
196♦	74-74N	TTL	S54LS74AF	VALG		DIP	51- 73
197	74-74N	TTL	S54LS74AG	MULB	*	LLCC	51- 74
198	74-74N	TTL	S54LS74AG	PHIN	*	LLCC	51- 74
199	74-74N	TTL	S54LS74AG	RTCF	*	LLCC	51- 74
200	74-74N	TTL	S54LS74AG	SIC	*	LLCC	51- 74
201	74-74N	TTL	S54LS74AG	VALG	*	LLCC	51- 74
202♦	74-74N	TTL	S54LS74F	MULB		DIP	51- 76
203♦	74-74N	TTL	S54LS74F	PHIN		DIP	51- 76
204♦	74-74N	TTL	S54LS74F	RTCF		DIP	51- 76
205♦	74-74N	TTL	S54LS74F	SIC		DIP	51- 76
206♦	74-74N	TTL	S54LS74F	VALG		DIP	51- 76
207♦	74-74N	TTL	S5474F	MULB		DIP	51- 22
208♦	74-74N	TTL	S5474F	PHIN		DIP	51- 22
209♦	74-74N	TTL	S5474F	RTCF		DIP	51- 22
210♦	74-74N	TTL	S5474F	SIC		DIP	51- 22
211♦	74-74N	TTL	S5474F	VALG		DIP	51- 22
212♦	74-74N	TTL	S8828A	MULB		DIP	51- 78
213♦	74-74N	TTL	S8828A	PHIN		DIP	51- 78
214♦	74-74N	TTL	S8828F	MULB		DIP	51- 79
215♦	74-74N	TTL	S8828F	PHIN		DIP	51- 79
216♦	74-74N	TTL	T54LS74D2	SGSI		DIP	50- 54
217♦	74-74N	TTL	T74LS74B1	SGSI		DIP	50- 55
218♦	74-74N	TTL	T74LS74D1	SGSI		DIP	50- 56
219♦	74-74N	TTL	54F74DM	FSC		DIP	52-107
220♦	74-74N	TTL	54H74DM	FSC		DIP	52- 21

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-74N	TTL	54LS74DM	FSC		DIP	50- 47
2♦	74-74N	TTL	54S74DM	FSC		DIP	52- 93
3♦	74-74N	TTL	5474DM	FSC		DIP	51- 52
4♦	74-74N	TTL	74F74DC	FSC		DIP	53- 6
5♦	74-74N	TTL	74F74PC	FSC		DIP	53- 8
6♦	74-74N	TTL	74H74DC	FSC		DIP	52- 23
7♦	74-74N	TTL	74H74PC	FSC		DIP	52- 24
8♦	74-74N	TTL	74S74DC	FSC		DIP	52- 95
9♦	74-74N	TTL	74S74PC	FSC		DIP	52- 96
10♦	74-74N	TTL	7474DC	FSC		DIP	51- 54
11♦	74-74N	TTL	7474PC	FSC		DIP	51- 55
12♦	74-75	CMOS	CD54HCT75F(A)	RCA		DIP	229- 98
13♦	74-75	CMOS	CD54HC75F(A)	RCA		DIP	229- 85
14♦	74-75	CMOS	CD74HCT75E(A)	RCA		DIP	229- 86
15♦	74-75	CMOS	CD74HC75E(A)	RCA		DIP	229- 83
16♦	74-75	CMOS	M54HC75F1(A)	SGSI		DIP	231- 13
17♦	74-75	CMOS	M74HC75B1(A)	SGSI		DIP	231- 94
18♦	74-75	CMOS	M74HC75F1(A)	SGSI		DIP	231- 96
19♦	74-75	CMOS	PC54HCT75D(A)	MULB		DIP	231-110
20♦	74-75	CMOS	PC54HCT75D(A)	PHIN		DIP	231-110
21♦	74-75	CMOS	PC54HCT75D(A)	RTCF		DIP	231-110
22♦	74-75	CMOS	PC54HCT75D(A)	VALG		DIP	231-110
23♦	74-75	CMOS	PC54HC75D(A)	MULB		DIP	231-103
24♦	74-75	CMOS	PC54HC75D(A)	PHIN		DIP	231-103
25♦	74-75	CMOS	PC54HC75D(A)	RTCF		DIP	231-103
26♦	74-75	CMOS	PC54HC75D(A)	VALG		DIP	231-103
27♦	74-75	CMOS	PC74HCT75D(A)	MULB		DIP	231-102
28♦	74-75	CMOS	PC74HCT75D(A)	PHIN		DIP	231-102
29♦	74-75	CMOS	PC74HCT75D(A)	RTCF		DIP	231-102
30♦	74-75	CMOS	PC74HCT75D(A)	VALG		DIP	231-102
31♦	74-75	CMOS	PC74HCT75P	PHIN		DIP	232- 1
32♦	74-75	CMOS	PC74HCT75P	RTCF		DIP	232- 1
33♦	74-75	CMOS	PC74HCT75P	VALG		DIP	232- 1
34♦	74-75	CMOS	PC74HCT75T	MULB	*	SO	232- 2
35♦	74-75	CMOS	PC74HCT75T	PHIN	*	SO	232- 2
36♦	74-75	CMOS	PC74HCT75T	RTCF	*	SO	232- 2
37♦	74-75	CMOS	PC74HCT75T	VALG	*	SO	232- 2
38♦	74-75	CMOS	PC74HC75D(A)	MULB		DIP	231- 41
39♦	74-75	CMOS	PC74HC75D(A)	PHIN		DIP	231- 41
40♦	74-75	CMOS	PC74HC75D(A)	RTCF		DIP	231- 41
41♦	74-75	CMOS	PC74HC75D(A)	VALG		DIP	231- 41
42♦	74-75	CMOS	PC74HC75P	MULB		DIP	231- 83
43♦	74-75	CMOS	PC74HC75P	PHIN		DIP	231- 83
44♦	74-75	CMOS	PC74HC75P	RTCF		DIP	231- 83
45♦	74-75	CMOS	PC74HC75P	VALG		DIP	231- 83
46♦	74-75	CMOS	PC74HC75T	MULB	*	SO	231- 84
47♦	74-75	CMOS	PC74HC75T	PHIN	*	SO	231- 84
48♦	74-75	CMOS	PC74HC75T	RTCF	*	SO	231- 84
49♦	74-75	CMOS	PC74HC75T	VALG	*	SO	231- 84
50	74-75	CMOS	74HCT75D	SIC	*	SO	231- 87
51♦	74-75	CMOS	74HCT75N	SIC		DIP	231- 88
52	74-75	CMOS	74HC75D	SIC	*	SO	231- 11
53♦	74-75	CMOS	74HC75N	SIC		DIP	231- 12
54♦	74-75	ITL	DM74L75AN	NSC		DIP	232- 69
55♦	74-75	TTL	DM54LS75J	NSC		DIP	231- 24
56♦	74-75	TTL	DM74LS75N	NSC		DIP	231- 26
57♦	74-75	TTL	SN74LS75D	TII	*	SO	230-104
58▼	74-75N	CMOS	HD74HC75FP	HITJ	*	SO	230- 73
59▼	74-75N	CMOS	HD74HC75P	HITJ		DIP	230- 74
60♦	74-75N	CMOS	MC54HC75J(A)	MOTA		DIP	229- 70
61♦	74-75N	CMOS	MC74HC75J(A)	MOTA		DIP	229- 71
62♦	74-75N	CMOS	MC74HC75N(A)	MOTA		DIP	229- 72
63♦	74-75N	CMOS	MM54HC75J	NSC		DIP	231-104
64♦	74-75N	CMOS	MM74HC75J	NSC		DIP	231- 72
65♦	74-75N	CMOS	MM74HC75N	NSC		DIP	231- 73
66♦	74-75N	CMOS	SN74HC75N	TII		DIP	231- 56
67▼	74-75N	CMOS	TC74HC75F(A)	TOSA	*	SO	230- 66
68▼	74-75N	CMOS	TC74HC75P(A)	TOSA		DIP	230- 67
69♦	74-75N	TTL	DM5475J	NSC		DIP	229- 78
70♦	74-75N	TTL	DM7475N	NSC		DIP	229- 80
71▼	74-75N	TTL	HD74LS75G	HITJ		DIP	230-108
72♦	74-75N	TTL	HD74LS75P	HITJ		DIP	230-109
73♦	74-75N	TTL	M53275P	MITJ		DIP	229- 88
74♦	74-75N	TTL	M74LS75P	MITA		DIP	231- 30
75♦	74-75N	TTL	M74LS75P	MITJ		DIP	231- 30
76♦	74-75N	TTL	N74LS75D	MULB	*	SO	229- 73
77♦	74-75N	TTL	N74LS75D	PHIN	*	SO	229- 73
78♦	74-75N	TTL	N74LS75D	RTCF	*	SO	229- 73
79♦	74-75N	TTL	N74LS75D	VALG	*	SO	229- 73
80♦	74-75N	TTL	N74LS75F	MULB		DIP	229- 81
81♦	74-75N	TTL	N74LS75F	PHIN		DIP	229- 81
82♦	74-75N	TTL	N74LS75F	RTCF		DIP	229- 81
83♦	74-75N	TTL	N74LS75F	VALG		DIP	229- 81
84♦	74-75N	TTL	N74LS75N	MULB		DIP	229- 74
85♦	74-75N	TTL	N74LS75N	PHIN		DIP	229- 74
86♦	74-75N	TTL	N74LS75N	RTCF		DIP	229- 74
87♦	74-75N	TTL	N74LS75N	SIC		DIP	229- 74
88♦	74-75N	TTL	N74LS75N	VALG		DIP	229- 74
89♦	74-75N	TTL	N7475F	MULB		DIP	229- 89
90♦	74-75N	TTL	N7475F	PHIN		DIP	229- 89
91♦	74-75N	TTL	N7475F	RTCF		DIP	229- 89
92♦	74-75N	TTL	N7475F	VALG		DIP	229- 89
93♦	74-75N	TTL	N7475N	MULB		DIP	229- 90
94♦	74-75N	TTL	N7475N	PHIN		DIP	229- 90
95♦	74-75N	TTL	N7475N	RTCF		DIP	229- 90
96♦	74-75N	TTL	N7475N	SIC		DIP	229- 90
97♦	74-75N	TTL	N7475N	VALG		DIP	229- 90
98♦	74-75N	TTL	SFC475E	THEF		DIP	229- 93
99♦	74-75N	TTL	SFC475EM	THEF		DIP	229- 94
100♦	74-75N	TTL	SFC475ET	THEF		DIP	229- 95
101♦	74-75N	TTL	SFC475JM	THEF		DIP	229- 96
102♦	74-75N	TTL	SFC475KM	THEF		DIP	229- 97
103♦	74-75N	TTL	SN54LS75J	MOTA		DIP	231- 50
104♦	74-75N	TTL	SN54LS75J	TII		DIP	231- 50
105▼	74-75N	TTL	SN54LS75N	MOTA		DIP	231- 51
106♦	74-75N	TTL	SN5475J	TII		DIP	231-108
107♦	74-75N	TTL	SN74LS75J	MOTA		DIP	231- 59
108♦	74-75N	TTL	SN74LS75N	MOTA		DIP	231- 60
109♦	74-75N	TTL	SN74LS75N	TII		DIP	231- 60
110♦	74-75N	TTL	SN7475N	TII		DIP	231-109
111♦	74-75N	TTL	S54LS75F	MULB		DIP	229- 75
112♦	74-75N	TTL	S54LS75F	PHIN		DIP	229- 75
113♦	74-75N	TTL	S54LS75F	RTCF		DIP	229- 75
114♦	74-75N	TTL	S54LS75F	SIC		DIP	229- 75
115♦	74-75N	TTL	S54LS75F	VALG		DIP	229- 75
116♦	74-75N	TTL	S5475F	MULB		DIP	229- 91
117♦	74-75N	TTL	S5475F	PHIN		DIP	229- 91
118♦	74-75N	TTL	S5475F	RTCF		DIP	229- 91
119♦	74-75N	TTL	S5475F	SIC		DIP	229- 91
120♦	74-75N	TTL	S5475F	VALG		DIP	229- 91
121♦	74-75N	TTL	5475DM	FSC		DIP	231- 89
122♦	74-75N	TTL	7475DC	FSC		DIP	231- 92
123♦	74-75N	TTL	7475PC	FSC		DIP	231- 93
124▼	74-76N	TTL	HD74LS76AG	HITJ		DIP	70- 37
125▼	74-76N	TTL	HD74LS76AP	HITJ		DIP	70- 38
126♦	74LS76	CMOS	M54HC76F1(A)	SGSI		DIP	73- 18
127♦	74LS76	CMOS	M74HC76B1(A)	SGSI		DIP	69- 53
128	74LS76	CMOS	M74HC76C1(A)	SGSI	*	LDCC	69- 54
129♦	74LS76	CMOS	M74HC76F1(A)	SGSI		DIP	69- 55
130♦	74LS76	TTL	DM54LS76AJ	NSC		DIP	71-103
131♦	74LS76	TTL	DM74LS76AN	NSC		DIP	71-110
132♦	74LS76	TTL	DN74LS76P2	MATJ		DIP	72- 8
133	74LS76	TTL	DN74LS76P5	MATJ	*	SO	72- 9
134	74LS76	TTL	SN74LS76AD	TII	*	SO	72- 44
135▼	74LS76N	CMOS	HD74HC76FP	HITJ	*	SO	69- 9
136▼	74LS76N	CMOS	HD74HC76P	HITJ		DIP	69- 10
137♦	74LS76N	CMOS	MC54HC76J(A)	MOTA		DIP	70- 65
138♦	74LS76N	CMOS	MC74HC76J(A)	MOTA		DIP	70- 72
139♦	74LS76N	CMOS	MC74HC76N(A)	MOTA		DIP	70- 73
140♦	74LS76N	CMOS	MM54C76D	NSC		DIP	67- 39
141♦	74LS76N	CMOS	MM54HC76J	NSC		DIP	68- 56
142♦	74LS76N	CMOS	MM74C76N	NSC		DIP	67- 42
143♦	74LS76N	CMOS	MM74HC76J	NSC		DIP	69- 23
144♦	74LS76N	CMOS	MM74HC76N	NSC		DIP	69- 24
145♦	74LS76N	CMOS	SN74HC76N	TII		DIP	69-102
146▼	74LS76N	CMOS	TC74HC76F	TOSA	*	SO	73- 49
147♦	74LS76N	CMOS	TC74HC76P	TOSA		DIP	73- 50
148♦	74LS76N	CMOS	TC74HC76P	TOSJ		DIP	73- 50
149♦	74LS76N	CMOS	TC7476BP	IMTM		DIP	67- 37
150♦	74LS76N	CMOS	TC7476BP	TOSJ		DIP	67- 37
151♦	74LS76N	CMOS	US74HCT76N(A)	UNV		DIP	71- 27
152♦	74LS76N	TTL	DM5476J	NSC		DIP	69- 42
153♦	74LS76N	TTL	DM7476N	NSC		DIP	69- 45
154♦	74LS76N	TTL	FJJ191-7476	PHIN		DIP	68- 3
155♦	74LS76N	TTL	MB74LS76A	FCAJ		DIP	70- 49
156♦	74LS76N	TTL	MB74LS76AM	FCAJ		DIP	70- 50
157♦	74LS76N	TTL	M53276P	MITJ		DIP	68- 8
158♦	74LS76N	TTL	M74LS76AP	MITA		DIP	72- 22
159♦	74LS76N	TTL	M74LS76AP	MITJ		DIP	72- 22
160♦	74LS76N	TTL	N74H106F	MULB		DIP	71- 79
161♦	74LS76N	TTL	N74H106F	PHIN		DIP	71- 79
162♦	74LS76N	TTL	N74H106F	VALG		DIP	71- 79
163♦	74LS76N	TTL	N74H106N	MULB		DIP	71- 80
164♦	74LS76N	TTL	N74H106N	PHIN		DIP	71- 80
165♦	74LS76N	TTL	N74H106N	VALG		DIP	71- 80
166♦	74LS76N	TTL	N74H76F	MULB		DIP	69- 69
167♦	74LS76N	TTL	N74H76F	PHIN		DIP	69- 69
168♦	74LS76N	TTL	N74H76F	VALG		DIP	69- 69
169♦	74LS76N	TTL	N74H76N	MULB		DIP	69- 70
170♦	74LS76N	TTL	N74H76N	PHIN		DIP	69- 70
171♦	74LS76N	TTL	N74H76N	VALG		DIP	69- 70
172♦	74LS76N	TTL	N74LS76F	MULB		DIP	70- 84
173♦	74LS76N	TTL	N74LS76F	PHIN		DIP	70- 84
174♦	74LS76N	TTL	N74LS76F	RTCF		DIP	70- 84
175♦	74LS76N	TTL	N74LS76F	VALG		DIP	70- 84
176♦	74LS76N	TTL	N74LS76N	MULB		DIP	70- 85
177♦	74LS76N	TTL	N74LS76N	PHIN		DIP	70- 85
178♦	74LS76N	TTL	N74LS76N	RTCF		DIP	70- 85
179♦	74LS76N	TTL	N74LS76N	SIC		DIP	70- 85
180♦	74LS76N	TTL	N74LS76N	VALG		DIP	70- 85
181♦	74LS76N	TTL	N7476F	MULB		DIP	68- 11
182♦	74LS76N	TTL	N7476F	PHIN		DIP	68- 11
183♦	74LS76N	TTL	N7476F	RTCF		DIP	68- 11
184♦	74LS76N	TTL	N7476F	VALG		DIP	68- 11
185♦	74LS76N	TTL	N7476N	MULB		DIP	68- 12
186♦	74LS76N	TTL	N7476N	PHIN		DIP	68- 12
187♦	74LS76N	TTL	N7476N	RTCF		DIP	68- 12
188♦	74LS76N	TTL	N7476N	SIC		DIP	68- 12
189♦	74LS76N	TTL	N7476N	VALG		DIP	68- 12
190♦	74LS76N	TTL	SFC476E	THEF		DIP	68- 74
191♦	74LS76N	TTL	SFC476EM	THEF		DIP	68- 75
192♦	74LS76N	TTL	SFC476ET	THEF		DIP	68- 76
193♦	74LS76N	TTL	SN54LS76AJ	MOTA		DIP	72- 29
194♦	74LS76N	TTL	SN54LS76AJ	TII		DIP	72- 29
195▼	74LS76N	TTL	SN54LS76AN	MOTA		DIP	72- 30
196♦	74LS76N	TTL	SN5476J	TII		DIP	68- 84
197♦	74LS76N	TTL	SN74H76N	TII		DIP	71- 24
198♦	74LS76N	TTL	SN74LS76AJ	MOTA		DIP	72- 45
199♦	74LS76N	TTL	SN74LS76AN	MOTA		DIP	72- 46
200♦	74LS76N	TTL	SN74LS76AN	TII		DIP	72- 46
201♦	74LS76N	TTL	SN7476N	TII		DIP	68- 86
202♦	74LS76N	TTL	S54H106F	MULB		DIP	71- 85
203♦	74LS76N	TTL	S54H106F	PHIN		DIP	71- 85
204♦	74LS76N	TTL	S54H106F	VALG		DIP	71- 85
205♦	74LS76N	TTL	S54H76F	MULB		DIP	69- 84
206♦	74LS76N	TTL	S54H76F	PHIN		DIP	69- 84
207♦	74LS76N	TTL	S54H76F	VALG		DIP	69- 84
208♦	74LS76N	TTL	S54LS76F	MULB		DIP	70-106
209♦	74LS76N	TTL	S54LS76F	PHIN		DIP	70-106
210♦	74LS76N	TTL	S54LS76F	RTCF		DIP	70-106
211♦	74LS76N	TTL	S54LS76F	SIC		DIP	70-106
212♦	74LS76N	TTL	S54LS76F	VALG		DIP	70-106
213♦	74LS76N	TTL	S5476F	MULB		DIP	68- 18
214♦	74LS76N	TTL	S5476F	PHIN		DIP	68- 18
215♦	74LS76N	TTL	S5476F	RTCF		DIP	68- 18
216♦	74LS76N	TTL	S5476F	SIC		DIP	68- 18
217♦	74LS76N	TTL	S5476F	VALG		DIP	68- 18
218♦	74LS76N	TTL	54H106DM	FSC		DIP	72- 72
219♦	74LS76N	TTL	54LS76DM	FSC		DIP	70- 20
220♦	74LS76N	TTL	5476DM	FSC		DIP	68- 47

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74LS76N	TTL	74H106DC	FSC		DIP	72- 78
2	74LS76N	TTL	74H106PC	FSC			72- 79
3♦	74LS76N	TTL	74LS76DC	FSC		DIP	70- 28
4	74LS76N	TTL	74LS76PC	FSC			70- 29
5♦	74LS76N	TTL	7476DC	FSC		DIP	68- 51
6	74LS76N	TTL	7476PC	FSC			68- 52
7♦	74LS77	CMOS	M54HC77F1(A)	SGSI		DIP	231- 14
8♦	74LS77	CMOS	M74HC77B1(A)	SGSI		DIP	231- 97
9♦	74LS77	CMOS	M74HC77F1(A)	SGSI		DIP	231- 99
10♦	74LS77N		MB430	FCAJ		DIP	229- 10
11♦	74LS77N		MB430M	FCAJ		DIP	229- 11
12▼	74LS77N	CMOS	HD74HC77FP	HITJ	*	SO	230- 75
13▼	74LS77N	CMOS	HD74HC77P	HITJ		DIP	230- 76
14▼	74LS77N	CMOS	SN74HC77D	TII	*	SO	231- 57
15♦	74LS77N	CMOS	SN74HC77N	TII		DIP	231- 58
16▼	74LS77N	CMOS	TC74HC77F(A)	TOSA	*	SO	231- 68
17▼	74LS77N	CMOS	TC74HC77P(A)	TOSA		DIP	231- 69
18▼	74LS77N	TTL	HD74LS77G	HITJ		DIP	230-103
19♦	74LS77N	TTL	HD74LS77P	HITJ		DIP	230- 99
20♦	74LS77N	TTL	SN54LS77J	MOTA		DIP	231- 52
21♦	74LS77N	TTL	SN54LS77J	TII		DIP	231- 52
22▼	74LS77N	TTL	SN54LS77N	MOTA		DIP	231- 53
23♦	74LS77N	TTL	SN74LS77J	MOTA		DIP	231- 61
24♦	74LS77N	TTL	SN74LS77N	MOTA		DIP	231- 62
25▼	74H78N	CMOS	HD74HC108FP	HITJ	*	SO	69- 15
26▼	74H78N	CMOS	HD74HC108P	HITJ		DIP	69- 16
27▼	74H78N	CMOS	HD74HC78FP	HITJ	*	SO	69- 11
28▼	74H78N	CMOS	HD74HC78P	HITJ		DIP	69- 12
29▼	74H78N	CMOS	SN74HC78D(A)	TII	*	SO	69-103
30♦	74H78N	CMOS	SN74HC78N(A)	TII		DIP	69-104
31♦	74H78N	TTL	MB618	FCAJ		DIP	70- 63
32♦	74H78N	TTL	N74H108F	MULB		DIP	71- 81
33♦	74H78N	TTL	N74H108F	PHIN		DIP	71- 81
34♦	74H78N	TTL	N74H108F	VALG		DIP	71- 81
35♦	74H78N	TTL	N74H108N	MULB		DIP	71- 82
36♦	74H78N	TTL	N74H108N	PHIN		DIP	71- 82
37♦	74H78N	TTL	N74H108N	VALG		DIP	71- 82
38♦	74H78N	TTL	SN74H78N	TII		DIP	71- 25
39♦	74H78N	TTL	S54H108F	MULB		DIP	71- 87
40♦	74H78N	TTL	S54H108F	PHIN		DIP	71- 87
41♦	74H78N	TTL	S54H108F	VALG		DIP	71- 87
42♦	74H78N	TTL	54H108DM	FSC		DIP	72- 74
43♦	74H78N	TTL	74H108DC	FSC		DIP	72- 80
44♦	74H78N	TTL	74H108PC	FSC		DIP	72- 81
45♦	74L78	TTL	DM54LS78AJ	NSC		DIP	71-104
46♦	74L78	TTL	DM74LS78AN	NSC		DIP	72- 1
47♦	74L78	TTL	DN74LS78P1	MATJ		DIP	72- 10
48	74L78	TTL	DN74LS78P4	MATJ	*	SO	72- 11
49	74L78	TTL	SN74LS78AD	TII	*	SO	72- 47
50♦	74L78N	TTL	DM54L78J	NSC		DIP	67- 87
51♦	74L78N	TTL	DM74L78N	NSC		DIP	67- 91
52▼	74L78N	TTL	HD74LS78AG	HITJ		DIP	70- 39
53▼	74L78N	TTL	HD74LS78AP	HITJ		DIP	70- 40
54♦	74L78N	TTL	MB74LS78	FCAJ		DIP	70- 51
55♦	74L78N	TTL	MB74LS78AM	FCAJ		DIP	70- 52
56♦	74L78N	TTL	N74LS78F	MULB		DIP	70- 86
57♦	74L78N	TTL	N74LS78F	PHIN		DIP	70- 86
58♦	74L78N	TTL	N74LS78F	VALG		DIP	70- 86
59♦	74L78N	TTL	N74LS78N	MULB		DIP	70- 87
60♦	74L78N	TTL	N74LS78N	PHIN		DIP	70- 87
61♦	74L78N	TTL	N74LS78N	VALG		DIP	70- 87
62♦	74L78N	TTL	SN54LS78AJ	MOTA		DIP	72- 31
63♦	74L78N	TTL	SN54LS78AJ	TII		DIP	72- 31
64▼	74L78N	TTL	SN54LS78AN	MOTA		DIP	72- 32
65♦	74L78N	TTL	SN74LS78AJ	MOTA		DIP	72- 48
66♦	74L78N	TTL	SN74LS78AN	MOTA		DIP	72- 49
67♦	74L78N	TTL	SN74LS78AN	TII		DIP	72- 49
68♦	74L78N	TTL	S54LS78F	MULB		DIP	70-108
69♦	74L78N	TTL	S54LS78F	PHIN		DIP	70-108
70♦	74L78N	TTL	S54LS78F	VALG		DIP	70-108
71♦	74L78N	TTL	54LS78DM	FSC		DIP	70- 22
72♦	74-80N	TTL	MB408	FCAJ		DIP	198- 46
73♦	74-80N	TTL	MB408M	FCAJ		DIP	198- 47
74♦	74-80N	TTL	N7480F	MULB		DIP	198- 66
75♦	74-80N	TTL	N7480F	PHIN		DIP	198- 66
76♦	74-80N	TTL	N7480F	VALG		DIP	198- 66
77♦	74-80N	TTL	N7480N	MULB		DIP	198- 67
78♦	74-80N	TTL	N7480N	PHIN		DIP	198- 67
79♦	74-80N	TTL	N7480N	VALG		DIP	198- 67
80♦	74-80N	TTL	N8268F	MULB		DIP	198- 63
81♦	74-80N	TTL	N8268F	PHIN		DIP	198- 63
82♦	74-80N	TTL	SN7480N	TII		DIP	198- 70
83♦	74-80N	TTL	S5480F	MULB		DIP	198- 68
84♦	74-80N	TTL	S5480F	PHIN		DIP	198- 68
85♦	74-80N	TTL	S5480F	VALG		DIP	198- 68
86♦	74-82N	TTL	SN7482N	TII		DIP	198-107
87▼	74-83	CMOS	HD74HC83FP	HITJ	*	SO	199- 83
88▼	74-83	CMOS	HD74HC83P	HITJ		DIP	199- 84
89♦	74-83	CMOS	MM54C83D	NSC		DIP	201- 17
90♦	74-83	CMOS	MM74C83N	NSC		DIP	201- 18
91♦	74-83	TTL	DM54LS83AJ	NSC		DIP	200- 64
92♦	74-83	TTL	DM5483J	NSC		DIP	200- 86
93♦	74-83	TTL	DM74LS83AN	NSC		DIP	200- 61
94♦	74-83	TTL	DM7483N	NSC		DIP	200- 88
95♦	74-83	TTL	DN74LS83AP2	MATJ		DIP	200- 11
96	74-83	TTL	DN74LS83AP5	MATJ	*	SO	200- 12
97▼	74-83	TTL	HD74LS83AG	HITJ		DIP	200- 15
98♦	74-83	TTL	HD74LS83AP	HITJ		DIP	199-104
99♦	74-83	TTL	MB74LS83A	FCAJ		DIP	200- 20
100♦	74-83	TTL	MB74LS83AM	FCAJ		DIP	200- 21
101♦	74-83	TTL	M74LS83AP	MITA		DIP	200- 18
102♦	74-83	TTL	M74LS83AP	MITJ		DIP	200- 18
103♦	74-83	TTL	N74LS83AF	MULB		DIP	200- 25
104♦	74-83	TTL	N74LS83AF	PHIN		DIP	200- 25
105♦	74-83	TTL	N74LS83AF	RTCF		DIP	200- 25
106♦	74-83	TTL	N74LS83AF	VALG		DIP	200- 25
107♦	74-83	TTL	N74LS83AN	MULB		DIP	200- 26
108♦	74-83	TTL	N74LS83AN	PHIN		DIP	200- 26
109♦	74-83	TTL	N74LS83AN	RTCF		DIP	200- 26
110♦	74-83	TTL	N74LS83AN	SIC		DIP	200- 26
111♦	74-83	TTL	N74LS83AN	VALG		DIP	200- 26
112♦	74-83	TTL	N74LS83F	MULB		DIP	200- 27
113♦	74-83	TTL	N74LS83F	PHIN		DIP	200- 27
114♦	74-83	TTL	N7483F	MULB		DIP	200- 89
115♦	74-83	TTL	N7483F	PHIN		DIP	200- 89
116♦	74-83	TTL	N7483F	RTCF		DIP	200- 89
117♦	74-83	TTL	N7483F	VALG		DIP	200- 89
118♦	74-83	TTL	N7483N	MULB		DIP	200- 73
119♦	74-83	TTL	N7483N	PHIN		DIP	200- 73
120♦	74-83	TTL	N7483N	RTCF		DIP	200- 73
121♦	74-83	TTL	N7483N	SIC		DIP	200- 73
122♦	74-83	TTL	N7483N	VALG		DIP	200- 73
123♦	74-83	TTL	SFC483ALSE	THEF		DIP	200- 90
124♦	74-83	TTL	SFC483ALSEM	THEF		DIP	200- 91
125♦	74-83	TTL	SFC483E	THEF		DIP	200- 92
126♦	74-83	TTL	SFC483EM	THEF		DIP	200- 93
127♦	74-83	TTL	SFC483ET	THEF		DIP	200- 94
128♦	74-83	TTL	SFC483JM	THEF		DIP	200- 95
129♦	74-83	TTL	SFC483KM	THEF		DIP	200- 96
130♦	74-83	TTL	SN54LS83AJ	MOTA		DIP	200- 39
131♦	74-83	TTL	SN54LS83AJ	TII		DIP	200- 39
132▼	74-83	TTL	SN54LS83AN	MOTA		DIP	200- 40
133♦	74-83	TTL	SN5483AJ	TII		DIP	200- 49
134	74-83	TTL	SN74LS83AD	TII	*	SO	200- 43
135♦	74-83	TTL	SN74LS83AJ	MOTA		DIP	200- 44
136♦	74-83	TTL	SN74LS83AN	MOTA		DIP	200- 45
137♦	74-83	TTL	SN74LS83AN	TII		DIP	200- 45
138♦	74-83	TTL	SN7483AN	TII		DIP	200- 50
139♦	74-83	TTL	S54LS83AF	MULB		DIP	200- 30
140♦	74-83	TTL	S54LS83AF	PHIN		DIP	200- 30
141♦	74-83	TTL	S54LS83AF	RTCF		DIP	200- 30
142♦	74-83	TTL	S54LS83AF	SIC		DIP	200- 30
143♦	74-83	TTL	S54LS83AF	VALG		DIP	200- 30
144♦	74-83	TTL	S54LS83F	MULB		DIP	200- 32
145♦	74-83	TTL	S54LS83F	PHIN		DIP	200- 32
146♦	74-83	TTL	S54LS83F	SIC		DIP	200- 32
147♦	74-83	TTL	S5483F	MULB		DIP	200- 76
148♦	74-83	TTL	S5483F	PHIN		DIP	200- 76
149♦	74-83	TTL	S5483F	RTCF		DIP	200- 76
150♦	74-83	TTL	S5483F	SIC		DIP	200- 76
151♦	74-83	TTL	S5483F	VALG		DIP	200- 76
152♦	74-83	TTL	T54LS83D2	SGSI		DIP	200- 53
153♦	74-83	TTL	T74LS83B1	SGSI		DIP	200- 55
154♦	74-83	TTL	T74LS83D1	SGSI		DIP	200- 56
155♦	74-83	TTL	54LS83ADM	FSC		DIP	199-109
156♦	74-83	TTL	5483ADM	FSC		DIP	199- 79
157♦	74-83	TTL	74LS83ADC	FSC		DIP	200- 5
158♦	74-83	TTL	74LS83APC	FSC		DIP	200- 6
159♦	74-83	TTL	7483ADC	FSC		DIP	199- 81
160♦	74-83	TTL	7483APC	FSC		DIP	199- 82
161♦	74-85	CMOS	CD54HCT85F	RCA		DIP	217- 32
162♦	74-85	CMOS	CD54HC85F	RCA		DIP	217- 27
163	74-85	CMOS	CD74HCT85E	RCA		DIP	216-110
164	74-85	CMOS	CD74HC85E	RCA		DIP	216-105
165♦	74-85	CMOS	MM74C85N	NSC		DIP	216- 51
166♦	74-85	CMOS	PC54HCT85D(A)	MULB		DIP	217- 44
167♦	74-85	CMOS	PC54HCT85D(A)	PHIN		DIP	217- 44
168♦	74-85	CMOS	PC54HCT85D(A)	RTCF		DIP	217- 44
169♦	74-85	CMOS	PC54HCT85D(A)	VALG		DIP	217- 44
170♦	74-85	CMOS	PC54HC85D(A)	MULB		DIP	217- 43
171♦	74-85	CMOS	PC54HC85D(A)	PHIN		DIP	217- 43
172♦	74-85	CMOS	PC54HC85D(A)	RTCF		DIP	217- 43
173♦	74-85	CMOS	PC54HC85D(A)	VALG		DIP	217- 43
174♦	74-85	CMOS	PC74HCT85D(A)	MULB		DIP	217- 40
175♦	74-85	CMOS	PC74HCT85D(A)	PHIN		DIP	217- 40
176♦	74-85	CMOS	PC74HCT85D(A)	RTCF		DIP	217- 40
177♦	74-85	CMOS	PC74HCT85D(A)	VALG		DIP	217- 40
178♦	74-85	CMOS	PC74HCT85P	MULB		DIP	217- 41
179♦	74-85	CMOS	PC74HCT85P	PHIN		DIP	217- 41
180♦	74-85	CMOS	PC74HCT85P	RTCF		DIP	217- 41
181♦	74-85	CMOS	PC74HCT85P	VALG		DIP	217- 41
182	74-85	CMOS	PC74HCT85T	MULB	*	SO	217- 42
183	74-85	CMOS	PC74HCT85T	PHIN	*	SO	217- 42
184	74-85	CMOS	PC74HCT85T	RTCF	*	SO	217- 42
185	74-85	CMOS	PC74HCT85T	VALG	*	SO	217- 42
186♦	74-85	CMOS	PC74HC85D(A)	MULB		DIP	217- 29
187♦	74-85	CMOS	PC74HC85D(A)	PHIN		DIP	217- 29
188♦	74-85	CMOS	PC74HC85D(A)	RTCF		DIP	217- 29
189♦	74-85	CMOS	PC74HC85D(A)	VALG		DIP	217- 29
190♦	74-85	CMOS	PC74HC85P	MULB		DIP	217- 30
191♦	74-85	CMOS	PC74HC85P	PHIN		DIP	217- 30
192♦	74-85	CMOS	PC74HC85P	RTCF		DIP	217- 30
193♦	74-85	CMOS	PC74HC85P	VALG		DIP	217- 30
194	74-85	CMOS	PC74HC85T	MULB	*	SO	217- 31
195	74-85	CMOS	PC74HC85T	PHIN	*	SO	217- 31
196	74-85	CMOS	PC74HC85T	RTCF	*	SO	217- 31
197	74-85	CMOS	PC74HC85T	VALG	*	SO	217- 31
198♦	74-85	CMOS	UPD74HC85C(A)	NECJ		DIP	216- 71
199	74-85	CMOS	74HCT85D	SIC	*	SO	217- 20
200♦	74-85	CMOS	74HCT85N	SIC		DIP	217- 21
201	74-85	CMOS	74HC85D	SIC	*	SO	216-107
202♦	74-85	CMOS	74HC85N	SIC		DIP	216-108
203▼	74-85	TTL	N74F85D(A)	MULB	*	SO	216- 59
204▼	74-85	TTL	N74F85D(A)	PHIN	*	SO	216- 59
205▼	74-85	TTL	N74F85D(A)	RTCF	*	SO	216- 59
206▼	74-85	TTL	N74F85D(A)	SIC	*	SO	216- 59
207▼	74-85	TTL	N74F85D(A)	VALG	*	SO	216- 59
208♦	74-85	TTL	N74F85N(A)	MULB		DIP	216- 60
209♦	74-85	TTL	N74F85N(A)	PHIN		DIP	216- 60
210♦	74-85	TTL	N74F85N(A)	RTCF		DIP	216- 60
211♦	74-85	TTL	N74F85N(A)	SIC		DIP	216- 60
212♦	74-85	TTL	N74F85N(A)	VALG		DIP	216- 60
213♦	74-85	TTL	SN54LS85J	MOTA		DIP	217- 14
214♦	74-85	TTL	SN54LS85J	TII		DIP	217- 14
215▼	74-85	TTL	SN54LS85N	MOTA		DIP	217- 15
216	74-85	TTL	SN74LS85D	TII	*	SO	217- 16
217♦	74-85	TTL	SN74LS85J	MOTA		DIP	217- 17
218	74-85	TTL	SN74S85D	TII	*	SO	216- 67
219♦	74-85	TTL	54F85DM(A)	FSC		DIP	216- 52
220♦	74-85	TTL	74F85DC(A)	FSC		DIP	216- 54

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-85	TTL	74F85PC(A)	FSC		DIP	216- 56
2▼	74-85N	CMOS	HD74HC85FP	HITJ	*	SO	216- 69
3▼	74-85N	CMOS	HD74HC85P	HITJ		DIP	216- 70
4♦	74-85N	CMOS	MC54HC85J(A)	MOTA		DIP	216- 75
5♦	74-85N	CMOS	MC74HC85J(A)	MOTA		DIP	216- 76
6♦	74-85N	CMOS	MC74HC85N(A)	MOTA		DIP	216- 77
7♦	74-85N	CMOS	MM54HC85J	NSC		DIP	217- 28
8♦	74-85N	CMOS	MM74HC85J	NSC		DIP	217- 6
9♦	74-85N	CMOS	MM74HC85N	NSC		DIP	217- 7
10♦	74-85N	CMOS	SN74HC85N(A)	TII		DIP	217- 37
11▼	74-85N	CMOS	TC74HC85F(A)	TOSA	*	SO	217- 38
12▼	74-85N	CMOS	TC74HC85P(A)	TOSA		DIP	217- 39
13♦	74-85N	TTL	DM74LS85N	NSC		DIP	216- 74
14♦	74-85N	TTL	DM7485N	NSC		DIP	216- 81
15▼	74-85N	TTL	HD74LS85G	HITJ		DIP	217- 2
16♦	74-85N	TTL	HD74LS85P	HITJ		DIP	216- 61
17♦	74-85N	TTL	MB74LS85	FCAJ		DIP	217- 4
18♦	74-85N	TTL	MB74LS85M	FCAJ		DIP	217- 5
19♦	74-85N	TTL	M53285P	MITJ		DIP	216- 82
20♦	74-85N	TTL	M74LS85P	MITA		DIP	217- 3
21♦	74-85N	TTL	M74LS85P	MITJ		DIP	217- 3
22	74-85N	TTL	N74LS85D	MULB	*	SO	217- 8
23	74-85N	TTL	N74LS85D	PHIN	*	SO	217- 8
24	74-85N	TTL	N74LS85D	RTCF	*	SO	217- 8
25	74-85N	TTL	N74LS85D	SIC	*	SO	217- 8
26	74-85N	TTL	N74LS85D	VALG	*	SO	217- 8
27♦	74-85N	TTL	N74LS85F	MULB		DIP	217- 9
28♦	74-85N	TTL	N74LS85F	PHIN		DIP	217- 9
29♦	74-85N	TTL	N74LS85F	RTCF		DIP	217- 9
30♦	74-85N	TTL	N74LS85F	VALG		DIP	217- 9
31♦	74-85N	TTL	N74LS85N	MULB		DIP	217- 10
32♦	74-85N	TTL	N74LS85N	PHIN		DIP	217- 10
33♦	74-85N	TTL	N74LS85N	RTCF		DIP	217- 10
34♦	74-85N	TTL	N74LS85N	SIC		DIP	217- 10
35♦	74-85N	TTL	N74LS85N	VALG		DIP	217- 10
36	74-85N	TTL	N74S85D	MULB	*	SO	216- 62
37	74-85N	TTL	N74S85D	PHIN	*	SO	216- 62
38	74-85N	TTL	N74S85D	RTCF	*	SO	216- 62
39	74-85N	TTL	N74S85D	SIC	*	SO	216- 62
40	74-85N	TTL	N74S85D	VALG	*	SO	216- 62
41♦	74-85N	TTL	N74S85N	MULB		DIP	216- 63
42♦	74-85N	TTL	N74S85N	PHIN		DIP	216- 63
43♦	74-85N	TTL	N74S85N	RTCF		DIP	216- 63
44♦	74-85N	TTL	N74S85N	SIC		DIP	216- 63
45♦	74-85N	TTL	N74S85N	VALG		DIP	216- 63
46♦	74-85N	TTL	N7485F	MULB		DIP	216- 83
47♦	74-85N	TTL	N7485F	PHIN		DIP	216- 83
48♦	74-85N	TTL	N7485F	RTCF		DIP	216- 83
49♦	74-85N	TTL	N7485F	VALG		DIP	216- 83
50♦	74-85N	TTL	N7485N	MULB		DIP	216- 84
51♦	74-85N	TTL	N7485N	PHIN		DIP	216- 84
52♦	74-85N	TTL	N7485N	RTCF		DIP	216- 84
53♦	74-85N	TTL	N7485N	SIC		DIP	216- 84
54♦	74-85N	TTL	N7485N	VALG		DIP	216- 84
55♦	74-85N	TTL	SFC485E	THEF		DIP	216- 87
56♦	74-85N	TTL	SFC485EM	THEF		DIP	216- 88
57♦	74-85N	TTL	SFC485ET	THEF		DIP	216- 89
58♦	74-85N	TTL	SFC485JM	THEF		DIP	216- 90
59♦	74-85N	TTL	SFC485KM	THEF		DIP	216- 91
60♦	74-85N	TTL	SN54S85J	TII		DIP	216- 66
61♦	74-85N	TTL	SN5485J	TII		DIP	216- 92
62♦	74-85N	TTL	SN74LS85N	MOTA		DIP	217- 18
63♦	74-85N	TTL	SN74LS85N	TII		DIP	217- 18
64♦	74-85N	TTL	SN74S85N	TII		DIP	216- 68
65♦	74-85N	TTL	SN7485N	TII		DIP	216- 93
66♦	74-85N	TTL	S54LS85F	MULB		DIP	217- 11
67♦	74-85N	TTL	S54LS85F	PHIN		DIP	217- 11
68♦	74-85N	TTL	S54LS85F	RTCF		DIP	217- 11
69♦	74-85N	TTL	S54LS85F	SIC		DIP	217- 11
70♦	74-85N	TTL	S54LS85F	VALG		DIP	217- 11
71♦	74-85N	TTL	S54S85F	MULB		DIP	216- 64
72♦	74-85N	TTL	S54S85F	PHIN		DIP	216- 64
73♦	74-85N	TTL	S54S85F	RTCF		DIP	216- 64
74♦	74-85N	TTL	S54S85F	SIC		DIP	216- 64
75♦	74-85N	TTL	S54S85F	VALG		DIP	216- 64
76♦	74-85N	TTL	S5485F	MULB		DIP	216- 85
77♦	74-85N	TTL	S5485F	PHIN		DIP	216- 85
78♦	74-85N	TTL	S5485F	RTCF		DIP	216- 85
79♦	74-85N	TTL	S5485F	SIC		DIP	216- 85
80♦	74-85N	TTL	S5485F	VALG		DIP	216- 85
81♦	74-85N	TTL	54LS85DM	FSC		DIP	216- 94
82♦	74-85N	TTL	5485DM	FSC		DIP	216- 78
83♦	74-85N	TTL	74LS85DC	FSC		DIP	216- 96
84♦	74-85N	TTL	74LS85PC	FSC		DIP	216- 97
85♦	74L85	CMOS	M54HC85F1(A)	SGSI		DIP	217- 19
86♦	74L85	CMOS	M74HC85B1(A)	SGSI		DIP	217- 34
87♦	74L85	CMOS	M74HC85F1(A)	SGSI		DIP	217- 36
88♦	74L85N	CMOS	340085DC	FSC		DIP	217- 22
89♦	74L85N	CMOS	340085DM	FSC		DIP	217- 23
90	74L85N	CMOS	340085PC	FSC			217- 26
91♦	74L85N	TTL	DM54LS85J	NSC		DIP	216-109
92♦	74L85N	TTL	DM54L85J	NSC		DIP	217- 53
93♦	74L85N	TTL	DM74L85N	NSC		DIP	217- 55
94♦	74L85N	TTL	MB448	FCAJ		DIP	216- 48
95♦	74L85N	TTL	MB448M	FCAJ		DIP	216- 49
96♦	74-86	CMOS	CD54HCT86F	RCA		DIP	91- 63
97♦	74-86	CMOS	CD54HC86F	RCA		DIP	91- 62
98♦	74-86	CMOS	CD74HCT86E	RCA		DIP	91- 65
99♦	74-86	CMOS	CD74HC86E	RCA		DIP	91- 64
100♦	74-86	CMOS	M54HC86F1(A)	SGSI		DIP	92- 14
101♦	74-86	CMOS	M74HC86B1(A)	SGSI		DIP	92- 15
102♦	74-86	CMOS	M74HC86F1(A)	SGSI		DIP	92- 16
103♦	74-86	CMOS	M74HC86P	MITJ		DIP	92- 17
104♦	74-86	CMOS	PC54HCT86D(A)	MULB		DIP	92- 67
105♦	74-86	CMOS	PC54HCT86D(A)	PHIN		DIP	92- 67
106♦	74-86	CMOS	PC54HCT86D(A)	RTCF		DIP	92- 67
107♦	74-86	CMOS	PC54HCT86D(A)	VALG		DIP	92- 67
108♦	74-86	CMOS	PC54HC86D(A)	MULB		DIP	92- 66
109♦	74-86	CMOS	PC54HC86D(A)	PHIN		DIP	92- 66
110♦	74-86	CMOS	PC54HC86D(A)	RTCF		DIP	92- 66
111♦	74-86	CMOS	PC54HC86D(A)	VALG		DIP	92- 66
112♦	74-86	CMOS	PC74HCT86D(A)	PHIN		DIP	92- 69
113♦	74-86	CMOS	PC74HCT86D(A)	RTCF		DIP	92- 69
114♦	74-86	CMOS	PC74HCT86D(A)	VALG		DIP	92- 69
115♦	74-86	CMOS	PC74HCT86P	PHIN		DIP	94- 20
116♦	74-86	CMOS	PC74HCT86P	RTCF		DIP	94- 20
117♦	74-86	CMOS	PC74HCT86P	VALG		DIP	94- 20
118♦	74-86	CMOS	PC74HCT86T	PHIN	*	SO	94- 21
119♦	74-86	CMOS	PC74HCT86T	RTCF	*	SO	94- 21
120♦	74-86	CMOS	PC74HCT86T	VALG	*	SO	94- 21
121♦	74-86	CMOS	PC74HC86D(A)	MULB		DIP	92- 68
122♦	74-86	CMOS	PC74HC86D(A)	PHIN		DIP	92- 68
123♦	74-86	CMOS	PC74HC86D(A)	RTCF		DIP	92- 68
124♦	74-86	CMOS	PC74HC86D(A)	VALG		DIP	92- 68
125♦	74-86	CMOS	PC74HC86P	MULB		DIP	93- 60
126♦	74-86	CMOS	PC74HC86P	PHIN		DIP	93- 60
127♦	74-86	CMOS	PC74HC86P	RTCF		DIP	93- 60
128♦	74-86	CMOS	PC74HC86P	VALG		DIP	93- 60
129♦	74-86	CMOS	PC74HC86T	MULB	*	SO	93- 61
130♦	74-86	CMOS	PC74HC86T	PHIN	*	SO	93- 61
131♦	74-86	CMOS	PC74HC86T	RTCF	*	SO	93- 61
132♦	74-86	CMOS	PC74HC86T	VALG	*	SO	93- 61
133♦	74-86	TTL	DM54ALS86J	NSC		DIP	91- 83
134♦	74-86	TTL	DM54AS86J(A)	NSC		DIP	91- 85
135♦	74-86	TTL	DM54LS86J	NSC		DIP	91- 88
136♦	74-86	TTL	DM74ALS86J	NSC		DIP	91- 90
137♦	74-86	TTL	DM74ALS86N	NSC		DIP	91- 91
138♦	74-86	TTL	DM74AS86J(A)	NSC		DIP	91- 93
139♦	74-86	TTL	DM74AS86N(A)	NSC		DIP	91- 94
140♦	74-86	TTL	DM74LS386N	NSC		DIP	93- 64
141♦	74-86	TTL	DM74LS86N	NSC		DIP	91- 98
142♦	74-86	TTL	DN74LS86P1	MATJ		DIP	91-100
143♦	74-86	TTL	DN74LS86P4	MATJ	*	SO	91-101
144♦	74-86	TTL	N74F86N	MULB		DIP	93- 19
145♦	74-86	TTL	N74F86N	PHIN		DIP	93- 19
146♦	74-86	TTL	N74F86N	RTCF		DIP	93- 19
147♦	74-86	TTL	N74F86N	SIC		DIP	93- 19
148♦	74-86	TTL	N74F86N	VALG		DIP	93- 19
149♦	74-86	TTL	SN54LS86AJ	TII	*	SO	92- 77
150♦	74-86	TTL	SN74LS86AD	TII	*	SO	92- 81
151♦	74-86	TTL	SN74LS86AN	TII		DIP	92- 82
152♦	74-86	TTL	SN74S86D	TII	*	SO	92- 88
153♦	74-86	TTL	54F86DM	FSC		DIP	91- 41
154♦	74-86	TTL	74F86DC	FSC		DIP	91- 44
155♦	74-86	TTL	74F86PC	FSC		DIP	91- 45
156▼	74-86N	CMOS	HD74HC86FP	HITJ	*	SO	93- 34
157▼	74-86N	CMOS	HD74HC86P	HITJ		DIP	93- 35
158▼	74-86N	CMOS	TC74HC86F(A)	TOSA	*	SO	94- 5
159▼	74-86N	CMOS	TC74HC86P(A)	TOSA		DIP	94- 6
160♦	74-86N	DTL	MC1812L,P	MOTA		DIP	94- 16
161♦	74-86N	DTL	MC1912L	MOTA		DIP	94- 18
162♦	74-86N	TTL	DM5486J	NSC		DIP	93- 80
163♦	74-86N	TTL	DM74S86N	NSC		DIP	93- 24
164♦	74-86N	TTL	DM7486N	NSC		DIP	93- 82
165▼	74-86N	TTL	HD74LS86G	HITJ		DIP	93- 85
166♦	74-86N	TTL	HD74LS86P	HITJ		DIP	93- 86
167♦	74-86N	TTL	MB449	FCAJ		DIP	92- 25
168♦	74-86N	TTL	MB449M	FCAJ		DIP	92- 26
169♦	74-86N	TTL	MB74LS86	FCAJ		DIP	93- 92
170♦	74-86N	TTL	MB74LS86M	FCAJ		DIP	93- 93
171▼	74-86N	TTL	MC3021L	MOTA		DIP	93- 42
172▼	74-86N	TTL	MC3021P	MOTA		DIP	93- 43
173♦	74-86N	TTL	MC3121L	MOTA		DIP	93- 45
174♦	74-86N	TTL	MC54F86J	MOTA		DIP	93- 12
175▼	74-86N	TTL	MC54F86N	MOTA		DIP	93- 13
176♦	74-86N	TTL	MC74F86J	MOTA		DIP	93- 14
177♦	74-86N	TTL	MC74F86N	MOTA		DIP	93- 15
178♦	74-86N	TTL	M53286P	MITJ		DIP	93- 41
179♦	74-86N	TTL	M74LS86P	MITA		DIP	93- 91
180♦	74-86N	TTL	M74LS86P	MITJ		DIP	93- 91
181♦	74-86N	TTL	N74F86D	MULB	*	SO	93- 11
182♦	74-86N	TTL	N74F86D	PHIN	*	SO	93- 11
183♦	74-86N	TTL	N74F86D	RTCF	*	SO	93- 11
184♦	74-86N	TTL	N74F86D	SIC	*	SO	93- 11
185♦	74-86N	TTL	N74F86D	VALG	*	SO	93- 11
186♦	74-86N	TTL	N74F86F	VALG		DIP	93- 10
187♦	74-86N	TTL	N74LS86D	MULB	*	SO	93- 94
188♦	74-86N	TTL	N74LS86D	PHIN	*	SO	93- 94
189♦	74-86N	TTL	N74LS86D	RTCF	*	SO	93- 94
190♦	74-86N	TTL	N74LS86D	SIC	*	SO	93- 94
191♦	74-86N	TTL	N74LS86D	VALG	*	SO	93- 94
192♦	74-86N	TTL	N74LS86F	MULB		DIP	93- 95
193♦	74-86N	TTL	N74LS86F	PHIN		DIP	93- 95
194♦	74-86N	TTL	N74LS86F	RTCF		DIP	93- 95
195♦	74-86N	TTL	N74LS86F	VALG		DIP	93- 95
196♦	74-86N	TTL	N74LS86N	MULB		DIP	93- 96
197♦	74-86N	TTL	N74LS86N	PHIN		DIP	93- 96
198♦	74-86N	TTL	N74LS86N	RTCF		DIP	93- 96
199♦	74-86N	TTL	N74LS86N	SIC		DIP	93- 96
200♦	74-86N	TTL	N74LS86N	VALG		DIP	93- 96
201♦	74-86N	TTL	N74S86D	MULB	*	SO	93- 25
202♦	74-86N	TTL	N74S86D	PHIN	*	SO	93- 25
203♦	74-86N	TTL	N74S86D	RTCF	*	SO	93- 25
204♦	74-86N	TTL	N74S86D	SIC	*	SO	93- 25
205♦	74-86N	TTL	N74S86D	VALG	*	SO	93- 25
206♦	74-86N	TTL	N74S86N	MULB		DIP	93- 26
207♦	74-86N	TTL	N74S86N	PHIN		DIP	93- 26
208♦	74-86N	TTL	N74S86N	RTCF		DIP	93- 26
209♦	74-86N	TTL	N74S86N	SIC		DIP	93- 26
210♦	74-86N	TTL	N74S86N	VALG		DIP	93- 26
211♦	74-86N	TTL	N7486F	MULB		DIP	93- 97
212♦	74-86N	TTL	N7486F	PHIN		DIP	93- 97
213♦	74-86N	TTL	N7486F	RTCF		DIP	93- 97
214♦	74-86N	TTL	N7486F	VALG		DIP	93- 97
215♦	74-86N	TTL	N7486N	MULB		DIP	93- 98
216♦	74-86N	TTL	N7486N	PHIN		DIP	93- 98
217♦	74-86N	TTL	N7486N	RTCF		DIP	93- 98
218♦	74-86N	TTL	N7486N	SIC		DIP	93- 98
219♦	74-86N	TTL	N7486N	VALG		DIP	93- 98
220♦	74-86N	TTL	SFC486E	THEF		DIP	93- 48

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-86N	TTL	SFC486EM	THEF		DIP	93- 49
2♦	74-86N	TTL	SFC486ET	THEF		DIP	93- 50
3♦	74-86N	TTL	SN54LS86J	MOTA		DIP	93-108
4♦	74-86N	TTL	SN54S86J	TII		DIP	93- 31
5♦	74-86N	TTL	SN5486J	TII		DIP	94- 3
6▼	74-86N	TTL	SN74ALS86D	TII		DIP	93- 55
7♦	74-86N	TTL	SN74ALS86N	TII		DIP	93- 56
8♦	74-86N	TTL	SN74LS86J	MOTA		DIP	93-110
9♦	74-86N	TTL	SN74LS86N	MOTA		DIP	94- 1
10♦	74-86N	TTL	SN74S86N	TII		DIP	93- 32
11♦	74-86N	TTL	SN7486N	TII		DIP	94- 4
12♦	74-86N	TTL	S54F86F	MULB		DIP	93- 22
13♦	74-86N	TTL	S54F86F	PHIN		DIP	93- 22
14♦	74-86N	TTL	S54F86F	RTCF		DIP	93- 22
15♦	74-86N	TTL	S54F86F	SIC		DIP	93- 22
16♦	74-86N	TTL	S54F86F	VALG		DIP	93- 22
17♦	74-86N	TTL	S54LS86F	MULB		DIP	93- 99
18♦	74-86N	TTL	S54LS86F	PHIN		DIP	93- 99
19♦	74-86N	TTL	S54LS86F	RTCF		DIP	93- 99
20♦	74-86N	TTL	S54LS86F	SIC		DIP	93- 99
21♦	74-86N	TTL	S54LS86F	VALG		DIP	93- 99
22♦	74-86N	TTL	S54S86F	MULB		DIP	93- 29
23♦	74-86N	TTL	S54S86F	PHIN		DIP	93- 29
24♦	74-86N	TTL	S54S86F	RTCF		DIP	93- 29
25♦	74-86N	TTL	S54S86F	SIC		DIP	93- 29
26♦	74-86N	TTL	S54S86F	VALG		DIP	93- 29
27♦	74-86N	TTL	S5486F	MULB		DIP	93-104
28♦	74-86N	TTL	S5486F	PHIN		DIP	93-104
29♦	74-86N	TTL	S5486F	RTCF		DIP	93-104
30♦	74-86N	TTL	S5486F	SIC		DIP	93-104
31♦	74-86N	TTL	S5486F	VALG		DIP	93-104
32♦	74-86N	TTL	T54LS86D2	SGSI		DIP	93- 57
33♦	74-86N	TTL	T74LS86B1	SGSI		DIP	93- 58
34♦	74-86N	TTL	T74LS86D1	SGSI		DIP	93- 59
35♦	74-86N	TTL	54S86DM	FSC		DIP	93- 71
36♦	74-86N	TTL	5486DM	FSC		DIP	93- 75
37♦	74-86N	TTL	74LS86DC	FSC		DIP	93- 53
38♦	74-86N	TTL	74LS86PC	FSC		DIP	93- 54
39♦	74-86N	TTL	74S86DC	FSC		DIP	93- 73
40♦	74-86N	TTL	74S86PC	FSC		DIP	93- 74
41♦	74-86N	TTL	7486DC	FSC		DIP	93- 77
42♦	74-86N	TTL	7486PC	FSC		DIP	93- 78
43♦	74HC86	CMOS	UPD74HC86C(A)	NECJ		DIP	93- 20
44♦	74L86	CMOS	HEF4030BD	MULB		DIP	94- 31
45♦	74L86	CMOS	HEF4030BD	PHIN		DIP	94- 31
46♦	74L86	CMOS	HEF4030BD	RTCF		DIP	94- 31
47♦	74L86	CMOS	HEF4030BD	VALG		DIP	94- 31
48♦	74L86	CMOS	HEF4030BP	MULB		DIP	94- 32
49♦	74L86	CMOS	HEF4030BP	PHIN		DIP	94- 32
50♦	74L86	CMOS	HEF4030BP	RTCF		DIP	94- 32
51♦	74L86	CMOS	HEF4030BP	VALG		DIP	94- 32
52♦	74L86	CMOS	HEF4030BT	MULB	*	SO	94- 33
53♦	74L86	CMOS	HEF4030BT	PHIN	*	SO	94- 33
54♦	74L86	CMOS	HEF4030BT	RTCF	*	SO	94- 33
55♦	74L86	CMOS	HEF4030BT	VALG	*	SO	94- 33
56♦	74L86	CMOS	M54HC386F1(A)	SGSI		DIP	93- 70
57♦	74L86	CMOS	M74HC386B1(A)	SGSI		DIP	94- 10
58♦	74L86	CMOS	M74HC386F1(A)	SGSI		DIP	94- 12
59♦	74L86	CMOS	74HCT86D	SIC	*	FP	94- 13
60♦	74L86	CMOS	74HCT86N	SIC		DIP	94- 14
61♦	74L86	CMOS	74HC86D	SIC	*	FP	93- 46
62♦	74L86	CMOS	74HC86N	SIC		DIP	93- 47
63♦	74L86	MOS	K176LP2	USSR			91- 3
64♦	74L86	TTL	DN74LS386P1	MATJ		DIP	93- 83
65♦	74L86	TTL	DN74LS386P4	MATJ	*	SO	93- 84
66♦	74L86	TTL	SN54LS386AJ	TII		DIP	93-109
67♦	74L86	TTL	SN74LS386AN	TII		DIP	94- 2
68♦	74L86N	CMOS	BCL4030B	SSS		DIP	91- 56
69♦	74L86N	CMOS	BCL4070B	SSS		DIP	91- 57
70▼	74L86N	CMOS	BU4030B	RHM		DIP	91- 58
71▼	74L86N	CMOS	BU4030BF	RHM	*	SO	91- 59
72▼	74L86N	CMOS	BU4070B	RHM		DIP	91- 60
73▼	74L86N	CMOS	BU4070BF	RHM	*	SO	91- 61
74♦	74L86N	CMOS	CD4030AD	RCA		DIP	91- 66
75♦	74L86N	CMOS	CD4030AE	BELI		DIP	91- 67
76♦	74L86N	CMOS	CD4030AE	RCA		DIP	91- 67
77♦	74L86N	CMOS	CD4030AF	BELI		DIP	91- 68
78♦	74L86N	CMOS	CD4030AF	RCA		DIP	91- 68
79♦	74L86N	CMOS	CD4030BD	RCA		DIP	91- 69
80♦	74L86N	CMOS	CD4030BE	BELI		DIP	91- 70
81♦	74L86N	CMOS	CD4030BE	RCA		DIP	91- 70
82♦	74L86N	CMOS	CD4030BF	BELI		DIP	91- 71
83♦	74L86N	CMOS	CD4030BF	RCA		DIP	91- 71
84♦	74L86N	CMOS	CD4030CJ	NSC		DIP	91- 72
85♦	74L86N	CMOS	CD4030CN	NSC		DIP	91- 73
86♦	74L86N	CMOS	CD4030MJ	NSC		DIP	91- 74
87♦	74L86N	CMOS	CD4070BCJ	NSC		DIP	91- 75
88♦	74L86N	CMOS	CD4070BCN	NSC		DIP	91- 76
89♦	74L86N	CMOS	CD4070BD	RCA		DIP	91- 77
90♦	74L86N	CMOS	CD4070BE	RCA		DIP	91- 78
91♦	74L86N	CMOS	CD4070BF	RCA		DIP	91- 79
92♦	74L86N	CMOS	CD4070BMJ	NSC		DIP	91- 80
93♦	74L86N	CMOS	CM4030AD	SOD		DIP	91- 81
94♦	74L86N	CMOS	CM4030AE	SOD		DIP	91- 82
95♦	74L86N	CMOS	HBC4030AD	SGSI		DIP	91-104
96♦	74L86N	CMOS	HBC4030AF	SGSI		DIP	91-105
97♦	74L86N	CMOS	HBF4030AE	SGSI		DIP	91-106
98♦	74L86N	CMOS	HBF4030AF	SGSI		DIP	91-107
99♦	74L86N	CMOS	HCC4030BD	SGSI		DIP	91-108
100♦	74L86N	CMOS	HCC4030BF	SGSI		DIP	91-109
101♦	74L86N	CMOS	HCC4070BD	SGSI		DIP	91-110
102♦	74L86N	CMOS	HCC4070BF	SGSI		DIP	92- 1
103♦	74L86N	CMOS	HCF4030BE	SGSI		DIP	92- 2
104♦	74L86N	CMOS	HCF4030BF	SGSI		DIP	92- 3
105♦	74L86N	CMOS	HCF4070BE	SGSI		DIP	92- 4
106♦	74L86N	CMOS	HCF4070BF	SGSI		DIP	92- 5
107▼	74L86N	CMOS	HD74HC386FP	HITJ	*	SO	93- 36
108▼	74L86N	CMOS	HD74HC386P	HITJ		DIP	93- 33
109♦	74L86N	CMOS	HEF4030	RTCF		DIP	92- 6
110♦	74L86N	CMOS	HEF4030BTD	SIC	*	SO	92- 7
111♦	74L86N	CMOS	HEF4030P	MULB		DIP	92- 8
112♦	74L86N	CMOS	HEF4030P	PHIN		DIP	92- 8
113♦	74L86N	CMOS	HEF4030P	VALG		DIP	92- 8
114♦	74L86N	CMOS	HEF4070	RTCF		DIP	92- 9
115♦	74L86N	CMOS	HEF4070BD	MULB		DIP	94- 34
116♦	74L86N	CMOS	HEF4070BD	PHIN		DIP	94- 34
117♦	74L86N	CMOS	HEF4070BD	RTCF		DIP	94- 34
118♦	74L86N	CMOS	HEF4070BD	VALG		DIP	94- 34
119♦	74L86N	CMOS	HEF4070BP	MULB		DIP	94- 35
120♦	74L86N	CMOS	HEF4070BP	PHIN		DIP	94- 35
121♦	74L86N	CMOS	HEF4070BP	RTCF		DIP	94- 35
122♦	74L86N	CMOS	HEF4070BP	VALG		DIP	94- 35
123♦	74L86N	CMOS	HEF4070BPN	SIC		DIP	92- 10
124♦	74L86N	CMOS	HEF4070BT	MULB	*	SO	94- 36
125♦	74L86N	CMOS	HEF4070BT	PHIN	*	SO	94- 36
126♦	74L86N	CMOS	HEF4070BT	RTCF	*	SO	94- 36
127♦	74L86N	CMOS	HEF4070BT	VALG	*	SO	94- 36
128♦	74L86N	CMOS	HEF4070BTD	SIC	*	SO	92- 11
129♦	74L86N	CMOS	HEF4070P	MULB		DIP	92- 12
130♦	74L86N	CMOS	HEF4070P	PHIN		DIP	92- 12
131♦	74L86N	CMOS	HEF4070P	VALG		DIP	92- 12
132♦	74L86N	CMOS	LC4070B	TSAJ		DIP	92- 13
133♦	74L86N	CMOS	MB84070B	FCAJ		DIP	92- 27
134♦	74L86N	CMOS	MB84070BM	FCAJ		DIP	92- 28
135♦	74L86N	CMOS	MC14070BAL	MOTA		DIP	92- 32
136▼	74L86N	CMOS	MC14070BALD	MOTA		DIP	92- 33
137▼	74L86N	CMOS	MC14070BALDS	MOTA		DIP	92- 34
138▼	74L86N	CMOS	MC14070BALS	MOTA		DIP	92- 35
139♦	74L86N	CMOS	MC14070BCL	MOTA		DIP	92- 36
140▼	74L86N	CMOS	MC14070BCLD	MOTA		DIP	92- 37
141▼	74L86N	CMOS	MC14070BCLDS	MOTA		DIP	92- 38
142▼	74L86N	CMOS	MC14070BCLS	MOTA		DIP	92- 39
143♦	74L86N	CMOS	MC14070BCP	MOTA		DIP	92- 40
144▼	74L86N	CMOS	MC14070BCPD	MOTA		DIP	92- 41
145▼	74L86N	CMOS	MC14070BCPDS	MOTA		DIP	92- 42
146▼	74L86N	CMOS	MC14070BCPS	MOTA		DIP	92- 43
147▼	74L86N	CMOS	MC14070BD	MOTA		DIP	92- 44
148♦	74L86N	CMOS	MC54HC86J	MOTA		DIP	92- 29
149♦	74L86N	CMOS	MC74HC86J	MOTA		DIP	92- 30
150♦	74L86N	CMOS	MC74HC86N	MOTA		DIP	92- 31
151♦	74L86N	CMOS	MM4630AD	NSC		DIP	92- 50
152♦	74L86N	CMOS	MM54C86D	NSC		DIP	92- 45
153♦	74L86N	CMOS	MM54HC86J	NSC		DIP	92- 46
154♦	74L86N	CMOS	MM5630AN	NSC		DIP	92- 51
155♦	74L86N	CMOS	MM74C86N	NSC		DIP	92- 47
156♦	74L86N	CMOS	MM74HC86J	NSC		DIP	92- 48
157♦	74L86N	CMOS	MM74HC86N	NSC		DIP	92- 49
158♦	74L86N	CMOS	MN4030B	MATJ		DIP	92- 52
159♦	74L86N	CMOS	MN4070B	MATJ		DIP	92- 53
160♦	74L86N	CMOS	MSM4030	OKIJ		DIP	92- 56
161♦	74L86N	CMOS	MSM4030RS	OKIJ		DIP	92- 57
162♦	74L86N	CMOS	MSM581	OKIJ		DIP	92- 54
163♦	74L86N	CMOS	MSM581RS	OKIJ		DIP	92- 55
164♦	74L86N	CMOS	M4030BP	MITJ		DIP	92- 20
165♦	74L86N	CMOS	SCL4030B	SSS		DIP	92- 73
166♦	74L86N	CMOS	SCL4070B	SSS		DIP	92- 74
167♦	74L86N	CMOS	SFF24030AEV	THEF		DIP	92- 75
168♦	74L86N	CMOS	SFF24030AKM	THEF		DIP	92- 76
169♦	74L86N	CMOS	SN54HC386J	TII		DIP	93-107
170♦	74L86N	CMOS	SN54HC86J	TII		DIP	93-106
171▼	74L86N	CMOS	SN74HC386D	TII	*	SO	93- 68
172♦	74L86N	CMOS	SN74HC386N	TII		DIP	93- 69
173▼	74L86N	CMOS	SN74HC86D	TII	*	SO	93- 66
174♦	74L86N	CMOS	SN74HC86N	TII		DIP	93- 67
175♦	74L86N	CMOS	TC40H386F	TOSJ	*	SO	92- 94
176♦	74L86N	CMOS	TC40H386P	IMTM		DIP	92- 95
177♦	74L86N	CMOS	TC40H386P	TOSJ		DIP	92- 95
178♦	74L86N	CMOS	TC4030BP	IMTM		DIP	92- 96
179♦	74L86N	CMOS	TC4030BP	TOSJ		DIP	92- 96
180▼	74L86N	CMOS	TC74HC386F(A)	TOSA	*	SO	94- 7
181▼	74L86N	CMOS	TC74HC386P(A)	TOSA		DIP	94- 8
182♦	74L86N	CMOS	US74HCT86N(A)	UNV		DIP	92- 97
183♦	74L86N	CMOS	4030BDC	FSC		DIP	91- 50
184♦	74L86N	CMOS	4030BDM	FSC		DIP	91- 51
185♦	74L86N	CMOS	4030BPC	FSC		DIP	91- 52
186♦	74L86N	CMOS	4070BDC	FSC		DIP	91- 53
187♦	74L86N	CMOS	4070BDM	FSC		DIP	91- 54
188♦	74L86N	CMOS	4070BPC	FSC		DIP	91- 55
189♦	74L86N	CMOS	883C4030B	SSS		DIP	91- 48
190♦	74L86N	CMOS	883C4070B	SSS		DIP	91- 49
191♦	74L86N	TTL	DM54L86J	NSC		DIP	91- 87
192♦	74L86N	TTL	DM74L86N	NSC		DIP	91- 97
193▼	74L86N	TTL	HD74LS386G	HITJ		DIP	93- 89
194♦	74L86N	TTL	HD74LS386P	HITJ		DIP	93- 90
195♦	74L86N	TTL	MB74LS386	FCAJ		DIP	92- 23
196♦	74L86N	TTL	MB74LS386M	FCAJ		DIP	92- 24
197♦	74L86N	TTL	M74LS386P	MITA		DIP	92- 19
198♦	74L86N	TTL	M74LS386P	MITJ		DIP	92- 19
199♦	74L86N	TTL	N74LS386F	MULB		DIP	92- 60
200♦	74L86N	TTL	N74LS386F	PHIN		DIP	92- 60
201♦	74L86N	TTL	N74LS386N	MULB		DIP	92- 61
202♦	74L86N	TTL	N74LS386N	PHIN		DIP	92- 61
203♦	74L86N	TTL	N82S41F	MULB		DIP	92- 62
204♦	74L86N	TTL	N82S41F	PHIN		DIP	92- 62
205♦	74L86N	TTL	N82S41F	VALG		DIP	92- 62
206♦	74L86N	TTL	N82S41N	MULB		DIP	92- 63
207♦	74L86N	TTL	N82S41N	PHIN		DIP	92- 63
208♦	74L86N	TTL	N82S41N	VALG		DIP	92- 63
209♦	74L86N	TTL	N8241F	MULB		DIP	92- 64
210♦	74L86N	TTL	N8241F	PHIN		DIP	92- 64
211♦	74L86N	TTL	N8241F	VALG		DIP	92- 64
212♦	74L86N	TTL	N8241N	MULB		DIP	92- 65
213♦	74L86N	TTL	N8241N	PHIN		DIP	92- 65
214♦	74L86N	TTL	N8241N	VALG		DIP	92- 65
215♦	74L86N	TTL	SN54LS386J	MOTA		DIP	92- 79
216▼	74L86N	TTL	SN54LS386N	MOTA		DIP	92- 80
217♦	74L86N	TTL	SN74LS386J	MOTA		DIP	92- 86
218♦	74L86N	TTL	SN74LS386N	MOTA		DIP	92- 87
219♦	74L86N	TTL	S54LS386F	MULB		DIP	92- 71
220♦	74L86N	TTL	S54LS386F	PHIN		DIP	92- 71

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74L86N	TTL	S8241F	MULB		DIP	92- 72
2♦	74L86N	TTL	S8241F	PHIN		DIP	92- 72
3♦	74L86N	TTL	S8241F	VALG		DIP	92- 72
4♦	74L86N	TTL	54LS386DM	FSC		DIP	91- 43
5♦	74H87N	MON	54H87DM	FSC		DIP	245- 75
6♦	74H87N	MON	74H87DC	FSC		DIP	245- 77
7♦	74H87N	MON	74H87PC	FSC		DIP	245- 78
8▼	74H89P	TTL	MC3022L	MOTA		DIP	90- 63
9▼	74H89P	TTL	MC3022P	MOTA		DIP	90- 64
10♦	74H89P	TTL	MC3122L	MOTA		DIP	90- 66
11♦	74-90	TTL	DM54LS90J	NSC		DIP	175- 80
12♦	74-90	TTL	DM74LS90N	NSC		DIP	175- 84
13♦	74-90	TTL	DN74LS90P1	MATJ		DIP	175- 86
14♦	74-90	TTL	DN74LS90P4	MATJ	*	SO	175- 87
15♦	74-90	TTL	SN74LS90D	TII	*	SO	175- 96
16♦	74-90	TTL	SN74LS92D	TII	*	SO	167-108
17♦	74-90	TTL	SN74LS93D	TII	*	SO	158- 20
18♦	74-90N	CMOS	MM54C90D	NSC		DIP	172- 60
19♦	74-90N	CMOS	MM74C90N	NSC		DIP	172- 61
20♦	74-90N	CMOS	MSM5535	OKIJ		DIP	172- 63
21♦	74-90N	TTL	DM54L90J	NSC		DIP	173- 33
22♦	74-90N	TTL	DM5490J	NSC		DIP	175- 5
23♦	74-90N	TTL	DM74L90N	NSC		DIP	173- 35
24♦	74-90N	TTL	DM7490AN	NSC		DIP	166- 85
25♦	74-90N	TTL	DM7490N	NSC		DIP	175- 7
26♦	74-90N	TTL	FJJ141-7490	PHIN		DIP	173- 23
27▼	74-90N	TTL	HD74LS90G	HITJ		DIP	175- 12
28♦	74-90N	TTL	HD74LS90P	HITJ		DIP	175- 13
29♦	74-90N	TTL	M74LS90P	MITA		DIP	176- 38
30♦	74-90N	TTL	M74LS90P	MITJ		DIP	176- 38
31♦	74-90N	TTL	N74LS90F	MULB		DIP	173- 86
32♦	74-90N	TTL	N74LS90F	PHIN		DIP	173- 86
33♦	74-90N	TTL	N74LS90F	RTCF		DIP	173- 86
34♦	74-90N	TTL	N74LS90F	VALG		DIP	173- 86
35♦	74-90N	TTL	N74LS90N	MULB		DIP	175- 14
36♦	74-90N	TTL	N74LS90N	PHIN		DIP	175- 14
37♦	74-90N	TTL	N74LS90N	RTCF		DIP	175- 14
38♦	74-90N	TTL	N74LS90N	SIC		DIP	175- 14
39♦	74-90N	TTL	N74LS90N	VALG		DIP	175- 14
40♦	74-90N	TTL	N7490F	MULB		DIP	173- 24
41♦	74-90N	TTL	N7490F	PHIN		DIP	173- 24
42♦	74-90N	TTL	N7490F	RTCF		DIP	173- 24
43♦	74-90N	TTL	N7490F	VALG		DIP	173- 24
44♦	74-90N	TTL	N7490N	MULB		DIP	173- 25
45♦	74-90N	TTL	N7490N	PHIN		DIP	173- 25
46♦	74-90N	TTL	N7490N	RTCF		DIP	173- 25
47♦	74-90N	TTL	N7490N	SIC		DIP	173- 25
48♦	74-90N	TTL	N7490N	VALG		DIP	173- 25
49♦	74-90N	TTL	SFC490E	THEF		DIP	173- 95
50♦	74-90N	TTL	SFC490EM	THEF		DIP	173- 96
51♦	74-90N	TTL	SFC490ET	THEF		DIP	173- 97
52♦	74-90N	TTL	SN54LS90J	MOTA		DIP	175- 92
53♦	74-90N	TTL	SN54LS90J	TII		DIP	175- 92
54▼	74-90N	TTL	SN54LS90N	MOTA		DIP	175- 93
55♦	74-90N	TTL	SN5490AJ	TII		DIP	175-102
56♦	74-90N	TTL	SN74LS90J	MOTA		DIP	175- 97
57♦	74-90N	TTL	SN74LS90N	MOTA		DIP	175- 98
58♦	74-90N	TTL	SN74LS90N	TII		DIP	175- 98
59♦	74-90N	TTL	SN7490AN	TII		DIP	175-103
60♦	74-90N	TTL	S54LS90F	MULB		DIP	175- 17
61♦	74-90N	TTL	S54LS90F	PHIN		DIP	175- 17
62♦	74-90N	TTL	S54LS90F	RTCF		DIP	175- 17
63♦	74-90N	TTL	S54LS90F	SIC		DIP	175- 17
64♦	74-90N	TTL	S54LS90F	VALG		DIP	175- 17
65♦	74-90N	TTL	S5490F	MULB		DIP	173- 29
66♦	74-90N	TTL	S5490F	PHIN		DIP	173- 29
67♦	74-90N	TTL	S5490F	VALG		DIP	173- 29
68♦	74-90N	TTL	5490ADM	FSC		DIP	175- 48
69♦	74-90N	TTL	5490DM	FSC		DIP	175- 50
70♦	74-90N	TTL	74LS90DC	FSC		DIP	174-104
71♦	74-90N	TTL	74LS90PC	FSC		DIP	174-105
72♦	74-90N	TTL	7490ADC	FSC		DIP	175- 51
73♦	74-90N	TTL	7490APC	FSC		DIP	175- 52
74♦	74-92	CMOS	MSM5536	OKIJ		DIP	167- 74
75♦	74-92	CMOS	MSM5536RS	OKIJ		DIP	167- 75
76♦	74-92	TTL	DM54LS92J	NSC		DIP	167- 99
77♦	74-92	TTL	DN74LS92P1	MATJ		DIP	167-104
78♦	74-92	TTL	DN74LS92P4	MATJ	*	SO	167-105
79♦	74-92N	TTL	DM5492J	NSC		DIP	167- 93
80♦	74-92N	TTL	DM74LS92N	NSC		DIP	167-101
81♦	74-92N	TTL	DM7492AN	NSC		DIP	167-103
82♦	74-92N	TTL	DM7492N	NSC		DIP	167- 95
83♦	74-92N	TTL	FJJ251-7492	PHIN		DIP	167- 76
84▼	74-92N	TTL	HD74LS92G	HITJ		DIP	166- 81
85♦	74-92N	TTL	HD74LS92P	HITJ		DIP	166- 82
86♦	74-92N	TTL	M74LS92P	MITA		DIP	168- 3
87♦	74-92N	TTL	M74LS92P	MITJ		DIP	168- 3
88♦	74-92N	TTL	N74LS92F	MULB		DIP	167- 82
89♦	74-92N	TTL	N74LS92F	PHIN		DIP	167- 82
90♦	74-92N	TTL	N74LS92F	RTCF		DIP	167- 82
91♦	74-92N	TTL	N74LS92F	VALG		DIP	167- 82
92♦	74-92N	TTL	N74LS92N	MULB		DIP	167- 96
93♦	74-92N	TTL	N74LS92N	PHIN		DIP	167- 96
94♦	74-92N	TTL	N74LS92N	RTCF		DIP	167- 96
95♦	74-92N	TTL	N74LS92N	SIC		DIP	167- 96
96♦	74-92N	TTL	N74LS92N	VALG		DIP	167- 96
97♦	74-92N	TTL	N7492F	MULB		DIP	167- 77
98♦	74-92N	TTL	N7492F	PHIN		DIP	167- 77
99♦	74-92N	TTL	N7492F	RTCF		DIP	167- 77
100♦	74-92N	TTL	N7492F	VALG		DIP	167- 77
101♦	74-92N	TTL	N7492N	MULB		DIP	167- 78
102♦	74-92N	TTL	N7492N	PHIN		DIP	167- 78
103♦	74-92N	TTL	N7492N	RTCF		DIP	167- 78
104♦	74-92N	TTL	N7492N	SIC		DIP	167- 78
105♦	74-92N	TTL	N7492N	VALG		DIP	167- 78
106♦	74-92N	TTL	SFC492E	THEF		DIP	167- 83
107♦	74-92N	TTL	SFC492EM	THEF		DIP	167- 84
108♦	74-92N	TTL	SFC492ET	THEF		DIP	167- 85
109♦	74-92N	TTL	SN54LS92J	MOTA		DIP	167-106
110♦	74-92N	TTL	SN54LS92J	TII		DIP	167-106
111▼	74-92N	TTL	SN54LS92N	MOTA		DIP	167-107
112♦	74-92N	TTL	SN5492AJ	TII		DIP	168- 1
113♦	74-92N	TTL	SN74LS92J	MOTA		DIP	167-109
114♦	74-92N	TTL	SN74LS92N	MOTA		DIP	167-110
115♦	74-92N	TTL	SN74LS92N	TII		DIP	167-110
116♦	74-92N	TTL	SN7492AN	TII		DIP	168- 2
117♦	74-92N	TTL	S54LS92F	MULB		DIP	167- 97
118♦	74-92N	TTL	S54LS92F	PHIN		DIP	167- 97
119♦	74-92N	TTL	S54LS92F	RTCF		DIP	167- 97
120♦	74-92N	TTL	S54LS92F	SIC		DIP	167- 97
121♦	74-92N	TTL	S54LS92F	VALG		DIP	167- 97
122♦	74-92N	TTL	S5492F	MULB		DIP	167- 79
123♦	74-92N	TTL	S5492F	PHIN		DIP	167- 79
124♦	74-92N	TTL	S5492F	VALG		DIP	167- 79
125♦	74-92N	TTL	5492ADM	FSC		DIP	167- 89
126♦	74-92N	TTL	74LS92PC	FSC		DIP	167- 88
127♦	74-92N	TTL	7492ADC	FSC		DIP	167- 91
128♦	74-92N	TTL	7492APC	FSC		DIP	167- 92
129♦	74L93	CMOS	74HCT93D	SIC	*	SO	156- 60
130♦	74L93	CMOS	74HCT93N	SIC		DIP	156- 61
131♦	74L93	CMOS	74HC93D	SIC	*	SO	157- 4
132♦	74L93	CMOS	74HC93N	SIC		DIP	157- 5
133♦	74L93N	CMOS	MM54C93D	NSC		DIP	154- 35
134♦	74L93N	CMOS	MM74C93N	NSC		DIP	154- 36
135♦	74L93N	TTL	DM54L93J	NSC		DIP	155- 55
136♦	74L93N	TTL	DM74L93N	NSC		DIP	155- 57
137♦	74L93N	TTL	DM76L93J	NSC		DIP	155- 59
138♦	74L93N	TTL	DM76L93N	NSC		DIP	155- 60
139♦	74L93N	TTL	DM86L93J	NSC		DIP	155- 62
140♦	74L93N	TTL	DM86L93N	NSC		DIP	155- 63
141▼	74L93N	TTL	HD74LS93G	HITJ		DIP	157- 49
142♦	74L93N	TTL	HD74LS93P	HITJ		DIP	157- 50
143♦	74L93N	TTL	SFC493LE	THEF		DIP	154- 46
144♦	74L93N	TTL	SFC493LEM	THEF		DIP	154- 47
145♦	74LS93	CMOS	CD54HCT93F(A)	RCA		DIP	154- 18
146♦	74LS93	CMOS	CD54HC93F(A)	RCA		DIP	154- 17
147♦	74LS93	CMOS	CD74HCT93E(A)	RCA		DIP	154- 21
148♦	74LS93	CMOS	CD74HC93E(A)	RCA		DIP	154- 19
149▼	74LS93	CMOS	HD74HC93FP	HITJ	*	SO	156- 42
150▼	74LS93	CMOS	HD74HC93P	HITJ		DIP	156- 43
151♦	74LS93	CMOS	PC54HCT93D(A)	MULB		DIP	158- 47
152♦	74LS93	CMOS	PC54HCT93D(A)	PHIN		DIP	158- 47
153♦	74LS93	CMOS	PC54HCT93D(A)	RTCF		DIP	158- 47
154♦	74LS93	CMOS	PC54HCT93D(A)	VALG		DIP	158- 47
155♦	74LS93	CMOS	PC54HC93D(A)	MULB		DIP	158- 62
156♦	74LS93	CMOS	PC54HC93D(A)	PHIN		DIP	158- 62
157♦	74LS93	CMOS	PC54HC93D(A)	RTCF		DIP	158- 62
158♦	74LS93	CMOS	PC54HC93D(A)	VALG		DIP	158- 62
159♦	74LS93	CMOS	PC74HCT93D(A)	MULB		DIP	158- 48
160♦	74LS93	CMOS	PC74HCT93D(A)	PHIN		DIP	158- 48
161♦	74LS93	CMOS	PC74HCT93D(A)	RTCF		DIP	158- 48
162♦	74LS93	CMOS	PC74HCT93D(A)	VALG		DIP	158- 48
163♦	74LS93	CMOS	PC74HCT93P(A)	MULB		DIP	156- 30
164♦	74LS93	CMOS	PC74HCT93P(A)	PHIN		DIP	156- 30
165♦	74LS93	CMOS	PC74HCT93P(A)	RTCF		DIP	156- 30
166♦	74LS93	CMOS	PC74HCT93P(A)	VALG		DIP	156- 30
167♦	74LS93	CMOS	PC74HCT93T(A)	MULB	*	SO	156- 31
168♦	74LS93	CMOS	PC74HCT93T(A)	PHIN	*	SO	156- 31
169♦	74LS93	CMOS	PC74HCT93T(A)	RTCF	*	SO	156- 31
170♦	74LS93	CMOS	PC74HCT93T(A)	VALG	*	SO	156- 31
171♦	74LS93	CMOS	PC74HC93D(A)	MULB		DIP	158- 63
172♦	74LS93	CMOS	PC74HC93D(A)	PHIN		DIP	158- 63
173♦	74LS93	CMOS	PC74HC93D(A)	RTCF		DIP	158- 63
174♦	74LS93	CMOS	PC74HC93D(A)	VALG		DIP	158- 63
175♦	74LS93	CMOS	PC74HC93P	MULB		DIP	156- 28
176♦	74LS93	CMOS	PC74HC93P	PHIN		DIP	156- 28
177♦	74LS93	CMOS	PC74HC93P	RTCF		DIP	156- 28
178♦	74LS93	CMOS	PC74HC93P	VALG		DIP	156- 28
179♦	74LS93	CMOS	PC74HC93T	MULB	*	SO	156- 29
180♦	74LS93	CMOS	PC74HC93T	PHIN	*	SO	156- 29
181♦	74LS93	CMOS	PC74HC93T	RTCF	*	SO	156- 29
182♦	74LS93	CMOS	PC74HC93T	VALG	*	SO	156- 29
183♦	74LS93	TTL	DM54LS93J	NSC		DIP	158- 2
184♦	74LS93	TTL	DN74LS93P1	MATJ		DIP	158- 10
185♦	74LS93	TTL	DN74LS93P4	MATJ	*	SO	158- 11
186♦	74LS93N	CMOS	MSM5538	OKIJ		DIP	154- 39
187♦	74LS93N	TTL	DM5493J	NSC		DIP	157- 42
188♦	74LS93N	TTL	DM74LS93N	NSC		DIP	158- 6
189♦	74LS93N	TTL	DM7493AN	NSC		DIP	158- 9
190♦	74LS93N	TTL	DM7493N	NSC		DIP	157- 44
191♦	74LS93N	TTL	FJJ211-7493	PHIN		DIP	154-110
192♦	74LS93N	TTL	M74LS93P	MITA		DIP	158- 59
193♦	74LS93N	TTL	M74LS93P	MITJ		DIP	158- 59
194♦	74LS93N	TTL	N74LS93D	MULB	*	SO	157- 51
195♦	74LS93N	TTL	N74LS93D	PHIN	*	SO	157- 51
196♦	74LS93N	TTL	N74LS93D	RTCF	*	SO	157- 51
197♦	74LS93N	TTL	N74LS93D	SIC	*	SO	157- 51
198♦	74LS93N	TTL	N74LS93D	VALG	*	SO	157- 51
199♦	74LS93N	TTL	N74LS93F	MULB		DIP	155- 69
200♦	74LS93N	TTL	N74LS93F	PHIN		DIP	155- 69
201♦	74LS93N	TTL	N74LS93F	RTCF		DIP	155- 69
202♦	74LS93N	TTL	N74LS93F	VALG		DIP	155- 69
203♦	74LS93N	TTL	N74LS93N	MULB		DIP	157- 52
204♦	74LS93N	TTL	N74LS93N	PHIN		DIP	157- 52
205♦	74LS93N	TTL	N74LS93N	RTCF		DIP	157- 52
206♦	74LS93N	TTL	N74LS93N	SIC		DIP	157- 52
207♦	74LS93N	TTL	N74LS93N	VALG		DIP	157- 52
208♦	74LS93N	TTL	N7493F	MULB		DIP	155- 1
209♦	74LS93N	TTL	N7493F	PHIN		DIP	155- 1
210♦	74LS93N	TTL	N7493F	RTCF		DIP	155- 1
211♦	74LS93N	TTL	N7493F	VALG		DIP	155- 1
212♦	74LS93N	TTL	N7493N	MULB		DIP	155- 2
213♦	74LS93N	TTL	N7493N	PHIN		DIP	155- 2
214♦	74LS93N	TTL	N7493N	RTCF		DIP	155- 2
215♦	74LS93N	TTL	N7493N	SIC		DIP	155- 2
216♦	74LS93N	TTL	N7493N	VALG		DIP	155- 2
217♦	74LS93N	TTL	SFC493E	THEF		DIP	155- 90
218♦	74LS93N	TTL	SFC493EM	THEF		DIP	155- 91
219♦	74LS93N	TTL	SFC493ET	THEF		DIP	155- 92
220♦	74LS93N	TTL	SN54LS93J	MOTA		DIP	158- 16

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74LS93N	TTL	SN54LS93J	TII		DIP	158- 16
2▼	74LS93N	TTL	SN54LS93N	MOTA		DIP	158- 17
3♦	74LS93N	TTL	SN5493AJ	TII		DIP	158- 26
4♦	74LS93N	TTL	SN74LS93J	MOTA		DIP	158- 21
5♦	74LS93N	TTL	SN74LS93N	MOTA		DIP	158- 22
6♦	74LS93N	TTL	SN74LS93N	TII		DIP	158- 22
7♦	74LS93N	TTL	SN7493AN	TII		DIP	158- 27
8♦	74LS93N	TTL	S54LS93F	MULB		DIP	157- 55
9♦	74LS93N	TTL	S54LS93F	PHIN		DIP	157- 55
10♦	74LS93N	TTL	S54LS93F	RTCF		DIP	157- 55
11♦	74LS93N	TTL	S54LS93F	SIC		DIP	157- 55
12♦	74LS93N	TTL	S54LS93F	VALG		DIP	157- 55
13♦	74LS93N	TTL	S5493F	MULB		DIP	155- 6
14♦	74LS93N	TTL	S5493F	PHIN		DIP	155- 6
15♦	74LS93N	TTL	S5493F	RTCF		DIP	155- 6
16♦	74LS93N	TTL	S5493F	SIC		DIP	155- 6
17♦	74LS93N	TTL	S5493F	VALG		DIP	155- 6
18♦	74LS93N	TTL	54LS93DM	FSC		DIP	157- 22
19♦	74LS93N	TTL	5493ADM	FSC		DIP	157- 26
20♦	74LS93N	TTL	74LS93DC	FSC		DIP	157- 24
21♦	74LS93N	TTL	74LS93PC	FSC		DIP	157- 25
22♦	74LS93N	TTL	7493ADC	FSC		DIP	157- 28
23♦	74LS93N	TTL	7493APC	FSC		DIP	157- 29
24♦	74-97	TTL	SN5497J	TII		DIP	197- 90
25♦	74-97	TTL	SN7497N	TII		DIP	197- 91
26♦	74-100N	TTL	N74100F	MULB		DIP	231- 38
27♦	74-100N	TTL	N74100F	PHIN		DIP	231- 38
28♦	74-100N	TTL	N74100F	VALG		DIP	231- 38
29♦	74-100N	TTL	N74100N	MULB		DIP	231- 39
30♦	74-100N	TTL	N74100N	PHIN		DIP	231- 39
31♦	74-100N	TTL	N74100N	VALG		DIP	231- 39
32♦	74-100N	TTL	SN54100J	TII		DIP	231- 65
33♦	74-100N	TTL	SN74100N	TII		DIP	231- 67
34♦	74-100N	TTL	S54100F	MULB		DIP	231- 47
35♦	74-100N	TTL	S54100F	PHIN		DIP	231- 47
36♦	74-100N	TTL	S54100F	VALG		DIP	231- 47
37♦	74H103	TTL	N74H103F	MULB		DIP	71- 77
38♦	74H103	TTL	N74H103F	PHIN		DIP	71- 77
39♦	74H103	TTL	N74H103F	VALG		DIP	71- 77
40♦	74H103	TTL	N74H103N	MULB		DIP	71- 78
41♦	74H103	TTL	N74H103N	PHIN		DIP	71- 78
42♦	74H103	TTL	N74H103N	VALG		DIP	71- 78
43♦	74H103	TTL	S54H103F	MULB		DIP	71- 83
44♦	74H103	TTL	S54H103F	PHIN		DIP	71- 83
45♦	74H103	TTL	S54H103F	VALG		DIP	71- 83
46♦	74H103	TTL	54H103DM	FSC		DIP	72- 70
47♦	74H103	TTL	74H103DC	FSC		DIP	72- 76
48♦	74H103	TTL	74H103PC	FSC		DIP	72- 77
49♦	74-104N	TTL	9000DM	FSC		DIP	65- 29
50♦	74-105N	TTL	9001DC	FSC		DIP	66- 38
51♦	74-105N	TTL	9001DM	FSC		DIP	66- 39
52♦	74-107	CMOS	M54HC107F1(A)	SGSI		DIP	72- 88
53♦	74-107	CMOS	M74HC107B1(A)	SGSI		DIP	69- 56
54♦	74-107	CMOS	M74HC107F1(A)	SGSI		DIP	69- 58
55♦	74-107	CMOS	PC54HCT107D(A)	MULB		DIP	67-108
56♦	74-107	CMOS	PC54HCT107D(A)	PHIN		DIP	67-108
57♦	74-107	CMOS	PC54HCT107D(A)	RTCF		DIP	67-108
58♦	74-107	CMOS	PC54HCT107D(A)	VALG		DIP	67-108
59♦	74-107	CMOS	PC54HC107D(A)	MULB		DIP	68- 28
60♦	74-107	CMOS	PC54HC107D(A)	PHIN		DIP	68- 28
61♦	74-107	CMOS	PC54HC107D(A)	RTCF		DIP	68- 28
62♦	74-107	CMOS	PC54HC107D(A)	VALG		DIP	68- 28
63♦	74-107	CMOS	PC74HCT107D(A)	MULB		DIP	68- 29
64♦	74-107	CMOS	PC74HCT107D(A)	PHIN		DIP	68- 29
65♦	74-107	CMOS	PC74HCT107D(A)	RTCF		DIP	68- 29
66♦	74-107	CMOS	PC74HCT107D(A)	VALG		DIP	68- 29
67♦	74-107	CMOS	PC74HCT107P	MULB		DIP	68- 30
68♦	74-107	CMOS	PC74HCT107P	PHIN		DIP	68- 30
69♦	74-107	CMOS	PC74HCT107P	RTCF		DIP	68- 30
70♦	74-107	CMOS	PC74HCT107P	VALG		DIP	68- 30
71	74-107	CMOS	PC74HCT107T	MULB	*	SO	68- 71
72	74-107	CMOS	PC74HCT107T	PHIN	*	SO	68- 71
73	74-107	CMOS	PC74HCT107T	RTCF	*	SO	68- 71
74	74-107	CMOS	PC74HCT107T	VALG	*	SO	68- 71
75♦	74-107	CMOS	PC74HC107D(A)	MULB		DIP	68- 64
76♦	74-107	CMOS	PC74HC107D(A)	PHIN		DIP	68- 64
77♦	74-107	CMOS	PC74HC107D(A)	RTCF		DIP	68- 64
78♦	74-107	CMOS	PC74HC107D(A)	VALG		DIP	68- 64
79♦	74-107	CMOS	PC74HC107P	MULB		DIP	68- 65
80♦	74-107	CMOS	PC74HC107P	PHIN		DIP	68- 65
81♦	74-107	CMOS	PC74HC107P	RTCF		DIP	68- 65
82♦	74-107	CMOS	PC74HC107P	VALG		DIP	68- 65
83	74-107	CMOS	PC74HC107T	MULB	*	SO	68- 66
84	74-107	CMOS	PC74HC107T	PHIN	*	SO	68- 66
85	74-107	CMOS	PC74HC107T	RTCF	*	SO	68- 66
86	74-107	CMOS	PC74HC107T	VALG	*	SO	68- 66
87	74-107	CMOS	74HCT107D	SIC	*	SO	69- 5
88♦	74-107	CMOS	74HCT107N	SIC		DIP	69- 6
89	74-107	CMOS	74HC107D	SIC	*	SO	70- 4
90♦	74-107	CMOS	74HC107N	SIC		DIP	70- 5
91♦	74-107	TTL	DM54LS107AJ	NSC		DIP	71-105
92♦	74-107	TTL	DM74LS107AN	NSC		DIP	72- 2
93♦	74-107	TTL	DN74LS107P1	MATJ		DIP	72- 12
94	74-107	TTL	DN74LS107P4	MATJ	*	SO	72- 13
95	74-107	TTL	SN74LS107AD	TII	*	SO	72- 50
96♦	74-107N	CMOS	CD54HCT107F	RCA		DIP	73- 29
97♦	74-107N	CMOS	CD54HC107F	RCA		DIP	73- 25
98♦	74-107N	CMOS	CD74HCT107E	RCA		DIP	73- 41
99♦	74-107N	CMOS	CD74HC107E	RCA		DIP	73- 34
100♦	74-107N	CMOS	MM74HC107J	NSC		DIP	69- 25
101♦	74-107N	CMOS	MM74HC107N	NSC		DIP	69- 26
102	74-107N	CMOS	TC40H107P	IMTM		DIP	68- 96
103	74-107N	CMOS	TC40H107P	TOSJ		DIP	68- 96
104♦	74-107N	CMOS	UPD74HC107C(A)	NECJ		DIP	73- 13
105♦	74-107N	TTL	DM54107J	NSC		DIP	69- 46
106♦	74-107N	TTL	DM74107J	NSC		DIP	69- 47
107♦	74-107N	TTL	DM74107N	NSC		DIP	69- 48
108♦	74-107N	TTL	FJJ261-74107	PHIN		DIP	67- 81
109♦	74-107N	TTL	HD74LS107A	HITJ		DIP	72- 20
110♦	74-107N	TTL	MB410	FCAJ		DIP	68- 54
111♦	74-107N	TTL	MB410M	FCAJ		DIP	68- 55
112♦	74-107N	TTL	MB74LS107A	FCAJ		DIP	70- 54
113♦	74-107N	TTL	MB74LS107AM	FCAJ		DIP	70- 55
114♦	74-107N	TTL	M53307P	MITJ		DIP	68- 53
115♦	74-107N	TTL	N74107F	MULB		DIP	68- 13
116♦	74-107N	TTL	N74107F	PHIN		DIP	68- 13
117♦	74-107N	TTL	N74107F	VALG		DIP	68- 13
118♦	74-107N	TTL	N74107N	MULB		DIP	68- 14
119♦	74-107N	TTL	N74107N	PHIN		DIP	68- 14
120♦	74-107N	TTL	N74107N	RTCF		DIP	68- 14
121♦	74-107N	TTL	N74107N	SIC		DIP	68- 14
122♦	74-107N	TTL	N74107N	VALG		DIP	68- 14
123♦	74-107N	TTL	SFC4107E	THEF		DIP	68- 77
124♦	74-107N	TTL	SFC4107EM	THEF		DIP	68- 78
125♦	74-107N	TTL	SFC4107ET	THEF		DIP	68- 79
126♦	74-107N	TTL	SN54LS107AJ	MOTA		DIP	72- 33
127♦	74-107N	TTL	SN54LS107AJ	TII		DIP	72- 33
128▼	74-107N	TTL	SN54LS107AN	MOTA		DIP	72- 34
129♦	74-107N	TTL	SN54107J	TII		DIP	68- 87
130♦	74-107N	TTL	SN74LS107AJ	MOTA		DIP	72- 51
131♦	74-107N	TTL	SN74LS107AN	MOTA		DIP	72- 52
132♦	74-107N	TTL	SN74LS107AN	TII		DIP	72- 52
133♦	74-107N	TTL	SN74107N	TII		DIP	68- 88
134♦	74-107N	TTL	S54107F	MULB		DIP	68- 20
135♦	74-107N	TTL	S54107F	PHIN		DIP	68- 20
136♦	74-107N	TTL	S54107F	VALG		DIP	68- 20
137♦	74-107N	TTL	54107DM	FSC		DIP	67-109
138♦	74-107N	TTL	74107PC	FSC		DIP	68- 2
139▼	74LS107N	CMOS	HD74HC107FP	HITJ	*	SO	69- 13
140▼	74LS107N	CMOS	HD74HC107P	HITJ		DIP	69- 14
141♦	74LS107N	CMOS	MC54HC107J(A)	MOTA		DIP	70- 66
142♦	74LS107N	CMOS	MC74HC107J(A)	MOTA		DIP	70- 74
143♦	74LS107N	CMOS	MC74HC107N(A)	MOTA		DIP	70- 75
144♦	74LS107N	CMOS	MM54C107D	NSC		DIP	67- 40
145♦	74LS107N	CMOS	MM54HC107J	NSC		DIP	68- 57
146♦	74LS107N	CMOS	MM74C107N	NSC		DIP	67- 43
147♦	74LS107N	CMOS	SN54HC107J	TII		DIP	68-100
148▼	74LS107N	CMOS	SN74HC107D	TII	*	SO	69-105
149♦	74LS107N	CMOS	SN74HC107N	TII		DIP	69-106
150	74LS107N	CMOS	TC40H107AP	IMTM		DIP	68- 94
151	74LS107N	CMOS	TC40H107AP	TOSJ		DIP	68- 94
152▼	74LS107N	CMOS	TC74HC107F(A)	TOSA	*	SO	73- 14
153▼	74LS107N	CMOS	TC74HC107P(A)	TOSA		DIP	73- 15
154♦	74LS107N	CMOS	US74HCT107N(A)	UNV		DIP	71- 28
155♦	74LS107N	TTL	MB74LS107	FCAJ		DIP	70- 53
156♦	74LS107N	TTL	MB74LS107M	FCAJ		DIP	70- 56
157♦	74LS107N	TTL	M74LS107AP	MITA		DIP	72- 23
158♦	74LS107N	TTL	M74LS107AP	MITJ		DIP	72- 23
159	74LS107N	TTL	N74LS107D	MULB	*	SO	70- 88
160	74LS107N	TTL	N74LS107D	PHIN	*	SO	70- 88
161	74LS107N	TTL	N74LS107D	RTCF	*	SO	70- 88
162	74LS107N	TTL	N74LS107D	SIC	*	SO	70- 88
163	74LS107N	TTL	N74LS107D	VALG	*	SO	70- 88
164♦	74LS107N	TTL	N74LS107F	MULB		DIP	70- 89
165♦	74LS107N	TTL	N74LS107F	PHIN		DIP	70- 89
166♦	74LS107N	TTL	N74LS107F	RTCF		DIP	70- 89
167♦	74LS107N	TTL	N74LS107F	VALG		DIP	70- 89
168♦	74LS107N	TTL	N74LS107N	MULB		DIP	70- 90
169♦	74LS107N	TTL	N74LS107N	PHIN		DIP	70- 90
170♦	74LS107N	TTL	N74LS107N	RTCF		DIP	70- 90
171♦	74LS107N	TTL	N74LS107N	SIC		DIP	70- 90
172♦	74LS107N	TTL	N74LS107N	VALG		DIP	70- 90
173♦	74LS107N	TTL	S54LS107F	MULB		DIP	70-110
174♦	74LS107N	TTL	S54LS107F	PHIN		DIP	70-110
175♦	74LS107N	TTL	S54LS107F	RTCF		DIP	70-110
176♦	74LS107N	TTL	S54LS107F	SIC		DIP	70-110
177♦	74LS107N	TTL	S54LS107F	VALG		DIP	70-110
178♦	74LS107N	TTL	54LS107DM	FSC		DIP	70- 24
179♦	74LS107N	TTL	74107DC	FSC		DIP	68- 1
180	74-109	CMOS	CD54HCT109F	RCA		DIP	73- 30
181	74-109	CMOS	CD54HC109F	RCA		DIP	73- 26
182	74-109	CMOS	CD74HCT109E	RCA		DIP	73- 43
183	74-109	CMOS	CD74HC109E	RCA		DIP	73- 36
184	74-109	CMOS	CD74HC109M	RCA	*	SO	74-107
185♦	74-109	CMOS	PC54HCT109D(A)	MULB		DIP	68- 37
186♦	74-109	CMOS	PC54HCT109D(A)	PHIN		DIP	68- 37
187♦	74-109	CMOS	PC54HCT109D(A)	RTCF		DIP	68- 37
188♦	74-109	CMOS	PC54HCT109D(A)	VALG		DIP	68- 37
189♦	74-109	CMOS	PC54HC109D(A)	MULB		DIP	68- 61
190♦	74-109	CMOS	PC54HC109D(A)	PHIN		DIP	68- 61
191♦	74-109	CMOS	PC54HC109D(A)	RTCF		DIP	68- 61
192♦	74-109	CMOS	PC54HC109D(A)	VALG		DIP	68- 61
193♦	74-109	CMOS	PC74HCT109D(A)	MULB		DIP	69- 4
194♦	74-109	CMOS	PC74HCT109D(A)	PHIN		DIP	69- 4
195♦	74-109	CMOS	PC74HCT109D(A)	RTCF		DIP	69- 4
196♦	74-109	CMOS	PC74HCT109D(A)	VALG		DIP	69- 4
197♦	74-109	CMOS	PC74HCT109P	MULB		DIP	68- 41
198♦	74-109	CMOS	PC74HCT109P	PHIN		DIP	68- 41
199♦	74-109	CMOS	PC74HCT109P	RTCF		DIP	68- 41
200♦	74-109	CMOS	PC74HCT109P	VALG		DIP	68- 41
201	74-109	CMOS	PC74HCT109T	MULB	*	SO	68- 42
202	74-109	CMOS	PC74HCT109T	PHIN	*	SO	68- 42
203	74-109	CMOS	PC74HCT109T	RTCF	*	SO	68- 42
204	74-109	CMOS	PC74HCT109T	VALG	*	SO	68- 42
205♦	74-109	CMOS	PC74HC109D(A)	MULB		DIP	69- 33
206♦	74-109	CMOS	PC74HC109D(A)	PHIN		DIP	69- 33
207♦	74-109	CMOS	PC74HC109D(A)	RTCF		DIP	69- 33
208♦	74-109	CMOS	PC74HC109D(A)	VALG		DIP	69- 33
209♦	74-109	CMOS	PC74HC109P	MULB		DIP	68- 67
210♦	74-109	CMOS	PC74HC109P	PHIN		DIP	68- 67
211♦	74-109	CMOS	PC74HC109P	RTCF		DIP	68- 67
212♦	74-109	CMOS	PC74HC109P	VALG		DIP	68- 67
213	74-109	CMOS	PC74HC109T	MULB	*	SO	68- 68
214	74-109	CMOS	PC74HC109T	PHIN	*	SO	68- 68
215	74-109	CMOS	PC74HC109T	RTCF	*	SO	68- 68
216	74-109	CMOS	PC74HC109T	VALG	*	SO	68- 68
217	74-109	CMOS	74HCT109D	SIC	*	SO	68-105
218♦	74-109	CMOS	74HCT109N	SIC		DIP	68-106
219	74-109	CMOS	74HC109D	SIC	*	SO	70- 6
220♦	74-109	CMOS	74HC109N	SIC		DIP	70- 7

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-109	TTL	DM54LS109AJ	NSC		DIP	71- 29
2♦	74-109	TTL	DM74LS109AN	NSC		DIP	71- 30
3♦	74-109	TTL	DM74109N	NSC		DIP	71- 76
4♦	74-109	TTL	DM8024N	NSC		DIP	71- 73
5♦	74-109	TTL	DM9024J	NSC		DIP	71- 74
6	74-109	TTL	SN74LS109AD	TII	*	SO	71- 36
7♦	74-109	TTL	S54LS109AF	MULB		DIP	69- 86
8♦	74-109	TTL	S54LS109AF	PHIN		DIP	69- 86
9♦	74-109	TTL	S54LS109AF	RTCF		DIP	69- 86
10♦	74-109	TTL	S54LS109AF	VALG		DIP	69- 86
11♦	74-109N	CMOS	MC54HC109J(A)	MOTA		DIP	70- 67
12♦	74-109N	CMOS	MC74HC109J(A)	MOTA		DIP	70- 76
13♦	74-109N	CMOS	MC74HC109N(A)	MOTA		DIP	70- 77
14♦	74-109N	CMOS	MM54HCT109J(A)	NSC		DIP	68- 35
15♦	74-109N	CMOS	MM54HC109J	NSC		DIP	68- 58
16♦	74-109N	CMOS	MM74HCT109J(A)	NSC		DIP	68-110
17♦	74-109N	CMOS	MM74HCT109N(A)	NSC		DIP	69- 1
18♦	74-109N	CMOS	MM74HC109J	NSC		DIP	69- 27
19♦	74-109N	CMOS	MM74HC109N	NSC		DIP	69- 28
20♦	74-109N	CMOS	SN54HC109J	TII		DIP	68-101
21▼	74-109N	CMOS	SN74HC109D	TII	*	SO	69-107
22♦	74-109N	CMOS	SN74HC109N	TII		DIP	69-108
23▼	74-109N	CMOS	TC74HC109F	TOSA	*	SO	73- 51
24♦	74-109N	CMOS	TC74HC109P	TOSA		DIP	73- 52
25♦	74-109N	CMOS	TC74HC109P	TOSJ		DIP	73- 52
26♦	74-109N	CMOS	54ACT109DM(A)	FSC		DIP	73- 58
27♦	74-109N	CMOS	54ACT109SM(A)	FSC	*	SO	73- 59
28♦	74-109N	CMOS	54AC109DM(A)	FSC		DIP	73- 56
29♦	74-109N	CMOS	54AC109SM(A)	FSC	*	SO	73- 57
30♦	74-109N	CMOS	74ACT109DC(A)	FSC		DIP	73- 65
31♦	74-109N	CMOS	74ACT109PC(A)	FSC		DIP	73- 66
32♦	74-109N	CMOS	74ACT109SC(A)	FSC	*	SO	73- 67
33♦	74-109N	CMOS	74AC109DC(A)	FSC		DIP	73- 62
34♦	74-109N	CMOS	74AC109PC(A)	FSC		DIP	73- 63
35♦	74-109N	CMOS	74AC109SC(A)	FSC	*	SO	73- 64
36▼	74-109N	TTL	HD74LS109AG	HITJ		DIP	71- 33
37♦	74-109N	TTL	HD74LS109AP	HITJ		DIP	69- 49
38♦	74-109N	TTL	MB74LS109A	FCAJ		DIP	69- 63
39♦	74-109N	TTL	MB74LS109AM	FCAJ		DIP	69- 64
40♦	74-109N	TTL	MC54F109J	MOTA		DIP	74- 35
41▼	74-109N	TTL	MC54F109N	MOTA		DIP	74- 36
42♦	74-109N	TTL	MC74F109J	MOTA		DIP	74- 37
43♦	74-109N	TTL	MC74F109N	MOTA		DIP	74- 38
44♦	74-109N	TTL	M74ALS109P	MITA		DIP	71- 89
45	74-109N	TTL	M74LS109AP	MITA			69- 62
46	74-109N	TTL	M74LS109AP	MITJ			69- 62
47♦	74-109N	TTL	N74F109D	MULB	*	SO	74- 39
48♦	74-109N	TTL	N74F109D	PHIN	*	SO	74- 39
49♦	74-109N	TTL	N74F109D	RTCF	*	SO	74- 39
50♦	74-109N	TTL	N74F109D	SIC	*	SO	74- 39
51♦	74-109N	TTL	N74F109D	VALG	*	SO	74- 39
52♦	74-109N	TTL	N74F109F	VALG		DIP	74- 40
53♦	74-109N	TTL	N74F109N	MULB		DIP	74- 41
54♦	74-109N	TTL	N74F109N	PHIN		DIP	74- 41
55♦	74-109N	TTL	N74F109N	RTCF		DIP	74- 41
56♦	74-109N	TTL	N74F109N	SIC		DIP	74- 41
57♦	74-109N	TTL	N74F109N	VALG		DIP	74- 41
58♦	74-109N	TTL	N74LS109AF	MULB		DIP	69- 71
59♦	74-109N	TTL	N74LS109AF	PHIN		DIP	69- 71
60♦	74-109N	TTL	N74LS109AF	VALG		DIP	69- 71
*61♦	74-109N	TTL	N74LS109AN	MULB		DIP	69- 72
62♦	74-109N	TTL	N74LS109AN	PHIN		DIP	69- 72
63♦	74-109N	TTL	N74LS109AN	RTCF		DIP	69- 72
64♦	74-109N	TTL	N74LS109AN	SIC		DIP	69- 72
65♦	74-109N	TTL	N74LS109AN	VALG		DIP	69- 72
66	74-109N	TTL	N74LS109D	MULB	*	SO	69- 73
67	74-109N	TTL	N74LS109D	PHIN	*	SO	69- 73
68	74-109N	TTL	N74LS109D	RTCF	*	SO	69- 73
69	74-109N	TTL	N74LS109D	SIC	*	SO	69- 73
70	74-109N	TTL	N74LS109D	VALG	*	SO	69- 73
71♦	74-109N	TTL	N74LS109N	MULB		DIP	69- 74
72♦	74-109N	TTL	N74LS109N	PHIN		DIP	69- 74
73♦	74-109N	TTL	N74LS109N	RTCF		DIP	69- 74
74♦	74-109N	TTL	N74LS109N	SIC		DIP	69- 74
75♦	74-109N	TTL	N74LS109N	VALG		DIP	69- 74
76♦	74-109N	TTL	N74109F	MULB		DIP	69- 80
77♦	74-109N	TTL	N74109F	PHIN		DIP	69- 80
78♦	74-109N	TTL	N74109F	VALG		DIP	69- 80
79♦	74-109N	TTL	N74109N	MULB		DIP	69- 81
80♦	74-109N	TTL	N74109N	PHIN		DIP	69- 81
81♦	74-109N	TTL	N74109N	RTCF		DIP	69- 81
82♦	74-109N	TTL	N74109N	SIC		DIP	69- 81
83♦	74-109N	TTL	N74109N	VALG		DIP	69- 81
84♦	74-109N	TTL	SN54AS109J	TII		DIP	73- 97
85♦	74-109N	TTL	SN54LS109AJ	MOTA		DIP	71- 34
86♦	74-109N	TTL	SN54LS109AJ	TII		DIP	71- 34
87▼	74-109N	TTL	SN54LS109AN	MOTA		DIP	71- 35
88♦	74-109N	TTL	SN54109J	TII		DIP	71- 39
89▼	74-109N	TTL	SN74AS109D	TII	*	SO	73-101
90♦	74-109N	TTL	SN74AS109N	TII		DIP	73-102
91♦	74-109N	TTL	SN74LS109AJ	MOTA		DIP	71- 37
92♦	74-109N	TTL	SN74LS109AN	MOTA		DIP	71- 38
93♦	74-109N	TTL	SN74LS109AN	TII		DIP	71- 38
94♦	74-109N	TTL	SN74109N	TII		DIP	71- 40
95♦	74-109N	TTL	S54F109F	MULB		DIP	73- 88
96♦	74-109N	TTL	S54F109F	PHIN		DIP	73- 88
97♦	74-109N	TTL	S54F109F	RTCF		DIP	73- 88
98♦	74-109N	TTL	S54F109F	SIC		DIP	73- 88
99♦	74-109N	TTL	S54F109F	VALG		DIP	73- 88
100	74-109N	TTL	S54F109G	MULB	*	LLCC	73- 89
101	74-109N	TTL	S54F109G	PHIN	*	LLCC	73- 89
102	74-109N	TTL	S54F109G	RTCF	*	LLCC	73- 89
103	74-109N	TTL	S54F109G	VALG	*	LLCC	73- 89
104♦	74-109N	TTL	S54LS109F	MULB		DIP	69- 88
105♦	74-109N	TTL	S54LS109F	PHIN		DIP	69- 88
106♦	74-109N	TTL	S54LS109F	SIC		DIP	69- 88
107♦	74-109N	TTL	S54LS109F	VALG		DIP	69- 88
108	74-109N	TTL	S54LS109G	MULB	*	LLCC	69- 89
109	74-109N	TTL	S54LS109G	PHIN	*	LLCC	69- 89
110	74-109N	TTL	S54LS109G	RTCF	*	LLCC	69- 89
111	74-109N	TTL	S54LS109G	SIC	*	LLCC	69- 89
112	74-109N	TTL	S54LS109G	VALG	*	LLCC	69- 89
113♦	74-109N	TTL	S54109F	MULB		DIP	69- 96
114♦	74-109N	TTL	S54109F	PHIN		DIP	69- 96
115♦	74-109N	TTL	S54109F	RTCF		DIP	69- 96
116♦	74-109N	TTL	S54109F	SIC		DIP	69- 96
117♦	74-109N	TTL	S54109F	VALG		DIP	69- 96
118♦	74-109N	TTL	T54LS109D2	SGSI		DIP	67- 8
119♦	74-109N	TTL	T74LS109B1	SGSI		DIP	67- 10
120♦	74-109N	TTL	T74LS109D1	SGSI		DIP	67- 11
121♦	74-109N	TTL	54F109DM	FSC		DIP	73-107
122♦	74-109N	TTL	54LS109DM	FSC		DIP	71- 90
123♦	74-109N	TTL	54S109DM	FSC		DIP	73- 60
124♦	74-109N	TTL	74F109DC	FSC		DIP	74- 8
125♦	74-109N	TTL	74F109PC	FSC		DIP	74- 10
126♦	74-109N	TTL	74LS109DC	FSC		DIP	71- 96
127♦	74-109N	TTL	74LS109PC	FSC		DIP	71- 97
128♦	74-109N	TTL	74S109DC	FSC		DIP	73- 68
129	74-109N	TTL	74S109PC	FSC			73- 69
130♦	74-109N	TTL	9024DC	FSC		DIP	69- 34
131♦	74-109N	TTL	9024DM	FSC		DIP	69- 35
132♦	74LS109	CMOS	M54HC109F1(A)	SGSI		DIP	73- 19
133♦	74LS109	CMOS	M74HC109B1(A)	SGSI		DIP	69- 59
134♦	74LS109	CMOS	M74HC109F1(A)	SGSI		DIP	69- 61
135♦	74LS109	CMOS	UPD74HC109C(A)	NECJ		DIP	72- 68
136♦	74LS109	TTL	DM54ALS109AJ	NSC		DIP	70- 30
137♦	74LS109	TTL	DM54AS109J(A)	NSC		DIP	73- 96
138♦	74LS109	TTL	DM74ALS109AJ	NSC		DIP	71- 41
139♦	74LS109	TTL	DM74ALS109AN	NSC		DIP	71- 42
140♦	74LS109	TTL	DM74AS109J(A)	NSC		DIP	73- 99
141♦	74LS109	TTL	DM74AS109N(A)	NSC		DIP	73-100
142♦	74LS109	TTL	DN74LS109P2	MATJ		DIP	71- 31
143	74LS109	TTL	DN74LS109P5	MATJ	*	SO	71- 32
144♦	74LS109	TTL	M74ALS109AP	MITJ		DIP	71- 43
145♦	74LS109	TTL	SN54ALS109AJ	TII		DIP	71- 16
146▼	74LS109	TTL	SN74ALS109AD	TII	*	SO	71- 46
147♦	74LS109	TTL	SN74ALS109AN	TII		DIP	71- 47
148▼	74LS109N	CMOS	HD74HC109FP	HITJ	*	SO	68- 97
149▼	74LS109N	CMOS	HD74HC109P	HITJ		DIP	68- 98
150♦	74-111N	TTL	SN54111J	TII		DIP	70- 1
151♦	74LS112	CMOS	M54HC112F1(A)	SGSI		DIP	73- 23
152♦	74LS112	CMOS	M74HC112B1(A)	SGSI		DIP	70- 10
153♦	74LS112	CMOS	M74HC112F1(A)	SGSI		DIP	70- 12
154♦	74LS112	CMOS	PC54HCT112D(A)	MULB		DIP	72- 97
155♦	74LS112	CMOS	PC54HCT112D(A)	PHIN		DIP	72- 97
156♦	74LS112	CMOS	PC54HCT112D(A)	RTCF		DIP	72- 97
157♦	74LS112	CMOS	PC54HCT112D(A)	VALG		DIP	72- 97
158♦	74LS112	CMOS	PC54HC112D(A)	MULB		DIP	73- 47
159♦	74LS112	CMOS	PC54HC112D(A)	PHIN		DIP	73- 47
160♦	74LS112	CMOS	PC54HC112D(A)	RTCF		DIP	73- 47
161♦	74LS112	CMOS	PC54HC112D(A)	VALG		DIP	73- 47
162♦	74LS112	CMOS	PC74HCT112D(A)	MULB		DIP	72- 98
163♦	74LS112	CMOS	PC74HCT112D(A)	PHIN		DIP	72- 98
164♦	74LS112	CMOS	PC74HCT112D(A)	RTCF		DIP	72- 98
165♦	74LS112	CMOS	PC74HCT112D(A)	VALG		DIP	72- 98
166♦	74LS112	CMOS	PC74HCT112P	MULB		DIP	68- 43
167♦	74LS112	CMOS	PC74HCT112P	PHIN		DIP	68- 43
168♦	74LS112	CMOS	PC74HCT112P	RTCF		DIP	68- 43
169♦	74LS112	CMOS	PC74HCT112P	VALG		DIP	68- 43
170	74LS112	CMOS	PC74HCT112T	MULB	*	SO	68- 44
171	74LS112	CMOS	PC74HCT112T	PHIN	*	SO	68- 44
172	74LS112	CMOS	PC74HCT112T	RTCF	*	SO	68- 44
173	74LS112	CMOS	PC74HCT112T	VALG	*	SO	68- 44
174♦	74LS112	CMOS	PC74HC112D(A)	MULB		DIP	73- 48
175♦	74LS112	CMOS	PC74HC112D(A)	PHIN		DIP	73- 48
176♦	74LS112	CMOS	PC74HC112D(A)	RTCF		DIP	73- 48
177♦	74LS112	CMOS	PC74HC112D(A)	VALG		DIP	73- 48
178♦	74LS112	CMOS	PC74HC112P	MULB		DIP	68- 69
179♦	74LS112	CMOS	PC74HC112P	PHIN		DIP	68- 69
180♦	74LS112	CMOS	PC74HC112P	RTCF		DIP	68- 69
181♦	74LS112	CMOS	PC74HC112P	VALG		DIP	68- 69
182	74LS112	CMOS	PC74HC112T	MULB	*	SO	68- 70
183	74LS112	CMOS	PC74HC112T	PHIN	*	SO	68- 70
184	74LS112	CMOS	PC74HC112T	RTCF	*	SO	68- 70
185	74LS112	CMOS	PC74HC112T	VALG	*	SO	68- 70
186▼	74LS112	CMOS	SN74HC112D	TII	*	SO	68- 80
187♦	74LS112	CMOS	SN74HC112N	TII		DIP	68- 81
188♦	74LS112	CMOS	UPD74HC112C(A)	NECJ		DIP	72- 69
189	74LS112	CMOS	74HCT112D	SIC	*	SO	68-107
190♦	74LS112	CMOS	74HCT112N	SIC		DIP	68-108
191	74LS112	CMOS	74HC112D	SIC	*	SO	70- 8
192♦	74LS112	CMOS	74HC112N	SIC		DIP	70- 9
193♦	74LS112	TTL	DM54ALS112AJ	NSC		DIP	69- 37
194♦	74LS112	TTL	DM54AS112J(A)	NSC		DIP	74- 85
195♦	74LS112	TTL	DM54LS112AJ	NSC		DIP	71-106
196♦	74LS112	TTL	DM74ALS112AJ	NSC		DIP	70- 31
197♦	74LS112	TTL	DM74ALS112AN	NSC		DIP	70- 32
198♦	74LS112	TTL	DM74AS112J(A)	NSC		DIP	74- 88
199♦	74LS112	TTL	DM74AS112N(A)	NSC		DIP	74- 89
200♦	74LS112	TTL	DM74LS112AN	NSC		DIP	72- 3
201♦	74LS112	TTL	DN74LS112P2	MATJ		DIP	72- 14
202	74LS112	TTL	DN74LS112P5	MATJ	*	SO	72- 15
203♦	74LS112	TTL	N74F112D(A)	MULB	*	SO	74- 69
204♦	74LS112	TTL	N74F112D(A)	PHIN	*	SO	74- 69
205♦	74LS112	TTL	N74F112D(A)	RTCF	*	SO	74- 69
206♦	74LS112	TTL	N74F112D(A)	SIC	*	SO	74- 69
207♦	74LS112	TTL	N74F112D(A)	VALG	*	SO	74- 69
208♦	74LS112	TTL	N74F112N(A)	MULB		DIP	74- 70
209♦	74LS112	TTL	N74F112N(A)	PHIN		DIP	74- 70
210♦	74LS112	TTL	N74F112N(A)	RTCF		DIP	74- 70
211♦	74LS112	TTL	N74F112N(A)	SIC		DIP	74- 70
212♦	74LS112	TTL	N74F112N(A)	VALG		DIP	74- 70
213	74LS112	TTL	SN74LS112AD	TII	*	SO	72- 53
214	74LS112	TTL	SN74S112D	TII	*	SO	74- 48
215♦	74LS112	TTL	54F112DM	FSC		DIP	74- 54
216♦	74LS112	TTL	74F112DC	FSC		DIP	74- 56
217♦	74LS112	TTL	74F112PC	FSC		DIP	74- 58
218♦	74LS112N	CMOS	CD54HCT112F	RCA		DIP	73- 31
219♦	74LS112N	CMOS	CD54HC112F	RCA		DIP	73- 27
220♦	74LS112N	CMOS	CD74HCT112E	RCA		DIP	73- 45

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74LS112N	CMOS	CD74HCT112M	RCA		SO	73- 46
2♦	74LS112N	CMOS	CD74HC112E	RCA		DIP	73- 37
3♦	74LS112N	CMOS	CD74HC112M	RCA		SO	73- 38
4▼	74LS112N	CMOS	HD74HC112FP	HITJ	*	SO	69- 17
5▼	74LS112N	CMOS	HD74HC112P	HITJ		DIP	69- 18
6♦	74LS112N	CMOS	MC54HC112J(A)	MOTA		DIP	70- 68
7♦	74LS112N	CMOS	MC74HC112J(A)	MOTA		DIP	70- 78
8♦	74LS112N	CMOS	MC74HC112N(A)	MOTA		DIP	70- 79
9♦	74LS112N	CMOS	MM54HC112J	NSC		DIP	68- 59
10♦	74LS112N	CMOS	MM74HC112J	NSC		DIP	69- 29
11♦	74LS112N	CMOS	MM74HC112N	NSC		DIP	69- 30
12♦	74LS112N	CMOS	SN54HC112J	TII		DIP	68- 31
13▼	74LS112N	CMOS	TC74HC112F(A)	TOSA	*	SO	73- 21
14▼	74LS112N	CMOS	TC74HC112P(A)	TOSA		DIP	73- 22
15♦	74LS112N	TTL	DM74S112N	NSC		DIP	74- 29
16▼	74LS112N	TTL	HD74LS112G	HITJ		DIP	71- 48
17♦	74LS112N	TTL	HD74LS112P	HITJ		DIP	70- 41
18♦	74LS112N	TTL	MB74LS112A	FCAJ		DIP	70- 57
19♦	74LS112N	TTL	MB74LS112AM	FCAJ		DIP	70- 58
20♦	74LS112N	TTL	MC54F112J	MOTA		DIP	74- 61
21▼	74LS112N	TTL	MC54F112N	MOTA		DIP	74- 62
22♦	74LS112N	TTL	MC74F112J	MOTA		DIP	74- 65
23♦	74LS112N	TTL	MC74F112N	MOTA		DIP	74- 66
24♦	74LS112N	TTL	M74ALS112AP	MITA		DIP	70- 46
25♦	74LS112N	TTL	M74ALS112AP	MITJ		DIP	70- 46
26♦	74LS112N	TTL	M74LS112AP	MITA		DIP	72- 24
27♦	74LS112N	TTL	M74LS112AP	MITJ		DIP	72- 24
28	74LS112N	TTL	N74LS112D	MULB	*	SO	70- 91
29	74LS112N	TTL	N74LS112D	PHIN	*	SO	70- 91
30	74LS112N	TTL	N74LS112D	RTCF	*	SO	70- 91
31	74LS112N	TTL	N74LS112D	SIC	*	SO	70- 91
32	74LS112N	TTL	N74LS112D	VALG	*	SO	70- 91
33♦	74LS112N	TTL	N74LS112F	MULB		DIP	70- 92
34♦	74LS112N	TTL	N74LS112F	PHIN		DIP	70- 92
35♦	74LS112N	TTL	N74LS112F	RTCF		DIP	70- 92
36♦	74LS112N	TTL	N74LS112F	VALG		DIP	70- 92
37♦	74LS112N	TTL	N74LS112N	MULB		DIP	70- 93
38♦	74LS112N	TTL	N74LS112N	PHIN		DIP	70- 93
39♦	74LS112N	TTL	N74LS112N	RTCF		DIP	70- 93
40♦	74LS112N	TTL	N74LS112N	SIC		DIP	70- 93
41♦	74LS112N	TTL	N74LS112N	VALG		DIP	70- 93
42♦	74LS112N	TTL	N74S112D	MULB		DIP	73- 76
43♦	74LS112N	TTL	N74S112D	PHIN		DIP	73- 76
44♦	74LS112N	TTL	N74S112D	RTCF		DIP	73- 76
45♦	74LS112N	TTL	N74S112D	SIC		DIP	73- 76
46♦	74LS112N	TTL	N74S112D	VALG		DIP	73- 76
47♦	74LS112N	TTL	N74S112N	MULB		DIP	73- 77
48♦	74LS112N	TTL	N74S112N	PHIN		DIP	73- 77
49♦	74LS112N	TTL	N74S112N	RTCF		DIP	73- 77
50♦	74LS112N	TTL	N74S112N	SIC		DIP	73- 77
51♦	74LS112N	TTL	N74S112N	VALG		DIP	73- 77
52♦	74LS112N	TTL	SN54ALS112AJ	TII		DIP	69- 98
53♦	74LS112N	TTL	SN54LS112AJ	MOTA		DIP	72- 35
54▼	74LS112N	TTL	SN54LS112AN	MOTA		DIP	72- 36
55♦	74LS112N	TTL	SN54S112J	TII		DIP	74- 45
56▼	74LS112N	TTL	SN74ALS112AD	TII	*	SO	71- 17
57♦	74LS112N	TTL	SN74ALS112AN	TII		DIP	71- 18
58♦	74LS112N	TTL	SN74LS112AJ	MOTA		DIP	72- 54
59♦	74LS112N	TTL	SN74LS112AN	MOTA		DIP	72- 55
60♦	74LS112N	TTL	SN74LS112AN	TII		DIP	72- 55
61♦	74LS112N	TTL	SN74S112N	TII		DIP	74- 49
62♦	74LS112N	TTL	S54LS112F	MULB		DIP	71- 2
63♦	74LS112N	TTL	S54LS112F	PHIN		DIP	71- 2
64♦	74LS112N	TTL	S54LS112F	RTCF		DIP	71- 2
65♦	74LS112N	TTL	S54LS112F	SIC		DIP	71- 2
66♦	74LS112N	TTL	S54LS112F	VALG		DIP	71- 2
67	74LS112N	TTL	S54LS112G	MULB	*	LLCC	71- 3
68	74LS112N	TTL	S54LS112G	PHIN	*	LLCC	71- 3
69	74LS112N	TTL	S54LS112G	RTCF	*	LLCC	71- 3
70	74LS112N	TTL	S54LS112G	SIC	*	LLCC	71- 3
71	74LS112N	TTL	S54LS112G	VALG	*	LLCC	71- 3
72♦	74LS112N	TTL	S54S112F	MULB		DIP	73- 91
73♦	74LS112N	TTL	S54S112F	PHIN		DIP	73- 91
74♦	74LS112N	TTL	S54S112F	RTCF		DIP	73- 91
75♦	74LS112N	TTL	S54S112F	SIC		DIP	73- 91
76♦	74LS112N	TTL	S54S112F	VALG		DIP	73- 91
77♦	74LS112N	TTL	T54LS112D2	SGSI		DIP	67- 9
78♦	74LS112N	TTL	T74LS112B1	SGSI		DIP	67- 12
79♦	74LS112N	TTL	T74LS112D1	SGSI		DIP	67- 13
80♦	74LS112N	TTL	54LS112DM	FSC		DIP	71- 92
81♦	74LS112N	TTL	54S112DM	FSC		DIP	74- 4
82♦	74LS112N	TTL	74LS112DC	FSC		DIP	71- 98
83♦	74LS112N	TTL	74LS112PC	FSC		DIP	71- 99
84♦	74LS112N	TTL	74S112DC	FSC		DIP	74- 23
85	74LS112N	TTL	74S112PC	FSC			74- 24
86♦	74LS113	CMOS	MC54HC113J	MOTA		DIP	70- 69
87♦	74LS113	CMOS	MC74HC113J	MOTA		DIP	70- 80
88♦	74LS113	CMOS	MC74HC113N	MOTA		DIP	70- 81
89♦	74LS113	CMOS	M54HC113F1(A)	SGSI		DIP	73- 20
90♦	74LS113	CMOS	M74HC113B1(A)	SGSI		DIP	70- 13
91♦	74LS113	CMOS	M74HC113F1(A)	SGSI		DIP	70- 15
92♦	74LS113	TTL	DM54ALS113AJ	NSC		DIP	69- 38
93♦	74LS113	TTL	DM54AS113J(A)	NSC		DIP	74- 86
94♦	74LS113	TTL	DM54LS113AJ	NSC		DIP	71-107
95♦	74LS113	TTL	DM74ALS113AJ	NSC		DIP	70- 33
96♦	74LS113	TTL	DM74ALS113AN	NSC		DIP	70- 34
97♦	74LS113	TTL	DM74AS113J(A)	NSC		DIP	74- 90
98♦	74LS113	TTL	DM74AS113N(A)	NSC		DIP	74- 91
99♦	74LS113	TTL	DM74LS113AN	NSC		DIP	72- 4
100♦	74LS113	TTL	DN74LS113P1	MATJ		DIP	72- 16
101	74LS113	TTL	DN74LS113P4	MATJ	*	SO	72- 17
102♦	74LS113	TTL	N74F113D(A)	MULB	*	SO	74- 42
103♦	74LS113	TTL	N74F113D(A)	PHIN	*	SO	74- 42
104♦	74LS113	TTL	N74F113D(A)	RTCF	*	SO	74- 42
105♦	74LS113	TTL	N74F113D(A)	SIC	*	SO	74- 42
106♦	74LS113	TTL	N74F113D(A)	VALG	*	SO	74- 42
107♦	74LS113	TTL	N74F113N(A)	MULB		DIP	74- 43
108♦	74LS113	TTL	N74F113N(A)	PHIN		DIP	74- 43
109♦	74LS113	TTL	N74F113N(A)	RTCF		DIP	74- 43
110♦	74LS113	TTL	N74F113N(A)	SIC		DIP	74- 43
111♦	74LS113	TTL	N74F113N(A)	VALG		DIP	74- 43
112	74LS113	TTL	SN74LS113AD	TII	*	SO	72- 56
113	74LS113	TTL	SN74S113D	TII	*	SO	74- 50
114♦	74LS113	TTL	54F113DM	FSC		DIP	73-110
115♦	74LS113	TTL	74F113DC	FSC		DIP	74- 13
116♦	74LS113	TTL	74F113PC	FSC		DIP	74- 15
117▼	74LS113N	CMOS	HD74HC113FP	HITJ	*	SO	69- 19
118▼	74LS113N	CMOS	HD74HC113P	HITJ		DIP	69- 20
119♦	74LS113N	CMOS	MM54HC113J	NSC		DIP	68- 60
120♦	74LS113N	CMOS	MM74HC113J	NSC		DIP	69- 31
121♦	74LS113N	CMOS	MM74HC113N	NSC		DIP	69- 32
122♦	74LS113N	CMOS	SN54HC113J	TII		DIP	68-102
123▼	74LS113N	CMOS	SN74HC113D	TII	*	SO	69-109
124♦	74LS113N	CMOS	SN74HC113N	TII		DIP	69-110
125▼	74LS113N	CMOS	TC74HC113F(A)	TOSA	*	SO	73- 53
126▼	74LS113N	CMOS	TC74HC113P(A)	TOSA		DIP	73- 54
127♦	74LS113N	TTL	DM74S113N	NSC		DIP	74- 30
128▼	74LS113N	TTL	HD74LS113G	HITJ		DIP	70- 42
129♦	74LS113N	TTL	HD74LS113P	HITJ		DIP	70- 43
130♦	74LS113N	TTL	MB74LS113A	FCAJ		DIP	70- 59
131♦	74LS113N	TTL	MB74LS113AM	FCAJ		DIP	70- 60
132▼	74LS113N	TTL	MC3062L	MOTA		DIP	72- 91
133▼	74LS113N	TTL	MC3062P	MOTA		DIP	72- 92
134♦	74LS113N	TTL	MC3162L	MOTA		DIP	72- 96
135♦	74LS113N	TTL	MC54F113J	MOTA		DIP	74- 63
136▼	74LS113N	TTL	MC54F113N	MOTA		DIP	74- 64
137♦	74LS113N	TTL	M74ALS113AP	MITA		DIP	71- 44
138♦	74LS113N	TTL	M74ALS113AP	MITJ		DIP	71- 44
139♦	74LS113N	TTL	M74LS113AP	MITA		DIP	72- 25
140♦	74LS113N	TTL	M74LS113AP	MITJ		DIP	72- 25
141♦	74LS113N	TTL	N74LS113F	MULB		DIP	70- 94
142♦	74LS113N	TTL	N74LS113F	PHIN		DIP	70- 94
143♦	74LS113N	TTL	N74LS113F	RTCF		DIP	70- 94
144♦	74LS113N	TTL	N74LS113F	VALG		DIP	70- 94
145♦	74LS113N	TTL	N74LS113N	MULB		DIP	70- 95
146♦	74LS113N	TTL	N74LS113N	PHIN		DIP	70- 95
147♦	74LS113N	TTL	N74LS113N	RTCF		DIP	70- 95
148♦	74LS113N	TTL	N74LS113N	SIC		DIP	70- 95
149♦	74LS113N	TTL	N74LS113N	VALG		DIP	70- 95
150♦	74LS113N	TTL	N74S113F	MULB		DIP	73- 78
151♦	74LS113N	TTL	N74S113F	PHIN		DIP	73- 78
152♦	74LS113N	TTL	N74S113F	VALG		DIP	73- 78
153♦	74LS113N	TTL	N74S113N	MULB		DIP	73- 79
154♦	74LS113N	TTL	N74S113N	PHIN		DIP	73- 79
155♦	74LS113N	TTL	N74S113N	RTCF		DIP	73- 79
156♦	74LS113N	TTL	N74S113N	SIC		DIP	73- 79
157♦	74LS113N	TTL	N74S113N	VALG		DIP	73- 79
158♦	74LS113N	TTL	SN54ALS113AJ	TII		DIP	69- 99
159♦	74LS113N	TTL	SN54LS113AJ	MOTA		DIP	72- 37
160▼	74LS113N	TTL	SN54LS113AN	MOTA		DIP	72- 38
161♦	74LS113N	TTL	SN54S113J	TII		DIP	74- 46
162▼	74LS113N	TTL	SN74ALS113AD	TII	*	SO	71- 19
163♦	74LS113N	TTL	SN74ALS113AN	TII		DIP	71- 20
164♦	74LS113N	TTL	SN74LS113AJ	MOTA		DIP	72- 57
165♦	74LS113N	TTL	SN74LS113AN	MOTA		DIP	72- 58
166♦	74LS113N	TTL	SN74LS113AN	TII		DIP	72- 58
167♦	74LS113N	TTL	SN74S113N	TII		DIP	74- 51
168♦	74LS113N	TTL	S54LS113F	MULB		DIP	71- 5
169♦	74LS113N	TTL	S54LS113F	PHIN		DIP	71- 5
170♦	74LS113N	TTL	S54LS113F	RTCF		DIP	71- 5
171♦	74LS113N	TTL	S54LS113F	SIC		DIP	71- 5
172♦	74LS113N	TTL	S54LS113F	VALG		DIP	71- 5
173♦	74LS113N	TTL	S54S113F	MULB		DIP	73- 93
174♦	74LS113N	TTL	S54S113F	PHIN		DIP	73- 93
175♦	74LS113N	TTL	S54S113F	RTCF		DIP	73- 93
176♦	74LS113N	TTL	S54S113F	SIC		DIP	73- 93
177♦	74LS113N	TTL	S54S113F	VALG		DIP	73- 93
178♦	74LS113N	TTL	T54LS113D2	SGSI		DIP	72- 62
179♦	74LS113N	TTL	T74LS113B1	SGSI		DIP	72- 64
180♦	74LS113N	TTL	T74LS113D1	SGSI		DIP	72- 65
181♦	74LS113N	TTL	74LS113PC	FSC		DIP	71-100
182♦	74LS113N	TTL	74S113PC	FSC		DIP	74- 25
183♦	74S113N	TTL	MC74F113J	MOTA		DIP	74- 67
184♦	74S113N	TTL	MC74F113N	MOTA		DIP	74- 68
185♦	74LS114	TTL	DM54ALS114AJ	NSC		DIP	69- 39
186♦	74LS114	TTL	DM54AS114J(A)	NSC		DIP	74- 87
187♦	74LS114	TTL	DM54LS114AJ	NSC		DIP	71-108
188♦	74LS114	TTL	DM74ALS114AJ	NSC		DIP	70- 35
189♦	74LS114	TTL	DM74ALS114AN	NSC		DIP	70- 36
190♦	74LS114	TTL	DM74AS114J(A)	NSC		DIP	74- 92
191♦	74LS114	TTL	DM74AS114N(A)	NSC		DIP	74- 93
192♦	74LS114	TTL	DM74LS114AN	NSC		DIP	72- 5
193♦	74LS114	TTL	DN74LS114P1	MATJ		DIP	72- 18
194	74LS114	TTL	DN74LS114P4	MATJ	*	SO	72- 19
195♦	74LS114	TTL	N74F114D(A)	MULB	*	SO	74- 44
196♦	74LS114	TTL	N74F114D(A)	PHIN	*	SO	74- 44
197♦	74LS114	TTL	N74F114D(A)	RTCF	*	SO	74- 44
198♦	74LS114	TTL	N74F114D(A)	SIC	*	SO	74- 44
199♦	74LS114	TTL	N74F114D(A)	VALG	*	SO	74- 44
200♦	74LS114	TTL	N74F114N(A)	MULB		DIP	73- 98
201♦	74LS114	TTL	N74F114N(A)	PHIN		DIP	73- 98
202♦	74LS114	TTL	N74F114N(A)	RTCF		DIP	73- 98
203♦	74LS114	TTL	N74F114N(A)	SIC		DIP	73- 98
204♦	74LS114	TTL	N74F114N(A)	VALG		DIP	73- 98
205	74LS114	TTL	SN74LS114AD	TII	*	SO	72- 59
206	74LS114	TTL	SN74S114D	TII	*	SO	74- 52
207♦	74LS114	TTL	54F114DM	FSC		DIP	74- 2
208♦	74LS114	TTL	74F114DC	FSC		DIP	74- 18
209♦	74LS114	TTL	74F114PC	FSC		DIP	74- 20
210▼	74LS114N	CMOS	HD74HC114FP	HITJ	*	SO	69- 21
211▼	74LS114N	CMOS	HD74HC114P	HITJ		DIP	69- 22
212♦	74LS114N	CMOS	SN54HC114J	TII		DIP	68- 32
213▼	74LS114N	CMOS	SN74HC114D	TII	*	SO	68- 33
214♦	74LS114N	CMOS	SN74HC114N	TII		DIP	68- 34
215♦	74LS114N	TTL	DM74S114N	NSC		DIP	74- 31
216▼	74LS114N	TTL	HD74LS114G	HITJ		DIP	70- 44
217♦	74LS114N	TTL	HD74LS114P	HITJ		DIP	70- 45
218♦	74LS114N	TTL	MB74LS114A	FCAJ		DIP	70- 61
219♦	74LS114N	TTL	MB74LS114AM	FCAJ		DIP	70- 62
220♦	74LS114N	TTL	MC54F114J	MOTA		DIP	73-103

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1▼	74LS114N	TTL	MC54F114N	MOTA		DIP	73-104
2♦	74LS114N	TTL	MC74F114J	MOTA		DIP	73-105
3♦	74LS114N	TTL	MC74F114N	MOTA		DIP	73-106
4♦	74LS114N	TTL	M74ALS114AP	MITA		DIP	71- 45
5♦	74LS114N	TTL	M74ALS114AP	MITJ		DIP	71- 45
6♦	74LS114N	TTL	M74LS114AP	MITA		DIP	72- 26
7♦	74LS114N	TTL	M74LS114AP	MITJ		DIP	72- 26
8♦	74LS114N	TTL	N74LS114F	MULB		DIP	70- 96
9♦	74LS114N	TTL	N74LS114F	PHIN		DIP	70- 96
10♦	74LS114N	TTL	N74LS114F	VALG		DIP	70- 96
11♦	74LS114N	TTL	N74LS114N	MULB		DIP	70- 97
12♦	74LS114N	TTL	N74LS114N	PHIN		DIP	70- 97
13♦	74LS114N	TTL	N74LS114N	VALG		DIP	70- 97
14♦	74LS114N	TTL	N74S114F	MULB		DIP	73- 80
15♦	74LS114N	TTL	N74S114F	PHIN		DIP	73- 80
16♦	74LS114N	TTL	N74S114F	VALG		DIP	73- 80
17♦	74LS114N	TTL	N74S114N	MULB		DIP	73- 81
18♦	74LS114N	TTL	N74S114N	PHIN		DIP	73- 81
19♦	74LS114N	TTL	N74S114N	VALG		DIP	73- 81
20♦	74LS114N	TTL	SN54ALS114AJ	TII		DIP	69-100
21♦	74LS114N	TTL	SN54LS114AJ	MOTA		DIP	72- 39
22▼	74LS114N	TTL	SN54LS114AN	MOTA		DIP	72- 40
23♦	74LS114N	TTL	SN54S114J	TII		DIP	74- 47
24▼	74LS114N	TTL	SN74ALS114AD	TII	*	SO	71- 21
25♦	74LS114N	TTL	SN74ALS114AN	TII		DIP	71- 22
26♦	74LS114N	TTL	SN74LS114AJ	MOTA		DIP	72- 60
27♦	74LS114N	TTL	SN74LS114AN	MOTA		DIP	72- 61
28♦	74LS114N	TTL	SN74LS114AN	TII		DIP	72- 61
29♦	74LS114N	TTL	SN74S114N	TII		DIP	74- 53
30♦	74LS114N	TTL	S54LS114F	MULB		DIP	71- 7
31♦	74LS114N	TTL	S54LS114F	PHIN		DIP	71- 7
32♦	74LS114N	TTL	S54LS114F	VALG		DIP	71- 7
33♦	74LS114N	TTL	S54S114F	MULB		DIP	73- 94
34♦	74LS114N	TTL	S54S114F	PHIN		DIP	73- 94
35♦	74LS114N	TTL	S54S114F	VALG		DIP	73- 94
36♦	74LS114N	TTL	T54LS114D2	SGSI		DIP	72- 63
37♦	74LS114N	TTL	T74LS114B1	SGSI		DIP	72- 66
38♦	74LS114N	TTL	T74LS114D1	SGSI		DIP	72- 67
39♦	74LS114N	TTL	74LS114PC	FSC		DIP	71-101
40♦	74-116N	TTL	N74116F	MULB		DIP	231- 40
41♦	74-116N	TTL	N74116F	PHIN		DIP	231- 40
42♦	74-116N	TTL	N74116F	VALG		DIP	231- 40
43♦	74-116N	TTL	N74116N	MULB		DIP	230-100
44♦	74-116N	TTL	N74116N	PHIN		DIP	230-100
45♦	74-116N	TTL	N74116N	RTCF		DIP	230-100
46♦	74-116N	TTL	N74116N	SIC		DIP	230-100
47♦	74-116N	TTL	N74116N	VALG		DIP	230-100
48♦	74-116N	TTL	N9308F	MULB		DIP	231-100
49♦	74-116N	TTL	N9308F	PHIN		DIP	231-100
50♦	74-116N	TTL	N9308F	VALG		DIP	231-100
51♦	74-116N	TTL	N9308N	MULB		DIP	231-101
52♦	74-116N	TTL	N9308N	PHIN		DIP	231-101
53♦	74-116N	TTL	N9308N	VALG		DIP	231-101
54♦	74-116N	TTL	SN54116J	TII		DIP	231- 66
55♦	74-116N	TTL	S54116F	MULB		DIP	230-101
56♦	74-116N	TTL	S54116F	PHIN		DIP	230-101
57♦	74-116N	TTL	S54116F	RTCF		DIP	230-101
58♦	74-116N	TTL	S54116F	SIC		DIP	230-101
59♦	74-116N	TTL	S54116F	VALG		DIP	230-101
60♦	74-116N	TTL	S9308F	MULB		DIP	231- 45
61♦	74-116N	TTL	S9308F	PHIN		DIP	231- 45
62♦	74-116N	TTL	S9308F	VALG		DIP	231- 45
63♦	74-116N	TTL	93L08DC	FSC		DIP	231- 74
64♦	74-116N	TTL	93L08DM	FSC		DIP	231- 75
65♦	74-116N	TTL	93L08PC	FSC		DIP	231- 77
66♦	74-116N	TTL	9308DC	FSC		DIP	230- 69
67♦	74-116N	TTL	9308DM	FSC		DIP	230- 70
68♦	74-116N	TTL	9308PC	FSC		DIP	230- 72
69▼	74H119P	TTL	MC3061L	MOTA		DIP	72- 89
70▼	74H119P	TTL	MC3061P	MOTA		DIP	72- 90
71♦	74H119P	TTL	MC3161F	MOTA	*	FP	72- 93
72♦	74H119P	TTL	MC3161L	MOTA		DIP	72- 94
73♦	74-121	TTL	DM54121J	NSC		DIP	188- 60
74♦	74-121	TTL	DM74121J	NSC		DIP	188- 62
75♦	74-121	TTL	DM74121N	NSC		DIP	188- 63
76♦	74-121	TTL	FJK101-74121	PHIN		DIP	188- 64
77♦	74-121	TTL	M53321P	MITJ		DIP	188- 70
78	74-121	TTL	N74121D	MULB	*	SO	188- 88
79	74-121	TTL	N74121D	PHIN	*	SO	188- 88
80	74-121	TTL	N74121D	RTCF	*	SO	188- 88
81	74-121	TTL	N74121D	SIC	*	SO	188- 88
82	74-121	TTL	N74121D	VALG	*	SO	188- 88
83♦	74-121	TTL	N74121F	MULB		DIP	188- 89
84♦	74-121	TTL	N74121F	PHIN		DIP	188- 89
85♦	74-121	TTL	N74121F	VALG		DIP	188- 89
86♦	74-121	TTL	N74121N	MULB		DIP	188- 90
87♦	74-121	TTL	N74121N	PHIN		DIP	188- 90
88♦	74-121	TTL	N74121N	RTCF		DIP	188- 90
89♦	74-121	TTL	N74121N	SIC		DIP	188- 90
90♦	74-121	TTL	N74121N	VALG		DIP	188- 90
91♦	74-121	TTL	SFC4121E	THEF		DIP	188-105
92♦	74-121	TTL	SFC4121EM	THEF		DIP	188-106
93♦	74-121	TTL	SFC4121ET	THEF		DIP	188-107
94♦	74-121	TTL	SN54121J	TII		DIP	189- 9
95♦	74-121	TTL	SN74121N	TII		DIP	189- 11
96♦	74-121	TTL	S54121F	MULB		DIP	188- 98
97♦	74-121	TTL	S54121F	PHIN		DIP	188- 98
98♦	74-121	TTL	S54121F	RTCF		DIP	188- 98
99♦	74-121	TTL	S54121F	SIC		DIP	188- 98
100♦	74-121	TTL	S54121F	VALG		DIP	188- 98
101♦	74-121	TTL	54121DM	FSC		DIP	188- 46
102♦	74-121	TTL	74121DC	FSC		DIP	188- 50
103♦	74-121	TTL	74121PC	FSC		DIP	188- 51
104▼	74-122	TTL	HD74LS122G	HITJ		DIP	188- 67
105♦	74-122	TTL	HD74LS122P	HITJ		DIP	188- 68
106♦	74-122	TTL	MB74LS122	FCAJ		DIP	188- 72
107♦	74-122	TTL	MB74LS122M	FCAJ		DIP	188- 73
108♦	74-122	TTL	M53322P	MITJ		DIP	188- 71
109♦	74-122	TTL	M74LS122P	MITA		DIP	188- 69
110♦	74-122	TTL	M74LS122P	MITJ		DIP	188- 69
111♦	74-122	TTL	N74122F	MULB		DIP	188- 92
112♦	74-122	TTL	N74122F	PHIN		DIP	188- 92
113♦	74-122	TTL	N74122F	VALG		DIP	188- 92
114♦	74-122	TTL	N74122N	MULB		DIP	188- 93
115♦	74-122	TTL	N74122N	PHIN		DIP	188- 93
116♦	74-122	TTL	N74122N	VALG		DIP	188- 93
117♦	74-122	TTL	N8T22A	MULB		DIP	188- 85
118♦	74-122	TTL	N8T22A	PHIN		DIP	188- 85
119♦	74-122	TTL	N8T22F	MULB		DIP	188- 86
120♦	74-122	TTL	N8T22F	PHIN		DIP	188- 86
121♦	74-122	TTL	N8T22F	VALG		DIP	188- 86
122♦	74-122	TTL	N8T22N	MULB		DIP	188- 87
123♦	74-122	TTL	N8T22N	PHIN		DIP	188- 87
124♦	74-122	TTL	N8T22N	RTCF		DIP	188- 87
125♦	74-122	TTL	N8T22N	SIC		DIP	188- 87
126♦	74-122	TTL	N8T22N	VALG		DIP	188- 87
127♦	74-122	TTL	SFC4122E	THEF		DIP	188-109
128♦	74-122	TTL	SFC4122EM	THEF		DIP	188-110
129♦	74-122	TTL	SFC4122ET	THEF		DIP	189- 1
130♦	74-122	TTL	SFC4122PM	THEF	*	FP	189- 2
131♦	74-122	TTL	SN54LS122J	MOTA		DIP	189- 3
132♦	74-122	TTL	SN54LS122J	TII		DIP	189- 3
133▼	74-122	TTL	SN54LS122N	MOTA		DIP	189- 4
134♦	74-122	TTL	SN54122J	TII		DIP	189- 10
135	74-122	TTL	SN74LS122D	TII	*	SO	189- 5
136♦	74-122	TTL	SN74LS122J	MOTA		DIP	189- 6
137♦	74-122	TTL	SN74LS122N	MOTA		DIP	189- 7
138♦	74-122	TTL	SN74LS122N	TII		DIP	189- 7
139♦	74-122	TTL	SN74122N	TII		DIP	189- 12
140♦	74-122	TTL	S54122F	MULB		DIP	188-101
141♦	74-122	TTL	S54122F	PHIN		DIP	188-101
142♦	74-122	TTL	S54122F	SIC		DIP	188-101
143♦	74-122	TTL	S54122F	VALG		DIP	188-101
144♦	74-122	TTL	S8T22F	MULB		DIP	188- 96
145♦	74-122	TTL	S8T22F	PHIN		DIP	188- 96
146♦	74-122	TTL	S8T22F	SIC		DIP	188- 96
147♦	74-122	TTL	S8T22F	VALG		DIP	188- 96
148♦	74-122	TTL	S8T22N	MULB		DIP	188- 97
149♦	74-122	TTL	S8T22N	PHIN		DIP	188- 97
150♦	74-122	TTL	S8T22N	VALG		DIP	188- 97
151♦	74-122	TTL	54122DM	FSC		DIP	188- 48
152♦	74-122	TTL	74122DC	FSC		DIP	188- 52
153♦	74-122	TTL	74122PC	FSC		DIP	188- 53
154	74-123	CMOS	CD54HCT123F	RCA		DIP	189- 70
155	74-123	CMOS	CD54HCT423F(A)	RCA		DIP	189- 72
156	74-123	CMOS	CD54HC123F	RCA		DIP	189- 66
157	74-123	CMOS	CD54HC423F(A)	RCA		DIP	189- 68
158♦	74-123	CMOS	CD74HCT123E	RCA		DIP	189- 82
159	74-123	CMOS	CD74HCT423E(A)	RCA		DIP	189- 86
160♦	74-123	CMOS	CD74HC123E	RCA		DIP	189- 74
161	74-123	CMOS	CD74HC423E(A)	RCA		DIP	189- 78
162♦	74-123	CMOS	HD74HC123	HITJ		DIP	190- 8
163▼	74-123	CMOS	HD74HC123AFP	HITJ	*	SO	188- 27
164▼	74-123	CMOS	HD74HC123AP	HITJ		DIP	188- 28
165♦	74-123	CMOS	MM74HC123J	NSC		DIP	190- 92
166♦	74-123	CMOS	MM74HC123N	NSC		DIP	190- 93
167▼	74-123	CMOS	M74HC123B1	SGSI		DIP	190- 31
168▼	74-123	CMOS	M74HC123F1	SGSI		DIP	190- 33
169♦	74-123	CMOS	PC54HCT123D(A)	MULB		DIP	191- 8
170♦	74-123	CMOS	PC54HCT123D(A)	PHIN		DIP	191- 8
171♦	74-123	CMOS	PC54HCT123D(A)	RTCF		DIP	191- 8
172♦	74-123	CMOS	PC54HCT123D(A)	VALG		DIP	191- 8
173♦	74-123	CMOS	PC54HC123D(A)	MULB		DIP	191- 4
174♦	74-123	CMOS	PC54HC123D(A)	PHIN		DIP	191- 4
175♦	74-123	CMOS	PC54HC123D(A)	RTCF		DIP	191- 4
176♦	74-123	CMOS	PC54HC123D(A)	VALG		DIP	191- 4
177♦	74-123	CMOS	PC74HCT123D(A)	MULB		DIP	191- 24
178♦	74-123	CMOS	PC74HCT123D(A)	PHIN		DIP	191- 24
179♦	74-123	CMOS	PC74HCT123D(A)	RTCF		DIP	191- 24
180♦	74-123	CMOS	PC74HCT123D(A)	VALG		DIP	191- 24
181♦	74-123	CMOS	PC74HCT123P	MULB		DIP	191- 25
182♦	74-123	CMOS	PC74HCT123P	PHIN		DIP	191- 25
183♦	74-123	CMOS	PC74HCT123P	RTCF		DIP	191- 25
184♦	74-123	CMOS	PC74HCT123P	VALG		DIP	191- 25
185	74-123	CMOS	PC74HCT123T	MULB	*	SO	191- 26
186	74-123	CMOS	PC74HCT123T	PHIN	*	SO	191- 26
187	74-123	CMOS	PC74HCT123T	RTCF	*	SO	191- 26
188	74-123	CMOS	PC74HCT123T	VALG	*	SO	191- 26
189♦	74-123	CMOS	PC74HC123D(A)	MULB		DIP	191- 12
190♦	74-123	CMOS	PC74HC123D(A)	PHIN		DIP	191- 12
191♦	74-123	CMOS	PC74HC123D(A)	RTCF		DIP	191- 12
192♦	74-123	CMOS	PC74HC123D(A)	VALG		DIP	191- 12
193♦	74-123	CMOS	PC74HC123P	MULB		DIP	191- 13
194♦	74-123	CMOS	PC74HC123P	PHIN		DIP	191- 13
195♦	74-123	CMOS	PC74HC123P	RTCF		DIP	191- 13
196♦	74-123	CMOS	PC74HC123P	VALG		DIP	191- 13
197	74-123	CMOS	PC74HC123T	MULB	*	SO	191- 14
198	74-123	CMOS	PC74HC123T	PHIN	*	SO	191- 14
199	74-123	CMOS	PC74HC123T	RTCF	*	SO	191- 14
200	74-123	CMOS	PC74HC123T	VALG	*	SO	191- 14
201▼	74-123	CMOS	TC74HC123F(A)	TOSA	*	SO	191- 68
202▼	74-123	CMOS	TC74HC123P(A)	TOSA		DIP	191- 69
203	74-123	CMOS	74HCT123D	SIC	*	SO	189- 27
204♦	74-123	CMOS	74HC123N	SIC		DIP	189- 28
205	74-123	CMOS	74HC123D	SIC	*	SO	189- 19
206♦	74-123	CMOS	74HC123N	SIC		DIP	189- 20
207♦	74-123	TTL	DM74L123N	NSC		DIP	189- 96
208♦	74-123	TTL	DM74123N	NSC		DIP	189-110
209♦	74-123	TTL	DM7553J	NSC		DIP	189- 98
210♦	74-123	TTL	DM8853J	NSC		DIP	189-103
211♦	74-123	TTL	DM8853N	NSC		DIP	189-104
212♦	74-123	TTL	DN74LS123P2	MATJ		DIP	190- 1
213	74-123	TTL	DN74LS123P5	MATJ	*	SO	190- 2
214▼	74-123	TTL	HD74LS123G	HITJ		DIP	190- 13
215♦	74-123	TTL	HD74LS123P	HITJ		DIP	190- 14
216♦	74-123	TTL	MB440	FCAJ		DIP	190- 53
217♦	74-123	TTL	MB440M	FCAJ		DIP	190- 54
218♦	74-123	TTL	MB74LS123	FCAJ		DIP	190- 49
219♦	74-123	TTL	MB74LS123M	FCAJ		DIP	190- 50
220♦	74-123	TTL	M53323P	MITJ		DIP	190- 48

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG S M D	PKG TYPE	PAGE & LINE
1♦	74-123	TTL	M74LS123P	MITA		DIP	190- 43
2♦	74-123	TTL	M74LS123P	MITJ		DIP	190- 43
3♦	74-123	TTL	N74LS123AF	MULB		DIP	190-101
4♦	74-123	TTL	N74LS123AF	PHIN		DIP	190-101
5♦	74-123	TTL	N74LS123AF	VALG		DIP	190-101
6♦	74-123	TTL	N74LS123AN	MULB		DIP	190-102
7♦	74-123	TTL	N74LS123AN	PHIN		DIP	190-102
8♦	74-123	TTL	N74LS123AN	VALG		DIP	190-102
9	74-123	TTL	N74123D	MULB	*	SO	190-108
10	74-123	TTL	N74123D	PHIN	*	SO	190-108
11	74-123	TTL	N74123D	RTCF	*	SO	190-108
12	74-123	TTL	N74123D	SIC	*	SO	190-108
13	74-123	TTL	N74123D	VALG	*	SO	190-108
14♦	74-123	TTL	N74123F	MULB		DIP	190-109
15♦	74-123	TTL	N74123F	PHIN		DIP	190-109
16♦	74-123	TTL	N74123F	VALG		DIP	190-109
17♦	74-123	TTL	N74123N	MULB		DIP	190-110
18♦	74-123	TTL	N74123N	PHIN		DIP	190-110
19♦	74-123	TTL	N74123N	RTCF		DIP	190-110
20♦	74-123	TTL	N74123N	SIC		DIP	190-110
21♦	74-123	TTL	N74123N	VALG		DIP	190-110
22♦	74-123	TTL	SFC4123E	THEF		DIP	191- 49
23♦	74-123	TTL	SFC4123EM	THEF		DIP	191- 50
24♦	74-123	TTL	SFC4123ET	THEF		DIP	191- 51
25♦	74-123	TTL	SN54LS123J	MOTA		DIP	191- 52
26♦	74-123	TTL	SN54LS123J	TII		DIP	191- 52
27▼	74-123	TTL	SN54LS123N	MOTA		DIP	191- 53
28♦	74-123	TTL	SN54123J	TII		DIP	191- 64
29	74-123	TTL	SN74LS123D	TII	*	SO	191- 56
30♦	74-123	TTL	SN74LS123J	MOTA		DIP	191- 57
31♦	74-123	TTL	SN74LS123N	MOTA		DIP	191- 58
32♦	74-123	TTL	SN74LS123N	TII		DIP	191- 58
33♦	74-123	TTL	SN74123N	TII		DIP	191- 66
34♦	74-123	TTL	S54LS123AF	MULB		DIP	191- 36
35♦	74-123	TTL	S54LS123AF	PHIN		DIP	191- 36
36♦	74-123	TTL	S54LS123AF	SIC		DIP	191- 36
37♦	74-123	TTL	S54LS123AF	VALG		DIP	191- 36
38♦	74-123	TTL	S54123E	MULB		DIP	191- 43
39♦	74-123	TTL	S54123E	PHIN		DIP	191- 43
40♦	74-123	TTL	S54123F	MULB		DIP	191- 44
41♦	74-123	TTL	S54123F	PHIN		DIP	191- 44
42♦	74-123	TTL	S54123F	RTCF		DIP	191- 44
43♦	74-123	TTL	S54123F	SIC		DIP	191- 44
44♦	74-123	TTL	S54123F	VALG		DIP	191- 44
45♦	74-123	TTL	74123DC	FSC		DIP	189- 59
46	74-123	TTL	74123PC	FSC			189- 60
47♦	74LS123	CMOS	UPD74HC123AC(A)	NECJ		DIP	191- 77
48♦	74LS124	TTL	SN54S124J	TII		DIP	192- 12
49	74LS124	TTL	SN74S124D	TII	*	SO	192- 13
50♦	74LS124	TTL	SN74S124N	TII		DIP	192- 14
51♦	74LS132	TTL	DM54ALS132J(A)	NSC		DIP	98- 58
52♦	74LS132	TTL	DM74ALS132J	NSC		DIP	98- 60
53♦	74LS132	TTL	DM74ALS132N(A)	NSC		DIP	98- 61
54▼	74LS132N	TTL	HD74LS132	HITJ		DIP	99- 4
55▼	74LS132N	TTL	HD74LS273G	HITJ		DIP	60- 95
56▼	74LS132N	TTL	HD74LS273P	HITJ		DIP	60- 96
57♦	74-133	CMOS	MC54HC133J	MOTA		DIP	111- 47
58♦	74-133	CMOS	MC74HC133J	MOTA		DIP	111- 48
59♦	74-133	CMOS	MC74HC133N	MOTA		DIP	111- 49
60♦	74-133	CMOS	M54HC133F1(A)	SGSI		DIP	111- 81
61♦	74-133	CMOS	M74HC133B1(A)	SGSI		DIP	111- 82
62♦	74-133	CMOS	M74HC133F1(A)	SGSI		DIP	111- 84
63♦	74LS133	CMOS	UPD74HC133C(A)	NECJ		DIP	111- 74
64♦	74S133	TTL	DM54ALS133J	NSC		DIP	111- 79
65♦	74S133	TTL	DM74ALS133J	NSC		DIP	111- 75
66♦	74S133	TTL	DM74ALS133N	NSC		DIP	111- 76
67♦	74S133	TTL	SN74S133D	TII	*	SO	111- 61
68▼	74S133N	CMOS	HD74HC133FP	HITJ	*	SO	111- 65
69▼	74S133N	CMOS	HD74HC133P	HITJ		DIP	111- 66
70♦	74S133N	CMOS	MM54HC133J(A)	NSC		DIP	111- 67
71♦	74S133N	CMOS	MM74HC133J	NSC		DIP	111- 68
72♦	74S133N	CMOS	MM74HC133N(A)	NSC		DIP	111- 69
73♦	74S133N	CMOS	SN54HC133J	TII		DIP	111- 94
74▼	74S133N	CMOS	SN74HC133D	TII	*	SO	111- 88
75♦	74S133N	CMOS	SN74HC133N	TII		DIP	111- 89
76▼	74S133N	CMOS	TC74HC133F(A)	TOSA	*	SO	111- 92
77▼	74S133N	CMOS	TC74HC133P(A)	TOSA		DIP	111- 93
78♦	74S133N	CMOS	US74HCT133N(A)	UNV		DIP	111- 80
79♦	74S133N	TTL	M74LS133P	MITA		DIP	111- 85
80♦	74S133N	TTL	M74LS133P	MITJ		DIP	111- 85
81♦	74S133N	TTL	N74S133D	MULB	*	SO	111- 54
82♦	74S133N	TTL	N74S133D	PHIN	*	SO	111- 54
83♦	74S133N	TTL	N74S133D	RTCF	*	SO	111- 54
84♦	74S133N	TTL	N74S133D	SIC	*	SO	111- 54
85♦	74S133N	TTL	N74S133D	VALG	*	SO	111- 54
86♦	74S133N	TTL	N74S133F	MULB		DIP	111- 55
87♦	74S133N	TTL	N74S133F	PHIN		DIP	111- 55
88♦	74S133N	TTL	N74S133F	VALG		DIP	111- 55
89♦	74S133N	TTL	N74S133N	MULB		DIP	111- 56
90♦	74S133N	TTL	N74S133N	PHIN		DIP	111- 56
91♦	74S133N	TTL	N74S133N	RTCF		DIP	111- 56
92♦	74S133N	TTL	N74S133N	SIC		DIP	111- 56
93♦	74S133N	TTL	N74S133N	VALG		DIP	111- 56
94♦	74S133N	TTL	SN54ALS133J	TII		DIP	111- 95
95♦	74S133N	TTL	SN54LS133J	MOTA		DIP	111- 86
96▼	74S133N	TTL	SN54LS133N	MOTA		DIP	111- 87
97♦	74S133N	TTL	SN54S133J	TII		DIP	111- 60
98▼	74S133N	TTL	SN74ALS133D	TII	*	SO	111- 77
99♦	74S133N	TTL	SN74ALS133N	TII		DIP	111- 78
100♦	74S133N	TTL	SN74LS133J	MOTA		DIP	111- 90
101♦	74S133N	TTL	SN74LS133N	MOTA		DIP	111- 91
102♦	74S133N	TTL	SN74S133N	TII		DIP	111- 63
103♦	74S133N	TTL	S54S133F	MULB		DIP	111- 58
104♦	74S133N	TTL	S54S133F	PHIN		DIP	111- 58
105♦	74S133N	TTL	S54S133F	RTCF		DIP	111- 58
106♦	74S133N	TTL	S54S133F	SIC		DIP	111- 58
107♦	74S133N	TTL	S54S133F	VALG		DIP	111- 58
108♦	74S133N	TTL	54LS133DM	FSC		DIP	111- 70
109♦	74S133N	TTL	54S133DM	FSC		DIP	111- 50
110♦	74S133N	TTL	74LS133DC	FSC		DIP	111- 72
111♦	74S133N	TTL	74LS133PC	FSC		DIP	111- 73
112♦	74S133N	TTL	74S133DC	FSC		DIP	111- 52
113♦	74S133N	TTL	74S133PC	FSC			111- 53
114♦	74S134	TTL	SN74S134D	TII	*	SO	111- 44
115♦	74S134N	TTL	N74S134D	MULB	*	SO	111- 38
116♦	74S134N	TTL	N74S134D	PHIN	*	SO	111- 38
117♦	74S134N	TTL	N74S134D	RTCF	*	SO	111- 38
118♦	74S134N	TTL	N74S134D	SIC	*	SO	111- 38
119♦	74S134N	TTL	N74S134D	VALG	*	SO	111- 38
120♦	74S134N	TTL	N74S134F	MULB		DIP	111- 39
121♦	74S134N	TTL	N74S134F	PHIN		DIP	111- 39
122♦	74S134N	TTL	N74S134F	VALG		DIP	111- 39
123♦	74S134N	TTL	N74S134N	MULB		DIP	111- 40
124♦	74S134N	TTL	N74S134N	PHIN		DIP	111- 40
125♦	74S134N	TTL	N74S134N	RTCF		DIP	111- 40
126♦	74S134N	TTL	N74S134N	SIC		DIP	111- 40
127♦	74S134N	TTL	N74S134N	VALG		DIP	111- 40
128♦	74S134N	TTL	SN54S134J	TII		DIP	111- 43
129♦	74S134N	TTL	SN74S134N	TII		DIP	111- 45
130♦	74S134N	TTL	S54S134F	MULB		DIP	111- 42
131♦	74S134N	TTL	S54S134F	PHIN		DIP	111- 42
132♦	74S134N	TTL	S54S134F	SIC		DIP	111- 42
133♦	74S134N	TTL	S54S134F	VALG		DIP	111- 42
134♦	74S135	TTL	SN74S135D	TII	*	SO	94-109
135♦	74S135N	TTL	DM74S135N	NSC		DIP	94- 81
136♦	74S135N	TTL	N74S135F	MULB		DIP	95- 1
137♦	74S135N	TTL	N74S135F	PHIN		DIP	95- 1
138♦	74S135N	TTL	N74S135F	VALG		DIP	95- 1
139♦	74S135N	TTL	N74S135N	MULB		DIP	95- 2
140♦	74S135N	TTL	N74S135N	PHIN		DIP	95- 2
141♦	74S135N	TTL	N74S135N	RTCF		DIP	95- 2
142♦	74S135N	TTL	N74S135N	SIC		DIP	95- 2
143♦	74S135N	TTL	N74S135N	VALG		DIP	95- 2
144♦	74S135N	TTL	SN74S135N	TII		DIP	94-110
145♦	74S135N	TTL	S54S135F	MULB		DIP	94- 82
146♦	74S135N	TTL	S54S135F	PHIN		DIP	94- 82
147♦	74S135N	TTL	S54S135F	RTCF		DIP	94- 82
148♦	74S135N	TTL	S54S135F	SIC		DIP	94- 82
149♦	74S135N	TTL	S54S135F	VALG		DIP	94- 82
150♦	74S135N	TTL	74S135PC	FSC			95- 4
151♦	74-136	TTL	DM54ALS136J	NSC		DIP	91- 84
152♦	74-136	TTL	DM54AS136J(A)	NSC		DIP	91- 86
153♦	74-136	TTL	DM54LS136J	NSC		DIP	91- 89
154♦	74-136	TTL	DM74ALS136N	NSC		DIP	91- 92
155♦	74-136	TTL	DM74AS136J	NSC		DIP	91- 95
156♦	74-136	TTL	DM74AS136N(A)	NSC		DIP	91- 96
157♦	74-136	TTL	DM74LS136N	NSC		DIP	91- 99
158♦	74-136	TTL	DN74LS136P1	MATJ		DIP	91-102
159♦	74-136	TTL	DN74LS136P4	MATJ	*	SO	91-103
160♦	74-136	TTL	SN74LS136D	TII	*	SO	92- 83
161▼	74-136N	TTL	HD74LS136G	HITJ		DIP	93- 87
162♦	74-136N	TTL	HD74LS136P	HITJ		DIP	93- 88
163♦	74-136N	TTL	MB74LS136	FCAJ		DIP	92- 21
164♦	74-136N	TTL	MB74LS136M	FCAJ		DIP	92- 22
165♦	74-136N	TTL	M74LS136P	MITA		DIP	92- 18
166♦	74-136N	TTL	M74LS136P	MITJ		DIP	92- 18
167♦	74-136N	TTL	N74LS136F	MULB		DIP	92- 58
168♦	74-136N	TTL	N74LS136F	PHIN		DIP	92- 58
169♦	74-136N	TTL	N74LS136F	RTCF		DIP	92- 58
170♦	74-136N	TTL	N74LS136F	VALG		DIP	92- 58
171♦	74-136N	TTL	N74LS136N	MULB		DIP	92- 59
172♦	74-136N	TTL	N74LS136N	PHIN		DIP	92- 59
173♦	74-136N	TTL	N74LS136N	RTCF		DIP	92- 59
174♦	74-136N	TTL	N74LS136N	SIC		DIP	92- 59
175♦	74-136N	TTL	N74LS136N	VALG		DIP	92- 59
176♦	74-136N	TTL	SN54LS136J	MOTA		DIP	92- 78
177♦	74-136N	TTL	SN54LS136J	TII		DIP	92- 78
178♦	74-136N	TTL	SN54136J	TII		DIP	92- 89
179▼	74-136N	TTL	SN74ALS136D	TII	*	SO	94- 22
180♦	74-136N	TTL	SN74ALS136N	TII		DIP	94- 23
181♦	74-136N	TTL	SN74LS136J	MOTA		DIP	92- 84
182♦	74-136N	TTL	SN74LS136N	MOTA		DIP	92- 85
183♦	74-136N	TTL	SN74LS136N	TII		DIP	92- 85
184♦	74-136N	TTL	SN74136N	TII		DIP	92- 90
185♦	74-136N	TTL	S54LS136F	MULB		DIP	92- 70
186♦	74-136N	TTL	S54LS136F	PHIN		DIP	92- 70
187♦	74-136N	TTL	S54LS136F	SIC		DIP	92- 70
188♦	74-136N	TTL	S54LS136F	VALG		DIP	92- 70
189♦	74-136N	TTL	T54LS136D2	SGSI		DIP	92- 91
190♦	74-136N	TTL	T74LS136B1	SGSI		DIP	92- 92
191♦	74-136N	TTL	T74LS136D1	SGSI		DIP	92- 93
192♦	74-136N	TTL	54LS136DM	FSC		DIP	91- 42
193♦	74-136N	TTL	74LS136DC	FSC		DIP	91- 46
194♦	74-136N	TTL	74LS136PC	FSC		DIP	91- 47
195♦	74S138	CMOS	M74HC138P	MITJ		DIP	125- 17
196♦	74S138N	CMOS	MC54HC138J(2A)	MOTA		DIP	125- 26
197♦	74S138N	SCH	MC54F138J(2A)	MOTA		DIP	125- 25
198♦	74S138N	SCH	MC74F138J(2A)	MOTA		DIP	125- 27
199♦	74S138N	SCH	MC74F138N(2A)	MOTA		DIP	125- 28
200♦	74S138N	TTL	D3205	ITL		DIP	125- 13
201♦	74S138N	TTL	N74S138F(2)	MULB		DIP	125- 32
202♦	74S138N	TTL	N74S138N(2)	MULB		DIP	125- 33
203♦	74S138N	TTL	P3205	ITL		DIP	125- 40
204♦	74S138N	TTL	SN74S138J(2)	AMD		DIP	125- 49
205♦	74S138N	TTL	SN74S138N(2)	AMD		DIP	125- 50
206♦	74S138N	TTL	SN74S138N(2)	TII		DIP	125- 50
207♦	74S138N	TTL	S54LS138F(2)	MULB		DIP	125- 41
208♦	74S138N	TTL	S54S138F(2)	MULB		DIP	125- 43
209	74S139N	CMOS	BCL4556B	SSS		DIP	126- 9
210	74S139N	CMOS	883C4556B	SSS		DIP	126- 8
211♦	74-154N	CMOS	CD54HCT154F(2)	RCA		DIP	125- 72
212♦	74-154N	TTL	DM54L154AJ	NSC		DIP	125- 85
213♦	74-154N	TTL	DM74L154AN	NSC		DIP	125- 86
214♦	74-154N	TTL	M53354P(2)	MITJ		DIP	125- 18
215♦	74-154N	TTL	SFC4154E(2)	THEF		DIP	125- 99
216♦	74-154N	TTL	SFC4154EM(2)	THEF		DIP	125-100
217♦	74-154N	TTL	SFC4154ET(2)	THEF		DIP	125-101
218	74-154N	TTL	SN54154J(2)	TII		DIP	125-105
219♦	74-154N	TTL	SN74154N(2)	TII		DIP	125-106
220♦	74-154N	TTL	54154DM(2)	FSC		DIP	125- 67

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-154N	TTL	74154DC(2)	FSC		DIP	125- 69
2♦	74-155N	CMOS	TC40H155P(2)	IMTM		DIP	126- 18
3♦	74-155N	CMOS	TC40H155P(2)	TOSJ		DIP	126- 18
4♦	74-155N	TTL	M53355P(2)	MITJ		DIP	125- 19
5♦	74-155N	TTL	SFC4155E(2)	THEF		DIP	125-102
6♦	74-155N	TTL	SFC4155EM(2)	THEF		DIP	125-103
7♦	74-155N	TTL	SFC4155ET(2)	THEF		DIP	125-104
8♦	74-155N	TTL	SN54155J(2)	TII		DIP	126- 20
9♦	74-155N	TTL	SN74155N(2)	TII		DIP	125- 51
10♦	74-156N	TTL	SN54156J(2)	TII		DIP	126- 21
11♦	74-156N	TTL	SN74156N(2)	TII		DIP	126- 22
12♦	74-156N	TTL	S54LS156F(2)	MULB		DIP	126- 14
13♦	74-160	CMOS	MM54C160D	NSC		DIP	172- 65
14♦	74-160	CMOS	M54HC160F1(A)	SGSI		DIP	176- 1
15♦	74-160	CMOS	M74HC160B1(A)	SGSI		DIP	174- 5
16♦	74-160	CMOS	M74HC160F1(A)	SGSI		DIP	174- 7
17♦	74-160	CMOS	PC54HCT160D(A)	MULB		DIP	175- 62
18♦	74-160	CMOS	PC54HCT160D(A)	PHIN		DIP	175- 62
19♦	74-160	CMOS	PC54HCT160D(A)	RTCF		DIP	175- 62
20♦	74-160	CMOS	PC54HCT160D(A)	VALG		DIP	175- 62
21♦	74-160	CMOS	PC54HC160D(A)	MULB		DIP	175- 60
22♦	74-160	CMOS	PC54HC160D(A)	PHIN		DIP	175- 60
23♦	74-160	CMOS	PC54HC160D(A)	RTCF		DIP	175- 60
24♦	74-160	CMOS	PC54HC160D(A)	VALG		DIP	175- 60
25♦	74-160	CMOS	PC74HCT160D(A)	MULB		DIP	175- 68
26♦	74-160	CMOS	PC74HCT160D(A)	PHIN		DIP	175- 68
27♦	74-160	CMOS	PC74HCT160D(A)	RTCF		DIP	175- 68
28♦	74-160	CMOS	PC74HCT160D(A)	VALG		DIP	175- 68
29♦	74-160	CMOS	PC74HCT160P	MULB		DIP	173- 43
30♦	74-160	CMOS	PC74HCT160P	PHIN		DIP	173- 43
31♦	74-160	CMOS	PC74HCT160P	RTCF		DIP	173- 43
32♦	74-160	CMOS	PC74HCT160P	VALG		DIP	173- 43
33♦	74-160	CMOS	PC74HCT160T	MULB	*	SO	173- 44
34♦	74-160	CMOS	PC74HCT160T	PHIN	*	SO	173- 44
35♦	74-160	CMOS	PC74HCT160T	RTCF	*	SO	173- 44
36♦	74-160	CMOS	PC74HCT160T	VALG	*	SO	173- 44
37♦	74-160	CMOS	PC74HC160D(A)	MULB		DIP	175- 64
38♦	74-160	CMOS	PC74HC160D(A)	PHIN		DIP	175- 64
39♦	74-160	CMOS	PC74HC160D(A)	RTCF		DIP	175- 64
40♦	74-160	CMOS	PC74HC160D(A)	VALG		DIP	175- 64
41♦	74-160	CMOS	PC74HC160P	MULB		DIP	174- 13
42♦	74-160	CMOS	PC74HC160P	PHIN		DIP	174- 13
43♦	74-160	CMOS	PC74HC160P	RTCF		DIP	174- 13
44♦	74-160	CMOS	PC74HC160P	VALG		DIP	174- 13
45♦	74-160	CMOS	PC74HC160T	MULB	*	SO	174- 14
46♦	74-160	CMOS	PC74HC160T	PHIN	*	SO	174- 14
47♦	74-160	CMOS	PC74HC160T	RTCF	*	SO	174- 14
48♦	74-160	CMOS	PC74HC160T	VALG	*	SO	174- 14
49♦	74-160	CMOS	UPD74HC160C(A)	NECJ		DIP	175- 78
50♦	74-160	CMOS	UPD74HC162C(A)	NECJ		DIP	175- 79
51♦	74-160	CMOS	74HCT160D	SIC	*	SO	173- 61
52♦	74-160	CMOS	74HCT160N	SIC		DIP	173- 62
53♦	74-160	CMOS	74HC160D	SIC	*	SO	174- 77
54♦	74-160	CMOS	74HC160N	SIC		DIP	174- 78
55♦	74-160	TTL	DM54ALS160AJ	NSC		DIP	174- 31
56♦	74-160	TTL	DM54LS160AJ	NSC		DIP	175- 1
57♦	74-160	TTL	DM74ALS160AJ	NSC		DIP	174- 79
58♦	74-160	TTL	DM74ALS160AN	NSC		DIP	174- 80
59♦	74-160	TTL	DM74AS160J	NSC		DIP	176- 34
60♦	74-160	TTL	DM74AS160N	NSC		DIP	176- 35
61♦	74-160	TTL	DN74LS160AP2	MATJ		DIP	175- 8
62♦	74-160	TTL	DN74LS160AP5	MATJ	*	SO	175- 9
63♦	74-160	TTL	M74LS160AP	MITA		DIP	176- 16
64♦	74-160	TTL	M74LS160AP	MITJ		DIP	176- 16
65♦	74-160	TTL	N74F160AD(A)	MULB	*	SO	176- 87
66♦	74-160	TTL	N74F160AD(A)	PHIN	*	SO	176- 87
67♦	74-160	TTL	N74F160AD(A)	RTCF	*	SO	176- 87
68♦	74-160	TTL	N74F160AD(A)	SIC	*	SO	176- 87
69♦	74-160	TTL	N74F160AD(A)	VALG	*	SO	176- 87
70♦	74-160	TTL	N74F160AN(A)	MULB		DIP	176- 88
71♦	74-160	TTL	N74F160AN(A)	PHIN		DIP	176- 88
72♦	74-160	TTL	N74F160AN(A)	RTCF		DIP	176- 88
73♦	74-160	TTL	N74F160AN(A)	SIC		DIP	176- 88
74♦	74-160	TTL	N74F160AN(A)	VALG		DIP	176- 88
75♦	74-160	TTL	54F160ADM	FSC		DIP	176- 57
76♦	74-160	TTL	74F160ADC	FSC		DIP	176- 65
77♦	74-160	TTL	74F160APC	FSC		DIP	176- 67
78♦	74-160N	CMOS	BCL4160B	SSS		DIP	173- 47
79♦	74-160N	CMOS	CD40160BCJ	NSC		DIP	172- 79
80♦	74-160N	CMOS	CD40160BCN	NSC		DIP	172- 80
81♦	74-160N	CMOS	CD40160BD	RCA		DIP	173- 17
82♦	74-160N	CMOS	CD40160BE	RCA		DIP	173- 18
83♦	74-160N	CMOS	CD40160BF	RCA		DIP	173- 19
84♦	74-160N	CMOS	CD40160BMJ	NSC		DIP	172- 81
85♦	74-160N	CMOS	CD54HCT160F	RCA		DIP	173-101
86♦	74-160N	CMOS	CD54HC160F	RCA		DIP	173- 99
87♦	74-160N	CMOS	CD74HCT160E	RCA		DIP	173-107
88♦	74-160N	CMOS	CD74HC160E	RCA		DIP	173-103
89♦	74-160N	CMOS	HCC40160BD	SGSI		DIP	173- 49
90♦	74-160N	CMOS	HCC40160BF	SGSI		DIP	173- 50
91♦	74-160N	CMOS	HCF40160BE	SGSI		DIP	173- 55
92♦	74-160N	CMOS	HCF40160BF	SGSI		DIP	173- 56
93▼	74-160N	CMOS	HD74HC160FP	HITJ	*	SO	174- 1
94▼	74-160N	CMOS	HD74HC160P	HITJ		DIP	174- 2
95♦	74-160N	CMOS	HEF40160	RTCF		DIP	173- 87
96♦	74-160N	CMOS	HEF40160B	VALG		DIP	173- 59
97♦	74-160N	CMOS	HEF40160BD	MULB		DIP	173- 74
98♦	74-160N	CMOS	HEF40160BD	PHIN		DIP	173- 74
99♦	74-160N	CMOS	HEF40160BD	RTCF		DIP	173- 74
100♦	74-160N	CMOS	HEF40160BD	VALG		DIP	173- 74
101♦	74-160N	CMOS	HEF40160BP	MULB		DIP	173- 75
102♦	74-160N	CMOS	HEF40160BP	PHIN		DIP	173- 75
103♦	74-160N	CMOS	HEF40160BP	RTCF		DIP	173- 75
104♦	74-160N	CMOS	HEF40160BP	VALG		DIP	173- 75
105♦	74-160N	CMOS	HEF40160BPN	SIC		DIP	173- 88
106♦	74-160N	CMOS	MC14160BAL	MOTA		DIP	172- 97
107▼	74-160N	CMOS	MC14160BALD	MOTA		DIP	172- 98
108▼	74-160N	CMOS	MC14160BALDS	MOTA		DIP	172- 99
109▼	74-160N	CMOS	MC14160BALS	MOTA		DIP	172-100
110♦	74-160N	CMOS	MC14160BCL	MOTA		DIP	172-101
111▼	74-160N	CMOS	MC14160BCLD	MOTA		DIP	172-102
112▼	74-160N	CMOS	MC14160BCLDS	MOTA		DIP	172-103
113▼	74-160N	CMOS	MC14160BCLS	MOTA		DIP	172-104
114♦	74-160N	CMOS	MC14160BCP	MOTA		DIP	172-105
115▼	74-160N	CMOS	MC14160BCPD	MOTA		DIP	172-106
116▼	74-160N	CMOS	MC14160BCPDS	MOTA		DIP	172-107
117▼	74-160N	CMOS	MC14160BCPS	MOTA		DIP	172-108
118▼	74-160N	CMOS	MC14160BD	MOTA		DIP	172-109
119♦	74-160N	CMOS	MC54HC160J(A)	MOTA		DIP	174- 87
120♦	74-160N	CMOS	MC74HC160J(A)	MOTA		DIP	174- 89
121♦	74-160N	CMOS	MC74HC160N(A)	MOTA		DIP	174- 90
122♦	74-160N	CMOS	MM74C160N	NSC		DIP	172- 67
123♦	74-160N	CMOS	MM74HC160J	NSC		DIP	174- 46
124♦	74-160N	CMOS	MM74HC160N	NSC		DIP	174- 47
125♦	74-160N	CMOS	M40160BP	MITJ		DIP	172- 71
126♦	74-160N	CMOS	SCL4160B	SSS		DIP	172- 69
127▼	74-160N	CMOS	SN74HC160D	TII	*	SO	174- 71
128♦	74-160N	CMOS	SN74HC160N	TII		DIP	174- 72
129♦	74-160N	CMOS	TC40H160P	IMTM		DIP	173- 92
130♦	74-160N	CMOS	TC40H160P	TOSJ		DIP	173- 92
131♦	74-160N	CMOS	TC40160BP	IMTM		DIP	172- 73
132♦	74-160N	CMOS	TC40160BP	TOSJ		DIP	172- 73
133▼	74-160N	CMOS	TC74HC160F(A)	TOSA	*	SO	176- 11
134▼	74-160N	CMOS	TC74HC160P(A)	TOSA		DIP	176- 12
135♦	74-160N	CMOS	40160BDC	FSC		DIP	172- 87
136♦	74-160N	CMOS	40160BDM	FSC		DIP	172- 88
137♦	74-160N	CMOS	40160BPC	FSC			172- 91
138♦	74-160N	CMOS	883C4160B	SSS		DIP	173- 45
139♦	74-160N	TTL	DM74LS160AN	NSC		DIP	175- 3
140♦	74-160N	TTL	DM74S160N	NSC		DIP	176- 28
141♦	74-160N	TTL	DM74160AN	NSC		DIP	175- 42
142♦	74-160N	TTL	DM74160N	NSC		DIP	175- 43
143♦	74-160N	TTL	DM8310N	NSC		DIP	175- 38
144▼	74-160N	TTL	HD74LS160G	HITJ		DIP	174- 36
145♦	74-160N	TTL	HD74LS160P	HITJ		DIP	174- 37
146♦	74-160N	TTL	MB450	FCAJ		DIP	174- 83
147♦	74-160N	TTL	MB450M	FCAJ		DIP	174- 84
148♦	74-160N	TTL	MB451	FCAJ		DIP	174- 85
149♦	74-160N	TTL	MB451M	FCAJ		DIP	174- 86
150♦	74-160N	TTL	MB74LS160A	FCAJ		DIP	174- 42
151♦	74-160N	TTL	MB74LS160AM	FCAJ		DIP	174- 43
152♦	74-160N	TTL	M53360P	MITJ		DIP	174- 40
153♦	74-160N	TTL	M74ALS160AP	MITA		DIP	176- 15
154♦	74-160N	TTL	M74ALS160AP	MITJ		DIP	176- 15
155♦	74-160N	TTL	N74LS160AF	MULB		DIP	174- 50
156♦	74-160N	TTL	N74LS160AF	PHIN		DIP	174- 50
157♦	74-160N	TTL	N74LS160AF	VALG		DIP	174- 50
158♦	74-160N	TTL	N74LS160AN	MULB		DIP	174- 51
159♦	74-160N	TTL	N74LS160AN	PHIN		DIP	174- 51
160♦	74-160N	TTL	N74LS160AN	RTCF		DIP	174- 51
161♦	74-160N	TTL	N74LS160AN	SIC		DIP	174- 51
162♦	74-160N	TTL	N74LS160AN	VALG		DIP	174- 51
163♦	74-160N	TTL	N74160F	MULB		DIP	174- 57
164♦	74-160N	TTL	N74160F	PHIN		DIP	174- 57
165♦	74-160N	TTL	N74160F	VALG		DIP	174- 57
166♦	74-160N	TTL	N74160N	MULB		DIP	174- 58
167♦	74-160N	TTL	N74160N	PHIN		DIP	174- 58
168♦	74-160N	TTL	N74160N	RTCF		DIP	174- 58
169♦	74-160N	TTL	N74160N	SIC		DIP	174- 58
170♦	74-160N	TTL	N74160N	VALG		DIP	174- 58
171♦	74-160N	TTL	SN54LS160AJ	MOTA		DIP	175- 21
172♦	74-160N	TTL	SN54LS160AJ	TII		DIP	175- 21
173▼	74-160N	TTL	SN54LS160AN	MOTA		DIP	175- 22
174▼	74-160N	TTL	SN74ALS160BD	TII	*	SO	175- 71
175▼	74-160N	TTL	SN74ALS160BN	TII		DIP	175- 72
176▼	74-160N	TTL	SN74AS160D	TII	*	SO	176- 40
177♦	74-160N	TTL	SN74AS160N	TII		DIP	176- 41
178♦	74-160N	TTL	SN74LS160AJ	MOTA		DIP	175- 25
179♦	74-160N	TTL	SN74LS160AN	MOTA		DIP	175- 26
180♦	74-160N	TTL	SN74LS160AN	TII		DIP	175- 26
181♦	74-160N	TTL	SN74S160J	AMD		DIP	176- 53
182♦	74-160N	TTL	SN74S160N	AMD		DIP	176- 54
183♦	74-160N	TTL	SN74160N	TII		DIP	175- 30
184♦	74-160N	TTL	S54LS160AF	MULB		DIP	174- 61
185♦	74-160N	TTL	S54LS160AF	PHIN		DIP	174- 61
186♦	74-160N	TTL	S54LS160AF	RTCF		DIP	174- 61
187♦	74-160N	TTL	S54LS160AF	SIC		DIP	174- 61
188♦	74-160N	TTL	S54LS160AF	VALG		DIP	174- 61
189♦	74-160N	TTL	S54160F	MULB		DIP	174- 65
190♦	74-160N	TTL	S54160F	PHIN		DIP	174- 65
191♦	74-160N	TTL	S54160F	RTCF		DIP	174- 65
192♦	74-160N	TTL	S54160F	SIC		DIP	174- 65
193♦	74-160N	TTL	S54160F	VALG		DIP	174- 65
194♦	74-160N	TTL	54F160DM	FSC		DIP	176- 59
195♦	74-160N	TTL	54160DM	FSC		DIP	174-106
196♦	74-160N	TTL	74F160DC	FSC		DIP	176- 70
197♦	74-160N	TTL	74F160PC	FSC			176- 71
198♦	74-160N	TTL	74LS160PC	FSC		DIP	172- 37
199♦	74-160N	TTL	74160DC	FSC		DIP	174-109
200♦	74-160N	TTL	74160PC	FSC			174-110
201♦	74-160N	TTL	93L10DC	FSC		DIP	173- 63
202♦	74-160N	TTL	93L10DM	FSC		DIP	173- 64
203♦	74-160N	TTL	93L10PC	FSC		DIP	173- 66
204♦	74-160N	TTL	93S10DC	AMD		DIP	176- 46
205♦	74-160N	TTL	93S10DC	FSC		DIP	176- 46
206♦	74-160N	TTL	93S10DM	FSC		DIP	176- 47
207♦	74-160N	TTL	93S10PC	AMD		DIP	176- 49
208♦	74-160N	TTL	9310DC	FSC		DIP	173- 80
209♦	74-160N	TTL	9310DM	FSC		DIP	173- 81
210♦	74-160N	TTL	9310PC	FSC		DIP	172- 39
211♦	74-161	CMOS	BCL4161B	SSS		DIP	155- 21
212▼	74-161	CMOS	IDT74AHCT161D	IDT		DIP	155- 81
213▼	74-161	CMOS	IDT74AHCT161L	IDT	*	LLCC	155- 82
214▼	74-161	CMOS	IDT74FCT161A	IDT	*	SO	155- 83
215▼	74-161	CMOS	IDT74FCT161AD	IDT		DIP	155- 84
216▼	74-161	CMOS	IDT74FCT161AL	IDT	*	LLCC	155- 85
217▼	74-161	CMOS	IDT74FCT161D	IDT		DIP	155- 86
218▼	74-161	CMOS	IDT74FCT161L	IDT	*	LLCC	155- 87
219♦	74-161	CMOS	MM54C161D	NSC		DIP	154- 40
220♦	74-161	CMOS	M54HC161F1(A)	SGSI		DIP	158- 39

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-161	CMOS	M74HC161B1(A)	SGSI		DIP	156- 20
2♦	74-161	CMOS	M74HC161F1(A)	SGSI		DIP	156- 22
3♦	74-161	CMOS	PC54HCT161D(A)	MULB		DIP	157- 94
4♦	74-161	CMOS	PC54HCT161D(A)	PHIN		DIP	157- 94
5♦	74-161	CMOS	PC54HCT161D(A)	RTCF		DIP	157- 94
6♦	74-161	CMOS	PC54HCT161D(A)	VALG		DIP	157- 94
7♦	74-161	CMOS	PC54HC161D(A)	MULB		DIP	157- 92
8♦	74-161	CMOS	PC54HC161D(A)	PHIN		DIP	157- 92
9♦	74-161	CMOS	PC54HC161D(A)	RTCF		DIP	157- 92
10♦	74-161	CMOS	PC54HC161D(A)	VALG		DIP	157- 92
11♦	74-161	CMOS	PC74HCT161D(A)	MULB		DIP	157-100
12♦	74-161	CMOS	PC74HCT161D(A)	PHIN		DIP	157-100
13♦	74-161	CMOS	PC74HCT161D(A)	RTCF		DIP	157-100
14♦	74-161	CMOS	PC74HCT161D(A)	VALG		DIP	157-100
15♦	74-161	CMOS	PC74HCT161P	MULB		DIP	155- 64
16♦	74-161	CMOS	PC74HCT161P	PHIN		DIP	155- 64
17♦	74-161	CMOS	PC74HCT161P	RTCF		DIP	155- 64
18♦	74-161	CMOS	PC74HCT161P	VALG		DIP	155- 64
19♦	74-161	CMOS	PC74HCT161T	MULB	*	SO	155- 65
20♦	74-161	CMOS	PC74HCT161T	PHIN	*	SO	155- 65
21♦	74-161	CMOS	PC74HCT161T	RTCF	*	SO	155- 65
22♦	74-161	CMOS	PC74HCT161T	VALG	*	SO	155- 65
23♦	74-161	CMOS	PC74HC161D(A)	MULB		DIP	157- 96
24♦	74-161	CMOS	PC74HC161D(A)	PHIN		DIP	157- 96
25♦	74-161	CMOS	PC74HC161D(A)	RTCF		DIP	157- 96
26♦	74-161	CMOS	PC74HC161D(A)	VALG		DIP	157- 96
27♦	74-161	CMOS	PC74HC161P	MULB		DIP	157- 97
28♦	74-161	CMOS	PC74HC161P	PHIN		DIP	157- 97
29♦	74-161	CMOS	PC74HC161P	RTCF		DIP	157- 97
30♦	74-161	CMOS	PC74HC161P	VALG		DIP	157- 97
31♦	74-161	CMOS	PC74HC161T	MULB	*	SO	157- 98
32♦	74-161	CMOS	PC74HC161T	PHIN	*	SO	157- 98
33♦	74-161	CMOS	PC74HC161T	RTCF	*	SO	157- 98
34♦	74-161	CMOS	PC74HC161T	VALG	*	SO	157- 98
35▼	74-161	CMOS	SN74HC161D	TII	*	SO	156-108
36♦	74-161	CMOS	SN74HC161N	TII		DIP	156-109
37♦	74-161	CMOS	UPD74HC161C(A)	NECJ		DIP	157-110
38♦	74-161	CMOS	74HCT161D	SIC	*	SO	155- 79
39♦	74-161	CMOS	74HCT161N	SIC		DIP	155- 80
40♦	74-161	CMOS	74HC161D	SIC	*	SO	156- 38
41♦	74-161	CMOS	74HC161N	SIC		DIP	156- 39
42♦	74-161	TTL	DM54ALS161AJ	NSC		DIP	156- 65
43♦	74-161	TTL	DM54AS161J	NSC		DIP	158- 64
44♦	74-161	TTL	DM54LS161AJ	NSC		DIP	157- 36
45♦	74-161	TTL	DM74ALS161AJ	NSC		DIP	157- 6
46♦	74-161	TTL	DM74ALS161AN	NSC		DIP	157- 7
47♦	74-161	TTL	DM74AS161J	NSC		DIP	158- 80
48♦	74-161	TTL	DM74AS161N	NSC		DIP	158- 81
49♦	74-161	TTL	DN74LS161AP2	MATJ		DIP	157- 45
50♦	74-161	TTL	DN74LS161AP5	MATJ	*	SO	157- 46
51♦	74-161	TTL	M74ALS161AP	MITA		DIP	158- 54
52♦	74-161	TTL	M74ALS161AP	MITJ		DIP	158- 54
53♦	74-161	TTL	N74F161AD(A)	MULB	*	SO	159- 18
54♦	74-161	TTL	N74F161AD(A)	PHIN	*	SO	159- 18
55♦	74-161	TTL	N74F161AD(A)	RTCF	*	SO	159- 18
56♦	74-161	TTL	N74F161AD(A)	SIC	*	SO	159- 18
57♦	74-161	TTL	N74F161AD(A)	VALG	*	SO	159- 18
58♦	74-161	TTL	N74F161AN(A)	MULB		DIP	159- 19
59♦	74-161	TTL	N74F161AN(A)	PHIN		DIP	159- 19
60♦	74-161	TTL	N74F161AN(A)	RTCF		DIP	159- 19
61♦	74-161	TTL	N74F161AN(A)	SIC		DIP	159- 19
62♦	74-161	TTL	N74F161AN(A)	VALG		DIP	159- 19
63♦	74-161	TTL	74F163ADC	FSC		DIP	159- 3
64♦	74-161	TTL	74F163APC	FSC		DIP	159- 5
65♦	74-161N	CMOS	CD40161BCJ	NSC		DIP	154- 57
66♦	74-161N	CMOS	CD40161BCN	NSC		DIP	154- 58
67♦	74-161N	CMOS	CD40161BD	RCA		DIP	154-101
68♦	74-161N	CMOS	CD40161BE	RCA		DIP	154-102
69♦	74-161N	CMOS	CD40161BF	RCA		DIP	154-103
70♦	74-161N	CMOS	CD40161BMJ	NSC		DIP	154- 59
71♦	74-161N	CMOS	CD54HCT161F	RCA		DIP	155- 96
72♦	74-161N	CMOS	CD54HC161F	RCA		DIP	155- 94
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74♦	74-161N	CMOS	CD74HC161E	RCA		DIP	155- 98
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76♦	74-161N	CMOS	HCC40161BF	SGSI		DIP	155- 24
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78♦	74-161N	CMOS	HCF40161BF	SGSI		DIP	155- 30
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82♦	74-161N	CMOS	HEF40161B	VALG		DIP	155- 33
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84♦	74-161N	CMOS	HEF40161BD	PHIN		DIP	155- 46
85♦	74-161N	CMOS	HEF40161BD	RTCF		DIP	155- 46
86♦	74-161N	CMOS	HEF40161BD	VALG		DIP	155- 46
87♦	74-161N	CMOS	HEF40161BP	MULB		DIP	155- 47
88♦	74-161N	CMOS	HEF40161BP	PHIN		DIP	155- 47
89♦	74-161N	CMOS	HEF40161BP	RTCF		DIP	155- 47
90♦	74-161N	CMOS	HEF40161BP	VALG		DIP	155- 47
91♦	74-161N	CMOS	HEF40161BPN	SIC		DIP	155- 71
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107▼	74-161N	CMOS	MC14161BCLD	MOTA		DIP	154- 80
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117♦	74-161N	CMOS	MC74HC161N(A)	MOTA		DIP	157- 13
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122♦	74-161N	CMOS	MN40161B	MATJ		DIP	157- 85
123♦	74-161N	CMOS	M40161BP	MITJ		DIP	154- 48
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127♦	74-161N	CMOS	TC40H161P	TOSJ		DIP	155- 77
128♦	74-161N	CMOS	TC40161BP	IMTM		DIP	154- 50
129♦	74-161N	CMOS	TC40161BP	TOSJ		DIP	154- 50
130▼	74-161N	CMOS	TC74HC161F(A)	TOSA	*	SO	158- 50
131▼	74-161N	CMOS	TC74HC161P(A)	TOSA		DIP	158- 51
132♦	74-161N	CMOS	40161BDC	FSC		DIP	154- 65
133♦	74-161N	CMOS	40161BDM	FSC		DIP	154- 66
134♦	74-161N	CMOS	40161BPC	FSC		DIP	154- 69
135♦	74-161N	CMOS	883C4161B	SSS		DIP	155- 17
136♦	74-161N	TTL	DM74LS161AN	NSC		DIP	157- 40
137♦	74-161N	TTL	DM74S161N	NSC		DIP	158- 73
138♦	74-161N	TTL	DM74161AN	NSC		DIP	157- 79
139♦	74-161N	TTL	DM74161N	NSC		DIP	157- 80
140▼	74-161N	TTL	HD74LS161G	HITJ		DIP	156- 71
141♦	74-161N	TTL	HD74LS161P	HITJ		DIP	156- 72
142♦	74-161N	TTL	MB74LS161A	FCAJ		DIP	156- 77
143♦	74-161N	TTL	MB74LS161AM	FCAJ		DIP	156- 78
144♦	74-161N	TTL	M53361P	MITJ		DIP	156- 75
145♦	74-161N	TTL	M74LS161AP	MITA		DIP	158- 55
146♦	74-161N	TTL	M74LS161AP	MITJ		DIP	158- 55
147♦	74-161N	TTL	N74LS161AD	MULB		DIP	156- 85
148♦	74-161N	TTL	N74LS161AD	PHIN		DIP	156- 85
149♦	74-161N	TTL	N74LS161AD	RTCF		DIP	156- 85
150♦	74-161N	TTL	N74LS161AD	SIC		DIP	156- 85
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152♦	74-161N	TTL	N74LS161AN	MULB		DIP	156- 86
153♦	74-161N	TTL	N74LS161AN	PHIN		DIP	156- 86
154♦	74-161N	TTL	N74LS161AN	RTCF		DIP	156- 86
155♦	74-161N	TTL	N74LS161AN	SIC		DIP	156- 86
156♦	74-161N	TTL	N74LS161AN	VALG		DIP	156- 86
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158♦	74-161N	TTL	N74161F	PHIN		DIP	156- 90
159♦	74-161N	TTL	N74161F	VALG		DIP	156- 90
160♦	74-161N	TTL	N74161N	MULB		DIP	156- 91
161♦	74-161N	TTL	N74161N	PHIN		DIP	156- 91
162♦	74-161N	TTL	N74161N	RTCF		DIP	156- 91
163♦	74-161N	TTL	N74161N	SIC		DIP	156- 91
164♦	74-161N	TTL	N74161N	VALG		DIP	156- 91
165▼	74-161N	TTL	SN54ALS161BJ	TII		DIP	156- 54
166♦	74-161N	TTL	SN54AS161J	TII		DIP	158- 66
167♦	74-161N	TTL	SN54LS161AJ	MOTA		DIP	157- 59
168♦	74-161N	TTL	SN54LS161AJ	TII		DIP	157- 59
169▼	74-161N	TTL	SN54LS161AN	MOTA		DIP	157- 60
170♦	74-161N	TTL	SN54161J	TII		DIP	157- 67
171▼	74-161N	TTL	SN74ALS161BD	TII	*	SO	157-103
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179♦	74-161N	TTL	SN74S161N	AMD		DIP	158- 97
180♦	74-161N	TTL	SN74161N	TII		DIP	157- 69
181♦	74-161N	TTL	S54LS161AF	MULB		DIP	156- 94
182♦	74-161N	TTL	S54LS161AF	PHIN		DIP	156- 94
183♦	74-161N	TTL	S54LS161AF	RTCF		DIP	156- 94
184♦	74-161N	TTL	S54LS161AF	SIC		DIP	156- 94
185♦	74-161N	TTL	S54LS161AF	VALG		DIP	156- 94
186♦	74-161N	TTL	S54LS161AG	MULB	*	LLCC	156- 95
187♦	74-161N	TTL	S54LS161AG	PHIN	*	LLCC	156- 95
188♦	74-161N	TTL	S54LS161AG	RTCF	*	LLCC	156- 95
189♦	74-161N	TTL	S54LS161AG	SIC	*	LLCC	156- 95
190♦	74-161N	TTL	S54LS161AG	VALG	*	LLCC	156- 95
191♦	74-161N	TTL	S54161F	MULB		DIP	156-101
192♦	74-161N	TTL	S54161F	PHIN		DIP	156-101
193♦	74-161N	TTL	S54161F	RTCF		DIP	156-101
194♦	74-161N	TTL	S54161F	SIC		DIP	156-101
195♦	74-161N	TTL	S54161F	VALG		DIP	156-101
196♦	74-161N	TTL	54F161DM	FSC		DIP	158-100
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198♦	74-161N	TTL	54161DM	FSC		DIP	157- 30
199♦	74-161N	TTL	74F161DC	FSC		DIP	159- 1
200♦	74-161N	TTL	74F161PC	FSC		DIP	159- 2
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215♦	74-162	CMOS	MM54C162D	NSC		DIP	172- 66
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217♦	74-162	CMOS	M74HC162B1(A)	SGSI		DIP	174- 8
218♦	74-162	CMOS	M74HC162F1(A)	SGSI		DIP	174- 10
219♦	74-162	CMOS	PC54HCT162D(A)	MULB		DIP	175- 63
220♦	74-162	CMOS	PC54HCT162D(A)	PHIN		DIP	175- 63

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

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(2) TECHNOLOGY & (3) TYPE NUMBER

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1♦	74-162	CMOS	PC54HCT162D(A)	RTCF		DIP	175- 63
2♦	74-162	CMOS	PC54HCT162D(A)	VALG		DIP	175- 63
3♦	74-162	CMOS	PC54HC162D(A)	MULB		DIP	175- 61
4♦	74-162	CMOS	PC54HC162D(A)	PHIN		DIP	175- 61
5♦	74-162	CMOS	PC54HC162D(A)	RTCF		DIP	175- 61
6♦	74-162	CMOS	PC54HC162D(A)	VALG		DIP	175- 61
7♦	74-162	CMOS	PC74HCT162D(A)	MULB		DIP	175- 69
8♦	74-162	CMOS	PC74HCT162D(A)	PHIN		DIP	175- 69
9♦	74-162	CMOS	PC74HCT162D(A)	VALG		DIP	175- 69
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11♦	74-162	CMOS	PC74HCT162P	PHIN		DIP	174- 15
12♦	74-162	CMOS	PC74HCT162T	MULB	*	SO	174- 16
13♦	74-162	CMOS	PC74HCT162T	PHIN	*	SO	174- 16
14♦	74-162	CMOS	PC74HCT162T	VALG	*	SO	174- 16
15♦	74-162	CMOS	PC74HC162D(A)	MULB		DIP	175- 65
16♦	74-162	CMOS	PC74HC162D(A)	PHIN		DIP	175- 65
17♦	74-162	CMOS	PC74HC162D(A)	VALG		DIP	175- 65
18♦	74-162	CMOS	PC74HC162P	MULB		DIP	175- 66
19♦	74-162	CMOS	PC74HC162P	PHIN		DIP	175- 66
20♦	74-162	CMOS	PC74HC162P	VALG		DIP	175- 66
21♦	74-162	CMOS	PC74HC162T	MULB	*	SO	175- 67
22♦	74-162	CMOS	PC74HC162T	PHIN	*	SO	175- 67
23♦	74-162	CMOS	PC74HC162T	VALG	*	SO	175- 67
24♦	74-162	CMOS	74HCT162D	SIC	*	SO	174- 21
25♦	74-162	CMOS	74HCT162N	SIC		DIP	174- 22
26♦	74-162	CMOS	74HC162D	SIC	*	SO	174- 75
27♦	74-162	CMOS	74HC162N	SIC		DIP	174- 76
28♦	74-162	TTL	DM54ALS162AJ	NSC		DIP	174- 32
29♦	74-162	TTL	DM54AS162J	NSC		DIP	176- 22
30♦	74-162	TTL	DM54LS162AJ	NSC		DIP	175- 2
31♦	74-162	TTL	DM74ALS162AJ	NSC		DIP	174- 81
32♦	74-162	TTL	DM74ALS162AN	NSC		DIP	174- 82
33♦	74-162	TTL	DM74AS162J	NSC		DIP	176- 36
34♦	74-162	TTL	DM74AS162N	NSC		DIP	176- 37
35♦	74-162	TTL	DN74LS162AP2	MATJ		DIP	175- 10
36♦	74-162	TTL	DN74LS162AP5	MATJ	*	SO	175- 11
37♦	74-162	TTL	N74F162AD(A)	MULB	*	SO	176- 89
38♦	74-162	TTL	N74F162AD(A)	PHIN	*	SO	176- 89
39♦	74-162	TTL	N74F162AD(A)	RTCF	*	SO	176- 89
40♦	74-162	TTL	N74F162AD(A)	SIC	*	SO	176- 89
41♦	74-162	TTL	N74F162AD(A)	VALG	*	SO	176- 89
42♦	74-162	TTL	N74F162AN(A)	MULB		DIP	176- 90
43♦	74-162	TTL	N74F162AN(A)	PHIN		DIP	176- 90
44♦	74-162	TTL	N74F162AN(A)	RTCF		DIP	176- 90
45♦	74-162	TTL	N74F162AN(A)	SIC		DIP	176- 90
46♦	74-162	TTL	N74F162AN(A)	VALG		DIP	176- 90
47♦	74-162	TTL	SN74S162D	TII	*	SO	176- 31
48♦	74-162	TTL	54F162ADM	FSC		DIP	176- 61
49♦	74-162	TTL	74F162ADC	FSC		DIP	176- 72
50♦	74-162	TTL	74F162APC	FSC		DIP	176- 74
51♦	74-162N	CMOS	BCL4162B	SSS		DIP	173- 48
52♦	74-162N	CMOS	CD40162BCJ	NSC		DIP	172- 83
53♦	74-162N	CMOS	CD40162BCN	NSC		DIP	172- 84
54♦	74-162N	CMOS	CD40162BD	RCA		DIP	173- 20
55♦	74-162N	CMOS	CD40162BE	RCA		DIP	173- 21
56♦	74-162N	CMOS	CD40162BF	RCA		DIP	173- 22
57♦	74-162N	CMOS	CD40162BMJ	NSC		DIP	172- 85
58♦	74-162N	CMOS	CD54HCT162F	RCA		DIP	173-102
59♦	74-162N	CMOS	CD54HC162F	RCA		DIP	173-100
60♦	74-162N	CMOS	CD74HCT162E	RCA		DIP	173-109
61♦	74-162N	CMOS	CD74HC162E	RCA		DIP	173-105
62♦	74-162N	CMOS	HCC40162BD	SGSI		DIP	173- 52
63♦	74-162N	CMOS	HCC40162BF	SGSI		DIP	173- 53
64♦	74-162N	CMOS	HCF40162BE	SGSI		DIP	173- 57
65♦	74-162N	CMOS	HCF40162BF	SGSI		DIP	173- 58
66▼	74-162N	CMOS	HD74HC162FP	HITJ	*	SO	174- 3
67▼	74-162N	CMOS	HD74HC162P	HITJ		DIP	174- 4
68♦	74-162N	CMOS	HEF40162	RTCF		DIP	173- 89
69♦	74-162N	CMOS	HEF40162B	VALG		DIP	173- 60
70♦	74-162N	CMOS	HEF40162BD	MULB		DIP	173- 77
71♦	74-162N	CMOS	HEF40162BD	PHIN		DIP	173- 77
72♦	74-162N	CMOS	HEF40162BD	RTCF		DIP	173- 77
73♦	74-162N	CMOS	HEF40162BD	VALG		DIP	173- 77
74♦	74-162N	CMOS	HEF40162BP	MULB		DIP	173- 78
75♦	74-162N	CMOS	HEF40162BP	PHIN		DIP	173- 78
76♦	74-162N	CMOS	HEF40162BP	RTCF		DIP	173- 78
77♦	74-162N	CMOS	HEF40162BP	VALG		DIP	173- 78
78♦	74-162N	CMOS	HEF40162BPN	SIC		DIP	173- 90
79♦	74-162N	CMOS	MC14162BAL	MOTA		DIP	172-110
80▼	74-162N	CMOS	MC14162BALD	MOTA		DIP	173- 1
81▼	74-162N	CMOS	MC14162BALDS	MOTA		DIP	173- 2
82▼	74-162N	CMOS	MC14162BALS	MOTA		DIP	173- 3
83♦	74-162N	CMOS	MC14162BCL	MOTA		DIP	173- 4
84▼	74-162N	CMOS	MC14162BCLD	MOTA		DIP	173- 5
85▼	74-162N	CMOS	MC14162BCLDS	MOTA		DIP	173- 6
86▼	74-162N	CMOS	MC14162BCLS	MOTA		DIP	173- 7
87♦	74-162N	CMOS	MC14162BCP	MOTA		DIP	173- 8
88▼	74-162N	CMOS	MC14162BCPD	MOTA		DIP	173- 9
89▼	74-162N	CMOS	MC14162BCPDS	MOTA		DIP	173- 10
90▼	74-162N	CMOS	MC14162BCPS	MOTA		DIP	173- 11
91▼	74-162N	CMOS	MC14162BD	MOTA		DIP	173- 12
92♦	74-162N	CMOS	MC54HC162J(A)	MOTA		DIP	174- 88
93♦	74-162N	CMOS	MC74HC162J(A)	MOTA		DIP	174- 91
94♦	74-162N	CMOS	MC74HC162N(A)	MOTA		DIP	174- 92
95♦	74-162N	CMOS	MM74C162N	NSC		DIP	172- 68
96♦	74-162N	CMOS	MM74HC162J	NSC		DIP	174- 48
97♦	74-162N	CMOS	MM74HC162N	NSC		DIP	174- 49
98♦	74-162N	CMOS	M40162BP	MITJ		DIP	172- 72
99♦	74-162N	CMOS	SCL4162B	SSS		DIP	172- 70
100▼	74-162N	CMOS	SN74HC162D	TII	*	SO	174- 73
101♦	74-162N	CMOS	SN74HC162N	TII		DIP	174- 74
102♦	74-162N	CMOS	TC40H162P	IMTM		DIP	173- 94
103♦	74-162N	CMOS	TC40H162P	TOSJ		DIP	173- 94
104♦	74-162N	CMOS	TC40162BP	IMTM		DIP	172- 74
105♦	74-162N	CMOS	TC40162BP	TOSJ		DIP	172- 74
106▼	74-162N	CMOS	TC74HC162F(A)	TOSA	*	SO	176- 13
107▼	74-162N	CMOS	TC74HC162P(A)	TOSA		DIP	176- 14
108♦	74-162N	CMOS	40162BDC	FSC		DIP	172- 92
109♦	74-162N	CMOS	40162BDM	FSC		DIP	172- 93
110♦	74-162N	CMOS	40162BPC	FSC		DIP	172- 96
111♦	74-162N	CMOS	883C4162B	SSS		DIP	173- 46
112♦	74-162N	TTL	DM74LS162AN	NSC		DIP	175- 4
113♦	74-162N	TTL	DM74S162N	NSC		DIP	176- 29
114♦	74-162N	TTL	DM74162AN	NSC		DIP	175- 44
115♦	74-162N	TTL	DM74162N	NSC		DIP	175- 45
116▼	74-162N	TTL	HD74LS162G	HITJ		DIP	174- 38
117♦	74-162N	TTL	HD74LS162P	HITJ		DIP	174- 39
118♦	74-162N	TTL	MB74LS162A	FCAJ		DIP	174- 44
119♦	74-162N	TTL	MB74LS162AM	FCAJ		DIP	174- 45
120♦	74-162N	TTL	M53362P	MITJ		DIP	174- 41
121♦	74-162N	TTL	M74ALS162AP	MITA		DIP	175- 59
122♦	74-162N	TTL	M74ALS162AP	MITJ		DIP	175- 59
123♦	74-162N	TTL	M74LS162AP	MITA		DIP	176- 17
124♦	74-162N	TTL	M74LS162AP	MITJ		DIP	176- 17
125♦	74-162N	TTL	N74LS162AF	MULB		DIP	174- 52
126♦	74-162N	TTL	N74LS162AF	PHIN		DIP	174- 52
127♦	74-162N	TTL	N74LS162AF	RTCF		DIP	174- 52
128♦	74-162N	TTL	N74LS162AF	VALG		DIP	174- 52
129♦	74-162N	TTL	N74LS162AN	MULB		DIP	174- 53
130♦	74-162N	TTL	N74LS162AN	PHIN		DIP	174- 53
131♦	74-162N	TTL	N74LS162AN	RTCF		DIP	174- 53
132♦	74-162N	TTL	N74LS162AN	SIC		DIP	174- 53
133♦	74-162N	TTL	N74LS162AN	VALG		DIP	174- 53
134♦	74-162N	TTL	N74162F	MULB		DIP	174- 59
135♦	74-162N	TTL	N74162F	PHIN		DIP	174- 59
136♦	74-162N	TTL	N74162F	VALG		DIP	174- 59
137♦	74-162N	TTL	N74162N	MULB		DIP	174- 60
138♦	74-162N	TTL	N74162N	PHIN		DIP	174- 60
139♦	74-162N	TTL	N74162N	VALG		DIP	174- 60
140♦	74-162N	TTL	SN54LS162AJ	MOTA		DIP	175- 23
141♦	74-162N	TTL	SN54LS162AJ	TII		DIP	175- 23
142▼	74-162N	TTL	SN54LS162AN	MOTA		DIP	175- 24
143♦	74-162N	TTL	SN54S162J	TII		DIP	176- 30
144♦	74-162N	TTL	SN54162J	TII		DIP	175- 29
145▼	74-162N	TTL	SN74ALS162BD	TII	*	SO	175- 73
146▼	74-162N	TTL	SN74ALS162BN	TII		DIP	175- 74
147▼	74-162N	TTL	SN74AS162D	TII	*	SO	176- 42
148♦	74-162N	TTL	SN74AS162N	TII		DIP	176- 43
149♦	74-162N	TTL	SN74LS162AJ	MOTA		DIP	175- 27
150♦	74-162N	TTL	SN74LS162AN	MOTA		DIP	175- 28
151♦	74-162N	TTL	SN74LS162AN	TII		DIP	175- 28
152♦	74-162N	TTL	SN74S162N	TII		DIP	176- 32
153♦	74-162N	TTL	SN74162N	TII		DIP	175- 31
154♦	74-162N	TTL	S54LS162AF	MULB		DIP	174- 63
155♦	74-162N	TTL	S54LS162AF	PHIN		DIP	174- 63
156♦	74-162N	TTL	S54LS162AF	RTCF		DIP	174- 63
157♦	74-162N	TTL	S54LS162AF	SIC		DIP	174- 63
158♦	74-162N	TTL	S54LS162AF	VALG		DIP	174- 63
159♦	74-162N	TTL	S54162E	MULB		DIP	174- 67
160♦	74-162N	TTL	S54162E	PHIN		DIP	174- 67
161♦	74-162N	TTL	S54162F	MULB		DIP	174- 68
162♦	74-162N	TTL	S54162F	PHIN		DIP	174- 68
163♦	74-162N	TTL	S54162F	VALG		DIP	174- 68
164♦	74-162N	TTL	54F162DM	FSC		DIP	176- 63
165♦	74-162N	TTL	74F162DC	FSC		DIP	176- 77
166♦	74-162N	TTL	74F162PC	FSC		DIP	176- 78
167♦	74-162N	TTL	74LS162PC	FSC		DIP	172- 38
168♦	74-162N	TTL	74162PC	FSC		DIP	174- 30
169♦	74-163	CMOS	BCL4163B	SSS		DIP	155- 22
170▼	74-163	CMOS	IDT74AHCT163D	IDT		DIP	156- 44
171▼	74-163	CMOS	IDT74AHCT163L	IDT	*	LLCC	156- 45
172▼	74-163	CMOS	IDT74FCT163A	IDT	*	SO	156- 46
173▼	74-163	CMOS	IDT74FCT163AD	IDT		DIP	156- 47
174▼	74-163	CMOS	IDT74FCT163AL	IDT	*	LLCC	156- 48
175▼	74-163	CMOS	IDT74FCT163D	IDT		DIP	156- 49
176▼	74-163	CMOS	IDT74FCT163L	IDT	*	LLCC	156- 50
177♦	74-163	CMOS	MM54C163D	NSC		DIP	154- 41
178♦	74-163	CMOS	M54HC163F1(A)	SGSI		DIP	158- 40
179♦	74-163	CMOS	M74HC163B1(A)	SGSI		DIP	156- 23
180♦	74-163	CMOS	M74HC163F1(A)	SGSI		DIP	156- 25
181♦	74-163	CMOS	PC54HCT163D(A)	MULB		DIP	157- 95
182♦	74-163	CMOS	PC54HCT163D(A)	PHIN		DIP	157- 95
183♦	74-163	CMOS	PC54HCT163D(A)	RTCF		DIP	157- 95
184♦	74-163	CMOS	PC54HCT163D(A)	VALG		DIP	157- 95
185♦	74-163	CMOS	PC54HC163D(A)	MULB		DIP	157- 93
186♦	74-163	CMOS	PC54HC163D(A)	PHIN		DIP	157- 93
187♦	74-163	CMOS	PC54HC163D(A)	RTCF		DIP	157- 93
188♦	74-163	CMOS	PC54HC163D(A)	VALG		DIP	157- 93
189♦	74-163	CMOS	PC74HCT163D(A)	MULB		DIP	157-101
190♦	74-163	CMOS	PC74HCT163D(A)	PHIN		DIP	157-101
191♦	74-163	CMOS	PC74HCT163D(A)	RTCF		DIP	157-101
192♦	74-163	CMOS	PC74HCT163D(A)	VALG		DIP	157-101
193♦	74-163	CMOS	PC74HCT163P	MULB		DIP	155- 74
194♦	74-163	CMOS	PC74HCT163P	PHIN		DIP	155- 74
195♦	74-163	CMOS	PC74HCT163P	RTCF		DIP	155- 74
196♦	74-163	CMOS	PC74HCT163P	VALG		DIP	155- 74
197♦	74-163	CMOS	PC74HCT163T	MULB	*	SO	155- 75
198♦	74-163	CMOS	PC74HCT163T	PHIN	*	SO	155- 75
199♦	74-163	CMOS	PC74HCT163T	RTCF	*	SO	155- 75
200♦	74-163	CMOS	PC74HCT163T	VALG	*	SO	155- 75
201♦	74-163	CMOS	PC74HC163D(A)	MULB		DIP	157- 99
202♦	74-163	CMOS	PC74HC163D(A)	PHIN		DIP	157- 99
203♦	74-163	CMOS	PC74HC163D(A)	RTCF		DIP	157- 99
204♦	74-163	CMOS	PC74HC163D(A)	VALG		DIP	157- 99
205♦	74-163	CMOS	PC74HC163P	MULB		DIP	155- 88
206♦	74-163	CMOS	PC74HC163P	PHIN		DIP	155- 88
207♦	74-163	CMOS	PC74HC163P	RTCF		DIP	155- 88
208♦	74-163	CMOS	PC74HC163P	VALG		DIP	155- 88
209♦	74-163	CMOS	PC74HC163T	MULB	*	SO	155- 89
210♦	74-163	CMOS	PC74HC163T	PHIN	*	SO	155- 89
211♦	74-163	CMOS	PC74HC163T	RTCF	*	SO	155- 89
212♦	74-163	CMOS	PC74HC163T	VALG	*	SO	155- 89
213♦	74-163	CMOS	UPD74HC163C(A)	NECJ		DIP	158- 1
214♦	74-163	CMOS	74HCT163D	SIC	*	SO	156- 40
215♦	74-163	CMOS	74HCT163N	SIC		DIP	156- 41
216♦	74-163	CMOS	74HC163D	SIC	*	SO	157- 2
217♦	74-163	CMOS	74HC163N	SIC		DIP	157- 3
218♦	74-163	TTL	DM54ALS163AJ	NSC		DIP	156- 66
219♦	74-163	TTL	DM54AS163J	NSC		DIP	158- 65
220♦	74-163	TTL	DM54LS163AJ	NSC		DIP	157- 38

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-163	TTL	DM74ALS163AJ	NSC		DIP	157- 8
2♦	74-163	TTL	DM74ALS163AN	NSC		DIP	157- 9
3♦	74-163	TTL	DM74AS163J	NSC		DIP	158- 82
4♦	74-163	TTL	DM74AS163N	NSC		DIP	158- 83
5♦	74-163	TTL	DN74LS163AP2	MATJ		DIP	157- 47
6♦	74-163	TTL	DN74LS163AP5	MATJ	*	SO	157- 48
7♦	74-163	TTL	M74ALS163AP	MITA		DIP	157- 91
8♦	74-163	TTL	M74ALS163AP	MITJ		DIP	157- 91
9♦	74-163	TTL	SN74S163D	TII	*	SO	158- 76
10♦	74-163	TTL	54F161ADM	FSC		DIP	158- 98
11♦	74-163	TTL	54F163ADM	FSC		DIP	158-102
12♦	74-163	TTL	74F161ADC	FSC		DIP	158-106
13♦	74-163	TTL	74F161APC	FSC		DIP	158-108
14♦	74-163N	CMOS	CD40163BCJ	NSC		DIP	154- 61
15♦	74-163N	CMOS	CD40163BCN	NSC		DIP	154- 62
16♦	74-163N	CMOS	CD40163BD	RCA		DIP	154-104
17♦	74-163N	CMOS	CD40163BE	RCA		DIP	154-105
18♦	74-163N	CMOS	CD40163BF	RCA		DIP	154-106
19♦	74-163N	CMOS	CD40163BMJ	NSC		DIP	154- 63
20♦	74-163N	CMOS	CD54HCT163F	RCA		DIP	155- 97
21♦	74-163N	CMOS	CD54HC163F	RCA		DIP	155- 95
22♦	74-163N	CMOS	CD74HCT163E	RCA		DIP	155-104
23♦	74-163N	CMOS	CD74HC163E	RCA		DIP	155-100
24♦	74-163N	CMOS	HCC40163BD	SGSI		DIP	155- 26
25♦	74-163N	CMOS	HCC40163BF	SGSI		DIP	155- 27
26♦	74-163N	CMOS	HCF40163BE	SGSI		DIP	155- 31
27♦	74-163N	CMOS	HCF40163BF	SGSI		DIP	155- 32
28♦	74-163N	CMOS	HEF40163	RTCF		DIP	155- 72
29♦	74-163N	CMOS	HEF40163B	VALG		DIP	155- 34
30♦	74-163N	CMOS	HEF40163BD	MULB		DIP	155- 49
31♦	74-163N	CMOS	HEF40163BD	PHIN		DIP	155- 49
32♦	74-163N	CMOS	HEF40163BD	RTCF		DIP	155- 49
33♦	74-163N	CMOS	HEF40163BD	VALG		DIP	155- 49
34♦	74-163N	CMOS	HEF40163BP	MULB		DIP	155- 50
35♦	74-163N	CMOS	HEF40163BP	PHIN		DIP	155- 50
36♦	74-163N	CMOS	HEF40163BP	RTCF		DIP	155- 50
37♦	74-163N	CMOS	HEF40163BP	VALG		DIP	155- 50
38♦	74-163N	CMOS	HEF40163BPN	SIC		DIP	155- 73
39▼	74-163N	CMOS	IDT54AHCT163DB	IDT		DIP	156- 3
40▼	74-163N	CMOS	IDT54AHCT163EB	IDT	*	FP	156- 4
41▼	74-163N	CMOS	IDT54AHCT163LB	IDT	*	LLCC	156- 5
42▼	74-163N	CMOS	IDT54FCT163A	IDT		DIP	156- 13
43▼	74-163N	CMOS	IDT54FCT163ADB	IDT		DIP	156- 14
44▼	74-163N	CMOS	IDT54FCT163AEB	IDT	*	FP	156- 15
45▼	74-163N	CMOS	IDT54FCT163ALB	IDT	*	LLCC	156- 16
46▼	74-163N	CMOS	IDT54FCT163DB	IDT		DIP	156- 17
47▼	74-163N	CMOS	IDT54FCT163EB	IDT	*	FP	156- 18
48▼	74-163N	CMOS	IDT54FCT163LB	IDT	*	LLCC	156- 19
49♦	74-163N	CMOS	MC14163BAL	MOTA		DIP	154- 88
50▼	74-163N	CMOS	MC14163BALD	MOTA		DIP	154- 89
51▼	74-163N	CMOS	MC14163BALDS	MOTA		DIP	154- 90
52▼	74-163N	CMOS	MC14163BALS	MOTA		DIP	154- 91
53♦	74-163N	CMOS	MC14163BCL	MOTA		DIP	154- 92
54▼	74-163N	CMOS	MC14163BCLD	MOTA		DIP	154- 93
55▼	74-163N	CMOS	MC14163BCLDS	MOTA		DIP	154- 94
56▼	74-163N	CMOS	MC14163BCLS	MOTA		DIP	154- 95
57♦	74-163N	CMOS	MC14163BCP	MOTA		DIP	154- 96
58▼	74-163N	CMOS	MC14163BCPD	MOTA		DIP	154- 97
59▼	74-163N	CMOS	MC14163BCPDS	MOTA		DIP	154- 98
60▼	74-163N	CMOS	MC14163BCPS	MOTA		DIP	154- 99
61▼	74-163N	CMOS	MC14163BD	MOTA		DIP	154-100
62♦	74-163N	CMOS	SCL4163B	SSS		DIP	154- 45
63♦	74-163N	CMOS	TC40163BP	IMTM		DIP	154- 51
64♦	74-163N	CMOS	TC40163BP	TOSJ		DIP	154- 51
65♦	74-163N	CMOS	40163BDC	FSC		DIP	154- 70
66♦	74-163N	CMOS	40163BDM	FSC		DIP	154- 71
67♦	74-163N	CMOS	40163BPC	FSC		DIP	154- 74
68♦	74-163N	TTL	DM74163AN	NSC		DIP	157- 81
69♦	74-163N	TTL	DM74163N	NSC		DIP	157- 82
70♦	74-163N	TTL	MB74LS163A	FCAJ		DIP	156- 79
71♦	74-163N	TTL	MB74LS163AM	FCAJ		DIP	156- 80
72♦	74-163N	TTL	M53363P	MITJ		DIP	156- 76
73♦	74-163N	TTL	N74LS163AD	MULB		DIP	156- 87
74♦	74-163N	TTL	N74LS163AD	PHIN		DIP	156- 87
75♦	74-163N	TTL	N74LS163AD	RTCF		DIP	156- 87
76♦	74-163N	TTL	N74LS163AD	SIC		DIP	156- 87
77♦	74-163N	TTL	N74LS163AD	VALG		DIP	156- 87
78♦	74-163N	TTL	N74LS163AN	MULB		DIP	156- 88
79♦	74-163N	TTL	N74LS163AN	PHIN		DIP	156- 88
80♦	74-163N	TTL	N74LS163AN	RTCF		DIP	156- 88
81♦	74-163N	TTL	N74LS163AN	SIC		DIP	156- 88
82♦	74-163N	TTL	N74LS163AN	VALG		DIP	156- 88
83♦	74-163N	TTL	N74163F	MULB		DIP	156- 92
84♦	74-163N	TTL	N74163F	PHIN		DIP	156- 92
85♦	74-163N	TTL	N74163F	VALG		DIP	156- 92
86♦	74-163N	TTL	N74163N	MULB		DIP	156- 93
87♦	74-163N	TTL	N74163N	PHIN		DIP	156- 93
88♦	74-163N	TTL	N74163N	RTCF		DIP	156- 93
89♦	74-163N	TTL	N74163N	SIC		DIP	156- 93
90♦	74-163N	TTL	N74163N	VALG		DIP	156- 93
91♦	74-163N	TTL	SN54LS163AJ	MOTA		DIP	157- 61
92♦	74-163N	TTL	SN54LS163AJ	TII		DIP	157- 61
93▼	74-163N	TTL	SN54LS163AN	MOTA		DIP	157- 62
94♦	74-163N	TTL	SN54S163J	TII		DIP	158- 75
95♦	74-163N	TTL	SN54163J	TII		DIP	157- 68
96▼	74-163N	TTL	SN74ALS163BD	TII	*	SO	157-105
97▼	74-163N	TTL	SN74ALS163BN	TII		DIP	157-106
98▼	74-163N	TTL	SN74AS163D	TII	*	SO	158- 86
99♦	74-163N	TTL	SN74AS163N	TII		DIP	158- 87
100♦	74-163N	TTL	SN74LS163AJ	MOTA		DIP	157- 65
101♦	74-163N	TTL	SN74LS163AN	MOTA		DIP	157- 66
102♦	74-163N	TTL	SN74LS163AN	TII		DIP	157- 66
103♦	74-163N	TTL	SN74S163N	TII		DIP	158- 77
104♦	74-163N	TTL	SN74163N	TII		DIP	157- 70
105♦	74-163N	TTL	S54LS163AF	MULB		DIP	156- 97
106♦	74-163N	TTL	S54LS163AF	PHIN		DIP	156- 97
107♦	74-163N	TTL	S54LS163AF	RTCF		DIP	156- 97
108♦	74-163N	TTL	S54LS163AF	SIC		DIP	156- 97
109♦	74-163N	TTL	S54LS163AF	VALG		DIP	156- 97
110♦	74-163N	TTL	S54163E	MULB		DIP	156-104
111♦	74-163N	TTL	S54163E	PHIN		DIP	156-104
112♦	74-163N	TTL	S54163F	MULB		DIP	156-105
113♦	74-163N	TTL	S54163F	PHIN		DIP	156-105
114♦	74-163N	TTL	S54163F	RTCF		DIP	156-105
115♦	74-163N	TTL	S54163F	SIC		DIP	156-105
116♦	74-163N	TTL	S54163F	VALG		DIP	156-105
117♦	74-163N	TTL	54F163DM	FSC		DIP	158-104
118♦	74-163N	TTL	54LS163DM	FSC		DIP	154- 10
119♦	74-163N	TTL	54163DM	FSC		DIP	157- 32
120♦	74-163N	TTL	74F163DC	FSC		DIP	159- 8
121♦	74-163N	TTL	74F163PC	FSC		DIP	159- 9
122♦	74-163N	TTL	74LS163DC	FSC		DIP	154- 14
123♦	74-163N	TTL	74LS163PC	FSC		DIP	154- 15
124♦	74-163N	TTL	74163DC	FSC		DIP	156- 63
125♦	74-163N	TTL	74163PC	FSC		DIP	156- 64
126▼	74LS163N	CMOS	HD74HC163FP	HITJ	*	SO	155-108
127▼	74LS163N	CMOS	HD74HC163P	HITJ		DIP	155-109
128♦	74LS163N	CMOS	MC54HC163J(A)	MOTA		DIP	157- 11
129♦	74LS163N	CMOS	MC74HC163J(A)	MOTA		DIP	157- 14
130♦	74LS163N	CMOS	MC74HC163N(A)	MOTA		DIP	157- 15
131♦	74LS163N	CMOS	MM54HC163J	NSC		DIP	156- 52
132♦	74LS163N	CMOS	MM74C163N	NSC		DIP	154- 43
133♦	74LS163N	CMOS	MM74HC163J	NSC		DIP	156- 83
134♦	74LS163N	CMOS	MM74HC163N	NSC		DIP	156- 84
135♦	74LS163N	CMOS	M40163BP	MITJ		DIP	154- 49
136▼	74LS163N	CMOS	SN74HC163D	TII	*	SO	156-110
137♦	74LS163N	CMOS	SN74HC163N	TII		DIP	157- 1
138♦	74LS163N	CMOS	TC40H163P	IMTM		DIP	155- 78
139♦	74LS163N	CMOS	TC40H163P	TOSJ		DIP	155- 78
140▼	74LS163N	CMOS	TC74HC163F(A)	TOSA	*	SO	158- 52
141▼	74LS163N	CMOS	TC74HC163P(A)	TOSA		DIP	158- 53
142♦	74LS163N	CMOS	883C4163B	SSS		DIP	155- 18
143♦	74LS163N	TTL	DM54S163W	NSC	*	FP	158- 72
144♦	74LS163N	TTL	DM74LS163AN	NSC		DIP	157- 41
145♦	74LS163N	TTL	DM74S163N	NSC		DIP	158- 74
146▼	74LS163N	TTL	HD74LS163G	HITJ		DIP	156- 73
147♦	74LS163N	TTL	HD74LS163P	HITJ		DIP	156- 74
148♦	74LS163N	TTL	M74LS163AP	MITA		DIP	158- 56
149♦	74LS163N	TTL	M74LS163AP	MITJ		DIP	158- 56
150♦	74LS163N	TTL	N74F163AD(A)	MULB	*	SO	159- 20
151♦	74LS163N	TTL	N74F163AD(A)	PHIN	*	SO	159- 20
152♦	74LS163N	TTL	N74F163AD(A)	RTCF	*	SO	159- 20
153♦	74LS163N	TTL	N74F163AD(A)	SIC	*	SO	159- 20
154♦	74LS163N	TTL	N74F163AD(A)	VALG	*	SO	159- 20
155♦	74LS163N	TTL	N74F163AN(A)	MULB		DIP	159- 21
156♦	74LS163N	TTL	N74F163AN(A)	PHIN		DIP	159- 21
157♦	74LS163N	TTL	N74F163AN(A)	RTCF		DIP	159- 21
158♦	74LS163N	TTL	N74F163AN(A)	SIC		DIP	159- 21
159♦	74LS163N	TTL	N74F163AN(A)	VALG		DIP	159- 21
160♦	74LS163N	TTL	S54LS163AG	MULB	*	LLCC	156- 98
161♦	74LS163N	TTL	S54LS163AG	PHIN	*	LLCC	156- 98
162♦	74LS163N	TTL	S54LS163AG	RTCF	*	LLCC	156- 98
163♦	74LS163N	TTL	S54LS163AG	SIC	*	LLCC	156- 98
164♦	74LS163N	TTL	S54LS163AG	VALG	*	LLCC	156- 98
165♦	74-167	TTL	SN54167J	TII		DIP	197- 88
166♦	74-167	TTL	SN74167N	TII		DIP	197- 89
167♦	74S168	TTL	DM54ALS168BJ	NSC		DIP	178-101
168♦	74S168	TTL	DM54AS168J	NSC		DIP	180- 33
169♦	74S168	TTL	DM54LS168AJ	NSC		DIP	179- 76
170♦	74S168	TTL	DM74ALS168BJ	NSC		DIP	179- 57
171♦	74S168	TTL	DM74ALS168BN	NSC		DIP	179- 58
172♦	74S168	TTL	DM74AS168J	NSC		DIP	180- 35
173♦	74S168	TTL	DM74AS168N	NSC		DIP	180- 36
174♦	74S168	TTL	DM74LS168AN	NSC		DIP	162- 89
175♦	74S168	TTL	M74ALS168AP	MITA		DIP	179- 53
176♦	74S168	TTL	M74ALS168AP	MITJ		DIP	179- 53
177♦	74S168	TTL	N74F168D(A)	MULB	*	SO	180- 39
178♦	74S168	TTL	N74F168D(A)	PHIN	*	SO	180- 39
179♦	74S168	TTL	N74F168D(A)	RTCF	*	SO	180- 39
180♦	74S168	TTL	N74F168D(A)	SIC	*	SO	180- 39
181♦	74S168	TTL	N74F168D(A)	VALG	*	SO	180- 39
182♦	74S168	TTL	N74F168N(A)	MULB		DIP	180- 40
183♦	74S168	TTL	N74F168N(A)	PHIN		DIP	180- 40
184♦	74S168	TTL	N74F168N(A)	RTCF		DIP	180- 40
185♦	74S168	TTL	N74F168N(A)	SIC		DIP	180- 40
186♦	74S168	TTL	N74F168N(A)	VALG		DIP	180- 40
187♦	74S168	TTL	N74S168AN	MULB		DIP	180- 4
188♦	74S168	TTL	N74S168AN	PHIN		DIP	180- 4
189♦	74S168	TTL	N74S168AN	RTCF		DIP	180- 4
190♦	74S168	TTL	N74S168AN	SIC		DIP	180- 4
191♦	74S168	TTL	N74S168AN	VALG		DIP	180- 4
192♦	74S168	TTL	54F168DM	FSC		DIP	180- 43
193♦	74S168	TTL	74F168DC	FSC		DIP	180- 47
194♦	74S168	TTL	74F168PC	FSC		DIP	180- 49
195♦	74S168N	TTL	M74LS668P	MITA		DIP	181- 97
196♦	74S168N	TTL	M74LS668P	MITJ		DIP	181- 97
197♦	74S168N	TTL	N74LS168AF	MULB		DIP	179- 12
198♦	74S168N	TTL	N74LS168AF	PHIN		DIP	179- 12
199♦	74S168N	TTL	N74LS168AF	RTCF		DIP	179- 12
200♦	74S168N	TTL	N74LS168AF	VALG		DIP	179- 12
201♦	74S168N	TTL	N74LS168AN	MULB		DIP	179- 13
202♦	74S168N	TTL	N74LS168AN	PHIN		DIP	179- 13
203♦	74S168N	TTL	N74LS168AN	RTCF		DIP	179- 13
204♦	74S168N	TTL	N74LS168AN	SIC		DIP	179- 13
205♦	74S168N	TTL	N74LS168AN	VALG		DIP	179- 13
206♦	74S168N	TTL	N74S168AD	MULB	*	SO	180- 3
207♦	74S168N	TTL	N74S168AD	PHIN	*	SO	180- 3
208♦	74S168N	TTL	N74S168AD	RTCF	*	SO	180- 3
209♦	74S168N	TTL	N74S168AD	SIC	*	SO	180- 3
210♦	74S168N	TTL	N74S168AD	VALG	*	SO	180- 3
211♦	74S168N	TTL	N74S168F	MULB		DIP	180- 5
212♦	74S168N	TTL	N74S168N	MULB		DIP	180- 6
213♦	74S168N	TTL	N74S168N	SIC		DIP	180- 6
214♦	74S168N	TTL	SN54LS168AJ	MOTA		DIP	179- 85
215▼	74S168N	TTL	SN54LS168AN	MOTA		DIP	179- 86
216♦	74S168N	TTL	SN54LS168J	MOTA		DIP	179- 30
217♦	74S168N	TTL	SN54LS668J	MOTA		DIP	179- 89
218♦	74S168N	TTL	SN54LS668J	TII		DIP	179- 89
219▼	74S168N	TTL	SN54LS668N	MOTA		DIP	179- 90
220♦	74S168N	TTL	SN54S168J	TII		DIP	180- 34

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG SMD	PKG TYPE	PAGE & LINE
1▼	74S168N	TTL	SN74ALS168BD	TII	*	SO	180- 16
2▼	74S168N	TTL	SN74ALS168BN	TII		DIP	180- 17
3▼	74S168N	TTL	SN74AS168D	TII	*	SO	180- 37
4♦	74S168N	TTL	SN74AS168N	TII		DIP	180- 38
5♦	74S168N	TTL	SN74LS168AJ	MOTA		DIP	179- 91
6♦	74S168N	TTL	SN74LS168AN	MOTA		DIP	179- 92
7♦	74S168N	TTL	SN74LS168J	MOTA		DIP	179- 39
8♦	74S168N	TTL	SN74LS168N	MOTA		DIP	179- 40
9♦	74S168N	TTL	SN74LS668J	MOTA		DIP	179- 96
10♦	74S168N	TTL	SN74LS668N	MOTA		DIP	181- 98
11♦	74S168N	TTL	SN74LS668N	TII		DIP	181- 98
12♦	74S168N	TTL	SN74S168N	TII		DIP	180- 32
13♦	74S168N	TTL	S54LS168AF	MULB		DIP	179- 21
14♦	74S168N	TTL	S54LS168AF	PHIN		DIP	179- 21
15♦	74S168N	TTL	S54LS168AF	RTCF		DIP	179- 21
16♦	74S168N	TTL	S54LS168AF	SIC		DIP	179- 21
17♦	74S168N	TTL	S54LS168AF	VALG		DIP	179- 21
18♦	74S168N	TTL	S54S168AF	MULB		DIP	180- 14
19♦	74S168N	TTL	S54S168AF	PHIN		DIP	180- 14
20♦	74S168N	TTL	S54S168AF	RTCF		DIP	180- 14
21♦	74S168N	TTL	S54S168AF	SIC		DIP	180- 14
22♦	74S168N	TTL	S54S168AF	VALG		DIP	180- 14
23♦	74S168N	TTL	S54S168F	MULB		DIP	180- 15
24♦	74S168N	TTL	S54S168F	SIC		DIP	180- 15
25♦	74S168N	TTL	54LS168DM	FSC		DIP	178- 92
26♦	74S168N	TTL	74LS168DC	FSC		DIP	178- 96
27♦	74S168N	TTL	74LS168PC	FSC		DIP	178- 97
28♦	74S169	TTL	DM54ALS169BJ	NSC		DIP	161-110
29♦	74S169	TTL	DM54AS169J	NSC		DIP	163- 57
30♦	74S169	TTL	DM54LS169AJ	NSC		DIP	162- 86
31♦	74S169	TTL	DM74ALS169BJ	NSC		DIP	162- 63
32♦	74S169	TTL	DM74ALS169BN	NSC		DIP	162- 64
33♦	74S169	TTL	DM74AS169J	NSC		DIP	163- 60
34♦	74S169	TTL	DM74AS169N	NSC		DIP	163- 61
35♦	74S169	TTL	DM74LS169AN	NSC		DIP	162- 90
36♦	74S169	TTL	M74ALS169AP	MITA		DIP	162- 56
37♦	74S169	TTL	M74ALS169AP	MITJ		DIP	162- 56
38♦	74S169	TTL	N74F169D(A)	MULB	*	SO	163- 64
39♦	74S169	TTL	N74F169D(A)	PHIN	*	SO	163- 64
40♦	74S169	TTL	N74F169D(A)	RTCF	*	SO	163- 64
41♦	74S169	TTL	N74F169D(A)	SIC	*	SO	163- 64
42♦	74S169	TTL	N74F169D(A)	VALG	*	SO	163- 64
43♦	74S169	TTL	N74F169N(A)	MULB		DIP	163- 65
44♦	74S169	TTL	N74F169N(A)	PHIN		DIP	163- 65
45♦	74S169	TTL	N74F169N(A)	RTCF		DIP	163- 65
46♦	74S169	TTL	N74F169N(A)	SIC		DIP	163- 65
47♦	74S169	TTL	N74F169N(A)	VALG		DIP	163- 65
48♦	74S169	TTL	N74S169AN	MULB		DIP	163- 25
49♦	74S169	TTL	N74S169AN	PHIN		DIP	163- 25
50♦	74S169	TTL	N74S169AN	RTCF		DIP	163- 25
51♦	74S169	TTL	N74S169AN	VALG		DIP	163- 25
52♦	74S169	TTL	SN54ALS169BJ	TII		DIP	161- 95
53♦	74S169	TTL	SN74LS169BD	TII	*	SO	163- 15
54♦	74S169	TTL	SN74LS169BN	TII		DIP	163- 17
55♦	74S169	TTL	SN74LS669D	TII	*	SO	162-108
56♦	74S169	TTL	SN74S169D	TII	*	SO	163- 59
57♦	74S169	TTL	54F169DM	FSC		DIP	163- 70
58♦	74S169	TTL	74F169DC	FSC		DIP	163- 74
59♦	74S169	TTL	74F169PC	FSC		DIP	163- 76
60▼	74S169N	TTL	HD74LS669G	HITJ		DIP	162- 13
61♦	74S169N	TTL	HD74LS669P	HITJ		DIP	162- 14
62♦	74S169N	TTL	M74LS669P	MITA		DIP	159- 83
63♦	74S169N	TTL	M74LS669P	MITJ		DIP	159- 83
64♦	74S169N	TTL	N74LS169AD	MULB	*	SO	162- 20
65♦	74S169N	TTL	N74LS169AD	PHIN	*	SO	162- 20
66♦	74S169N	TTL	N74LS169AD	RTCF	*	SO	162- 20
67♦	74S169N	TTL	N74LS169AD	SIC	*	SO	162- 20
68♦	74S169N	TTL	N74LS169AD	VALG	*	SO	162- 20
69♦	74S169N	TTL	N74LS169AF	MULB		DIP	162- 21
70♦	74S169N	TTL	N74LS169AF	PHIN		DIP	162- 21
71♦	74S169N	TTL	N74LS169AF	RTCF		DIP	162- 21
72♦	74S169N	TTL	N74LS169AF	VALG		DIP	162- 21
73♦	74S169N	TTL	N74LS169AN	MULB		DIP	162- 22
74♦	74S169N	TTL	N74LS169AN	PHIN		DIP	162- 22
75♦	74S169N	TTL	N74LS169AN	RTCF		DIP	162- 22
76♦	74S169N	TTL	N74LS169AN	SIC		DIP	162- 22
77♦	74S169N	TTL	N74LS169AN	VALG		DIP	162- 22
78♦	74S169N	TTL	N74S169AD	MULB	*	SO	163- 24
79♦	74S169N	TTL	N74S169AD	PHIN	*	SO	163- 24
80♦	74S169N	TTL	N74S169AD	RTCF	*	SO	163- 24
81♦	74S169N	TTL	N74S169AD	SIC	*	SO	163- 24
82♦	74S169N	TTL	N74S169AD	VALG	*	SO	163- 24
83♦	74S169N	TTL	N74S169N	MULB		DIP	163- 27
84♦	74S169N	TTL	N74S169N	SIC		DIP	163- 27
85♦	74S169N	TTL	SN54LS169AJ	MOTA		DIP	162- 97
86▼	74S169N	TTL	SN54LS169AN	MOTA		DIP	162- 98
87♦	74S169N	TTL	SN54LS169J	MOTA		DIP	162- 38
88♦	74S169N	TTL	SN54LS669J	MOTA		DIP	162-101
89♦	74S169N	TTL	SN54LS669J	TII		DIP	162-101
90▼	74S169N	TTL	SN54LS669N	MOTA		DIP	162-102
91♦	74S169N	TTL	SN54S169J	TII		DIP	163- 58
92▼	74S169N	TTL	SN74ALS169BD	TII	*	SO	163- 40
93▼	74S169N	TTL	SN74AS169D	TII	*	SO	163- 62
94♦	74S169N	TTL	SN74AS169N	TII		DIP	163- 63
95♦	74S169N	TTL	SN74LS169AJ	MOTA		DIP	162-103
96♦	74S169N	TTL	SN74LS169AN	MOTA		DIP	162-104
97♦	74S169N	TTL	SN74LS169J	MOTA		DIP	162- 43
98♦	74S169N	TTL	SN74LS169N	MOTA		DIP	162- 44
99♦	74S169N	TTL	SN74LS669J	MOTA		DIP	162-109
100♦	74S169N	TTL	SN74LS669N	MOTA		DIP	162-110
101♦	74S169N	TTL	SN74LS669N	TII		DIP	162-110
102♦	74S169N	TTL	SN74S169N	TII		DIP	163- 56
103♦	74S169N	TTL	S54LS169AF	MULB		DIP	162- 28
104♦	74S169N	TTL	S54LS169AF	PHIN		DIP	162- 28
105♦	74S169N	TTL	S54LS169AF	RTCF		DIP	162- 28
106♦	74S169N	TTL	S54LS169AF	SIC		DIP	162- 28
107♦	74S169N	TTL	S54LS169AF	VALG		DIP	162- 28
108♦	74S169N	TTL	S54S169AF	MULB		DIP	163- 38
109♦	74S169N	TTL	S54S169AF	PHIN		DIP	163- 38
110♦	74S169N	TTL	S54S169AF	RTCF		DIP	163- 38
111♦	74S169N	TTL	S54S169AF	SIC		DIP	163- 38
112♦	74S169N	TTL	S54S169AF	VALG		DIP	163- 38
113♦	74S169N	TTL	S54S169F	MULB		DIP	163- 39
114♦	74S169N	TTL	S54S169F	SIC		DIP	163- 39
115♦	74S169N	TTL	54LS169DM	FSC		DIP	161-102
116♦	74S169N	TTL	74LS169DC	FSC		DIP	161-104
117♦	74S169N	TTL	74LS169PC	FSC		DIP	161-105
118♦	74LS171	TTL	SN74LS171N	TII		DIP	55- 14
119♦	74-173	CMOS	MC54HC173J	MOTA		DIP	54-110
120♦	74-173	CMOS	MC74HC173J	MOTA		DIP	55- 1
121♦	74-173	CMOS	MC74HC173N	MOTA		DIP	55- 2
122♦	74-173	CMOS	PC54HCT173D(A)	MULB		DIP	55- 45
123♦	74-173	CMOS	PC54HCT173D(A)	PHIN		DIP	55- 45
124♦	74-173	CMOS	PC54HCT173D(A)	RTCF		DIP	55- 45
125♦	74-173	CMOS	PC54HCT173D(A)	VALG		DIP	55- 45
126♦	74-173	CMOS	PC54HC173D(A)	MULB		DIP	55- 53
127♦	74-173	CMOS	PC54HC173D(A)	PHIN		DIP	55- 53
128♦	74-173	CMOS	PC54HC173D(A)	RTCF		DIP	55- 53
129♦	74-173	CMOS	PC54HC173D(A)	VALG		DIP	55- 53
130♦	74-173	CMOS	PC74HCT173D(A)	MULB		DIP	55- 46
131♦	74-173	CMOS	PC74HCT173D(A)	PHIN		DIP	55- 46
132♦	74-173	CMOS	PC74HCT173D(A)	RTCF		DIP	55- 46
133♦	74-173	CMOS	PC74HCT173D(A)	VALG		DIP	55- 46
134♦	74-173	CMOS	PC74HCT173P	MULB		DIP	54- 28
135♦	74-173	CMOS	PC74HCT173P	PHIN		DIP	54- 28
136♦	74-173	CMOS	PC74HCT173P	RTCF		DIP	54- 28
137♦	74-173	CMOS	PC74HCT173P	VALG		DIP	54- 28
138	74-173	CMOS	PC74HCT173T	MULB	*	SO	54- 29
139	74-173	CMOS	PC74HCT173T	PHIN	*	SO	54- 29
140	74-173	CMOS	PC74HCT173T	RTCF	*	SO	54- 29
141	74-173	CMOS	PC74HCT173T	VALG	*	SO	54- 29
142♦	74-173	CMOS	PC74HC173D(A)	MULB		DIP	55- 54
143♦	74-173	CMOS	PC74HC173D(A)	PHIN		DIP	55- 54
144♦	74-173	CMOS	PC74HC173D(A)	RTCF		DIP	55- 54
145♦	74-173	CMOS	PC74HC173D(A)	VALG		DIP	55- 54
146♦	74-173	CMOS	PC74HC173P	MULB		DIP	54- 31
147♦	74-173	CMOS	PC74HC173P	PHIN		DIP	54- 31
148♦	74-173	CMOS	PC74HC173P	RTCF		DIP	54- 31
149♦	74-173	CMOS	PC74HC173P	VALG		DIP	54- 31
150	74-173	CMOS	PC74HC173T	MULB	*	SO	54- 32
151	74-173	CMOS	PC74HC173T	PHIN	*	SO	54- 32
152	74-173	CMOS	PC74HC173T	RTCF	*	SO	54- 32
153	74-173	CMOS	PC74HC173T	VALG	*	SO	54- 32
154▼	74-173	CMOS	SN74HC173D	TII	*	SO	54- 73
155▼	74-173	CMOS	SN74HC173N	TII		DIP	54- 74
156	74-173	CMOS	74HCT173D	SIC	*	SO	54- 33
157♦	74-173	CMOS	74HCT173N	SIC		DIP	54- 34
158	74-173	CMOS	74HC173D	SIC	*	SO	54- 77
159♦	74-173	CMOS	74HC173N	SIC		DIP	54- 78
160♦	74-173	TTL	DN74LS173P1	MATJ		DIP	54-100
161♦	74-173	TTL	DN74LS173P2	MATJ		DIP	54-101
162	74-173N	CMOS	BCL4076B	SSS		DIP	54- 21
163	74-173N	CMOS	CD4076BC	NSC		DIP	54- 15
164	74-173N	CMOS	CD4076BM	NSC		DIP	54- 16
165♦	74-173N	CMOS	CD54HCT173F	RCA		DIP	55- 58
166♦	74-173N	CMOS	CD54HC173F	RCA		DIP	55- 57
167♦	74-173N	CMOS	CD74HCT173E	RCA		DIP	55- 61
168♦	74-173N	CMOS	CD74HCT173M	RCA		SO	55- 62
169♦	74-173N	CMOS	CD74HC173E	RCA		DIP	55- 59
170♦	74-173N	CMOS	CD74HC173M	RCA		SO	55- 60
171♦	74-173N	CMOS	HCF4076BE(1)	SGSI		DIP	54- 22
172♦	74-173N	CMOS	HCF4076BF(1)	SGSI			54- 23
173▼	74-173N	CMOS	HD74HC173FP	HITJ	*	SO	54- 46
174▼	74-173N	CMOS	HD74HC173P	HITJ		DIP	54- 47
175	74-173N	CMOS	MM54C173D(1)	NSC		DIP	54- 17
176♦	74-173N	CMOS	MM54HC173J	NSC		DIP	54- 48
177	74-173N	CMOS	MM74C173N(1)	NSC		DIP	54- 18
178♦	74-173N	CMOS	MM74HC173J	NSC		DIP	54- 66
179♦	74-173N	CMOS	MM74HC173N	NSC		DIP	54- 67
180	74-173N	CMOS	SCL4076B	SSS		DIP	54- 25
181▼	74-173N	CMOS	TC74HC173F(A)	TOSA	*	SO	55- 55
182▼	74-173N	CMOS	TC74HC173P(A)	TOSA		DIP	55- 56
183	74-173N	CMOS	883C4076B	SSS		DIP	54- 20
184♦	74-173N	TTL	M74LS173AP(1)	MITA		DIP	55- 43
185♦	74-173N	TTL	M74LS173AP(1)	MITJ		DIP	55- 43
186♦	74-173N	TTL	N74LS173F	MULB		DIP	55- 4
187♦	74-173N	TTL	N74LS173F	VALG		DIP	55- 4
188♦	74-173N	TTL	N74LS173N	MULB		DIP	55- 5
189♦	74-173N	TTL	N74LS173N	PHIN		DIP	55- 5
190♦	74-173N	TTL	N74LS173N	RTCF		DIP	55- 5
191♦	74-173N	TTL	N74LS173N	SIC		DIP	55- 5
192♦	74-173N	TTL	N74LS173N	VALG		DIP	55- 5
193♦	74-173N	TTL	N74173F	MULB		DIP	54- 68
194♦	74-173N	TTL	N74173F	VALG		DIP	54- 68
195♦	74-173N	TTL	N74173N	MULB		DIP	54- 69
196♦	74-173N	TTL	N74173N	PHIN		DIP	54- 69
197♦	74-173N	TTL	N74173N	RTCF		DIP	54- 69
198♦	74-173N	TTL	N74173N	SIC		DIP	54- 69
199♦	74-173N	TTL	N74173N	VALG		DIP	54- 69
200♦	74-173N	TTL	SN54LS173AJ(1)	TII		DIP	55- 47
201♦	74-173N	TTL	SN74LS173AN(1)	TII		DIP	55- 50
202♦	74-173N	TTL	S54LS173F	MULB		DIP	55- 8
203♦	74-173N	TTL	S54LS173F	PHIN		DIP	55- 8
204♦	74-173N	TTL	S54LS173F	RTCF		DIP	55- 8
205♦	74-173N	TTL	S54LS173F	SIC		DIP	55- 8
206♦	74-173N	TTL	S54LS173F	VALG		DIP	55- 8
207♦	74-174	CMOS	M54HC174F1(A)	SGSI		DIP	57- 5
208♦	74-174	CMOS	M74HC174B1(A)	SGSI		DIP	56- 23
209♦	74-174	CMOS	M74HC174F1(A)	SGSI		DIP	56- 25
210♦	74-174	CMOS	M74HC174P	MITJ		DIP	56- 83
211♦	74-174	CMOS	PC54HCT174D(A)	MULB		DIP	57- 6
212♦	74-174	CMOS	PC54HCT174D(A)	PHIN		DIP	57- 6
213♦	74-174	CMOS	PC54HCT174D(A)	RTCF		DIP	57- 6
214♦	74-174	CMOS	PC54HCT174D(A)	VALG		DIP	57- 6
215♦	74-174	CMOS	PC54HC174D(A)	MULB		DIP	57- 10
216♦	74-174	CMOS	PC54HC174D(A)	PHIN		DIP	57- 10
217♦	74-174	CMOS	PC54HC174D(A)	RTCF		DIP	57- 10
218♦	74-174	CMOS	PC54HC174D(A)	VALG		DIP	57- 10
219♦	74-174	CMOS	PC74HCT174D(A)	MULB		DIP	57- 7
220♦	74-174	CMOS	PC74HCT174D(A)	PHIN		DIP	57- 7

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-174	CMOS	PC74HCT174D(A)	RTCF		DIP	57- 7
2♦	74-174	CMOS	PC74HCT174D(A)	VALG		DIP	57- 7
3♦	74-174	CMOS	PC74HCT174P	MULB		DIP	56- 29
4♦	74-174	CMOS	PC74HCT174P	PHIN		DIP	56- 29
5♦	74-174	CMOS	PC74HCT174P	RTCF		DIP	56- 29
6♦	74-174	CMOS	PC74HCT174P	VALG		DIP	56- 29
7	74-174	CMOS	PC74HCT174T	MULB	*	SO	56- 30
8	74-174	CMOS	PC74HCT174T	PHIN	*	SO	56- 30
9	74-174	CMOS	PC74HCT174T	RTCF	*	SO	56- 30
10	74-174	CMOS	PC74HCT174T	VALG	*	SO	56- 30
11♦	74-174	CMOS	PC74HC174D(A)	MULB		DIP	57- 11
12♦	74-174	CMOS	PC74HC174D(A)	PHIN		DIP	57- 11
13♦	74-174	CMOS	PC74HC174D(A)	RTCF		DIP	57- 11
14♦	74-174	CMOS	PC74HC174D(A)	VALG		DIP	57- 11
15♦	74-174	CMOS	PC74HC174P	MULB		DIP	56- 27
16♦	74-174	CMOS	PC74HC174P	PHIN		DIP	56- 27
17♦	74-174	CMOS	PC74HC174P	RTCF		DIP	56- 27
18♦	74-174	CMOS	PC74HC174P	VALG		DIP	56- 27
19	74-174	CMOS	PC74HC174T	MULB	*	SO	56- 28
20	74-174	CMOS	PC74HC174T	PHIN	*	SO	56- 28
21	74-174	CMOS	PC74HC174T	RTCF	*	SO	56- 28
22	74-174	CMOS	PC74HC174T	VALG	*	SO	56- 28
23♦	74-174	CMOS	UPD74HC174C(A)	NECJ		DIP	57- 12
24	74-174	CMOS	74HCT174D	SIC	*	SO	56- 36
25♦	74-174	CMOS	74HCT174N	SIC		DIP	56- 37
26	74-174	CMOS	74HC174D	SIC	*	SO	56- 51
27♦	74-174	CMOS	74HC174N	SIC		DIP	56- 52
28♦	74-174	TTL	DM54AS174J(A)	NSC		DIP	57- 28
29♦	74-174	TTL	DM54LS174J	NSC		DIP	56- 87
30▼	74-174	TTL	DM54174J	NSC		DIP	56- 63
31♦	74-174	TTL	DM74AS174J(A)	NSC		DIP	57- 36
32♦	74-174	TTL	DM74AS174N(A)	NSC		DIP	57- 37
33♦	74-174	TTL	DN74LS174P2	MATJ		DIP	56- 94
34	74-174	TTL	DN74LS174P5	MATJ	*	SO	56- 95
35♦	74-174	TTL	MC54F174J	MOTA		DIP	57- 53
36▼	74-174	TTL	MC54F174N	MOTA		DIP	57- 54
37♦	74-174	TTL	MC74F174J	MOTA		DIP	57- 55
38♦	74-174	TTL	MC74F174N	MOTA		DIP	57- 56
39♦	74-174	TTL	M74ALS174P	MITA		DIP	57- 2
40♦	74-174	TTL	M74ALS174P	MITJ		DIP	57- 2
41♦	74-174	TTL	N74F174D(A)	MULB	*	SO	57- 29
42♦	74-174	TTL	N74F174D(A)	PHIN	*	SO	57- 29
43♦	74-174	TTL	N74F174D(A)	RTCF	*	SO	57- 29
44♦	74-174	TTL	N74F174D(A)	SIC	*	SO	57- 29
45♦	74-174	TTL	N74F174D(A)	VALG	*	SO	57- 29
46♦	74-174	TTL	N74F174N(A)	MULB		DIP	57- 30
47♦	74-174	TTL	N74F174N(A)	PHIN		DIP	57- 30
48♦	74-174	TTL	N74F174N(A)	RTCF		DIP	57- 30
49♦	74-174	TTL	N74F174N(A)	SIC		DIP	57- 30
50♦	74-174	TTL	N74F174N(A)	VALG		DIP	57- 30
51▼	74-174	TTL	SN54174J	TII		DIP	56- 85
52	74-174	TTL	SN74LS174D	TII	*	SO	56-103
53	74-174	TTL	SN74S174D	TII	*	SO	57- 43
54▼	74-174	TTL	SN74174N	TII		DIP	56- 86
55♦	74-174	TTL	54F174DM	FSC		DIP	57- 46
56♦	74-174	TTL	74F174DC	FSC		DIP	57- 48
57♦	74-174	TTL	74F174PC	FSC		DIP	57- 50
58	74-174N	CMOS	BCL4174B	SSS		DIP	56- 14
59	74-174N	CMOS	CD40174BC	NSC		DIP	56- 6
60	74-174N	CMOS	CD40174BD(1)	RCA		DIP	56- 8
61	74-174N	CMOS	CD40174BE(1)	RCA		DIP	56- 9
62	74-174N	CMOS	CD40174BF(1)	RCA		DIP	56- 10
63	74-174N	CMOS	CD40174BM	NSC		DIP	56- 7
64♦	74-174N	CMOS	CD54HCT174F	RCA		DIP	56- 39
65♦	74-174N	CMOS	CD54HC174F	RCA		DIP	56- 38
66♦	74-174N	CMOS	CD74HCT174E	RCA		DIP	56- 55
67♦	74-174N	CMOS	CD74HCT174M	RCA		SO	56- 56
68♦	74-174N	CMOS	CD74HC174E	RCA		DIP	56- 53
69♦	74-174N	CMOS	CD74HC174M	RCA		SO	56- 54
70♦	74-174N	CMOS	HCC40174BD	SGSI		DIP	56- 16
71♦	74-174N	CMOS	HCC40174BF	SGSI		DIP	56- 17
72♦	74-174N	CMOS	HCF40174BE	SGSI		DIP	56- 19
73♦	74-174N	CMOS	HCF40174BF	SGSI		DIP	56- 20
74▼	74-174N	CMOS	HD74HC174FP	HITJ	*	SO	56- 40
75▼	74-174N	CMOS	HD74HC174P	HITJ		DIP	56- 41
76♦	74-174N	CMOS	HEF40174BD(1)	MULB		DIP	56- 66
77♦	74-174N	CMOS	HEF40174BD(1)	PHIN		DIP	56- 66
78♦	74-174N	CMOS	HEF40174BD(1)	RTCF		DIP	56- 66
79♦	74-174N	CMOS	HEF40174BD(1)	VALG		DIP	56- 66
80♦	74-174N	CMOS	HEF40174BP(1)	MULB		DIP	56- 67
81♦	74-174N	CMOS	HEF40174BP(1)	PHIN		DIP	56- 67
82♦	74-174N	CMOS	HEF40174BP(1)	RTCF		DIP	56- 67
83♦	74-174N	CMOS	HEF40174BP(1)	VALG		DIP	56- 67
84♦	74-174N	CMOS	HEF40174BPN	SIC		DIP	56-110
85▼	74-174N	CMOS	HEF40174BT(1)	PHIN	*	SO	56- 69
86♦	74-174N	CMOS	HEF40174P(1)	MULB		DIP	56- 21
87♦	74-174N	CMOS	HEF40174P(1)	PHIN		DIP	56- 21
88♦	74-174N	CMOS	HEF40174P(1)	VALG		DIP	56- 21
89♦	74-174N	CMOS	MC54HC174J(A)	MOTA		DIP	56- 72
90♦	74-174N	CMOS	MC74HC174J(A)	MOTA		DIP	56- 73
91♦	74-174N	CMOS	MC74HC174N(A)	MOTA		DIP	56- 74
92	74-174N	CMOS	MM54C174D(1)	NSC		DIP	56- 11
93♦	74-174N	CMOS	MM54HC174J	NSC		DIP	56- 26
94	74-174N	CMOS	MM74C174N(1)	NSC		DIP	56- 12
95♦	74-174N	CMOS	MM74HC174J	NSC		DIP	56- 42
96♦	74-174N	CMOS	MM74HC174N	NSC		DIP	56- 43
97♦	74-174N	CMOS	M40174BP	MITJ		DIP	56- 4
98	74-174N	CMOS	SCL4174B	SSS		DIP	49- 73
99♦	74-174N	CMOS	SN54HC174J	TII		DIP	56- 35
100▼	74-174N	CMOS	SN74HC174D	TII	*	SO	56- 49
101♦	74-174N	CMOS	SN74HC174N	TII		DIP	56- 50
102	74-174N	CMOS	TC40H174P	IMTM		DIP	56- 34
103	74-174N	CMOS	TC40H174P	TOSJ		DIP	56- 34
104♦	74-174N	CMOS	TC40174BP	IMTM		DIP	56- 5
105♦	74-174N	CMOS	TC40174BP	TOSJ		DIP	56- 5
106▼	74-174N	CMOS	TC74HC174F(A)	TOSA	*	SO	56-109
107♦	74-174N	CMOS	TC74HC174P	TOSA		DIP	57- 4
108♦	74-174N	CMOS	TC74HC174P	TOSJ		DIP	57- 4
109	74-174N	CMOS	883C4174B	SSS		DIP	56- 13
110♦	74-174N	TTL	DM54S174J	NSC		DIP	57- 13
111♦	74-174N	TTL	DM74LS174N	NSC		DIP	56- 89
112♦	74-174N	TTL	DM74S174N	NSC		DIP	57- 39
113▼	74-174N	TTL	DM74174N	NSC		DIP	56- 92
114▼	74-174N	TTL	HD74LS174G	HITJ		DIP	56- 64
115▼	74-174N	TTL	HD74LS174P	HITJ		DIP	56- 65
116♦	74-174N	TTL	MB74LS174	FCAJ		DIP	56- 70
117♦	74-174N	TTL	MB74LS174M	FCAJ		DIP	56- 71
118♦	74-174N	TTL	M74LS174P	MITA		DIP	57- 3
119♦	74-174N	TTL	M74LS174P	MITJ		DIP	57- 3
120	74-174N	TTL	N74LS174D	MULB	*	SO	56- 75
121	74-174N	TTL	N74LS174D	PHIN	*	SO	56- 75
122	74-174N	TTL	N74LS174D	RTCF	*	SO	56- 75
123	74-174N	TTL	N74LS174D	SIC	*	SO	56- 75
124	74-174N	TTL	N74LS174D	VALG	*	SO	56- 75
125♦	74-174N	TTL	N74LS174F(1)	PHIN		DIP	56- 96
126♦	74-174N	TTL	N74LS174F(1)	SIC		DIP	56- 96
127♦	74-174N	TTL	N74LS174F(1)	VALG		DIP	56- 96
128♦	74-174N	TTL	N74LS174N(1)	MULB		DIP	56- 76
129♦	74-174N	TTL	N74LS174N(1)	PHIN		DIP	56- 76
130♦	74-174N	TTL	N74LS174N(1)	RTCF		DIP	56- 76
131♦	74-174N	TTL	N74LS174N(1)	SIC		DIP	56- 76
132♦	74-174N	TTL	N74LS174N(1)	VALG		DIP	56- 76
133	74-174N	TTL	N74S174D	MULB	*	SO	57- 18
134	74-174N	TTL	N74S174D	PHIN	*	SO	57- 18
135	74-174N	TTL	N74S174D	RTCF	*	SO	57- 18
136	74-174N	TTL	N74S174D	SIC	*	SO	57- 18
137	74-174N	TTL	N74S174D	VALG	*	SO	57- 18
138♦	74-174N	TTL	N74S174F	VALG		DIP	57- 41
139♦	74-174N	TTL	N74S174N	MULB		DIP	57- 19
140♦	74-174N	TTL	N74S174N	PHIN		DIP	57- 19
141♦	74-174N	TTL	N74S174N	RTCF		DIP	57- 19
142♦	74-174N	TTL	N74S174N	SIC		DIP	57- 19
143♦	74-174N	TTL	N74S174N	VALG		DIP	57- 19
144♦	74-174N	TTL	N74174F	VALG		DIP	56- 84
145♦	74-174N	TTL	N74174N	MULB		DIP	56- 46
146♦	74-174N	TTL	N74174N	PHIN		DIP	56- 46
147♦	74-174N	TTL	N74174N	RTCF		DIP	56- 46
148♦	74-174N	TTL	N74174N	SIC		DIP	56- 46
149♦	74-174N	TTL	N74174N	VALG		DIP	56- 46
150♦	74-174N	TTL	SN54ALS174J	TII		DIP	56- 98
151♦	74-174N	TTL	SN54AS174J	TII		DIP	57- 33
152♦	74-174N	TTL	SN54S174J(1)	TII		DIP	57- 42
153▼	74-174N	TTL	SN74ALS174D	TII	*	SO	57- 8
154♦	74-174N	TTL	SN74ALS174N	TII		DIP	57- 9
155▼	74-174N	TTL	SN74AS174D	TII	*	SO	57- 34
156♦	74-174N	TTL	SN74AS174N	TII		DIP	57- 35
157♦	74-174N	TTL	SN74LS174J	MOTA		DIP	56-104
158▼	74-174N	TTL	SN74LS174N	MOTA		DIP	56-105
159▼	74-174N	TTL	SN74LS174N	TII		DIP	56-105
160▼	74-174N	TTL	SN74S174J	AMD		DIP	57- 44
161♦	74-174N	TTL	SN74S174N(1)	AMD		DIP	57- 45
162♦	74-174N	TTL	SN74S174N(1)	TII		DIP	57- 45
163♦	74-174N	TTL	S54LS174F	MULB		DIP	56- 78
164♦	74-174N	TTL	S54LS174F	PHIN		DIP	56- 78
165♦	74-174N	TTL	S54LS174F	RTCF		DIP	56- 78
166♦	74-174N	TTL	S54LS174F	SIC		DIP	56- 78
167♦	74-174N	TTL	S54LS174F	VALG		DIP	56- 78
168♦	74-174N	TTL	S54S174F(1)	MULB		DIP	57- 20
169♦	74-174N	TTL	S54S174F(1)	PHIN		DIP	57- 20
170♦	74-174N	TTL	S54S174F(1)	RTCF		DIP	57- 20
171♦	74-174N	TTL	S54S174F(1)	SIC		DIP	57- 20
172♦	74-174N	TTL	S54S174F(1)	VALG		DIP	57- 20
173♦	74-174N	TTL	S54174F	MULB		DIP	56- 47
174♦	74-174N	TTL	S54174F	PHIN		DIP	56- 47
175♦	74-174N	TTL	S54174F	RTCF		DIP	56- 47
176♦	74-174N	TTL	S54174F	SIC		DIP	56- 47
177♦	74-174N	TTL	S54174F	VALG		DIP	56- 47
178♦	74-175	CMOS	M54HC175F1(A)	SGSI		DIP	55- 68
179♦	74-175	CMOS	M74HC175B1(A)	SGSI		DIP	54- 38
180♦	74-175	CMOS	M74HC175F1(A)	SGSI		DIP	54- 40
181♦	74-175	CMOS	PC54HCT175D(A)	MULB		DIP	54- 27
182♦	74-175	CMOS	PC54HCT175D(A)	PHIN		DIP	54- 27
183♦	74-175	CMOS	PC54HCT175D(A)	RTCF		DIP	54- 27
184♦	74-175	CMOS	PC54HCT175D(A)	VALG		DIP	54- 27
185♦	74-175	CMOS	PC54HC175D(A)	MULB		DIP	54- 41
186♦	74-175	CMOS	PC54HC175D(A)	PHIN		DIP	54- 41
187♦	74-175	CMOS	PC54HC175D(A)	RTCF		DIP	54- 41
188♦	74-175	CMOS	PC54HC175D(A)	VALG		DIP	54- 41
189♦	74-175	CMOS	PC74HCT175D(A)	MULB		DIP	54- 42
190♦	74-175	CMOS	PC74HCT175D(A)	PHIN		DIP	54- 42
191♦	74-175	CMOS	PC74HCT175D(A)	RTCF		DIP	54- 42
192♦	74-175	CMOS	PC74HCT175D(A)	VALG		DIP	54- 42
193♦	74-175	CMOS	PC74HCT175P	MULB		DIP	54- 43
194♦	74-175	CMOS	PC74HCT175P	PHIN		DIP	54- 43
195♦	74-175	CMOS	PC74HCT175P	RTCF		DIP	54- 43
196♦	74-175	CMOS	PC74HCT175P	VALG		DIP	54- 43
197	74-175	CMOS	PC74HCT175T	MULB	*	SO	54- 30
198	74-175	CMOS	PC74HCT175T	PHIN	*	SO	54- 30
199	74-175	CMOS	PC74HCT175T	RTCF	*	SO	54- 30
200	74-175	CMOS	PC74HCT175T	VALG	*	SO	54- 30
201♦	74-175	CMOS	PC74HC175D(A)	MULB		DIP	54- 55
202♦	74-175	CMOS	PC74HC175D(A)	PHIN		DIP	54- 55
203♦	74-175	CMOS	PC74HC175D(A)	RTCF		DIP	54- 55
204♦	74-175	CMOS	PC74HC175D(A)	VALG		DIP	54- 55
205♦	74-175	CMOS	PC74HC175P	MULB		DIP	54- 56
206♦	74-175	CMOS	PC74HC175P	PHIN		DIP	54- 56
207♦	74-175	CMOS	PC74HC175P	RTCF		DIP	54- 56
208♦	74-175	CMOS	PC74HC175P	VALG		DIP	54- 56
209	74-175	CMOS	PC74HC175T	MULB	*	SO	54- 57
210	74-175	CMOS	PC74HC175T	PHIN	*	SO	54- 57
211	74-175	CMOS	PC74HC175T	RTCF	*	SO	54- 57
212	74-175	CMOS	PC74HC175T	VALG	*	SO	54- 57
213♦	74-175	CMOS	UPD74HC175C(A)	NECJ		DIP	55- 63
214	74-175	CMOS	74HCT175D	SIC	*	SO	54- 35
215♦	74-175	CMOS	74HCT175N	SIC		DIP	54- 36
216	74-175	CMOS	74HC175D	SIC	*	SO	54- 79
217♦	74-175	CMOS	74HC175N	SIC		DIP	54- 80
218♦	74-175	TTL	DM54AS175J(A)	NSC		DIP	55- 78
219♦	74-175	TTL	DM54LS175J	NSC		DIP	55- 20
220♦	74-175	TTL	DM74AS175J(A)	NSC		DIP	55- 84

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-175	TTL	DM74AS175N(A)	NSC		DIP	55- 85
2♦	74-175	TTL	DN74LS175P2	MATJ		DIP	55- 22
3	74-175	TTL	DN74LS175P5	MATJ	*	SO	55- 23
4♦	74-175	TTL	M74ALS175P	MITA		DIP	55- 38
5♦	74-175	TTL	M74ALS175P	MITJ		DIP	55- 38
6♦	74-175	TTL	N74F175D(A)	MULB	*	SO	55- 79
7♦	74-175	TTL	N74F175D(A)	PHIN	*	SO	55- 79
8♦	74-175	TTL	N74F175D(A)	RTCF	*	SO	55- 79
9♦	74-175	TTL	N74F175D(A)	SIC	*	SO	55- 79
10♦	74-175	TTL	N74F175D(A)	VALG	*	SO	55- 79
11♦	74-175	TTL	N74F175N(A)	MULB		DIP	55- 80
12♦	74-175	TTL	N74F175N(A)	PHIN		DIP	55- 80
13♦	74-175	TTL	N74F175N(A)	RTCF		DIP	55- 80
14♦	74-175	TTL	N74F175N(A)	SIC		DIP	55- 80
15♦	74-175	TTL	N74F175N(A)	VALG		DIP	55- 80
16♦	74-175	TTL	SN54175J(1)	TII		DIP	55- 17
17	74-175	TTL	SN74LS175D	TII	*	SO	55- 30
18	74-175	TTL	SN74S175D	TII	*	SO	55- 89
19♦	74-175	TTL	SN74175N(1)	TII		DIP	55- 19
20	74-175N	CMOS	CD40175BC	NSC		DIP	54- 6
21	74-175N	CMOS	CD40175BD	RCA		DIP	54- 11
22	74-175N	CMOS	CD40175BE	RCA		DIP	54- 12
23	74-175N	CMOS	CD40175BF	RCA		DIP	54- 13
24	74-175N	CMOS	CD40175BM	NSC		DIP	54- 7
25♦	74-175N	CMOS	CD54HCT175F	RCA		DIP	54- 51
26♦	74-175N	CMOS	CD54HC175F	RCA		DIP	54- 50
27♦	74-175N	CMOS	CD74HCT175E	RCA		DIP	54- 85
28♦	74-175N	CMOS	CD74HCT175M	RCA		SO	54- 86
29♦	74-175N	CMOS	CD74HC175E	RCA		DIP	54- 83
30♦	74-175N	CMOS	CD74HC175M	RCA		SO	54- 84
31▼	74-175N	CMOS	HD74HC175FP	HITJ	*	SO	54- 52
32▼	74-175N	CMOS	HD74HC175P	HITJ		DIP	54- 53
33♦	74-175N	CMOS	HEF40175BD(1)	MULB		DIP	54-104
34♦	74-175N	CMOS	HEF40175BD(1)	PHIN		DIP	54-104
35♦	74-175N	CMOS	HEF40175BD(1)	RTCF		DIP	54-104
36♦	74-175N	CMOS	HEF40175BD(1)	VALG		DIP	54-104
37♦	74-175N	CMOS	HEF40175BP(1)	MULB		DIP	54-105
38♦	74-175N	CMOS	HEF40175BP(1)	PHIN		DIP	54-105
39♦	74-175N	CMOS	HEF40175BP(1)	RTCF		DIP	54-105
40♦	74-175N	CMOS	HEF40175BP(1)	VALG		DIP	54-105
41♦	74-175N	CMOS	HEF40175BPN	SIC		DIP	55- 36
42▼	74-175N	CMOS	HEF40175BT(1)	PHIN	*	SO	54-107
43♦	74-175N	CMOS	HEF40175P(1)	MULB		DIP	54- 24
44♦	74-175N	CMOS	HEF40175P(1)	PHIN		DIP	54- 24
45♦	74-175N	CMOS	HEF40175P(1)	VALG		DIP	54- 24
46♦	74-175N	CMOS	MC54HC175J(A)	MOTA		DIP	54- 63
47♦	74-175N	CMOS	MC74HC175J	MOTA		DIP	54- 64
48♦	74-175N	CMOS	MC74HC175N(A)	MOTA		DIP	54- 65
49▼	74-175N	CMOS	MM54C175D	NSC		DIP	54- 8
50♦	74-175N	CMOS	MM54HC175J	NSC		DIP	54- 54
51	74-175N	CMOS	MM74C175N(1)	NSC		DIP	54- 9
52♦	74-175N	CMOS	MM74HC175J	NSC		DIP	54- 81
53♦	74-175N	CMOS	MM74HC175N	NSC		DIP	54- 82
54♦	74-175N	CMOS	M40175BP	MITJ		DIP	54- 4
55♦	74-175N	CMOS	SN54HC175J	TII		DIP	54- 49
56▼	74-175N	CMOS	SN74HC175D	TII	*	SO	54- 75
57♦	74-175N	CMOS	SN74HC175N	TII		DIP	54- 76
58♦	74-175N	CMOS	TC40H175P	IMTM		DIP	54- 10
59♦	74-175N	CMOS	TC40H175P	TOSJ		DIP	54- 10
60♦	74-175N	CMOS	TC40175BP	IMTM		DIP	54- 5
61♦	74-175N	CMOS	TC40175BP	TOSJ		DIP	54- 5
62▼	74-175N	CMOS	TC74HC175F(A)	TOSA	*	SO	55- 51
63♦	74-175N	CMOS	TC74HC175P	TOSA		DIP	55- 52
64♦	74-175N	CMOS	TC74HC175P	TOSJ		DIP	55- 52
65♦	74-175N	TTL	DM74LS175N	NSC		DIP	56- 90
66♦	74-175N	TTL	DM74S175N	NSC		DIP	57- 40
67♦	74-175N	TTL	DM74175N(1)	NSC		DIP	56- 93
68▼	74-175N	TTL	HD74LS175G	HITJ		DIP	54-102
69▼	74-175N	TTL	HD74LS175P	HITJ		DIP	54-103
70♦	74-175N	TTL	MB74LS175	FCAJ		DIP	54-108
71♦	74-175N	TTL	MB74LS175M	FCAJ		DIP	54-109
72♦	74-175N	TTL	MC54F175J	MOTA		DIP	55- 96
73▼	74-175N	TTL	MC54F175N	MOTA		DIP	55- 97
74♦	74-175N	TTL	MC74F175J	MOTA		DIP	55- 98
75♦	74-175N	TTL	MC74F175N	MOTA		DIP	55- 99
76♦	74-175N	TTL	M74LS175P	MITA		DIP	55- 44
77♦	74-175N	TTL	M74LS175P	MITJ		DIP	55- 44
78	74-175N	TTL	N74LS175D	MULB	*	SO	55- 6
79	74-175N	TTL	N74LS175D	PHIN	*	SO	55- 6
80	74-175N	TTL	N74LS175D	RTCF	*	SO	55- 6
81	74-175N	TTL	N74LS175D	SIC	*	SO	55- 6
82	74-175N	TTL	N74LS175D	VALG	*	SO	55- 6
83♦	74-175N	TTL	N74LS175F	VALG		DIP	55- 24
84♦	74-175N	TTL	N74LS175N	MULB		DIP	55- 7
85♦	74-175N	TTL	N74LS175N	PHIN		DIP	55- 7
86♦	74-175N	TTL	N74LS175N	RTCF		DIP	55- 7
87♦	74-175N	TTL	N74LS175N	SIC		DIP	55- 7
88♦	74-175N	TTL	N74LS175N	VALG		DIP	55- 7
89	74-175N	TTL	N74S175D	MULB	*	SO	55- 69
90	74-175N	TTL	N74S175D	PHIN	*	SO	55- 69
91	74-175N	TTL	N74S175D	RTCF	*	SO	55- 69
92	74-175N	TTL	N74S175D	SIC	*	SO	55- 69
93	74-175N	TTL	N74S175D	VALG	*	SO	55- 69
94♦	74-175N	TTL	N74S175F	VALG		DIP	55- 87
95♦	74-175N	TTL	N74S175N	MULB		DIP	55- 70
96♦	74-175N	TTL	N74S175N	PHIN		DIP	55- 70
97♦	74-175N	TTL	N74S175N	RTCF		DIP	55- 70
98♦	74-175N	TTL	N74S175N	SIC		DIP	55- 70
99♦	74-175N	TTL	N74S175N	VALG		DIP	55- 70
100♦	74-175N	TTL	N74175F	VALG		DIP	55- 16
101♦	74-175N	TTL	N74175N	MULB		DIP	54- 70
102♦	74-175N	TTL	N74175N	PHIN		DIP	54- 70
103♦	74-175N	TTL	N74175N	RTCF		DIP	54- 70
104♦	74-175N	TTL	N74175N	SIC		DIP	54- 70
105♦	74-175N	TTL	N74175N	VALG		DIP	54- 70
106♦	74-175N	TTL	SN54ALS175J	TII		DIP	55- 25
107♦	74-175N	TTL	SN54LS175J	MOTA		DIP	55- 26
108▼	74-175N	TTL	SN54LS175N(2)	MOTA		DIP	55- 27
109♦	74-175N	TTL	SN54S175J(1)	TII		DIP	55- 88
110▼	74-175N	TTL	SN74ALS175D	TII	*	SO	55- 48
111♦	74-175N	TTL	SN74ALS175N	TII		DIP	55- 49
112♦	74-175N	TTL	SN74AS175N	TII		DIP	55- 83
113♦	74-175N	TTL	SN74LS175J	MOTA		DIP	55- 31
114♦	74-175N	TTL	SN74LS175N	MOTA		DIP	55- 32
115♦	74-175N	TTL	SN74LS175N	TII		DIP	55- 32
116♦	74-175N	TTL	SN74S175J(1)	AMD		DIP	55- 90
117♦	74-175N	TTL	SN74S175N(1)	AMD		DIP	55- 91
118♦	74-175N	TTL	SN74S175N(1)	TII		DIP	55- 91
119♦	74-175N	TTL	S54F175F(A)	MULB		DIP	55- 81
120♦	74-175N	TTL	S54F175F(A)	PHIN		DIP	55- 81
121♦	74-175N	TTL	S54F175F(A)	RTCF		DIP	55- 81
122♦	74-175N	TTL	S54F175F(A)	VALG		DIP	55- 81
123♦	74-175N	TTL	S54LS175F	MULB		DIP	55- 11
124♦	74-175N	TTL	S54LS175F	PHIN		DIP	55- 11
125♦	74-175N	TTL	S54LS175F	RTCF		DIP	55- 11
126♦	74-175N	TTL	S54LS175F	SIC		DIP	55- 11
127♦	74-175N	TTL	S54LS175F	VALG		DIP	55- 11
128♦	74-175N	TTL	S54175F	MULB		DIP	54- 71
129♦	74-175N	TTL	S54175F	PHIN		DIP	54- 71
130♦	74-175N	TTL	S54175F	RTCF		DIP	54- 71
131♦	74-175N	TTL	S54175F	SIC		DIP	54- 71
132♦	74-175N	TTL	S54175F	VALG		DIP	54- 71
133♦	74-175N	TTL	54F175DM	FSC		DIP	55-100
134♦	74-175N	TTL	54LS175DM	FSC		DIP	53-101
135♦	74-175N	TTL	54S175DM	FSC		DIP	53-103
136♦	74-175N	TTL	54175DM	FSC		DIP	53-109
137♦	74-175N	TTL	74F175DC	FSC		DIP	55-102
138♦	74-175N	TTL	74F175PC	FSC		DIP	55-103
139♦	74-175N	TTL	74LS175DC	FSC		DIP	53-105
140	74-175N	TTL	74LS175PC	FSC			53-106
141♦	74-175N	TTL	74S175DC	FSC		DIP	53-107
142	74-175N	TTL	74S175PC	FSC			53-108
143♦	74-175N	TTL	74175DC	FSC		DIP	54- 1
144	74-175N	TTL	74175PC	FSC			54- 2
145♦	74-176N	TTL	DM54176J	NSC		DIP	181-104
146♦	74-176N	TTL	DM74176J	NSC		DIP	181-105
147♦	74-176N	TTL	DM74176N	NSC		DIP	181-106
148♦	74-176N	TTL	M74LS196P	MITA		DIP	176- 45
149♦	74-176N	TTL	M74LS196P	MITJ		DIP	176- 45
150♦	74-176N	TTL	SN54176J	TII		DIP	181-108
151♦	74-176N	TTL	SN74176N	TII		DIP	181-109
152♦	74-176N	TTL	54176DM	FSC		DIP	181-100
153♦	74-176N	TTL	74176DC	FSC		DIP	181-102
154♦	74-176N	TTL	74176PC	FSC		DIP	181-103
155♦	74-177	TTL	SN74LS197D	TII	*	SO	157-107
156♦	74-177	TTL	SN74S197D	TII	*	SO	159- 23
157♦	74-177N	TTL	DM54177J	NSC		DIP	158- 35
158♦	74-177N	TTL	DM54197J	NSC		DIP	158- 45
159♦	74-177N	TTL	DM7281J	NSC		DIP	158- 30
160♦	74-177N	TTL	DM74LS197N	NSC		DIP	157- 88
161♦	74-177N	TTL	DM74S197N	NSC		DIP	158- 94
162♦	74-177N	TTL	DM74177J	NSC		DIP	158- 36
163♦	74-177N	TTL	DM74177N	NSC		DIP	158- 37
164♦	74-177N	TTL	DM74197N	NSC		DIP	158- 46
165♦	74-177N	TTL	DM8281J	NSC		DIP	158- 32
166♦	74-177N	TTL	DM8281N	NSC		DIP	158- 33
167♦	74-177N	TTL	M74LS197P	MITA		DIP	158- 89
168♦	74-177N	TTL	M74LS197P	MITJ		DIP	158- 89
169♦	74-177N	TTL	N74LS197D	MULB	*	SO	157- 16
170♦	74-177N	TTL	N74LS197D	PHIN	*	SO	157- 16
171♦	74-177N	TTL	N74LS197D	RTCF	*	SO	157- 16
172♦	74-177N	TTL	N74LS197D	SIC	*	SO	157- 16
173♦	74-177N	TTL	N74LS197D	VALG	*	SO	157- 16
174♦	74-177N	TTL	N74LS197N	MULB		DIP	157- 17
175♦	74-177N	TTL	N74LS197N	PHIN		DIP	157- 17
176♦	74-177N	TTL	N74LS197N	RTCF		DIP	157- 17
177♦	74-177N	TTL	N74LS197N	SIC		DIP	157- 17
178♦	74-177N	TTL	N74LS197N	VALG		DIP	157- 17
179♦	74-177N	TTL	N74S197F	MULB		DIP	158- 95
180♦	74-177N	TTL	N74S197F	PHIN		DIP	158- 95
181♦	74-177N	TTL	N82S91F	MULB		DIP	158- 14
182♦	74-177N	TTL	N82S91F	PHIN		DIP	158- 14
183♦	74-177N	TTL	N82S91F	VALG		DIP	158- 14
184♦	74-177N	TTL	N82S91N	MULB		DIP	158- 15
185♦	74-177N	TTL	N82S91N	PHIN		DIP	158- 15
186♦	74-177N	TTL	N82S91N	VALG		DIP	158- 15
187♦	74-177N	TTL	N8281F	MULB		DIP	155- 3
188♦	74-177N	TTL	N8281F	PHIN		DIP	155- 3
189♦	74-177N	TTL	N8281F	VALG		DIP	155- 3
190♦	74-177N	TTL	N8281N	MULB		DIP	155- 4
191♦	74-177N	TTL	N8281N	PHIN		DIP	155- 4
192♦	74-177N	TTL	N8281N	VALG		DIP	155- 4
193♦	74-177N	TTL	N8291F	MULB		DIP	156- 26
194♦	74-177N	TTL	N8291F	PHIN		DIP	156- 26
195♦	74-177N	TTL	N8291F	VALG		DIP	156- 26
196♦	74-177N	TTL	N8291N	MULB		DIP	156- 27
197♦	74-177N	TTL	N8291N	PHIN		DIP	156- 27
198♦	74-177N	TTL	N8291N	VALG		DIP	156- 27
199♦	74-177N	TTL	N8293F	MULB		DIP	154- 53
200♦	74-177N	TTL	N8293F	PHIN		DIP	154- 53
201♦	74-177N	TTL	N8293F	VALG		DIP	154- 53
202♦	74-177N	TTL	N8293N	MULB		DIP	154- 54
203♦	74-177N	TTL	N8293N	PHIN		DIP	154- 54
204♦	74-177N	TTL	N8293N	VALG		DIP	154- 54
205♦	74-177N	TTL	SN54LS197J	MOTA		DIP	157-102
206♦	74-177N	TTL	SN54LS197J	TII		DIP	157-102
207♦	74-177N	TTL	SN54S197J	TII		DIP	159- 22
208♦	74-177N	TTL	SN54197J	TII		DIP	158- 78
209♦	74-177N	TTL	SN74LS197J	MOTA		DIP	157-108
210♦	74-177N	TTL	SN74LS197N	MOTA		DIP	157-109
211♦	74-177N	TTL	SN74LS197N	TII		DIP	157-109
212♦	74-177N	TTL	SN74S197N	TII		DIP	159- 24
213♦	74-177N	TTL	SN74177N	TII		DIP	158- 49
214♦	74-177N	TTL	SN74197N	TII		DIP	158- 79
215♦	74-177N	TTL	S54LS197F	MULB		DIP	157- 18
216♦	74-177N	TTL	S54LS197F	PHIN		DIP	157- 18
217♦	74-177N	TTL	S54LS197F	RTCF		DIP	157- 18
218♦	74-177N	TTL	S54LS197F	SIC		DIP	157- 18
219♦	74-177N	TTL	S54LS197F	VALG		DIP	157- 18
220♦	74-177N	TTL	S8281F	MULB		DIP	155- 8

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-177N	TTL	S8281F	PHIN		DIP	155- 8
2♦	74-177N	TTL	S8281F	SIC		DIP	155- 8
3♦	74-177N	TTL	S8281F	VALG		DIP	155- 8
4♦	74-177N	TTL	S8291F	MULB		DIP	156- 32
5♦	74-177N	TTL	S8291F	PHIN		DIP	156- 32
6♦	74-177N	TTL	S8291F	VALG		DIP	156- 32
7♦	74-177N	TTL	S8293F	MULB		DIP	154- 55
8♦	74-177N	TTL	S8293F	PHIN		DIP	154- 55
9♦	74-177N	TTL	S8293F	VALG		DIP	154- 55
10♦	74-177N	TTL	54177DM	FSC		DIP	154- 31
11♦	74-177N	TTL	54197DM	FSC		DIP	158- 67
12♦	74-177N	TTL	74LS197DC	FSC		DIP	158- 57
13♦	74-177N	TTL	74LS197PC	FSC		DIP	158- 58
14♦	74-177N	TTL	74177DC	FSC		DIP	154- 33
15♦	74-177N	TTL	74177PC	FSC		DIP	154- 34
16♦	74-177N	TTL	74197DC	FSC		DIP	158- 69
17♦	74-177N	TTL	74197PC	FSC		DIP	158- 70
18▼	74-180N	CMOS	HD74HC180FP	HITJ	*	SO	227- 30
19▼	74-180N	CMOS	HD74HC180P	HITJ		DIP	227- 31
20♦	74-180N	TTL	DM54180J	NSC		DIP	227- 42
21♦	74-180N	TTL	DM74180J	NSC		DIP	227- 43
22♦	74-180N	TTL	DM74180N	NSC		DIP	227- 44
23♦	74-180N	TTL	MB447	FCAJ		DIP	226- 20
24♦	74-180N	TTL	MB447M	FCAJ		DIP	226- 21
25♦	74-180N	TTL	M53380P	MITJ		DIP	227- 46
26♦	74-180N	TTL	N74180F	MULB		DIP	227- 47
27♦	74-180N	TTL	N74180F	PHIN		DIP	227- 47
28♦	74-180N	TTL	N74180F	VALG		DIP	227- 47
29♦	74-180N	TTL	N74180N	MULB		DIP	227- 48
30♦	74-180N	TTL	N74180N	PHIN		DIP	227- 48
31♦	74-180N	TTL	N74180N	RTCF		DIP	227- 48
32♦	74-180N	TTL	N74180N	SIC		DIP	227- 48
33♦	74-180N	TTL	N74180N	VALG		DIP	227- 48
34♦	74-180N	TTL	SFC4180E	THEF		DIP	227- 51
35♦	74-180N	TTL	SFC4180EM	THEF		DIP	227- 52
36♦	74-180N	TTL	SFC4180ET	THEF		DIP	227- 53
37♦	74-180N	TTL	SFC4180JM	THEF		DIP	227- 54
38♦	74-180N	TTL	SFC4180KM	THEF		DIP	227- 55
39▼	74-180N	TTL	SN54HC180J	TII		DIP	227- 62
40♦	74-180N	TTL	SN54180J	TII		DIP	227- 57
41▼	74-180N	TTL	SN74HC180D	TII	*	SO	227- 32
42▼	74-180N	TTL	SN74HC180N	TII		DIP	227- 33
43♦	74-180N	TTL	SN74180N	TII		DIP	227- 58
44♦	74-180N	TTL	S54180F	MULB		DIP	227- 49
45♦	74-180N	TTL	S54180F	PHIN		DIP	227- 49
46♦	74-180N	TTL	S54180F	RTCF		DIP	227- 49
47♦	74-180N	TTL	S54180F	SIC		DIP	227- 49
48♦	74-180N	TTL	S54180F	VALG		DIP	227- 49
49♦	74-180N	TTL	54180DM	FSC		DIP	227- 38
50♦	74-180N	TTL	74180DC	FSC		DIP	227- 40
51♦	74-180N	TTL	74180PC	FSC		DIP	227- 41
52	74-181	CMOS	BCL4581B	SSS		DIP	222- 89
53	74-181	CMOS	CD40181BD	RCA		DIP	222- 90
54	74-181	CMOS	CD40181BE	RCA		DIP	222- 91
55	74-181	CMOS	CD40181BF	RCA		DIP	222- 92
56	74-181	CMOS	CD54HCT181F(A)	RCA		DIP	221- 13
57	74-181	CMOS	CD54HC181F(A)	RCA		DIP	221- 12
58	74-181	CMOS	CD74HCT181E(A)	RCA		DIP	221- 16
59	74-181	CMOS	CD74HC181E(A)	RCA		DIP	221- 14
60▼	74-181	CMOS	HD74HC881FP	HITJ	*	FP	222- 22
61▼	74-181	CMOS	HD74HC881P	HITJ		DIP	222- 23
62♦	74-181	CMOS	MC14581BAL	MOTA		DIP	222- 94
63▼	74-181	CMOS	MC14581BALD	MOTA		DIP	222- 95
64▼	74-181	CMOS	MC14581BALDS	MOTA		DIP	222- 96
65▼	74-181	CMOS	MC14581BALS	MOTA		DIP	222- 97
66♦	74-181	CMOS	MC14581BCL	MOTA		DIP	222-101
67▼	74-181	CMOS	MC14581BCLD	MOTA		DIP	222-102
68▼	74-181	CMOS	MC14581BCLDS	MOTA		DIP	222-103
69▼	74-181	CMOS	MC14581BCLS	MOTA		DIP	222-104
70♦	74-181	CMOS	MC14581BCP	MOTA		DIP	222-105
71▼	74-181	CMOS	MC14581BCPD	MOTA		DIP	222-106
72▼	74-181	CMOS	MC14581BCPDS	MOTA		DIP	222-107
73▼	74-181	CMOS	MC14581BCPS	MOTA		DIP	222-108
74♦	74-181	CMOS	MC54HC181J(A)	MOTA		DIP	220- 24
75♦	74-181	CMOS	MC74HC181J(A)	MOTA		DIP	220- 25
76♦	74-181	CMOS	MC74HC181N(A)	MOTA		DIP	220- 26
77♦	74-181	CMOS	MM54HC181J(A)	NSC		DIP	222- 85
78♦	74-181	CMOS	MM74HC181J(A)	NSC		DIP	222- 69
79♦	74-181	CMOS	MM74HC181N(A)	NSC		DIP	222- 70
80▼	74-181	CMOS	M74HC181B1	SGSI		DIP	220- 18
81▼	74-181	CMOS	M74HC181F1	SGSI		DIP	220- 19
82♦	74-181	CMOS	PC54HCT181D(A)	MULB		DIP	222- 8
83♦	74-181	CMOS	PC54HCT181D(A)	PHIN		DIP	222- 8
84♦	74-181	CMOS	PC54HCT181D(A)	RTCF		DIP	222- 8
85♦	74-181	CMOS	PC54HCT181D(A)	VALG		DIP	222- 8
86♦	74-181	CMOS	PC54HC181D(A)	MULB		DIP	222- 7
87♦	74-181	CMOS	PC54HC181D(A)	PHIN		DIP	222- 7
88♦	74-181	CMOS	PC54HC181D(A)	RTCF		DIP	222- 7
89♦	74-181	CMOS	PC54HC181D(A)	VALG		DIP	222- 7
90♦	74-181	CMOS	PC74HCT181D(A)	MULB		DIP	222- 10
91♦	74-181	CMOS	PC74HCT181D(A)	PHIN		DIP	222- 10
92♦	74-181	CMOS	PC74HCT181D(A)	RTCF		DIP	222- 10
93♦	74-181	CMOS	PC74HCT181D(A)	VALG		DIP	222- 10
94♦	74-181	CMOS	PC74HCT181P	MULB		DIP	222- 11
95♦	74-181	CMOS	PC74HCT181P	PHIN		DIP	222- 11
96♦	74-181	CMOS	PC74HCT181P	RTCF		DIP	222- 11
97♦	74-181	CMOS	PC74HCT181P	VALG		DIP	222- 11
98	74-181	CMOS	PC74HCT181T	MULB	*	SO	222- 12
99	74-181	CMOS	PC74HCT181T	PHIN	*	SO	222- 12
100	74-181	CMOS	PC74HCT181T	RTCF	*	SO	222- 12
101	74-181	CMOS	PC74HCT181T	VALG	*	SO	222- 12
102♦	74-181	CMOS	PC74HC181D(A)	MULB		DIP	222- 9
103♦	74-181	CMOS	PC74HC181D(A)	PHIN		DIP	222- 9
104♦	74-181	CMOS	PC74HC181D(A)	RTCF		DIP	222- 9
105♦	74-181	CMOS	PC74HC181D(A)	VALG		DIP	222- 9
106♦	74-181	CMOS	PC74HC181P	MULB		DIP	221- 97
107♦	74-181	CMOS	PC74HC181P	PHIN		DIP	221- 97
108♦	74-181	CMOS	PC74HC181P	RTCF		DIP	221- 97
109♦	74-181	CMOS	PC74HC181P	VALG		DIP	221- 97
110	74-181	CMOS	PC74HC181T	MULB	*	SO	221- 98
111	74-181	CMOS	PC74HC181T	PHIN	*	SO	221- 98
112	74-181	CMOS	PC74HC181T	RTCF	*	SO	221- 98
113	74-181	CMOS	PC74HC181T	VALG	*	SO	221- 98
114	74-181	CMOS	SCL4581B	SSS			222- 93
115	74-181	CMOS	74HCT181D	SIC	*	SO	222- 5
116♦	74-181	CMOS	74HCT181N	SIC		DIP	222- 6
117	74-181	CMOS	74HC181D	SIC	*	SO	221- 94
118♦	74-181	CMOS	74HC181N	SIC		DIP	221- 95
119	74-181	CMOS	883C4581B	SSS		DIP	222- 88
120♦	74-181	TTL	DM54AS181BJ	NSC		DIP	221- 18
121♦	74-181	TTL	DM54AS881BJ	NSC		DIP	221- 19
122♦	74-181	TTL	DM54181J	NSC		DIP	222- 45
123♦	74-181	TTL	DM74AS181BJ	NSC		DIP	220- 96
124♦	74-181	TTL	DM74AS181BN	NSC		DIP	220- 97
125♦	74-181	TTL	DM74AS881BJ	NSC		DIP	220- 98
126♦	74-181	TTL	DM74AS881BN	NSC		DIP	220- 99
127♦	74-181	TTL	DM74181J	NSC		DIP	222- 46
128♦	74-181	TTL	DM74181N	NSC		DIP	222- 47
129▼	74-181	TTL	HD74LS181G	HITJ		DIP	222- 74
130♦	74-181	TTL	HD74LS181P	HITJ		DIP	222- 75
131♦	74-181	TTL	K155IP3	USSR		DIP	220- 16
132♦	74-181	TTL	MB458	FCAJ		DIP	220- 20
133♦	74-181	TTL	MB458M	FCAJ		DIP	220- 21
134♦	74-181	TTL	MB74LS181	FCAJ		DIP	222- 76
135♦	74-181	TTL	MB74LS181M	FCAJ		DIP	222- 77
136♦	74-181	TTL	MC54F181J	MOTA		DIP	221- 32
137▼	74-181	TTL	MC54F181N	MOTA		DIP	221- 33
138♦	74-181	TTL	MC74F181J	MOTA		DIP	221- 34
139♦	74-181	TTL	MC74F181N	MOTA		DIP	221- 35
140♦	74-181	TTL	N74F181D(A)	MULB	*	SO	220- 79
141♦	74-181	TTL	N74F181D(A)	PHIN	*	SO	220- 79
142♦	74-181	TTL	N74F181D(A)	RTCF	*	SO	220- 79
143♦	74-181	TTL	N74F181D(A)	SIC	*	SO	220- 79
144♦	74-181	TTL	N74F181D(A)	VALG	*	SO	220- 79
145♦	74-181	TTL	N74F181N(A)	MULB		DIP	220- 80
146♦	74-181	TTL	N74F181N(A)	PHIN		DIP	220- 80
147♦	74-181	TTL	N74F181N(A)	RTCF		DIP	220- 80
148♦	74-181	TTL	N74F181N(A)	SIC		DIP	220- 80
149♦	74-181	TTL	N74F181N(A)	VALG		DIP	220- 80
150♦	74-181	TTL	N74LS181F	MULB		DIP	222- 48
151♦	74-181	TTL	N74LS181F	PHIN		DIP	222- 48
152♦	74-181	TTL	N74LS181F	RTCF		DIP	222- 48
153♦	74-181	TTL	N74LS181F	VALG		DIP	222- 48
154♦	74-181	TTL	N74LS181N	MULB		DIP	222- 78
155♦	74-181	TTL	N74LS181N	PHIN		DIP	222- 78
156♦	74-181	TTL	N74LS181N	RTCF		DIP	222- 78
157♦	74-181	TTL	N74LS181N	SIC		DIP	222- 78
158♦	74-181	TTL	N74LS181N	VALG		DIP	222- 78
159♦	74-181	TTL	N74S181F	MULB		DIP	221- 61
160♦	74-181	TTL	N74S181F	PHIN		DIP	221- 61
161♦	74-181	TTL	N74S181F	RTCF		DIP	221- 61
162♦	74-181	TTL	N74S181F	VALG		DIP	221- 61
163♦	74-181	TTL	N74S181N	MULB		DIP	221- 62
164♦	74-181	TTL	N74S181N	PHIN		DIP	221- 62
165♦	74-181	TTL	N74S181N	RTCF		DIP	221- 62
166♦	74-181	TTL	N74S181N	SIC		DIP	221- 62
167♦	74-181	TTL	N74S181N	VALG		DIP	221- 62
168♦	74-181	TTL	N74181F	MULB		DIP	222- 51
169♦	74-181	TTL	N74181F	PHIN		DIP	222- 51
170♦	74-181	TTL	N74181F	VALG		DIP	222- 51
171♦	74-181	TTL	N74181N	MULB		DIP	222- 52
172♦	74-181	TTL	N74181N	PHIN		DIP	222- 52
173♦	74-181	TTL	N74181N	RTCF		DIP	222- 52
174♦	74-181	TTL	N74181N	SIC		DIP	222- 52
175♦	74-181	TTL	N74181N	VALG		DIP	222- 52
176♦	74-181	TTL	SFC4181E	THEF		DIP	222- 60
177♦	74-181	TTL	SFC4181EM	THEF		DIP	222- 61
178♦	74-181	TTL	SFC4181ET	THEF		DIP	222- 62
179♦	74-181	TTL	SFC4181JM	THEF		DIP	222- 63
180♦	74-181	TTL	SFC4181KM	THEF		DIP	222- 64
181♦	74-181	TTL	SN54LS181J	MOTA		DIP	222- 81
182♦	74-181	TTL	SN54LS181J	TII		DIP	222- 81
183▼	74-181	TTL	SN54LS181N	MOTA		DIP	222- 82
184♦	74-181	TTL	SN54S181J	TII		DIP	221- 64
185♦	74-181	TTL	SN54181J	TII		DIP	222- 65
186▼	74-181	TTL	SN74AS1181DW	TII	*	SO	220- 67
187▼	74-181	TTL	SN74AS1181NT	TII		DIP	220- 68
188♦	74-181	TTL	SN74LS181J	MOTA		DIP	222- 83
189♦	74-181	TTL	SN74LS181N	MOTA		DIP	222- 84
190♦	74-181	TTL	SN74LS181N	TII		DIP	222- 84
191♦	74-181	TTL	SN74S181J	AMD		DIP	221- 69
192♦	74-181	TTL	SN74S181N	AMD		DIP	221- 70
193♦	74-181	TTL	SN74S181N	TII		DIP	221- 70
194♦	74-181	TTL	SN74181N	TII		DIP	222- 66
195♦	74-181	TTL	S54LS181F	MULB		DIP	222- 79
196♦	74-181	TTL	S54LS181F	PHIN		DIP	222- 79
197♦	74-181	TTL	S54LS181F	RTCF		DIP	222- 79
198♦	74-181	TTL	S54LS181F	SIC		DIP	222- 79
199♦	74-181	TTL	S54LS181F	VALG		DIP	222- 79
200♦	74-181	TTL	S54LS181N	MULB		DIP	222- 53
201♦	74-181	TTL	S54LS181N	PHIN		DIP	222- 53
202♦	74-181	TTL	S54LS181N	SIC		DIP	222- 53
203♦	74-181	TTL	S54S181F	MULB		DIP	221- 63
204♦	74-181	TTL	S54S181F	PHIN		DIP	221- 63
205♦	74-181	TTL	S54S181F	RTCF		DIP	221- 63
206♦	74-181	TTL	S54S181F	SIC		DIP	221- 63
207♦	74-181	TTL	S54S181F	VALG		DIP	221- 63
208♦	74-181	TTL	S54S181N	MULB		DIP	221- 7
209♦	74-181	TTL	S54S181N	PHIN		DIP	221- 7
210♦	74-181	TTL	S54S181N	SIC		DIP	221- 7
211♦	74-181	TTL	S54181F	MULB		DIP	222- 57
212♦	74-181	TTL	S54181F	PHIN		DIP	222- 57
213♦	74-181	TTL	S54181F	RTCF		DIP	222- 57
214♦	74-181	TTL	S54181F	SIC		DIP	222- 57
215♦	74-181	TTL	S54181F	VALG		DIP	222- 57
216♦	74-181	TTL	S54181N	MULB		DIP	222- 58
217♦	74-181	TTL	S54181N	PHIN		DIP	222- 58
218♦	74-181	TTL	S54181N	SIC		DIP	222- 58
219♦	74-181	TTL	54F181DM	FSC		DIP	221- 21
220♦	74-181	TTL	54S181DM	FSC		DIP	220-105

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-181	TTL	74F181DC	FSC		DIP	221- 48
2♦	74-181	TTL	74F181PC	FSC		DIP	221- 50
3♦	74-181	TTL	74LS181PC	FSC		DIP	222- 73
4♦	74-181	TTL	74S181DC	FSC		DIP	220-108
5♦	74-181	TTL	74S181PC	FSC		DIP	220-109
6♦	74-181	TTL	74181DC	FSC		DIP	221- 28
7♦	74-181	TTL	74181PC	FSC		DIP	221- 29
8♦	74-181	TTL	93S41DC	FSC		DIP	220-110
9♦	74-181	TTL	93S41DM	FSC		DIP	221- 1
10♦	74-181	TTL	93S41PC	FSC		DIP	221- 3
11♦	74-181	TTL	9341DC	FSC		DIP	221- 24
12♦	74-181	TTL	9341DM	FSC		DIP	221- 25
13♦	74-181	TTL	9341PC	FSC		DIP	221- 27
14▼	74-181N	CMOS	HD74HC181P	HITJ		DIP	221- 85
15▼	74-181N	CMOS	TC74HC181P(A)	TOSA		DIP	222- 71
16▼	74-181N	TTL	SN74AS181ADW	TII	*	SO	220-100
17♦	74-181N	TTL	SN74AS181AN	TII		DIP	221- 20
18♦	74-181N	TTL	SN74AS181ANT	TII		DIP	220-101
19	74-182	CMOS	BCL4582B	SSS		DIP	225- 71
20	74-182	CMOS	CD40182BD	RCA		DIP	225- 85
21	74-182	CMOS	CD40182BE	RCA		DIP	225- 86
22	74-182	CMOS	CD40182BF	RCA		DIP	225- 87
23	74-182	CMOS	CD54HCT182F(A)	RCA		DIP	225- 24
24	74-182	CMOS	CD54HC182F(A)	RCA		DIP	225- 23
25	74-182	CMOS	CD74HCT182E(A)	RCA		DIP	225- 27
26	74-182	CMOS	CD74HC182E(A)	RCA		DIP	225- 25
27♦	74-182	CMOS	IDT39C02AD	IDT		DIP	225- 16
28♦	74-182	CMOS	IDT39C02ADB	IDT		DIP	225- 22
29♦	74-182	CMOS	IDT54AHCT182D	IDT		DIP	224- 56
30♦	74-182	CMOS	IDT54AHCT182DB	IDT		DIP	224- 57
31♦	74-182	CMOS	IDT54FCT182DB	IDT		DIP	225- 8
32♦	74-182	CMOS	IDT74AHCT182D	IDT		DIP	224- 60
33♦	74-182	CMOS	IDT74FCT182D	IDT		DIP	224- 63
34♦	74-182	CMOS	MC14582BAL	MOTA		DIP	225- 72
35▼	74-182	CMOS	MC14582BALD	MOTA		DIP	225- 73
36▼	74-182	CMOS	MC14582BALDS	MOTA		DIP	225- 74
37▼	74-182	CMOS	MC14582BALS	MOTA		DIP	225- 75
38♦	74-182	CMOS	MC14582BCL	MOTA		DIP	225- 76
39▼	74-182	CMOS	MC14582BCLD	MOTA		DIP	225- 77
40▼	74-182	CMOS	MC14582BCLDS	MOTA		DIP	225- 78
41▼	74-182	CMOS	MC14582BCLS	MOTA		DIP	225- 79
42♦	74-182	CMOS	MC14582BCP	MOTA		DIP	225- 80
43▼	74-182	CMOS	MC14582BCPD	MOTA		DIP	225- 81
44▼	74-182	CMOS	MC14582BCPDS	MOTA		DIP	225- 82
45▼	74-182	CMOS	MC14582BCPS	MOTA		DIP	225- 83
46▼	74-182	CMOS	MC14582BD	MOTA		DIP	225- 84
47♦	74-182	CMOS	MC54HC182J(A)	MOTA		DIP	224- 10
48♦	74-182	CMOS	MC74HC182J(A)	MOTA		DIP	224- 11
49♦	74-182	CMOS	MC74HC182N(A)	MOTA		DIP	224- 12
50♦	74-182	CMOS	MM54HC182J(A)	NSC		DIP	225- 55
51♦	74-182	CMOS	MM74HC182J(A)	NSC		DIP	225- 51
52♦	74-182	CMOS	MM74HC182N(A)	NSC		DIP	225- 52
53♦	74-182	CMOS	PC54HCT182D(A)	MULB		DIP	225- 44
54♦	74-182	CMOS	PC54HCT182D(A)	PHIN		DIP	225- 44
55♦	74-182	CMOS	PC54HCT182D(A)	RTCF		DIP	225- 44
56♦	74-182	CMOS	PC54HCT182D(A)	VALG		DIP	225- 44
57♦	74-182	CMOS	PC54HC182D(A)	MULB		DIP	225- 43
58♦	74-182	CMOS	PC54HC182D(A)	PHIN		DIP	225- 43
59♦	74-182	CMOS	PC54HC182D(A)	RTCF		DIP	225- 43
60♦	74-182	CMOS	PC54HC182D(A)	VALG		DIP	225- 43
61♦	74-182	CMOS	PC74HCT182D(A)	MULB		DIP	225- 46
62♦	74-182	CMOS	PC74HCT182D(A)	PHIN		DIP	225- 46
63♦	74-182	CMOS	PC74HCT182D(A)	RTCF		DIP	225- 46
64♦	74-182	CMOS	PC74HCT182D(A)	VALG		DIP	225- 46
65♦	74-182	CMOS	PC74HCT182P	MULB		DIP	225- 56
66♦	74-182	CMOS	PC74HCT182P	PHIN		DIP	225- 56
67♦	74-182	CMOS	PC74HCT182P	RTCF		DIP	225- 56
68♦	74-182	CMOS	PC74HCT182P	VALG		DIP	225- 56
69	74-182	CMOS	PC74HCT182T	MULB	*	SO	225- 57
70	74-182	CMOS	PC74HCT182T	PHIN	*	SO	225- 57
71	74-182	CMOS	PC74HCT182T	RTCF	*	SO	225- 57
72	74-182	CMOS	PC74HCT182T	VALG	*	SO	225- 57
73♦	74-182	CMOS	PC74HCT182D(A)	MULB		DIP	225- 45
74♦	74-182	CMOS	PC74HCT182D(A)	PHIN		DIP	225- 45
75♦	74-182	CMOS	PC74HCT182D(A)	RTCF		DIP	225- 45
76♦	74-182	CMOS	PC74HCT182D(A)	VALG		DIP	225- 45
77♦	74-182	CMOS	PC74HCT182P	MULB		DIP	225- 53
78♦	74-182	CMOS	PC74HCT182P	PHIN		DIP	225- 53
79♦	74-182	CMOS	PC74HCT182P	RTCF		DIP	225- 53
80♦	74-182	CMOS	PC74HCT182P	VALG		DIP	225- 53
81	74-182	CMOS	PC74HC182T	MULB	*	SO	225- 54
82	74-182	CMOS	PC74HC182T	PHIN	*	SO	225- 54
83	74-182	CMOS	PC74HC182T	RTCF	*	SO	225- 54
84	74-182	CMOS	PC74HC182T	VALG	*	SO	225- 54
85♦	74-182	CMOS	SCL4582B	SSS		DIP	225- 88
86♦	74-182	CMOS	4582BPC	FSC		DIP	225- 62
87	74-182	CMOS	883C4582B	SSS		DIP	225- 70
88♦	74-182	TTL	DM54AS182J(A)	NSC		DIP	225- 13
89♦	74-182	TTL	DM54182J	NSC		DIP	225- 29
90♦	74-182	TTL	DM74AS182J(A)	NSC		DIP	224- 86
91♦	74-182	TTL	DM74AS182N(A)	NSC		DIP	224- 87
92♦	74-182	TTL	DM74S182N	NSC		DIP	224- 52
93♦	74-182	TTL	MB459	FCAJ		DIP	224- 13
94♦	74-182	TTL	MB459M	FCAJ		DIP	224- 14
95♦	74-182	TTL	MC54F182J	MOTA		DIP	224- 88
96▼	74-182	TTL	MC54F182N	MOTA		DIP	224- 89
97♦	74-182	TTL	MC74F182J	MOTA		DIP	224- 72
98♦	74-182	TTL	MC74F182N	MOTA		DIP	224- 73
99♦	74-182	TTL	N74F182D(A)	MULB	*	SO	225- 6
100♦	74-182	TTL	N74F182D(A)	PHIN	*	SO	225- 6
101♦	74-182	TTL	N74F182D(A)	RTCF	*	SO	225- 6
102♦	74-182	TTL	N74F182D(A)	SIC	*	SO	225- 6
103♦	74-182	TTL	N74F182D(A)	VALG	*	SO	225- 6
104♦	74-182	TTL	N74F182N(A)	MULB		DIP	225- 7
105♦	74-182	TTL	N74F182N(A)	PHIN		DIP	225- 7
106♦	74-182	TTL	N74F182N(A)	RTCF		DIP	225- 7
107♦	74-182	TTL	N74F182N(A)	SIC		DIP	225- 7
108♦	74-182	TTL	N74F182N(A)	VALG		DIP	225- 7
109	74-182	TTL	N74S182D	MULB	*	SO	224- 90
110	74-182	TTL	N74S182D	PHIN	*	SO	224- 90
111	74-182	TTL	N74S182D	RTCF	*	SO	224- 90
112	74-182	TTL	N74S182D	SIC	*	SO	224- 90
113	74-182	TTL	N74S182D	VALG	*	SO	224- 90
114♦	74-182	TTL	N74S182F	MULB		DIP	224- 91
115♦	74-182	TTL	N74S182F	PHIN		DIP	224- 91
116♦	74-182	TTL	N74S182F	VALG		DIP	224- 91
117♦	74-182	TTL	N74S182N	MULB		DIP	224- 92
118♦	74-182	TTL	N74S182N	PHIN		DIP	224- 92
119♦	74-182	TTL	N74S182N	RTCF		DIP	224- 92
120♦	74-182	TTL	N74S182N	SIC		DIP	224- 92
121♦	74-182	TTL	N74S182N	VALG		DIP	224- 92
122♦	74-182	TTL	N74182F	MULB		DIP	225- 30
123♦	74-182	TTL	N74182F	PHIN		DIP	225- 30
124♦	74-182	TTL	N74182F	VALG		DIP	225- 30
125♦	74-182	TTL	N74182N	MULB		DIP	225- 31
126♦	74-182	TTL	N74182N	PHIN		DIP	225- 31
127♦	74-182	TTL	N74182N	VALG		DIP	225- 31
128♦	74-182	TTL	SFC4182E	THEF		DIP	225- 34
129♦	74-182	TTL	SFC4182EM	THEF		DIP	225- 35
130♦	74-182	TTL	SFC4182ET	THEF		DIP	225- 36
131♦	74-182	TTL	SN54LS182J	MOTA		DIP	225- 39
132▼	74-182	TTL	SN54LS182N	MOTA		DIP	225- 40
133♦	74-182	TTL	SN54S182J	MMI		DIP	224- 99
134♦	74-182	TTL	SN54S182J	TII		DIP	224- 99
135♦	74-182	TTL	SN54S182J16	MMI		DIP	224-100
136♦	74-182	TTL	SN54182J	TII		DIP	225- 37
137♦	74-182	TTL	SN74LS182J	MOTA		DIP	225- 41
138♦	74-182	TTL	SN74LS182N	MOTA		DIP	225- 42
139	74-182	TTL	SN74S182D	TII	*	SO	224-102
140♦	74-182	TTL	SN74S182J	MMI		DIP	224-103
141♦	74-182	TTL	SN74S182J16	MMI		DIP	224-104
142♦	74-182	TTL	SN74S182N	MMI		DIP	224-105
143♦	74-182	TTL	SN74S182N	TII		DIP	224-105
144♦	74-182	TTL	SN74S182N16	MMI		DIP	224-106
145♦	74-182	TTL	SN74182N	TII		DIP	225- 38
146♦	74-182	TTL	S54S182F	MULB		DIP	224- 93
147♦	74-182	TTL	S54S182F	PHIN		DIP	224- 93
148♦	74-182	TTL	S54S182F	RTCF		DIP	224- 93
149♦	74-182	TTL	S54S182F	SIC		DIP	224- 93
150♦	74-182	TTL	S54S182F	VALG		DIP	224- 93
151♦	74-182	TTL	S54182F	MULB		DIP	225- 32
152♦	74-182	TTL	S54182F	PHIN		DIP	225- 32
153♦	74-182	TTL	S54182F	VALG		DIP	225- 32
154♦	74-182	TTL	54F182DM	FSC		DIP	224- 68
155♦	74-182	TTL	54S182DM	FSC		DIP	224- 77
156♦	74-182	TTL	74F182DC	FSC		DIP	224- 79
157♦	74-182	TTL	74F182PC	FSC		DIP	224- 81
158♦	74-182	TTL	74S182DC	FSC		DIP	224- 84
159♦	74-182	TTL	74S182PC	FSC		DIP	224- 85
160♦	74-182	TTL	93S42DC	FSC		DIP	224-109
161♦	74-182	TTL	93S42DM	FSC		DIP	224-110
162♦	74-182	TTL	93S42PC	FSC		DIP	225- 2
163♦	74-182	TTL	9342PC	FSC		DIP	225- 12
164▼	74-182N	CMOS	HD74HC182FP	HITJ	*	SO	224-107
165▼	74-182N	CMOS	HD74HC182P	HITJ		DIP	224-108
166▼	74-182N	CMOS	M74HC182B1	SGSI		DIP	224- 7
167▼	74-182N	CMOS	M74HC182F1(A)	SGSI		DIP	224- 9
168▼	74-182N	CMOS	TC74HC182F(A)	TOSA	*	SO	225- 49
169▼	74-182N	CMOS	TC74HC182P(A)	TOSA		DIP	225- 50
170♦	74H183N	TTL	MB74LS183	FCAJ		DIP	198- 48
171♦	74H183N	TTL	MB74LS183M	FCAJ		DIP	198- 49
172♦	74H183N	TTL	SN54LS183J	MOTA		DIP	198-102
173♦	74H183N	TTL	SN54LS183J	TII		DIP	198-102
174▼	74H183N	TTL	SN54LS183N	MOTA		DIP	198-103
175♦	74H183N	TTL	SN74LS183J	MOTA		DIP	198-105
176♦	74H183N	TTL	SN74LS183N	MOTA		DIP	198-104
177♦	74H183N	TTL	SN74LS183N	TII		DIP	198-104
178♦	74H183N	TTL	74H183PC	FSC		DIP	198-101
179♦	74-190	CMOS	CD54HCT190F	RCA		DIP	178- 16
180♦	74-190	CMOS	CD54HC190F	RCA		DIP	178- 14
181♦	74-190	CMOS	CD74HCT190E	RCA		DIP	178- 33
182♦	74-190	CMOS	CD74HC190E	RCA		DIP	178- 29
183♦	74-190	CMOS	MC54HC190J(A)	MOTA		DIP	177- 39
184♦	74-190	CMOS	MC74HC190J(A)	MOTA		DIP	177- 41
185♦	74-190	CMOS	MC74HC190N(A)	MOTA		DIP	177- 42
186♦	74-190	CMOS	PC54HCT190D(A)	MULB		DIP	180- 9
187♦	74-190	CMOS	PC54HCT190D(A)	PHIN		DIP	180- 9
188♦	74-190	CMOS	PC54HCT190D(A)	RTCF		DIP	180- 9
189♦	74-190	CMOS	PC54HCT190D(A)	VALG		DIP	180- 9
190♦	74-190	CMOS	PC54HC190D	MULB		DIP	180- 7
191♦	74-190	CMOS	PC74HCT190D(A)	MULB		DIP	180- 13
192♦	74-190	CMOS	PC74HCT190D(A)	PHIN		DIP	180- 13
193♦	74-190	CMOS	PC74HCT190D(A)	RTCF		DIP	180- 13
194♦	74-190	CMOS	PC74HCT190D(A)	VALG		DIP	180- 13
195♦	74-190	CMOS	PC74HCT190P	MULB		DIP	178- 4
196♦	74-190	CMOS	PC74HCT190P	PHIN		DIP	178- 4
197♦	74-190	CMOS	PC74HCT190P	RTCF		DIP	178- 4
198♦	74-190	CMOS	PC74HCT190P	VALG		DIP	178- 4
199♦	74-190	CMOS	PC74HCT190T	MULB	*	SO	178- 5
200♦	74-190	CMOS	PC74HCT190T	PHIN	*	SO	178- 5
201♦	74-190	CMOS	PC74HCT190T	RTCF	*	SO	178- 5
202♦	74-190	CMOS	PC74HCT190T	VALG	*	SO	178- 5
203♦	74-190	CMOS	PC74HC190D(A)	MULB		DIP	180- 11
204♦	74-190	CMOS	PC74HC190D(A)	PHIN		DIP	180- 11
205♦	74-190	CMOS	PC74HC190D(A)	RTCF		DIP	180- 11
206♦	74-190	CMOS	PC74HC190D(A)	VALG		DIP	180- 11
207♦	74-190	CMOS	PC74HC190P	MULB		DIP	177-103
208♦	74-190	CMOS	PC74HC190P	PHIN		DIP	177-103
209♦	74-190	CMOS	PC74HC190P	RTCF		DIP	177-103
210♦	74-190	CMOS	PC74HC190P	VALG		DIP	177-103
211♦	74-190	CMOS	PC74HC190T	MULB	*	SO	177-104
212♦	74-190	CMOS	PC74HC190T	PHIN	*	SO	177-104
213♦	74-190	CMOS	PC74HC190T	RTCF	*	SO	177-104
214♦	74-190	CMOS	PC74HC190T	VALG	*	SO	177-104
215♦	74-190	CMOS	74HCT190D	SIC	*	SO	178- 12
216♦	74-190	CMOS	74HCT190N	SIC		DIP	178- 13
217♦	74-190	CMOS	74HC190D	SIC	*	SO	178- 21
218♦	74-190	CMOS	74HC190N	SIC		DIP	178- 22
219♦	74-190	TTL	DM54ALS190J	NSC		DIP	178- 58
220♦	74-190	TTL	DM54LS190J	NSC		DIP	178-102

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-190	TTL	DM74ALS190J	NSC		DIP	178-104
2♦	74-190	TTL	DM74ALS190N	NSC		DIP	178-105
3♦	74-190	TTL	DN74LS190P2	MATJ		DIP	179- 3
4♦	74-190	TTL	DN74LS190P5	MATJ	*	SO	179- 4
5▼	74-190	TTL	HD74LS190G	HITJ		DIP	178- 62
6♦	74-190	TTL	HD74LS190P	HITJ		DIP	178- 63
7♦	74-190	TTL	M74ALS190P	MITA		DIP	178- 84
8♦	74-190	TTL	M74ALS190P	MITJ		DIP	178- 84
9♦	74-190	TTL	N74F190D(A)	MULB	*	SO	180- 77
10♦	74-190	TTL	N74F190D(A)	PHIN	*	SO	180- 77
11♦	74-190	TTL	N74F190D(A)	RTCF	*	SO	180- 77
12♦	74-190	TTL	N74F190D(A)	SIC	*	SO	180- 77
13♦	74-190	TTL	N74F190D(A)	VALG	*	SO	180- 77
14♦	74-190	TTL	N74F190N(A)	MULB		DIP	180- 78
15♦	74-190	TTL	N74F190N(A)	PHIN		DIP	180- 78
16♦	74-190	TTL	N74F190N(A)	RTCF		DIP	180- 78
17♦	74-190	TTL	N74F190N(A)	SIC		DIP	180- 78
18♦	74-190	TTL	N74F190N(A)	VALG		DIP	180- 78
19♦	74-190	TTL	SN74LS190D	TII	*	SO	179- 41
20♦	74-190	TTL	54F190DM	FSC		DIP	180- 59
21♦	74-190	TTL	74F190DC	FSC		DIP	180- 63
22♦	74-190	TTL	74F190PC	FSC		DIP	180- 65
23▼	74-190N	CMOS	HD74HC190FP	HITJ	*	SO	178- 60
24▼	74-190N	CMOS	HD74HC190P	HITJ		DIP	178- 61
25♦	74-190N	CMOS	MM54HC190J(A)	NSC		DIP	178- 28
26♦	74-190N	CMOS	MM74HC190J(A)	NSC		DIP	178- 47
27♦	74-190N	CMOS	MM74HC190N(A)	NSC		DIP	178- 48
28▼	74-190N	CMOS	M74HC190B1	SGSI		DIP	177- 26
29▼	74-190N	CMOS	M74HC190F1	SGSI		DIP	177- 28
30♦	74-190N	CMOS	SN54HC190J	TII		DIP	178- 26
31♦	74-190N	CMOS	SN74HC190N	TII		DIP	178- 43
32▼	74-190N	CMOS	TC74HC190F	TOSA	*	SO	180- 30
33▼	74-190N	CMOS	TC74HC190P(A)	TOSA		DIP	180- 31
34♦	74-190N	TTL	DM54190J	NSC		DIP	178-109
35♦	74-190N	TTL	DM74LS190N	NSC		DIP	178-108
36♦	74-190N	TTL	DM74190J	NSC		DIP	178-110
37♦	74-190N	TTL	DM74190N	NSC		DIP	179- 1
38♦	74-190N	TTL	MB456	FCAJ		DIP	179- 67
39♦	74-190N	TTL	MB456M	FCAJ		DIP	179- 68
40♦	74-190N	TTL	MB457	FCAJ		DIP	179- 69
41♦	74-190N	TTL	MB457M	FCAJ		DIP	179- 70
42♦	74-190N	TTL	MB74LS190	FCAJ		DIP	178- 65
43♦	74-190N	TTL	MB74LS190M	FCAJ		DIP	178- 66
44♦	74-190N	TTL	MC54F190J	MOTA		DIP	182- 44
45▼	74-190N	TTL	MC54F190N	MOTA		DIP	182- 45
46♦	74-190N	TTL	MC74F190J	MOTA		DIP	180- 41
47♦	74-190N	TTL	MC74F190N	MOTA		DIP	180- 42
48♦	74-190N	TTL	M53390P	MITJ		DIP	179- 9
49♦	74-190N	TTL	M74LS190P	MITA		DIP	180- 1
50♦	74-190N	TTL	M74LS190P	MITJ		DIP	180- 1
51♦	74-190N	TTL	N74LS190F	MULB		DIP	178- 67
52♦	74-190N	TTL	N74LS190F	PHIN		DIP	178- 67
53♦	74-190N	TTL	N74LS190F	VALG		DIP	178- 67
54♦	74-190N	TTL	N74LS190N	MULB		DIP	178- 68
55♦	74-190N	TTL	N74LS190N	PHIN		DIP	178- 68
56♦	74-190N	TTL	N74LS190N	VALG		DIP	178- 68
57♦	74-190N	TTL	N74190F	MULB		DIP	178- 69
58♦	74-190N	TTL	N74190F	PHIN		DIP	178- 69
59♦	74-190N	TTL	N74190F	VALG		DIP	178- 69
60♦	74-190N	TTL	N74190N	MULB		DIP	178- 70
61♦	74-190N	TTL	N74190N	PHIN		DIP	178- 70
62♦	74-190N	TTL	N74190N	RTCF		DIP	178- 70
63♦	74-190N	TTL	N74190N	SIC		DIP	178- 70
64♦	74-190N	TTL	N74190N	VALG		DIP	178- 70
65♦	74-190N	TTL	SN54LS190J	MOTA		DIP	179- 31
66♦	74-190N	TTL	SN54LS190J	TII		DIP	179- 31
67▼	74-190N	TTL	SN54LS190N	MOTA		DIP	179- 32
68♦	74-190N	TTL	SN54190J	TII		DIP	179- 46
69▼	74-190N	TTL	SN74ALS190D	TII	*	SO	179- 35
70♦	74-190N	TTL	SN74ALS190N	TII		DIP	179- 36
71♦	74-190N	TTL	SN74LS190J	MOTA		DIP	179- 42
72♦	74-190N	TTL	SN74LS190N	MOTA		DIP	179- 43
73♦	74-190N	TTL	SN74LS190N	TII		DIP	179- 43
74♦	74-190N	TTL	SN74190N	TII		DIP	179- 47
75♦	74-190N	TTL	S54LS190F	MULB		DIP	178- 71
76♦	74-190N	TTL	S54LS190F	PHIN		DIP	178- 71
77♦	74-190N	TTL	S54LS190F	SIC		DIP	178- 71
78♦	74-190N	TTL	S54LS190F	VALG		DIP	178- 71
79♦	74-190N	TTL	S54190F	MULB		DIP	178- 73
80♦	74-190N	TTL	S54190F	PHIN		DIP	178- 73
81♦	74-190N	TTL	S54190F	RTCF		DIP	178- 73
82♦	74-190N	TTL	S54190F	SIC		DIP	178- 73
83♦	74-190N	TTL	S54190F	VALG		DIP	178- 73
84♦	74-190N	TTL	74LS190PC	FSC		DIP	179-104
85♦	74-190N	TTL	74190PC	FSC			178-100
86▼	74-191	CMOS	IDT74AHCT191D	IDT		DIP	161- 41
87▼	74-191	CMOS	IDT74AHCT191L	IDT	*	LLCC	161- 42
88▼	74-191	CMOS	IDT74FCT191A	IDT	*	SO	161- 45
89▼	74-191	CMOS	IDT74FCT191AD	IDT		DIP	161- 46
90▼	74-191	CMOS	IDT74FCT191AL	IDT	*	LLCC	161- 47
91▼	74-191	CMOS	IDT74FCT191D	IDT		DIP	161- 48
92▼	74-191	CMOS	IDT74FCT191L	IDT	*	LLCC	161- 49
93▼	74-191	CMOS	IDT74SHCT191	IDT	*	SO	161- 55
94♦	74-191	CMOS	MC54HC191J(A)	MOTA		DIP	159- 85
95♦	74-191	CMOS	MC74HC191J(A)	MOTA		DIP	159- 87
96♦	74-191	CMOS	MC74HC191N(A)	MOTA		DIP	159- 88
97♦	74-191	CMOS	PC54HCT191D(A)	MULB		DIP	163- 30
98♦	74-191	CMOS	PC54HCT191D(A)	PHIN		DIP	163- 30
99♦	74-191	CMOS	PC54HCT191D(A)	RTCF		DIP	163- 30
100♦	74-191	CMOS	PC54HCT191D(A)	VALG		DIP	163- 30
101♦	74-191	CMOS	PC54HC191D(A)	MULB		DIP	163- 28
102♦	74-191	CMOS	PC54HC191D(A)	PHIN		DIP	163- 28
103♦	74-191	CMOS	PC54HC191D(A)	RTCF		DIP	163- 28
104♦	74-191	CMOS	PC54HC191D(A)	VALG		DIP	163- 28
105♦	74-191	CMOS	PC74HCT191D(A)	MULB		DIP	163- 36
106♦	74-191	CMOS	PC74HCT191D(A)	PHIN		DIP	163- 36
107♦	74-191	CMOS	PC74HCT191D(A)	RTCF		DIP	163- 36
108♦	74-191	CMOS	PC74HCT191D(A)	VALG		DIP	163- 36
109♦	74-191	CMOS	PC74HCT191P	MULB		DIP	161- 14
110♦	74-191	CMOS	PC74HCT191P	PHIN		DIP	161- 14
111♦	74-191	CMOS	PC74HCT191P	RTCF		DIP	161- 14
112♦	74-191	CMOS	PC74HCT191P	VALG		DIP	161- 14
113♦	74-191	CMOS	PC74HCT191T	MULB	*	SO	161- 15
114♦	74-191	CMOS	PC74HCT191T	PHIN	*	SO	161- 15
115♦	74-191	CMOS	PC74HCT191T	RTCF	*	SO	161- 15
116♦	74-191	CMOS	PC74HCT191T	VALG	*	SO	161- 15
117♦	74-191	CMOS	PC74HC191D(A)	MULB		DIP	163- 32
118♦	74-191	CMOS	PC74HC191D(A)	PHIN		DIP	163- 32
119♦	74-191	CMOS	PC74HC191D(A)	RTCF		DIP	163- 32
120♦	74-191	CMOS	PC74HC191D(A)	VALG		DIP	163- 32
121♦	74-191	CMOS	PC74HC191P	MULB		DIP	161- 12
122♦	74-191	CMOS	PC74HC191P	PHIN		DIP	161- 12
123♦	74-191	CMOS	PC74HC191P	RTCF		DIP	161- 12
124♦	74-191	CMOS	PC74HC191P	VALG		DIP	161- 12
125♦	74-191	CMOS	PC74HC191T	MULB	*	SO	161- 13
126♦	74-191	CMOS	PC74HC191T	PHIN	*	SO	161- 13
127♦	74-191	CMOS	PC74HC191T	RTCF	*	SO	161- 13
128♦	74-191	CMOS	PC74HC191T	VALG	*	SO	161- 13
129♦	74-191	CMOS	74HCT191D	SIC	*	SO	161- 27
130♦	74-191	CMOS	74HCT191N	SIC		DIP	161- 28
131♦	74-191	CMOS	74HC191D	SIC	*	SO	161- 66
132♦	74-191	CMOS	74HC191N	SIC		DIP	161- 67
133♦	74-191	TTL	DM54ALS191J	NSC		DIP	162- 1
134♦	74-191	TTL	DM54LS191J	NSC		DIP	162- 3
135♦	74-191	TTL	DM74ALS191J	NSC		DIP	162- 65
136♦	74-191	TTL	DM74ALS191N	NSC		DIP	162- 66
137♦	74-191	TTL	DN74LS191P2	MATJ		DIP	162- 9
138♦	74-191	TTL	DN74LS191P5	MATJ	*	SO	162- 10
139♦	74-191	TTL	M74ALS191P	MITA		DIP	162- 57
140♦	74-191	TTL	M74ALS191P	MITJ		DIP	162- 57
141♦	74-191	TTL	N74F191D(A)	MULB	*	SO	163-102
142♦	74-191	TTL	N74F191D(A)	PHIN	*	SO	163-102
143♦	74-191	TTL	N74F191D(A)	RTCF	*	SO	163-102
144♦	74-191	TTL	N74F191D(A)	SIC	*	SO	163-102
145♦	74-191	TTL	N74F191D(A)	VALG	*	SO	163-102
146♦	74-191	TTL	N74F191N(A)	MULB		DIP	163-103
147♦	74-191	TTL	N74F191N(A)	PHIN		DIP	163-103
148♦	74-191	TTL	N74F191N(A)	RTCF		DIP	163-103
149♦	74-191	TTL	N74F191N(A)	SIC		DIP	163-103
150♦	74-191	TTL	N74F191N(A)	VALG		DIP	163-103
151♦	74-191	TTL	SN74LS191D	TII	*	SO	162- 45
152♦	74-191	TTL	54F191DM	FSC		DIP	163- 84
153♦	74-191	TTL	74F191DC	FSC		DIP	163- 88
154♦	74-191	TTL	74F191PC	FSC		DIP	163- 90
155♦	74-191N	CMOS	CD54HCT191F	RCA		DIP	160- 97
156♦	74-191N	CMOS	CD54HC191F	RCA		DIP	160- 95
157♦	74-191N	CMOS	CD74HCT191E	RCA		DIP	161- 35
158♦	74-191N	CMOS	CD74HC191E	RCA		DIP	161- 31
159▼	74-191N	CMOS	HD74HC191FP	HITJ	*	SO	161- 73
160▼	74-191N	CMOS	HD74HC191P	HITJ		DIP	161-101
161▼	74-191N	CMOS	IDT54AHCT191DB	IDT		DIP	160-101
162▼	74-191N	CMOS	IDT54AHCT191EB	IDT	*	FP	160-102
163▼	74-191N	CMOS	IDT54AHCT191LB	IDT	*	LLCC	160-103
164▼	74-191N	CMOS	IDT54FCT191A	IDT		DIP	160-107
165▼	74-191N	CMOS	IDT54FCT191ADB	IDT		DIP	160-108
166▼	74-191N	CMOS	IDT54FCT191AEB	IDT	*	FP	160-109
167▼	74-191N	CMOS	IDT54FCT191ALB	IDT	*	LLCC	160-110
168▼	74-191N	CMOS	IDT54FCT191DB	IDT		DIP	161- 1
169▼	74-191N	CMOS	IDT54FCT191EB	IDT	*	FP	161- 2
170▼	74-191N	CMOS	IDT54FCT191LB	IDT	*	LLCC	161- 3
171♦	74-191N	CMOS	MM54HC191J(A)	NSC		DIP	161- 26
172♦	74-191N	CMOS	MM74HC191J(A)	NSC		DIP	161- 64
173♦	74-191N	CMOS	MM74HC191N(A)	NSC		DIP	161- 65
174▼	74-191N	CMOS	M74HC191B1	SGSI		DIP	159- 71
175▼	74-191N	CMOS	M74HC191F1	SGSI		DIP	159- 73
176♦	74-191N	CMOS	SN54HC191J	TII		DIP	161- 24
177♦	74-191N	CMOS	SN74HC191N	TII		DIP	161- 60
178▼	74-191N	CMOS	TC74HC191F	TOSA	*	SO	163- 54
179▼	74-191N	CMOS	TC74HC191P(A)	TOSA		DIP	163- 55
180♦	74-191N	TTL	DM54191J	NSC		DIP	162- 5
181♦	74-191N	TTL	DM74LS191N	NSC		DIP	162- 4
182♦	74-191N	TTL	DM74191J	NSC		DIP	162- 6
183♦	74-191N	TTL	DM74191N	NSC		DIP	162- 7
184▼	74-191N	TTL	HD74LS191G	HITJ		DIP	161- 74
185♦	74-191N	TTL	HD74LS191P	HITJ		DIP	161- 75
186♦	74-191N	TTL	MB74LS191	FCAJ		DIP	161- 76
187♦	74-191N	TTL	MC54F191J	MOTA		DIP	163- 66
188▼	74-191N	TTL	MC54F191N	MOTA		DIP	163- 67
189♦	74-191N	TTL	MC74F191J	MOTA		DIP	163- 68
190♦	74-191N	TTL	MC74F191N	MOTA		DIP	163- 69
191♦	74-191N	TTL	M53391P	MITJ		DIP	162- 18
192♦	74-191N	TTL	M74LS191P	MITA		DIP	163- 23
193♦	74-191N	TTL	M74LS191P	MITJ		DIP	163- 23
194♦	74-191N	TTL	N74LS191D	MULB	*	SO	161- 78
195♦	74-191N	TTL	N74LS191D	PHIN	*	SO	161- 78
196♦	74-191N	TTL	N74LS191D	RTCF	*	SO	161- 78
197♦	74-191N	TTL	N74LS191D	SIC	*	SO	161- 78
198♦	74-191N	TTL	N74LS191D	VALG	*	SO	161- 78
199♦	74-191N	TTL	N74LS191N	MULB		DIP	161- 79
200♦	74-191N	TTL	N74LS191N	PHIN		DIP	161- 79
201♦	74-191N	TTL	N74LS191N	RTCF		DIP	161- 79
202♦	74-191N	TTL	N74LS191N	SIC		DIP	161- 79
203♦	74-191N	TTL	N74LS191N	VALG		DIP	161- 79
204♦	74-191N	TTL	N74191F	MULB		DIP	161- 80
205♦	74-191N	TTL	N74191F	PHIN		DIP	161- 80
206♦	74-191N	TTL	N74191F	VALG		DIP	161- 80
207♦	74-191N	TTL	N74191N	MULB		DIP	161- 81
208♦	74-191N	TTL	N74191N	PHIN		DIP	161- 81
209♦	74-191N	TTL	N74191N	RTCF		DIP	161- 81
210♦	74-191N	TTL	N74191N	SIC		DIP	161- 81
211♦	74-191N	TTL	N74191N	VALG		DIP	161- 81
212♦	74-191N	TTL	SN54LS191J	MOTA		DIP	162- 39
213♦	74-191N	TTL	SN54LS191J	TII		DIP	162- 39
214▼	74-191N	TTL	SN54LS191N	MOTA		DIP	162- 40
215♦	74-191N	TTL	SN54191J	TII		DIP	162- 50
216▼	74-191N	TTL	SN74ALS191D	TII	*	SO	162- 80
217♦	74-191N	TTL	SN74ALS191N	TII		DIP	162- 81
218♦	74-191N	TTL	SN74LS191J	MOTA		DIP	162- 46
219♦	74-191N	TTL	SN74LS191N	MOTA		DIP	162- 47
220♦	74-191N	TTL	SN74LS191N	TII		DIP	162- 47

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-191N	TTL	SN74191N	TII		DIP	162- 51
2♦	74-191N	TTL	S54LS191F	MULB		DIP	161- 82
3♦	74-191N	TTL	S54LS191F	PHIN		DIP	161- 82
4♦	74-191N	TTL	S54LS191F	RTCF		DIP	161- 82
5♦	74-191N	TTL	S54LS191F	SIC		DIP	161- 82
6♦	74-191N	TTL	S54LS191F	VALG		DIP	161- 82
7♦	74-191N	TTL	S54191F	MULB		DIP	161- 84
8♦	74-191N	TTL	S54191F	PHIN		DIP	161- 84
9♦	74-191N	TTL	S54191F	RTCF		DIP	161- 84
10♦	74-191N	TTL	S54191F	SIC		DIP	161- 84
11♦	74-191N	TTL	S54191F	VALG		DIP	161- 84
12♦	74-191N	TTL	ZN74191E	FERB		DIP	162- 52
13♦	74-191N	TTL	ZN74191J	FERB		DIP	162- 53
14♦	74-191N	TTL	54LS191DM	FSC		DIP	163- 7
15♦	74-191N	TTL	54191DM	FSC		DIP	161-106
16♦	74-191N	TTL	74LS191DC	FSC		DIP	163- 9
17♦	74-191N	TTL	74LS191PC	FSC		DIP	163- 10
18♦	74-191N	TTL	74191DC	FSC		DIP	161-108
19♦	74-191N	TTL	74191PC	FSC			161-109
20♦	74-192	CMOS	MC54HC192J(A)	MOTA		DIP	177- 40
21♦	74-192	CMOS	MC74HC192J(A)	MOTA		DIP	177- 43
22♦	74-192	CMOS	MC74HC192N(A)	MOTA		DIP	177- 44
23♦	74-192	CMOS	PC54HCT192D(A)	MULB		DIP	180- 10
24♦	74-192	CMOS	PC54HCT192D(A)	PHIN		DIP	180- 10
25♦	74-192	CMOS	PC54HCT192D(A)	RTCF		DIP	180- 10
26♦	74-192	CMOS	PC54HCT192D(A)	VALG		DIP	180- 10
27♦	74-192	CMOS	PC54HC192D(A)	MULB		DIP	180- 8
28♦	74-192	CMOS	PC54HC192D(A)	PHIN		DIP	180- 8
29♦	74-192	CMOS	PC54HC192D(A)	RTCF		DIP	180- 8
30♦	74-192	CMOS	PC54HC192D(A)	VALG		DIP	180- 8
31♦	74-192	CMOS	PC74HCT192P	MULB		DIP	179- 74
32♦	74-192	CMOS	PC74HCT192P	PHIN		DIP	179- 74
33♦	74-192	CMOS	PC74HCT192P	RTCF		DIP	179- 74
34♦	74-192	CMOS	PC74HCT192P	VALG		DIP	179- 74
35♦	74-192	CMOS	PC74HCT192T	MULB	*	SO	179- 75
36♦	74-192	CMOS	PC74HCT192T	PHIN	*	SO	179- 75
37♦	74-192	CMOS	PC74HCT192T	RTCF	*	SO	179- 75
38♦	74-192	CMOS	PC74HCT192T	VALG	*	SO	179- 75
39♦	74-192	CMOS	PC74HC192D(A)	MULB		DIP	180- 12
40♦	74-192	CMOS	PC74HC192D(A)	PHIN		DIP	180- 12
41♦	74-192	CMOS	PC74HC192D(A)	RTCF		DIP	180- 12
42♦	74-192	CMOS	PC74HC192D(A)	VALG		DIP	180- 12
43♦	74-192	CMOS	PC74HC192P	MULB		DIP	179- 72
44♦	74-192	CMOS	PC74HC192P	PHIN		DIP	179- 72
45♦	74-192	CMOS	PC74HC192P	RTCF		DIP	179- 72
46♦	74-192	CMOS	PC74HC192P	VALG		DIP	179- 72
47♦	74-192	CMOS	PC74HC192T(A)	MULB	*	SO	179- 73
48♦	74-192	CMOS	PC74HC192T(A)	PHIN	*	SO	179- 73
49♦	74-192	CMOS	PC74HC192T(A)	RTCF	*	SO	179- 73
50♦	74-192	CMOS	PC74HC192T(A)	VALG	*	SO	179- 73
51♦	74-192	CMOS	UPD74HC192C(A)	NECJ		DIP	179- 50
52♦	74-192	CMOS	74HCT192D	SIC	*	SO	178- 94
53♦	74-192	CMOS	74HCT192N	SIC		DIP	178- 95
54♦	74-192	CMOS	74HC192D	SIC	*	SO	178- 80
55♦	74-192	CMOS	74HC192N	SIC		DIP	178- 81
56♦	74-192	CMOS	883C4192B	SSS		DIP	177-105
57♦	74-192	TTL	DM54ALS192J	NSC		DIP	178- 59
58♦	74-192	TTL	DM54LS192J	NSC		DIP	179- 77
59♦	74-192	TTL	DM74ALS192J	NSC		DIP	178-106
60♦	74-192	TTL	DM74ALS192N	NSC		DIP	178-107
61♦	74-192	TTL	DN74LS192P2	MATJ		DIP	179- 80
62♦	74-192	TTL	DN74LS192P5	MATJ	*	SO	179- 81
63♦	74-192	TTL	MC74F192N	MOTA		DIP	180- 76
64♦	74-192	TTL	M74ALS192P	MITA		DIP	178- 85
65♦	74-192	TTL	M74ALS192P	MITJ		DIP	178- 85
66♦	74-192	TTL	N74F192D(A)	MULB	*	SO	177- 46
67♦	74-192	TTL	N74F192D(A)	PHIN	*	SO	177- 46
68♦	74-192	TTL	N74F192D(A)	RTCF	*	SO	177- 46
69♦	74-192	TTL	N74F192D(A)	SIC	*	SO	177- 46
70♦	74-192	TTL	N74F192D(A)	VALG	*	SO	177- 46
71♦	74-192	TTL	N74F192N(A)	MULB		DIP	177- 47
72♦	74-192	TTL	N74F192N(A)	PHIN		DIP	177- 47
73♦	74-192	TTL	N74F192N(A)	RTCF		DIP	177- 47
74♦	74-192	TTL	N74F192N(A)	SIC		DIP	177- 47
75♦	74-192	TTL	N74F192N(A)	VALG		DIP	177- 47
76♦	74-192	TTL	SN74LS192D	TII	*	SO	179- 93
77♦	74-192	TTL	54F192DM	FSC		DIP	180- 61
78♦	74-192	TTL	74F192DC	FSC		DIP	180- 68
79♦	74-192	TTL	74F192PC	FSC		DIP	180- 70
80♦	74-192N	CMOS	BCL4192B	SSS		DIP	177-107
81♦	74-192N	CMOS	CD40192BCJ	NSC		DIP	177- 81
82♦	74-192N	CMOS	CD40192BCN	NSC		DIP	177- 82
83♦	74-192N	CMOS	CD40192BD	RCA		DIP	177- 85
84♦	74-192N	CMOS	CD40192BE	RCA		DIP	177- 86
85♦	74-192N	CMOS	CD40192BF	RCA		DIP	177- 87
86♦	74-192N	CMOS	CD40192BMJ	NSC		DIP	177- 83
87♦	74-192N	CMOS	CD54HCT192F	RCA		DIP	178- 17
88♦	74-192N	CMOS	CD54HC192F	RCA		DIP	178- 15
89♦	74-192N	CMOS	CD74HCT192E	RCA		DIP	178- 35
90♦	74-192N	CMOS	CD74HC192E	RCA		DIP	178- 31
91▼	74-192N	CMOS	HD74HC192FP	HITJ	*	SO	178- 37
92▼	74-192N	CMOS	HD74HC192P	HITJ		DIP	178- 38
93♦	74-192N	CMOS	HEF40192	RTCF		DIP	178- 18
94♦	74-192N	CMOS	HEF40192BD	MULB		DIP	178- 23
95♦	74-192N	CMOS	HEF40192BD	PHIN		DIP	178- 23
96♦	74-192N	CMOS	HEF40192BD	RTCF		DIP	178- 23
97♦	74-192N	CMOS	HEF40192BD	VALG		DIP	178- 23
98♦	74-192N	CMOS	HEF40192BP	MULB		DIP	178- 24
99♦	74-192N	CMOS	HEF40192BP	PHIN		DIP	178- 24
100♦	74-192N	CMOS	HEF40192BP	RTCF		DIP	178- 24
101♦	74-192N	CMOS	HEF40192BP	VALG		DIP	178- 24
102♦	74-192N	CMOS	HEF40192BPN	SIC		DIP	178- 19
103♦	74-192N	CMOS	HEF40192P	MULB		DIP	177- 88
104♦	74-192N	CMOS	HEF40192P	PHIN		DIP	177- 88
105♦	74-192N	CMOS	HEF40192P	VALG		DIP	177- 88
106♦	74-192N	CMOS	MM54C192D	NSC		DIP	177- 59
107♦	74-192N	CMOS	MM54HC192J	NSC		DIP	178- 20
108♦	74-192N	CMOS	MM74C192N	NSC		DIP	177- 60
109♦	74-192N	CMOS	MM74HC192J	NSC		DIP	178- 39
110♦	74-192N	CMOS	MM74HC192N	NSC		DIP	178- 40
111♦	74-192N	CMOS	MSM40192	OKIJ		DIP	177- 72
112♦	74-192N	CMOS	MSM40192RS	OKIJ		DIP	177- 51
113▼	74-192N	CMOS	M74HC192B1	SGSI		DIP	177- 29
114▼	74-192N	CMOS	M74HC192F1	SGSI		DIP	177- 31
115♦	74-192N	CMOS	SCL4192B	SSS		DIP	177- 61
116♦	74-192N	CMOS	SN54HC192J	TII		DIP	178- 27
117♦	74-192N	CMOS	SN74HC192N	TII		DIP	178- 44
118♦	74-192N	CMOS	TC40H192P	IMTM		DIP	177- 73
119♦	74-192N	CMOS	TC40H192P	TOSJ		DIP	177- 73
120♦	74-192N	CMOS	TC40192BP	IMTM		DIP	177- 52
121♦	74-192N	CMOS	TC40192BP	TOSJ		DIP	177- 52
122▼	74-192N	CMOS	TC74HC192F(A)	TOSA	*	SO	179- 99
123▼	74-192N	CMOS	TC74HC192P(A)	TOSA		DIP	179-100
124♦	74-192N	CMOS	40192BDC	FSC		DIP	177- 63
125♦	74-192N	CMOS	40192BDM	FSC		DIP	177- 64
126♦	74-192N	CMOS	40192BPC	FSC		DIP	177- 67
127♦	74-192N	TTL	DM54L192J	NSC		DIP	178- 6
128♦	74-192N	TTL	DM54192J	NSC		DIP	179- 63
129♦	74-192N	TTL	DM74LS192N	NSC		DIP	179- 79
130♦	74-192N	TTL	DM74L192N	NSC		DIP	178- 7
131♦	74-192N	TTL	DM74192J	NSC		DIP	179- 65
132♦	74-192N	TTL	DM74192N	NSC		DIP	179- 66
133♦	74-192N	TTL	DM7560J	NSC		DIP	179- 59
134♦	74-192N	TTL	DM85L60N	NSC		DIP	178- 10
135♦	74-192N	TTL	DM8560J	NSC		DIP	179- 61
136♦	74-192N	TTL	DM8560N	NSC		DIP	179- 62
137▼	74-192N	TTL	HD74LS192G	HITJ		DIP	179- 5
138♦	74-192N	TTL	HD74LS192P	HITJ		DIP	179- 6
139♦	74-192N	TTL	MB74LS192	FCAJ		DIP	179- 10
140♦	74-192N	TTL	MB74LS192M	FCAJ		DIP	179- 11
141♦	74-192N	TTL	MC54F192J	MOTA		DIP	180- 73
142▼	74-192N	TTL	MC54F192N	MOTA		DIP	180- 74
143♦	74-192N	TTL	MC74F192J	MOTA		DIP	180- 75
144♦	74-192N	TTL	M53392P	MITJ		DIP	177- 38
145♦	74-192N	TTL	M74LS192P	MITA		DIP	180- 2
146♦	74-192N	TTL	M74LS192P	MITJ		DIP	180- 2
147♦	74-192N	TTL	N74LS192F	MULB		DIP	179- 14
148♦	74-192N	TTL	N74LS192F	PHIN		DIP	179- 14
149♦	74-192N	TTL	N74LS192F	RTCF		DIP	179- 14
150♦	74-192N	TTL	N74LS192F	VALG		DIP	179- 14
151♦	74-192N	TTL	N74LS192N	MULB		DIP	179- 15
152♦	74-192N	TTL	N74LS192N	PHIN		DIP	179- 15
153♦	74-192N	TTL	N74LS192N	RTCF		DIP	179- 15
154♦	74-192N	TTL	N74LS192N	SIC		DIP	179- 15
155♦	74-192N	TTL	N74LS192N	VALG		DIP	179- 15
156♦	74-192N	TTL	N74192F	MULB		DIP	179- 19
157♦	74-192N	TTL	N74192F	PHIN		DIP	179- 19
158♦	74-192N	TTL	N74192F	VALG		DIP	179- 19
159♦	74-192N	TTL	N74192N	MULB		DIP	179- 20
160♦	74-192N	TTL	N74192N	PHIN		DIP	179- 20
161♦	74-192N	TTL	N74192N	RTCF		DIP	179- 20
162♦	74-192N	TTL	N74192N	SIC		DIP	179- 20
163♦	74-192N	TTL	N74192N	VALG		DIP	179- 20
164♦	74-192N	TTL	SFC4192E	THEF		DIP	179- 82
165♦	74-192N	TTL	SFC4192EM	THEF		DIP	179- 83
166♦	74-192N	TTL	SFC4192ET	THEF		DIP	179- 84
167♦	74-192N	TTL	SN54LS192J	MOTA		DIP	179- 87
168♦	74-192N	TTL	SN54LS192J	TII		DIP	179- 87
169▼	74-192N	TTL	SN54LS192N	MOTA		DIP	179- 88
170♦	74-192N	TTL	SN54192J	TII		DIP	179- 97
171▼	74-192N	TTL	SN74ALS192D	TII	*	SO	179- 37
172♦	74-192N	TTL	SN74ALS192N	TII		DIP	179- 38
173♦	74-192N	TTL	SN74LS192J	MOTA		DIP	179- 94
174♦	74-192N	TTL	SN74LS192N	MOTA		DIP	179- 95
175♦	74-192N	TTL	SN74LS192N	TII		DIP	179- 95
176♦	74-192N	TTL	SN74192N	TII		DIP	179- 98
177♦	74-192N	TTL	S54LS192F	MULB		DIP	179- 23
178♦	74-192N	TTL	S54LS192F	PHIN		DIP	179- 23
179♦	74-192N	TTL	S54LS192F	RTCF		DIP	179- 23
180♦	74-192N	TTL	S54LS192F	SIC		DIP	179- 23
181♦	74-192N	TTL	S54LS192F	VALG		DIP	179- 23
182♦	74-192N	TTL	S54192E	MULB		DIP	179- 26
183♦	74-192N	TTL	S54192E	PHIN		DIP	179- 26
184♦	74-192N	TTL	S54192F	MULB		DIP	179- 27
185♦	74-192N	TTL	S54192F	PHIN		DIP	179- 27
186♦	74-192N	TTL	S54192F	VALG		DIP	179- 27
187♦	74-192N	TTL	ZN74192E	FERB		DIP	179-101
188♦	74-192N	TTL	ZN74192J	FERB		DIP	179-102
189♦	74-192N	TTL	54LS192DM	FSC		DIP	179-107
190♦	74-192N	TTL	54192DM	FSC		DIP	179- 54
191♦	74-192N	TTL	74LS192DC	FSC		DIP	179-109
192♦	74-192N	TTL	74LS192PC	FSC		DIP	179-110
193♦	74-192N	TTL	74192DC	FSC		DIP	179- 55
194♦	74-192N	TTL	74192PC	FSC		DIP	179- 56
195▼	74-193	CMOS	IDT74AHCT193D	IDT		DIP	161- 43
196▼	74-193	CMOS	IDT74AHCT193L	IDT	*	LLCC	161- 44
197▼	74-193	CMOS	IDT74FCT193A	IDT	*	SO	161- 50
198▼	74-193	CMOS	IDT74FCT193AD	IDT		DIP	161- 51
199▼	74-193	CMOS	IDT74FCT193AL	IDT	*	LLCC	161- 52
200▼	74-193	CMOS	IDT74FCT193D	IDT		DIP	161- 53
201▼	74-193	CMOS	IDT74FCT193L	IDT	*	LLCC	161- 54
202♦	74-193	CMOS	MC54HC193J	MOTA		DIP	159- 86
203♦	74-193	CMOS	MC74HC193J(A)	MOTA		DIP	159- 89
204♦	74-193	CMOS	MC74HC193N(A)	MOTA		DIP	159- 90
205♦	74-193	CMOS	PC54HCT193D(A)	MULB		DIP	163- 31
206♦	74-193	CMOS	PC54HCT193D(A)	PHIN		DIP	163- 31
207♦	74-193	CMOS	PC54HCT193D(A)	RTCF		DIP	163- 31
208♦	74-193	CMOS	PC54HCT193D(A)	VALG		DIP	163- 31
209♦	74-193	CMOS	PC54HC193D(A)	MULB		DIP	163- 29
210♦	74-193	CMOS	PC54HC193D(A)	PHIN		DIP	163- 29
211♦	74-193	CMOS	PC54HC193D(A)	RTCF		DIP	163- 29
212♦	74-193	CMOS	PC54HC193D(A)	VALG		DIP	163- 29
213♦	74-193	CMOS	PC74HCT193D(A)	MULB		DIP	163- 37
214♦	74-193	CMOS	PC74HCT193D(A)	PHIN		DIP	163- 37
215♦	74-193	CMOS	PC74HCT193D(A)	RTCF		DIP	163- 37
216♦	74-193	CMOS	PC74HCT193D(A)	VALG		DIP	163- 37
217♦	74-193	CMOS	PC74HCT193P	MULB		DIP	161- 16
218♦	74-193	CMOS	PC74HCT193P	PHIN		DIP	161- 16
219♦	74-193	CMOS	PC74HCT193P	RTCF		DIP	161- 16
220♦	74-193	CMOS	PC74HCT193P	VALG		DIP	161- 16

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-193	CMOS	PC74HCT193T	MULB	*	SO	161- 17
2♦	74-193	CMOS	PC74HCT193T	PHIN	*	SO	161- 17
3♦	74-193	CMOS	PC74HCT193T	RTCF	*	SO	161- 17
4♦	74-193	CMOS	PC74HCT193T	VALG	*	SO	161- 17
5♦	74-193	CMOS	PC74HC193D(A)	MULB		DIP	163- 33
6♦	74-193	CMOS	PC74HC193D(A)	PHIN		DIP	163- 33
7♦	74-193	CMOS	PC74HC193D(A)	RTCF		DIP	163- 33
8♦	74-193	CMOS	PC74HC193D(A)	VALG		DIP	163- 33
9♦	74-193	CMOS	PC74HC193P	MULB		DIP	163- 34
10♦	74-193	CMOS	PC74HC193P	PHIN		DIP	163- 34
11♦	74-193	CMOS	PC74HC193P	RTCF		DIP	163- 34
12♦	74-193	CMOS	PC74HC193P	VALG		DIP	163- 34
13♦	74-193	CMOS	PC74HC193T	MULB	*	SO	163- 35
14♦	74-193	CMOS	PC74HC193T	PHIN	*	SO	163- 35
15♦	74-193	CMOS	PC74HC193T	RTCF	*	SO	163- 35
16♦	74-193	CMOS	PC74HC193T	VALG	*	SO	163- 35
17♦	74-193	CMOS	UPD74HC193C(A)	NECJ		DIP	162- 55
18♦	74-193	CMOS	74HCT193D	SIC	*	SO	161- 29
19♦	74-193	CMOS	74HCT193N	SIC		DIP	161- 30
20♦	74-193	CMOS	74HC193D	SIC	*	SO	161- 68
21♦	74-193	CMOS	74HC193N	SIC		DIP	161- 69
22♦	74-193	TTL	DM54ALS193J	NSC		DIP	162- 2
23♦	74-193	TTL	DM54AS160J(A)	NSC		DIP	162- 62
24♦	74-193	TTL	DM54LS193J	NSC		DIP	162- 87
25♦	74-193	TTL	DM74ALS193J	NSC		DIP	162- 67
26♦	74-193	TTL	DM74ALS193N	NSC		DIP	162- 68
27♦	74-193	TTL	DN74LS193P2	MATJ		DIP	162- 92
28♦	74-193	TTL	DN74LS193P5	MATJ	*	SO	162- 93
29♦	74-193	TTL	M74ALS193P	MITA		DIP	162- 58
30♦	74-193	TTL	M74ALS193P	MITJ		DIP	162- 58
31♦	74-193	TTL	N74F193D(A)	MULB	*	SO	163-104
32♦	74-193	TTL	N74F193D(A)	PHIN	*	SO	163-104
33♦	74-193	TTL	N74F193D(A)	RTCF	*	SO	163-104
34♦	74-193	TTL	N74F193D(A)	SIC	*	SO	163-104
35♦	74-193	TTL	N74F193D(A)	VALG	*	SO	163-104
36♦	74-193	TTL	N74F193N(A)	MULB		DIP	163-105
37♦	74-193	TTL	N74F193N(A)	PHIN		DIP	163-105
38♦	74-193	TTL	N74F193N(A)	RTCF		DIP	163-105
39♦	74-193	TTL	N74F193N(A)	SIC		DIP	163-105
40♦	74-193	TTL	N74F193N(A)	VALG		DIP	163-105
41♦	74-193	TTL	SN74LS193D	TII	*	SO	162-105
42♦	74-193	TTL	54F193DM	FSC		DIP	163- 86
43♦	74-193	TTL	74F193DC	FSC		DIP	163- 93
44♦	74-193	TTL	74F193PC	FSC		DIP	163- 95
45♦	74-193N	CMOS	BCL4193B	SSS		DIP	160- 77
46♦	74-193N	CMOS	CD40193BCJ	NSC		DIP	160- 35
47♦	74-193N	CMOS	CD40193BCN	NSC		DIP	160- 36
48♦	74-193N	CMOS	CD40193BD	RCA		DIP	160- 42
49♦	74-193N	CMOS	CD40193BE	RCA		DIP	160- 43
50♦	74-193N	CMOS	CD40193BF	RCA		DIP	160- 44
51♦	74-193N	CMOS	CD40193BMJ	NSC		DIP	160- 37
52♦	74-193N	CMOS	CD54HCT193F	RCA		DIP	160- 98
53♦	74-193N	CMOS	CD54HC193F	RCA		DIP	160- 96
54♦	74-193N	CMOS	CD74HCT193E	RCA		DIP	161- 37
55♦	74-193N	CMOS	CD74HC193E	RCA		DIP	161- 33
56▼	74-193N	CMOS	HD74HC193FP	HITJ	*	SO	161- 39
57▼	74-193N	CMOS	HD74HC193P	HITJ		DIP	161- 40
58♦	74-193N	CMOS	HEF40193	RTCF		DIP	160- 99
59♦	74-193N	CMOS	HEF40193BD	MULB		DIP	161- 21
60♦	74-193N	CMOS	HEF40193BD	PHIN		DIP	161- 21
61♦	74-193N	CMOS	HEF40193BD	RTCF		DIP	161- 21
62♦	74-193N	CMOS	HEF40193BD	VALG		DIP	161- 21
63♦	74-193N	CMOS	HEF40193BP	MULB		DIP	161- 22
64♦	74-193N	CMOS	HEF40193BP	PHIN		DIP	161- 22
65♦	74-193N	CMOS	HEF40193BP	RTCF		DIP	161- 22
66♦	74-193N	CMOS	HEF40193BP	VALG		DIP	161- 22
67♦	74-193N	CMOS	HEF40193BPN	SIC		DIP	160-100
68♦	74-193N	CMOS	HEF40193P	MULB		DIP	160- 45
69♦	74-193N	CMOS	HEF40193P	PHIN		DIP	160- 45
70♦	74-193N	CMOS	HEF40193P	VALG		DIP	160- 45
71▼	74-193N	CMOS	IDT54AHCT193DB	IDT		DIP	160-104
72▼	74-193N	CMOS	IDT54AHCT193EB	IDT	*	FP	160-105
73▼	74-193N	CMOS	IDT54AHCT193LB	IDT	*	LLCC	160-106
74▼	74-193N	CMOS	IDT54FCT193A	IDT		DIP	161- 4
75▼	74-193N	CMOS	IDT54FCT193ADB	IDT		DIP	161- 5
76▼	74-193N	CMOS	IDT54FCT193AEB	IDT	*	FP	161- 6
77▼	74-193N	CMOS	IDT54FCT193ALB	IDT	*	LLCC	161- 7
78▼	74-193N	CMOS	IDT54FCT193DB	IDT		DIP	161- 8
79▼	74-193N	CMOS	IDT54FCT193EB	IDT	*	FP	161- 9
80▼	74-193N	CMOS	IDT54FCT193LB	IDT	*	LLCC	161- 10
81♦	74-193N	CMOS	MM54C193D	NSC		DIP	159-102
82♦	74-193N	CMOS	MM74C193N	NSC		DIP	159-103
83♦	74-193N	CMOS	MM74HC193J	NSC		DIP	161- 56
84♦	74-193N	CMOS	MM74HC193N	NSC		DIP	161- 57
85♦	74-193N	CMOS	MSM40193	OKIJ		DIP	160- 19
86♦	74-193N	CMOS	MSM40193RS	OKIJ		DIP	164- 14
87▼	74-193N	CMOS	M74HC193B1	SGSI		DIP	159- 74
88▼	74-193N	CMOS	M74HC193F1	SGSI		DIP	159- 76
89♦	74-193N	CMOS	SCL4193B	SSS		DIP	159-104
90♦	74-193N	CMOS	SN54HC193J	TII		DIP	161- 25
91♦	74-193N	CMOS	SN74HC193N	TII		DIP	161- 61
92♦	74-193N	CMOS	TC40H193P	IMTM		DIP	160- 22
93♦	74-193N	CMOS	TC40H193P	TOSJ		DIP	160- 22
94♦	74-193N	CMOS	TC40193BP	IMTM		DIP	160- 34
95♦	74-193N	CMOS	TC40193BP	TOSJ		DIP	160- 34
96▼	74-193N	CMOS	TC74HC193F(A)	TOSA	*	SO	163- 2
97▼	74-193N	CMOS	TC74HC193P(A)	TOSA		DIP	163- 3
98♦	74-193N	CMOS	40193BDC	FSC		DIP	159-110
99♦	74-193N	CMOS	40193BDM	FSC		DIP	160- 1
100♦	74-193N	CMOS	40193BPC	FSC			160- 4
101♦	74-193N	CMOS	883C4193B	SSS		DIP	160- 74
102♦	74-193N	TTL	DM54L193J	NSC		DIP	160- 89
103♦	74-193N	TTL	DM54193J	NSC		DIP	162- 73
104♦	74-193N	TTL	DM74LS193N	NSC		DIP	162- 91
105♦	74-193N	TTL	DM74L193N	NSC		DIP	160- 90
106♦	74-193N	TTL	DM74193J	NSC		DIP	162- 75
107♦	74-193N	TTL	DM74193N	NSC		DIP	162- 76
108♦	74-193N	TTL	DM7563J	NSC		DIP	162- 69
109♦	74-193N	TTL	DM85L63N	NSC		DIP	160- 91
110♦	74-193N	TTL	DM8563J	NSC		DIP	162- 71
111♦	74-193N	TTL	DM8563N	NSC		DIP	162- 72
112▼	74-193N	TTL	HD74LS193G	HITJ		DIP	162- 11
113♦	74-193N	TTL	HD74LS193P	HITJ		DIP	162- 12
114♦	74-193N	TTL	MB74LS193	FCAJ		DIP	165- 37
115♦	74-193N	TTL	MB74LS193M	FCAJ		DIP	162- 19
116♦	74-193N	TTL	MC54F193J	MOTA		DIP	163- 98
117▼	74-193N	TTL	MC54F193N	MOTA		DIP	163- 99
118♦	74-193N	TTL	MC74F193J	MOTA		DIP	163-100
119♦	74-193N	TTL	MC74F193N	MOTA		DIP	163-101
120♦	74-193N	TTL	M53393P	MITJ		DIP	159- 84
121♦	74-193N	TTL	M74LS193P	MITA		DIP	163- 18
122♦	74-193N	TTL	M74LS193P	MITJ		DIP	163- 18
123♦	74-193N	TTL	N74LS193D	MULB	*	SO	162- 23
124♦	74-193N	TTL	N74LS193D	PHIN	*	SO	162- 23
125♦	74-193N	TTL	N74LS193D	RTCF	*	SO	162- 23
126♦	74-193N	TTL	N74LS193D	SIC	*	SO	162- 23
127♦	74-193N	TTL	N74LS193D	VALG	*	SO	162- 23
128♦	74-193N	TTL	N74LS193N	MULB		DIP	162- 24
129♦	74-193N	TTL	N74LS193N	PHIN		DIP	162- 24
130♦	74-193N	TTL	N74LS193N	RTCF		DIP	162- 24
131♦	74-193N	TTL	N74LS193N	SIC		DIP	162- 24
132♦	74-193N	TTL	N74LS193N	VALG		DIP	162- 24
133♦	74-193N	TTL	N74193F	MULB		DIP	165- 38
134♦	74-193N	TTL	N74193F	PHIN		DIP	165- 38
135♦	74-193N	TTL	N74193F	RTCF		DIP	165- 38
136♦	74-193N	TTL	N74193F	VALG		DIP	165- 38
137♦	74-193N	TTL	N74193N	MULB		DIP	165- 39
138♦	74-193N	TTL	N74193N	PHIN		DIP	165- 39
139♦	74-193N	TTL	N74193N	RTCF		DIP	165- 39
140♦	74-193N	TTL	N74193N	SIC		DIP	165- 39
141♦	74-193N	TTL	N74193N	VALG		DIP	165- 39
142♦	74-193N	TTL	SFC4193E	THEF		DIP	162- 94
143♦	74-193N	TTL	SFC4193EM	THEF		DIP	162- 95
144♦	74-193N	TTL	SFC4193ET	THEF		DIP	162- 96
145♦	74-193N	TTL	SN54ALS193J	TII		DIP	161- 86
146♦	74-193N	TTL	SN54LS193J	MOTA		DIP	162- 99
147♦	74-193N	TTL	SN54LS193J	TII		DIP	162- 99
148▼	74-193N	TTL	SN54LS193N	MOTA		DIP	162-100
149♦	74-193N	TTL	SN54193J	TII		DIP	163- 1
150▼	74-193N	TTL	SN74ALS193D	TII	*	SO	162- 82
151♦	74-193N	TTL	SN74ALS193N	TII		DIP	162- 83
152♦	74-193N	TTL	SN74LS193J	MOTA		DIP	162-106
153♦	74-193N	TTL	SN74LS193N	MOTA		DIP	162-107
154♦	74-193N	TTL	SN74LS193N	TII		DIP	162-107
155♦	74-193N	TTL	SN74193N	TII		DIP	165- 41
156♦	74-193N	TTL	S54LS193F	MULB		DIP	162- 30
157♦	74-193N	TTL	S54LS193F	PHIN		DIP	162- 30
158♦	74-193N	TTL	S54LS193F	RTCF		DIP	162- 30
159♦	74-193N	TTL	S54LS193F	SIC		DIP	162- 30
160♦	74-193N	TTL	S54LS193F	VALG		DIP	162- 30
161♦	74-193N	TTL	S54LS193G	MULB	*	LLCC	162- 31
162♦	74-193N	TTL	S54LS193G	PHIN	*	LLCC	162- 31
163♦	74-193N	TTL	S54LS193G	RTCF	*	LLCC	162- 31
164♦	74-193N	TTL	S54LS193G	SIC	*	LLCC	162- 31
165♦	74-193N	TTL	S54LS193G	VALG	*	LLCC	162- 31
166♦	74-193N	TTL	S54193E	MULB		DIP	162- 34
167♦	74-193N	TTL	S54193E	PHIN		DIP	162- 34
168♦	74-193N	TTL	S54193F	MULB		DIP	162- 35
169♦	74-193N	TTL	S54193F	PHIN		DIP	162- 35
170♦	74-193N	TTL	S54193F	RTCF		DIP	162- 35
171♦	74-193N	TTL	S54193F	SIC		DIP	162- 35
172♦	74-193N	TTL	S54193F	VALG		DIP	162- 35
173♦	74-193N	TTL	ZN74193E	FERB		DIP	165- 42
174♦	74-193N	TTL	ZN74193J	FERB		DIP	165- 43
175♦	74-193N	TTL	54LS193DM	FSC		DIP	163- 19
176♦	74-193N	TTL	54193DM	FSC		DIP	162- 59
177♦	74-193N	TTL	74LS193DC	FSC		DIP	163- 21
178♦	74-193N	TTL	74LS193PC	FSC		DIP	163- 22
179♦	74-193N	TTL	74193DC	FSC		DIP	165- 40
180♦	74-193N	TTL	74193PC	FSC			162- 61
181♦	74-196	TTL	DN74LS196P1	MATJ		DIP	175- 57
182♦	74-196	TTL	SN74LS196D	TII	*	SO	175- 75
183♦	74-196	TTL	SN74S196D	TII	*	SO	176- 92
184♦	74-196N	TTL	DM54196J	NSC		DIP	176- 9
185♦	74-196N	TTL	DM7280J	NSC		DIP	175-106
186♦	74-196N	TTL	DM74LS196N	NSC		DIP	175- 56
187♦	74-196N	TTL	DM74S196N	NSC		DIP	176- 51
188♦	74-196N	TTL	DM74196N	NSC		DIP	176- 10
189♦	74-196N	TTL	DM8280J	NSC		DIP	175-108
190♦	74-196N	TTL	DM8280N	NSC		DIP	175-109
191♦	74-196N	TTL	N74LS196F	MULB		DIP	174- 99
192♦	74-196N	TTL	N74LS196F	PHIN		DIP	174- 99
193♦	74-196N	TTL	N74LS196F	VALG		DIP	174- 99
194♦	74-196N	TTL	N74LS196N	MULB		DIP	174-100
195♦	74-196N	TTL	N74LS196N	PHIN		DIP	174-100
196♦	74-196N	TTL	N74LS196N	VALG		DIP	174-100
197♦	74-196N	TTL	N74S196F	MULB		DIP	176- 52
198♦	74-196N	TTL	N74S196F	PHIN		DIP	176- 52
199♦	74-196N	TTL	N82S90F	MULB		DIP	175- 90
200♦	74-196N	TTL	N82S90F	PHIN		DIP	175- 90
201♦	74-196N	TTL	N82S90F	VALG		DIP	175- 90
202♦	74-196N	TTL	N82S90N	MULB		DIP	175- 91
203♦	74-196N	TTL	N82S90N	PHIN		DIP	175- 91
204♦	74-196N	TTL	N82S90N	VALG		DIP	175- 91
205♦	74-196N	TTL	N8280F	MULB		DIP	173- 26
206♦	74-196N	TTL	N8280F	PHIN		DIP	173- 26
207♦	74-196N	TTL	N8280F	VALG		DIP	173- 26
208♦	74-196N	TTL	N8280N	MULB		DIP	173- 27
209♦	74-196N	TTL	N8280N	PHIN		DIP	173- 27
210♦	74-196N	TTL	N8280N	VALG		DIP	173- 27
211♦	74-196N	TTL	N8288F	MULB		DIP	174- 55
212♦	74-196N	TTL	N8288F	PHIN		DIP	174- 55
213♦	74-196N	TTL	N8290F	MULB		DIP	174- 11
214♦	74-196N	TTL	N8290F	PHIN		DIP	174- 11
215♦	74-196N	TTL	N8290F	VALG		DIP	174- 11
216♦	74-196N	TTL	N8290N	MULB		DIP	174- 12
217♦	74-196N	TTL	N8290N	PHIN		DIP	174- 12
218♦	74-196N	TTL	N8290N	VALG		DIP	174- 12
219♦	74-196N	TTL	N8292F	MULB		DIP	172- 75
220♦	74-196N	TTL	N8292F	PHIN		DIP	172- 75

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-196N	TTL	N8292F	VALG		DIP	172- 75
2♦	74-196N	TTL	N8292N	MULB		DIP	172- 76
3♦	74-196N	TTL	N8292N	PHIN		DIP	172- 76
4♦	74-196N	TTL	N8292N	VALG		DIP	172- 76
5♦	74-196N	TTL	SN54LS196J	MOTA		DIP	175- 70
6♦	74-196N	TTL	SN54LS196J	TII		DIP	175- 70
7♦	74-196N	TTL	SN54S196J	TII		DIP	176- 91
8♦	74-196N	TTL	SN74LS196J	MOTA		DIP	175- 76
9♦	74-196N	TTL	SN74LS196N	MOTA		DIP	175- 77
10♦	74-196N	TTL	SN74LS196N	TII		DIP	175- 77
11♦	74-196N	TTL	SN74S196N	TII		DIP	176- 93
12♦	74-196N	TTL	SN74196N	TII		DIP	176- 33
13♦	74-196N	TTL	S54LS196F	MULB		DIP	174-101
14♦	74-196N	TTL	S54LS196F	PHIN		DIP	174-101
15♦	74-196N	TTL	S54LS196F	SIC		DIP	174-101
16♦	74-196N	TTL	S54LS196F	VALG		DIP	174-101
17♦	74-196N	TTL	S8280F	MULB		DIP	173- 31
18♦	74-196N	TTL	S8280F	PHIN		DIP	173- 31
19♦	74-196N	TTL	S8280F	SIC		DIP	173- 31
20♦	74-196N	TTL	S8280F	VALG		DIP	173- 31
21♦	74-196N	TTL	S8290F	MULB		DIP	174- 17
22♦	74-196N	TTL	S8290F	PHIN		DIP	174- 17
23♦	74-196N	TTL	S8290F	VALG		DIP	174- 17
24♦	74-196N	TTL	S8292F	MULB		DIP	172- 77
25♦	74-196N	TTL	S8292F	PHIN		DIP	172- 77
26♦	74-196N	TTL	S8292F	VALG		DIP	172- 77
27♦	74-196N	TTL	54196DM	FSC		DIP	176- 23
28♦	74-196N	TTL	74LS196PC	FSC		DIP	176- 19
29♦	74-196N	TTL	74196DC	FSC		DIP	176- 24
30♦	74-196N	TTL	74196PC	FSC		DIP	176- 25
31♦	74LS196	TTL	DM54LS196J	NSC		DIP	175- 54
32♦	74LS196	TTL	DN74LS196P4	MATJ	*	SO	175- 58
33♦	74LS197	TTL	DM54LS197J	NSC		DIP	157- 86
34♦	74LS197	TTL	DN74LS197P1	MATJ		DIP	157- 89
35♦	74LS197	TTL	DN74LS197P4	MATJ	*	SO	157- 90
36	74-221	CMOS	CD54HCT221F	RCA		DIP	189- 71
37	74-221	CMOS	CD54HC221F	RCA		DIP	189- 67
38	74-221	CMOS	CD74HCT221E	RCA		DIP	189- 84
39	74-221	CMOS	CD74HC221E	RCA		DIP	189- 76
40♦	74-221	CMOS	MC54HC221J(A)	MOTA		DIP	188- 74
41♦	74-221	CMOS	MC74HC221J(A)	MOTA		DIP	188- 75
42♦	74-221	CMOS	MC74HC221N(A)	MOTA		DIP	188- 76
43♦	74-221	CMOS	MM54C221D	NSC		DIP	190- 86
44♦	74-221	CMOS	MM74C221N	NSC		DIP	190- 91
45♦	74-221	CMOS	MM74HC221J	NSC		DIP	190- 94
46♦	74-221	CMOS	MM74HC221N	NSC		DIP	190- 95
47♦	74-221	CMOS	PC54HCT221D(A)	MULB		DIP	191- 9
48♦	74-221	CMOS	PC54HCT221D(A)	PHIN		DIP	191- 9
49♦	74-221	CMOS	PC54HCT221D(A)	RTCF		DIP	191- 9
50♦	74-221	CMOS	PC54HCT221D(A)	VALG		DIP	191- 9
51♦	74-221	CMOS	PC54HC221D(A)	MULB		DIP	191- 5
52♦	74-221	CMOS	PC54HC221D(A)	PHIN		DIP	191- 5
53♦	74-221	CMOS	PC54HC221D(A)	RTCF		DIP	191- 5
54♦	74-221	CMOS	PC54HC221D(A)	VALG		DIP	191- 5
55♦	74-221	CMOS	PC74HCT221D(A)	MULB		DIP	191- 27
56♦	74-221	CMOS	PC74HCT221D(A)	PHIN		DIP	191- 27
57♦	74-221	CMOS	PC74HCT221D(A)	RTCF		DIP	191- 27
58♦	74-221	CMOS	PC74HCT221D(A)	VALG		DIP	191- 27
59♦	74-221	CMOS	PC74HCT221P	MULB		DIP	191- 28
60♦	74-221	CMOS	PC74HCT221P	PHIN		DIP	191- 28
61♦	74-221	CMOS	PC74HCT221P	RTCF		DIP	191- 28
62♦	74-221	CMOS	PC74HCT221P	VALG		DIP	191- 28
63	74-221	CMOS	PC74HCT221T	MULB	*	SO	191- 29
64	74-221	CMOS	PC74HCT221T	PHIN	*	SO	191- 29
65	74-221	CMOS	PC74HCT221T	RTCF	*	SO	191- 29
66	74-221	CMOS	PC74HCT221T	VALG	*	SO	191- 29
67♦	74-221	CMOS	PC74HC221D(A)	MULB		DIP	191- 15
68♦	74-221	CMOS	PC74HC221D(A)	PHIN		DIP	191- 15
69♦	74-221	CMOS	PC74HC221D(A)	RTCF		DIP	191- 15
70♦	74-221	CMOS	PC74HC221D(A)	VALG		DIP	191- 15
71♦	74-221	CMOS	PC74HC221P	MULB		DIP	191- 16
72♦	74-221	CMOS	PC74HC221P	PHIN		DIP	191- 16
73♦	74-221	CMOS	PC74HC221P	RTCF		DIP	191- 16
74♦	74-221	CMOS	PC74HC221P	VALG		DIP	191- 16
75	74-221	CMOS	PC74HC221T	MULB	*	SO	191- 17
76	74-221	CMOS	PC74HC221T	PHIN	*	SO	191- 17
77	74-221	CMOS	PC74HC221T	RTCF	*	SO	191- 17
78	74-221	CMOS	PC74HC221T	VALG	*	SO	191- 17
79▼	74-221	CMOS	TC74HC221F	TOSA	*	SO	191- 70
80▼	74-221	CMOS	TC74HC221P	TOSA		DIP	191- 71
81	74-221	CMOS	74HCT221D	SIC	*	SO	189- 29
82♦	74-221	CMOS	74HCT221N	SIC		DIP	189- 30
83	74-221	CMOS	74HC221D	SIC	*	SO	189- 21
84♦	74-221	CMOS	74HC221N	SIC		DIP	189- 22
85♦	74-221	TTL	DM74LS221N	NSC		DIP	189- 97
86▼	74-221	TTL	HD74LS221G	HITJ		DIP	190- 15
87♦	74-221	TTL	HD74LS221P	HITJ		DIP	190- 16
88♦	74-221	TTL	M74LS221P	MITA		DIP	190- 44
89♦	74-221	TTL	M74LS221P	MITJ		DIP	190- 44
90♦	74-221	TTL	N74LS221F	MULB		DIP	190-103
91♦	74-221	TTL	N74LS221F	PHIN		DIP	190-103
92♦	74-221	TTL	N74LS221F	VALG		DIP	190-103
93♦	74-221	TTL	N74LS221N	MULB		DIP	190-104
94♦	74-221	TTL	N74LS221N	PHIN		DIP	190-104
95♦	74-221	TTL	N74LS221N	VALG		DIP	190-104
96	74-221	TTL	N74221D	MULB	*	SO	191- 1
97	74-221	TTL	N74221D	PHIN	*	SO	191- 1
98	74-221	TTL	N74221D	RTCF	*	SO	191- 1
99	74-221	TTL	N74221D	SIC	*	SO	191- 1
100	74-221	TTL	N74221D	VALG	*	SO	191- 1
101♦	74-221	TTL	N74221F	MULB		DIP	191- 2
102♦	74-221	TTL	N74221F	PHIN		DIP	191- 2
103♦	74-221	TTL	N74221F	VALG		DIP	191- 2
104♦	74-221	TTL	N74221N	MULB		DIP	191- 3
105♦	74-221	TTL	N74221N	PHIN		DIP	191- 3
106♦	74-221	TTL	N74221N	RTCF		DIP	191- 3
107♦	74-221	TTL	N74221N	SIC		DIP	191- 3
108♦	74-221	TTL	N74221N	VALG		DIP	191- 3
109♦	74-221	TTL	SN54LS221J	MOTA		DIP	191- 54
110♦	74-221	TTL	SN54LS221J	TII		DIP	191- 54
111▼	74-221	TTL	SN54LS221N	MOTA		DIP	191- 55
112♦	74-221	TTL	SN54221J	TII		DIP	191- 65
113	74-221	TTL	SN74LS221D	TII	*	SO	191- 59
114♦	74-221	TTL	SN74LS221J	MOTA		DIP	191- 60
115♦	74-221	TTL	SN74LS221N	MOTA		DIP	191- 61
116♦	74-221	TTL	SN74LS221N	TII		DIP	191- 61
117♦	74-221	TTL	SN74221N	TII		DIP	191- 67
118♦	74-221	TTL	S54LS221F	MULB		DIP	191- 38
119♦	74-221	TTL	S54LS221F	PHIN		DIP	191- 38
120♦	74-221	TTL	S54LS221F	SIC		DIP	191- 38
121♦	74-221	TTL	S54LS221F	VALG		DIP	191- 38
122♦	74-221	TTL	S54221F	MULB		DIP	191- 46
123♦	74-221	TTL	S54221F	PHIN		DIP	191- 46
124♦	74-221	TTL	S54221F	RTCF		DIP	191- 46
125♦	74-221	TTL	S54221F	SIC		DIP	191- 46
126♦	74-221	TTL	S54221F	VALG		DIP	191- 46
127▼	74-221N	CMOS	HD74HC221AFP(A)	HITJ	*	SO	190- 9
128▼	74-221N	CMOS	HD74HC221AP(A)	HITJ		DIP	190- 10
129▼	74-221N	CMOS	M74HC221B1	SGSI		DIP	190- 34
130▼	74-221N	CMOS	M74HC221F1	SGSI		DIP	190- 36
131♦	74-221N	TTL	MB74LS221	FCAJ		DIP	190- 51
132♦	74-221N	TTL	MB74LS221M	FCAJ		DIP	190- 52
133♦	74SC238	CMOS	CD74HCT238E(2)	RCA		DIP	125- 12
134♦	74LS256	TTL	N74F256D(A)	MULB	*	SO	229- 30
135♦	74LS256	TTL	N74F256D(A)	PHIN	*	SO	229- 30
136♦	74LS256	TTL	N74F256D(A)	RTCF	*	SO	229- 30
137♦	74LS256	TTL	N74F256D(A)	SIC	*	SO	229- 30
138♦	74LS256	TTL	N74F256D(A)	VALG	*	SO	229- 30
139♦	74LS256	TTL	N74F256N(A)	MULB		DIP	229- 31
140♦	74LS256	TTL	N74F256N(A)	PHIN		DIP	229- 31
141♦	74LS256	TTL	N74F256N(A)	RTCF		DIP	229- 31
142♦	74LS256	TTL	N74F256N(A)	SIC		DIP	229- 31
143♦	74LS256	TTL	N74F256N(A)	VALG		DIP	229- 31
144♦	74LS256	TTL	54F256DM(A)	FSC		DIP	230- 51
145♦	74LS256	TTL	74F256DC(A)	FSC		DIP	230- 53
146♦	74LS256	TTL	74F256PC(A)	FSC		DIP	230- 55
147♦	74LS256N	TTL	N74LS256F	MULB		DIP	231-105
148♦	74LS256N	TTL	N74LS256F	PHIN		DIP	231-105
149♦	74LS256N	TTL	N74LS256F	RTCF		DIP	231-105
150♦	74LS256N	TTL	N74LS256F	VALG		DIP	231-105
151♦	74LS256N	TTL	N74LS256N	MULB		DIP	231- 80
152♦	74LS256N	TTL	N74LS256N	PHIN		DIP	231- 80
153♦	74LS256N	TTL	N74LS256N	RTCF		DIP	231- 80
154♦	74LS256N	TTL	N74LS256N	SIC		DIP	231- 80
155♦	74LS256N	TTL	N74LS256N	VALG		DIP	231- 80
156♦	74LS256N	TTL	SN54LS256J	MOTA		DIP	231- 54
157▼	74LS256N	TTL	SN54LS256N	MOTA		DIP	231- 55
158♦	74LS256N	TTL	SN74LS256J	MOTA		DIP	231- 63
159♦	74LS256N	TTL	SN74LS256N	MOTA		DIP	231- 64
160♦	74LS256N	TTL	S54LS256F	MULB		DIP	231- 81
161♦	74LS256N	TTL	S54LS256F	PHIN		DIP	231- 81
162♦	74LS256N	TTL	S54LS256F	RTCF		DIP	231- 81
163♦	74LS256N	TTL	S54LS256F	SIC		DIP	231- 81
164♦	74LS256N	TTL	S54LS256F	VALG		DIP	231- 81
165♦	74LS256N	TTL	54LS256DM	FSC		DIP	231- 18
166♦	74LS256N	TTL	74LS256DC	FSC		DIP	231- 20
167	74LS256N	TTL	74LS256PC	FSC			231- 21
168♦	74-259	CMOS	CD54HCT259F	RCA		DIP	240- 19
169♦	74-259	CMOS	CD54HC259F	RCA		DIP	240- 18
170♦	74-259	CMOS	CD74HCT259E	RCA		DIP	241- 49
171♦	74-259	CMOS	CD74HC259E	RCA		DIP	239- 39
172♦	74-259	CMOS	MC54HC259J(A)	MOTA		DIP	233- 62
173♦	74-259	CMOS	MC74HC259J(A)	MOTA		DIP	233- 64
174♦	74-259	CMOS	MC74HC259N(A)	MOTA		DIP	233- 65
175♦	74-259	CMOS	M54HC259F1(A)	SGSI		DIP	237-100
176♦	74-259	CMOS	M74HC259B1(A)	SGSI		DIP	238- 49
177♦	74-259	CMOS	M74HC259F1(A)	SGSI		DIP	238- 51
178♦	74-259	CMOS	PC54HCT259D(A)	PHIN		DIP	240- 74
179♦	74-259	CMOS	PC54HCT259D(A)	RTCF		DIP	240- 74
180♦	74-259	CMOS	PC54HCT259D(A)	VALG		DIP	240- 74
181♦	74-259	CMOS	PC54HC259D(A)	PHIN		DIP	240- 70
182♦	74-259	CMOS	PC54HC259D(A)	RTCF		DIP	240- 70
183♦	74-259	CMOS	PC54HC259D(A)	VALG		DIP	240- 70
184♦	74-259	CMOS	PC74HCT259D(A)	MULB		DIP	240- 53
185♦	74-259	CMOS	PC74HCT259D(A)	PHIN		DIP	240- 53
186♦	74-259	CMOS	PC74HCT259D(A)	RTCF		DIP	240- 53
187♦	74-259	CMOS	PC74HCT259D(A)	VALG		DIP	240- 53
188♦	74-259	CMOS	PC74HCT259P	MULB		DIP	240- 61
189♦	74-259	CMOS	PC74HCT259P	PHIN		DIP	240- 61
190♦	74-259	CMOS	PC74HCT259P	RTCF		DIP	240- 61
191♦	74-259	CMOS	PC74HCT259P	VALG		DIP	240- 61
192♦	74-259	CMOS	PC74HCT259T(A)	MULB	*	SO	240- 62
193♦	74-259	CMOS	PC74HCT259T(A)	PHIN	*	SO	240- 62
194♦	74-259	CMOS	PC74HCT259T(A)	RTCF	*	SO	240- 62
195♦	74-259	CMOS	PC74HCT259T(A)	VALG	*	SO	240- 62
196♦	74-259	CMOS	PC74HC259D(A)	MULB		DIP	240- 40
197♦	74-259	CMOS	PC74HC259D(A)	RTCF		DIP	240- 40
198♦	74-259	CMOS	PC74HC259D(A)	VALG		DIP	240- 40
199♦	74-259	CMOS	PC74HC259P	MULB		DIP	240- 56
200♦	74-259	CMOS	PC74HC259P	PHIN		DIP	240- 56
201♦	74-259	CMOS	PC74HC259P	RTCF		DIP	240- 56
202♦	74-259	CMOS	PC74HC259P	VALG		DIP	240- 56
203♦	74-259	CMOS	PC74HC259T(A)	MULB	*	SO	240- 41
204♦	74-259	CMOS	PC74HC259T(A)	PHIN	*	SO	240- 41
205♦	74-259	CMOS	PC74HC259T(A)	RTCF	*	SO	240- 41
206♦	74-259	CMOS	PC74HC259T(A)	VALG	*	SO	240- 41
207♦	74-259	CMOS	UPD74HC259C(A)	NECJ		DIP	237- 7
208♦	74-259	CMOS	74HCT259D	SIC	*	SO	240- 42
209♦	74-259	CMOS	74HCT259N	SIC		DIP	240- 43
210♦	74-259	CMOS	74HC259D	SIC	*	SO	239- 37
211♦	74-259	CMOS	74HC259N	SIC		DIP	239- 38
212♦	74-259	TTL	N74F259D(A)	MULB	*	SO	229- 6
213♦	74-259	TTL	N74F259D(A)	PHIN	*	SO	229- 6
214♦	74-259	TTL	N74F259D(A)	RTCF	*	SO	229- 6
215♦	74-259	TTL	N74F259D(A)	SIC	*	SO	229- 6
216♦	74-259	TTL	N74F259D(A)	VALG	*	SO	229- 6
217♦	74-259	TTL	N74F259N(A)	MULB		DIP	229- 7
218♦	74-259	TTL	N74F259N(A)	PHIN		DIP	229- 7
219♦	74-259	TTL	N74F259N(A)	RTCF		DIP	229- 7
220♦	74-259	TTL	N74F259N(A)	SIC		DIP	229- 7

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-259	TTL	N74F259N(A)	VALG		DIP	229- 7
2♦	74-259	TTL	SN74LS259BD	TII	*	SO	238- 38
3♦	74-259	TTL	SN74LS259BN	TII		DIP	238- 39
4♦	74-259	TTL	54F259DM(A)	FSC		DIP	234- 85
5♦	74-259	TTL	74F259DC(A)	FSC		DIP	234- 87
6♦	74-259	TTL	74F259PC(A)	FSC		DIP	234- 89
7▼	74-259N	CMOS	HD74HC259FP	HITJ	*	SO	236- 64
8▼	74-259N	CMOS	HD74HC259P	HITJ		DIP	236- 65
9▼	74-259N	CMOS	SN74HC259D	TII	*	SO	238- 59
10♦	74-259N	CMOS	SN74HC259N	TII		DIP	238- 60
11	74-259N	CMOS	TC40H259P	IMTM		DIP	240- 88
12	74-259N	CMOS	TC40H259P	TOSJ		DIP	240- 88
13▼	74-259N	CMOS	TC74HC259F(A)	TOSA	*	SO	238- 62
14▼	74-259N	CMOS	TC74HC259P(A)	TOSA		DIP	238- 63
15♦	74-259N	TTL	DM74259N	NSC		DIP	238- 5
16♦	74-259N	TTL	DM8334J	NSC		DIP	238- 85
17♦	74-259N	TTL	DM8334N	NSC		DIP	238- 86
18♦	74-259N	TTL	DM9334J	NSC		DIP	238- 88
19♦	74-259N	TTL	HD74LS259P	HITJ		DIP	238- 92
20♦	74-259N	TTL	M74LS259P	MITA		DIP	239- 31
21♦	74-259N	TTL	M74LS259P	MITJ		DIP	239- 31
22♦	74-259N	TTL	N74LS259F	MULB		DIP	239- 32
23♦	74-259N	TTL	N74LS259F	PHIN		DIP	239- 32
24♦	74-259N	TTL	N74LS259F	RTCF		DIP	239- 32
25♦	74-259N	TTL	N74LS259F	VALG		DIP	239- 32
26♦	74-259N	TTL	N74LS259N	MULB		DIP	238- 53
27♦	74-259N	TTL	N74LS259N	PHIN		DIP	238- 53
28♦	74-259N	TTL	N74LS259N	RTCF		DIP	238- 53
29♦	74-259N	TTL	N74LS259N	SIC		DIP	238- 53
30♦	74-259N	TTL	N74LS259N	VALG		DIP	238- 53
31♦	74-259N	TTL	N9334F	MULB		DIP	238-110
32♦	74-259N	TTL	N9334F	PHIN		DIP	238-110
33♦	74-259N	TTL	N9334F	VALG		DIP	238-110
34♦	74-259N	TTL	N9334N	MULB		DIP	239- 1
35♦	74-259N	TTL	N9334N	PHIN		DIP	239- 1
36♦	74-259N	TTL	N9334N	SIC		DIP	239- 1
37♦	74-259N	TTL	N9334N	VALG		DIP	239- 1
38♦	74-259N	TTL	SN54LS259J	MOTA		DIP	239- 33
39♦	74-259N	TTL	SN54LS259J	TII		DIP	239- 33
40▼	74-259N	TTL	SN54LS259N	MOTA		DIP	239- 34
41▼	74-259N	TTL	SN74ALS259D	TII	*	SO	237- 14
42▼	74-259N	TTL	SN74ALS259N	TII		DIP	237- 15
43♦	74-259N	TTL	SN74LS259J	MOTA		DIP	239- 35
44♦	74-259N	TTL	SN74LS259N	MOTA		DIP	239- 36
45♦	74-259N	TTL	SN74259N	TII		DIP	238- 11
46♦	74-259N	TTL	S54LS259F	MULB		DIP	238- 55
47♦	74-259N	TTL	S54LS259F	PHIN		DIP	238- 55
48♦	74-259N	TTL	S54LS259F	RTCF		DIP	238- 55
49♦	74-259N	TTL	S54LS259F	SIC		DIP	238- 55
50♦	74-259N	TTL	S54LS259F	VALG		DIP	238- 55
51♦	74-259N	TTL	S9334F	MULB		DIP	239- 2
52♦	74-259N	TTL	S9334F	PHIN		DIP	239- 2
53♦	74-259N	TTL	S9334F	SIC		DIP	239- 2
54♦	74-259N	TTL	S9334F	VALG		DIP	239- 2
55♦	74-259N	TTL	54LS259DM	FSC		DIP	238- 18
56♦	74-259N	TTL	74LS259DC	FSC		DIP	238- 20
57♦	74-259N	TTL	74LS259PC	FSC		DIP	238- 21
58♦	74-259N	TTL	93L34DC	FSC		DIP	239- 15
59♦	74-259N	TTL	93L34DM	FSC		DIP	239- 16
60♦	74-259N	TTL	93L34PC	FSC		DIP	239- 18
61♦	74-259N	TTL	9334DC	FSC		DIP	237-109
62♦	74-259N	TTL	9334PC	FSC		DIP	238- 1
63♦	74S260	TTL	DN74LS260P1	MATJ		DIP	119- 30
64♦	74S260	TTL	DN74LS260P4	MATJ	*	SO	119- 31
65▼	74S260	TTL	N74F260D	PHIN	*	SO	119- 14
66♦	74S260	TTL	N74F260N	PHIN		DIP	119- 25
67♦	74S260	TTL	SN74S260D	TII	*	SO	119- 23
68♦	74S260N	TTL	N74LS260D	MULB	*	SO	119- 32
69♦	74S260N	TTL	N74LS260D	PHIN	*	SO	119- 32
70♦	74S260N	TTL	N74LS260D	RTCF	*	SO	119- 32
71♦	74S260N	TTL	N74LS260D	SIC	*	SO	119- 32
72♦	74S260N	TTL	N74LS260D	VALG	*	SO	119- 32
73♦	74S260N	TTL	N74LS260N	MULB		DIP	119- 33
74♦	74S260N	TTL	N74LS260N	PHIN		DIP	119- 33
75♦	74S260N	TTL	N74LS260N	RTCF		DIP	119- 33
76♦	74S260N	TTL	N74LS260N	SIC		DIP	119- 33
77♦	74S260N	TTL	N74LS260N	VALG		DIP	119- 33
78♦	74S260N	TTL	N74S260D	MULB	*	SO	119- 17
79♦	74S260N	TTL	N74S260D	PHIN	*	SO	119- 17
80♦	74S260N	TTL	N74S260D	RTCF	*	SO	119- 17
81♦	74S260N	TTL	N74S260D	SIC	*	SO	119- 17
82♦	74S260N	TTL	N74S260D	VALG	*	SO	119- 17
83♦	74S260N	TTL	N74S260N	MULB		DIP	119- 18
84♦	74S260N	TTL	N74S260N	PHIN		DIP	119- 18
85♦	74S260N	TTL	N74S260N	RTCF		DIP	119- 18
86♦	74S260N	TTL	N74S260N	SIC		DIP	119- 18
87♦	74S260N	TTL	N74S260N	VALG		DIP	119- 18
88♦	74S260N	TTL	SN54LS260J	MOTA		DIP	119- 36
89▼	74S260N	TTL	SN54LS260N	MOTA		DIP	119- 37
90♦	74S260N	TTL	SN54S260J	TII		DIP	119- 22
91♦	74S260N	TTL	SN74LS260J	MOTA		DIP	119- 38
92♦	74S260N	TTL	SN74LS260N	MOTA		DIP	119- 39
93♦	74S260N	TTL	SN74S260N	TII		DIP	119- 24
94♦	74S260N	TTL	S54LS260F	MULB		DIP	119- 34
95♦	74S260N	TTL	S54LS260F	PHIN		DIP	119- 34
96♦	74S260N	TTL	S54LS260F	RTCF		DIP	119- 34
97♦	74S260N	TTL	S54LS260F	SIC		DIP	119- 34
98♦	74S260N	TTL	S54LS260F	VALG		DIP	119- 34
99♦	74S260N	TTL	S54S260F	MULB		DIP	119- 19
100♦	74S260N	TTL	S54S260F	PHIN		DIP	119- 19
101♦	74S260N	TTL	S54S260F	RTCF		DIP	119- 19
102♦	74S260N	TTL	S54S260F	SIC		DIP	119- 19
103♦	74S260N	TTL	S54S260F	VALG		DIP	119- 19
104♦	74S260N	TTL	54LS260DM	FSC		DIP	119- 26
105♦	74S260N	TTL	54S260DM	FSC		DIP	119- 15
106♦	74S260N	TTL	74LS260DC	FSC		DIP	119- 28
107♦	74S260N	TTL	74LS260PC	FSC		DIP	119- 29
108♦	74LS261	TTL	N74LS261F	MULB		DIP	202- 36
109♦	74LS261	TTL	N74LS261F	PHIN		DIP	202- 36
110♦	74LS261	TTL	N74LS261F	VALG		DIP	202- 36
111♦	74LS261	TTL	N74LS261N	MULB		DIP	202- 37
112♦	74LS261	TTL	N74LS261N	PHIN		DIP	202- 37
113♦	74LS261	TTL	N74LS261N	VALG		DIP	202- 37
114♦	74LS261	TTL	SN54LS261J	TII		DIP	202- 40
115♦	74LS261	TTL	SN74LS261N	TII		DIP	202- 41
116♦	74LS261	TTL	S54LS261F	MULB		DIP	202- 38
117♦	74LS261	TTL	S54LS261F	PHIN		DIP	202- 38
118♦	74LS261	TTL	S54LS261F	VALG		DIP	202- 38
119	74AS264	CMOS	74HCT182D	SIC	*	SO	225- 63
120♦	74AS264	CMOS	74HCT182N	SIC		DIP	225- 64
121	74AS264	CMOS	74HC182D	SIC	*	SO	225- 47
122♦	74AS264	CMOS	74HC182N	SIC		DIP	225- 48
123♦	74AS264	TTL	DM54AS264J(A)	NSC		DIP	224- 71
124♦	74AS264	TTL	DM74AS264J	NSC		DIP	224- 62
125♦	74AS264	TTL	DM74AS264N(A)	NSC		DIP	225- 14
126♦	74-265N	MON	SN54265J	TII		DIP	246-103
127♦	74-265N	MON	SN74265N	TII		DIP	246-104
128♦	74LS266	CMOS	M54HC266F1(A)	SGSI		DIP	90- 20
129♦	74LS266	CMOS	M74HC266B1(A)	SGSI		DIP	90- 21
130♦	74LS266	CMOS	M74HC266F1(A)	SGSI		DIP	90- 22
131♦	74LS266	CMOS	PC54HC7266D(A)	MULB		DIP	90- 49
132♦	74LS266	CMOS	PC54HC7266D(A)	PHIN		DIP	90- 49
133♦	74LS266	CMOS	PC54HC7266D(A)	VALG		DIP	90- 49
134♦	74LS266	CMOS	PC74HC7266D(A)	MULB		DIP	90- 50
135♦	74LS266	CMOS	PC74HC7266D(A)	PHIN		DIP	90- 50
136♦	74LS266	CMOS	PC74HC7266D(A)	RTCF		DIP	90- 50
137♦	74LS266	CMOS	PC74HC7266D(A)	VALG		DIP	90- 50
138♦	74LS266	CMOS	PC74HC7266P(A)	MULB		DIP	90- 97
139♦	74LS266	CMOS	PC74HC7266P(A)	PHIN		DIP	90- 97
140♦	74LS266	CMOS	PC74HC7266P(A)	RTCF		DIP	90- 97
141♦	74LS266	CMOS	PC74HC7266P(A)	VALG		DIP	90- 97
142♦	74LS266	CMOS	PC74HC7266T(A)	MULB	*	SO	90- 98
143♦	74LS266	CMOS	PC74HC7266T(A)	PHIN	*	SO	90- 98
144♦	74LS266	CMOS	PC74HC7266T(A)	RTCF	*	SO	90- 98
145♦	74LS266	CMOS	PC74HC7266T(A)	VALG	*	SO	90- 98
146♦	74LS266	CMOS	UPD74HC266C(A)	NECJ		DIP	90- 60
147♦	74LS266	TTL	DM54LS266J	NSC		DIP	89-108
148♦	74LS266	TTL	DM74LS266N	NSC		DIP	90- 7
149♦	74LS266	TTL	DN74LS266P1	MATJ		DIP	90- 8
150♦	74LS266	TTL	DN74LS266P4	MATJ	*	SO	90- 9
151♦	74LS266	TTL	SN74LS266D	TII	*	SO	90- 56
152♦	74LS266	TTL	S8242F	MULB		DIP	90- 53
153♦	74LS266	TTL	S8242F	PHIN		DIP	90- 53
154♦	74LS266	TTL	S8242F	VALG		DIP	90- 53
155♦	74LS266N	CMOS	BCL4077B	SSS		DIP	89-100
156♦	74LS266N	CMOS	CD4077BD	RCA		DIP	89-101
157♦	74LS266N	CMOS	CD4077BE	RCA		DIP	89-102
158♦	74LS266N	CMOS	CD4077BF	RCA		DIP	89-103
159♦	74LS266N	CMOS	CD54HCT7266F(A)	RCA		DIP	90- 86
160♦	74LS266N	CMOS	CD54HC7266F	RCA		DIP	90- 85
161♦	74LS266N	CMOS	CD74HCT7266E(A)	RCA		DIP	90- 76
162♦	74LS266N	CMOS	CD74HCT7266M(A)	RCA	*	SO	90- 77
163♦	74LS266N	CMOS	CD74HC7266E	RCA		DIP	90- 74
164♦	74LS266N	CMOS	CD74HC7266M	RCA	*	SO	90- 75
165♦	74LS266N	CMOS	HCC4077BD	SGSI		DIP	90- 10
166♦	74LS266N	CMOS	HCC4077BF	SGSI		DIP	90- 11
167♦	74LS266N	CMOS	HCF4077BE	SGSI		DIP	90- 12
168♦	74LS266N	CMOS	HCF4077BF	SGSI		DIP	90- 13
169♦	74LS266N	CMOS	HD74HC266	HITJ		DIP	90- 14
170▼	74LS266N	CMOS	HD74HC7266FP	HITJ	*	SO	90- 61
171▼	74LS266N	CMOS	HD74HC7266P	HITJ		DIP	90- 62
172♦	74LS266N	CMOS	HEF4077	RTCF		DIP	90- 15
173♦	74LS266N	CMOS	HEF4077B	VALG		DIP	90- 16
174♦	74LS266N	CMOS	HEF4077BD	MULB		DIP	90-105
175♦	74LS266N	CMOS	HEF4077BD	PHIN		DIP	90-105
176♦	74LS266N	CMOS	HEF4077BD	RTCF		DIP	90-105
177♦	74LS266N	CMOS	HEF4077BD	VALG		DIP	90-105
178♦	74LS266N	CMOS	HEF4077BP	MULB		DIP	90-106
179♦	74LS266N	CMOS	HEF4077BP	PHIN		DIP	90-106
180♦	74LS266N	CMOS	HEF4077BP	RTCF		DIP	90-106
181♦	74LS266N	CMOS	HEF4077BP	VALG		DIP	90-106
182♦	74LS266N	CMOS	HEF4077BPN	SIC		DIP	90- 17
183♦	74LS266N	CMOS	HEF4077P	PHIN		DIP	90- 18
184♦	74LS266N	CMOS	LC4077B	TSAJ		DIP	90- 19
185♦	74LS266N	CMOS	MB84077B	FCAJ		DIP	90- 26
186♦	74LS266N	CMOS	MB84077BM	FCAJ		DIP	90- 27
187♦	74LS266N	CMOS	MC14077BAL	MOTA		DIP	90- 28
188▼	74LS266N	CMOS	MC14077BALD	MOTA		DIP	90- 29
189▼	74LS266N	CMOS	MC14077BALDS	MOTA		DIP	90- 30
190▼	74LS266N	CMOS	MC14077BALS	MOTA		DIP	90- 31
191♦	74LS266N	CMOS	MC14077BCL	MOTA		DIP	90- 32
192▼	74LS266N	CMOS	MC14077BCLD	MOTA		DIP	90- 33
193▼	74LS266N	CMOS	MC14077BCLDS	MOTA		DIP	90- 34
194▼	74LS266N	CMOS	MC14077BCLS	MOTA		DIP	90- 35
195♦	74LS266N	CMOS	MC14077BCP	MOTA		DIP	90- 36
196▼	74LS266N	CMOS	MC14077BCPD	MOTA		DIP	90- 37
197▼	74LS266N	CMOS	MC14077BCPDS	MOTA		DIP	90- 38
198▼	74LS266N	CMOS	MC14077BCPS	MOTA		DIP	90- 39
199▼	74LS266N	CMOS	MC14077BD	MOTA		DIP	90- 40
200♦	74LS266N	CMOS	MC54HC266J	MOTA			90- 89
201♦	74LS266N	CMOS	MM74HC266J	NSC		DIP	90- 41
202♦	74LS266N	CMOS	MM74HC266N	NSC		DIP	90- 42
203♦	74LS266N	CMOS	SCL4077B	SSS		DIP	90- 54
204▼	74LS266N	CMOS	SN74HC266D	TII	*	SO	90- 95
205♦	74LS266N	CMOS	SN74HC266N	TII		DIP	90- 96
206▼	74LS266N	CMOS	TC74HC7266F	TOSA	*	SO	90- 83
207▼	74LS266N	CMOS	TC74HC7266P(A)	TOSA		DIP	90- 84
208♦	74LS266N	CMOS	US74HCT266N(A)	UNV		DIP	90- 59
209♦	74LS266N	CMOS	4077BDC	FSC		DIP	89- 94
210♦	74LS266N	CMOS	4077BDM	FSC		DIP	89- 95
211♦	74LS266N	CMOS	4077BPC	FSC		DIP	89- 96
212♦	74LS266N	CMOS	883C4077B	SSS		DIP	89- 93
213▼	74LS266N	TTL	HD74LS266G	HITJ		DIP	90- 87
214♦	74LS266N	TTL	HD74LS266P	HITJ		DIP	90- 88
215♦	74LS266N	TTL	MB74LS266	FCAJ		DIP	90- 24
216♦	74LS266N	TTL	MB74LS266M	FCAJ		DIP	90- 25
217♦	74LS266N	TTL	M74LS266P	MITA		DIP	90- 23
218♦	74LS266N	TTL	M74LS266P	MITJ		DIP	90- 23
219♦	74LS266N	TTL	N74LS266F	MULB		DIP	90- 43
220♦	74LS266N	TTL	N74LS266F	PHIN		DIP	90- 43

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG SMD	PKG TYPE	PAGE & LINE
1♦	74LS266N	TTL	N74LS266F	RTCF		DIP	90- 43
2♦	74LS266N	TTL	N74LS266F	VALG		DIP	90- 43
3♦	74LS266N	TTL	N74LS266N	MULB		DIP	90- 44
4♦	74LS266N	TTL	N74LS266N	PHIN		DIP	90- 44
5♦	74LS266N	TTL	N74LS266N	RTCF		DIP	90- 44
6♦	74LS266N	TTL	N74LS266N	SIC		DIP	90- 44
7♦	74LS266N	TTL	N74LS266N	VALG		DIP	90- 44
8♦	74LS266N	TTL	N82S42F	MULB		DIP	90- 45
9♦	74LS266N	TTL	N82S42F	PHIN		DIP	90- 45
10♦	74LS266N	TTL	N82S42F	VALG		DIP	90- 45
11♦	74LS266N	TTL	N82S42N	MULB		DIP	90- 46
12♦	74LS266N	TTL	N82S42N	PHIN		DIP	90- 46
13♦	74LS266N	TTL	N82S42N	SIC		DIP	90- 46
14♦	74LS266N	TTL	N82S42N	VALG		DIP	90- 46
15♦	74LS266N	TTL	N8242F	MULB		DIP	90- 47
16♦	74LS266N	TTL	N8242F	PHIN		DIP	90- 47
17♦	74LS266N	TTL	N8242F	VALG		DIP	90- 47
18♦	74LS266N	TTL	N8242N	MULB		DIP	90- 48
19♦	74LS266N	TTL	N8242N	PHIN		DIP	90- 48
20♦	74LS266N	TTL	N8242N	SIC		DIP	90- 48
21♦	74LS266N	TTL	N8242N	VALG		DIP	90- 48
22♦	74LS266N	TTL	SN54LS266J	MOTA		DIP	90- 55
23♦	74LS266N	TTL	SN54LS266J	TII		DIP	90- 55
24♦	74LS266N	TTL	SN74LS266J	MOTA		DIP	90- 57
25♦	74LS266N	TTL	SN74LS266N	MOTA		DIP	90- 58
26♦	74LS266N	TTL	SN74LS266N	TII		DIP	90- 58
27♦	74LS266N	TTL	S54LS266F	MULB		DIP	90- 51
28♦	74LS266N	TTL	S54LS266F	PHIN		DIP	90- 51
29♦	74LS266N	TTL	S54LS266F	RTCF		DIP	90- 51
30♦	74LS266N	TTL	S54LS266F	SIC		DIP	90- 51
31♦	74LS266N	TTL	S54LS266F	VALG		DIP	90- 51
32♦	74LS266N	TTL	S8242A	PHIN		DIP	90- 52
33♦	74LS266N	TTL	54LS266DM	FSC		DIP	89- 90
34♦	74LS266N	TTL	74LS266DC	FSC		DIP	89- 91
35♦	74LS266N	TTL	74LS266PC	FSC		DIP	89- 92
36♦	74LS266N	TTL	9386DC	FSC		DIP	89- 97
37♦	74LS266N	TTL	9386DM	FSC		DIP	89- 98
38♦	74LS266N	TTL	9386PC	FSC		DIP	89- 99
39♦	74F269	TTL	N74F269D(A)	MULB	*	SO	169- 74
40♦	74F269	TTL	N74F269D(A)	PHIN	*	SO	169- 74
41♦	74F269	TTL	N74F269D(A)	RTCF	*	SO	169- 74
42♦	74F269	TTL	N74F269D(A)	SIC	*	SO	169- 74
43♦	74F269	TTL	N74F269D(A)	VALG	*	SO	169- 74
44♦	74F269	TTL	N74F269N(A)	MULB		DIP	169- 75
45♦	74F269	TTL	N74F269N(A)	PHIN		DIP	169- 75
46♦	74F269	TTL	N74F269N(A)	RTCF		DIP	169- 75
47♦	74F269	TTL	N74F269N(A)	SIC		DIP	169- 75
48♦	74F269	TTL	N74F269N(A)	VALG		DIP	169- 75
49	74-273	CMOS	CD74HC273M	RCA	*	SO	60- 29
50♦	74-273	CMOS	IDT54AHCT273D	IDT		DIP	57- 99
51♦	74-273	CMOS	IDT54AHCT273DB	IDT		DIP	57-100
52♦	74-273	CMOS	IDT54FCT273DB	IDT		DIP	58- 33
53♦	74-273	CMOS	IDT74AHCT273D	IDT		DIP	58- 5
54▼	74-273	CMOS	IDT74FCT273AD	IDT		DIP	58- 54
55▼	74-273	CMOS	IDT74FCT273AJ	IDT	*	LDCC	58- 55
56▼	74-273	CMOS	IDT74FCT273AL	IDT	*	LLCC	58- 56
57▼	74-273	CMOS	IDT74FCT273AP	IDT		DIP	58- 57
58▼	74-273	CMOS	IDT74FCT273ASO	IDT	*	SO	58- 58
59♦	74-273	CMOS	IDT74FCT273D	IDT		DIP	58- 59
60▼	74-273	CMOS	IDT74FCT273J	IDT	*	LDCC	58- 60
61▼	74-273	CMOS	IDT74FCT273P	IDT		DIP	58- 62
62▼	74-273	CMOS	IDT74FCT273SO	IDT	*	SO	58- 63
63♦	74-273	CMOS	MM74HC273J(A)	NSC		DIP	60- 15
64♦	74-273	CMOS	MM74HC273N(A)	NSC		DIP	60- 16
65♦	74-273	CMOS	M54HC273F1(A)	SGSI		DIP	62- 19
66♦	74-273	CMOS	M74HC273B1(A)	SGSI		DIP	59- 49
67♦	74-273	CMOS	M74HC273F1(A)	SGSI		DIP	59- 51
68♦	74-273	CMOS	M74HC273P	MITJ		DIP	61- 24
69♦	74-273	CMOS	PC74HCT273P	MULB		DIP	58- 96
70♦	74-273	CMOS	PC74HCT273P	PHIN		DIP	58- 96
71♦	74-273	CMOS	PC74HCT273P	RTCF		DIP	58- 96
72♦	74-273	CMOS	PC74HCT273P	VALG		DIP	58- 96
73	74-273	CMOS	PC74HCT273T	MULB	*	SO	58- 97
74	74-273	CMOS	PC74HCT273T	PHIN	*	SO	58- 97
75	74-273	CMOS	PC74HCT273T	RTCF	*	SO	58- 97
76	74-273	CMOS	PC74HCT273T	VALG	*	SO	58- 97
77♦	74-273	CMOS	PC74HC273P	MULB		DIP	59- 76
78♦	74-273	CMOS	PC74HC273P	PHIN		DIP	59- 76
79♦	74-273	CMOS	PC74HC273P	RTCF		DIP	59- 76
80♦	74-273	CMOS	PC74HC273P	VALG		DIP	59- 76
81	74-273	CMOS	PC74HC273T	MULB	*	SO	59- 77
82	74-273	CMOS	PC74HC273T	PHIN	*	SO	59- 77
83	74-273	CMOS	PC74HC273T	RTCF	*	SO	59- 77
84	74-273	CMOS	PC74HC273T	VALG	*	SO	59- 77
85♦	74-273	CMOS	UPD74HC273C(A)	NECJ		DIP	62- 43
86♦	74-273	TTL	DM54ALS273J	NSC		DIP	60- 83
87♦	74-273	TTL	DM74ALS273J	NSC		DIP	61- 51
88♦	74-273	TTL	DM74ALS273N	NSC		DIP	61- 52
89♦	74-273	TTL	M74ALS273P	MITA		DIP	61- 27
90♦	74-273	TTL	M74ALS273P	MITJ		DIP	61- 27
91♦	74-273	TTL	N74F273D(A)	MULB	*	SO	64- 46
92♦	74-273	TTL	N74F273D(A)	PHIN	*	SO	64- 46
93♦	74-273	TTL	N74F273D(A)	RTCF	*	SO	64- 46
94♦	74-273	TTL	N74F273D(A)	SIC	*	SO	64- 46
95♦	74-273	TTL	N74F273D(A)	VALG	*	SO	64- 46
96♦	74-273	TTL	N74F273N(A)	MULB		DIP	64- 47
97♦	74-273	TTL	N74F273N(A)	PHIN		DIP	64- 47
98♦	74-273	TTL	N74F273N(A)	RTCF		DIP	64- 47
99♦	74-273	TTL	N74F273N(A)	SIC		DIP	64- 47
100♦	74-273	TTL	N74F273N(A)	VALG		DIP	64- 47
101♦	74-273	TTL	54F273DM(A)	FSC		DIP	63- 16
102♦	74-273	TTL	74F273DC(A)	FSC		DIP	63- 30
103♦	74-273	TTL	74F273PC(A)	FSC		DIP	63- 32
104♦	74-273N	CMOS	CD54HCT273F	RCA		DIP	58-102
105♦	74-273N	CMOS	CD54HC273F	RCA		DIP	59- 33
106♦	74-273N	CMOS	CD74HCT273E	RCA		DIP	59- 42
107♦	74-273N	CMOS	CD74HC273E	RCA		DIP	60- 28
108▼	74-273N	CMOS	HD74HC273FP	HITJ	*	SO	59-107
109▼	74-273N	CMOS	HD74HC273P	HITJ		DIP	59-108
110♦	74-273N	CMOS	MC54HC273J(A)	MOTA		DIP	60-102
111♦	74-273N	CMOS	MC74HC273J(A)	MOTA		DIP	60-105
112♦	74-273N	CMOS	MC74HC273N(A)	MOTA		DIP	60-106
113♦	74-273N	CMOS	MM54HC273J(A)	NSC		DIP	59- 70
114▼	74-273N	CMOS	P54PCT273DM	PSC		DIP	64- 48
115▼	74-273N	CMOS	P54PCT273LM	PSC	*	LLCC	64- 49
116▼	74-273N	CMOS	P54PCT273PM	PSC		DIP	64- 50
117▼	74-273N	CMOS	P74PCT273DC	PSC		DIP	64- 51
118▼	74-273N	CMOS	P74PCT273LC	PSC	*	LLCC	64- 52
119▼	74-273N	CMOS	P74PCT273PC	PSC		DIP	64- 53
120♦	74-273N	CMOS	SN54HC273J	TII		DIP	59- 11
121▼	74-273N	CMOS	SN74HC273D	TII	*	SO	59- 97
122♦	74-273N	CMOS	SN74HC273N	TII		DIP	59- 98
123♦	74-273N	CMOS	TC40H273P	TOSJ		DIP	59- 92
124▼	74-273N	CMOS	TC74HC273F(A)	TOSA	*	SO	62- 18
125♦	74-273N	CMOS	TC74HC273P(A)	TOSA		DIP	60- 58
126♦	74-273N	CMOS	TC74HC273P(A)	TOSJ		DIP	60- 58
127♦	74-273N	CMOS	54HCT273C(A)	STX		DIP	57- 69
128♦	74-273N	CMOS	54HCT273D(A)	STX		DIP	57- 70
129♦	74-273N	CMOS	74HCT273C(A)	STX		DIP	57- 77
130	74-273N	CMOS	74HCT273D(A)	SIC	*	SO	58- 98
131	74-273N	CMOS	74HCT273D(A)	STX	*	SO	58- 98
132♦	74-273N	CMOS	74HCT273N(A)	SIC		DIP	58- 99
133♦	74-273N	CMOS	74HCT273N(A)	STX		DIP	58- 99
134♦	74-273N	CMOS	74HCT273P(A)	STX		DIP	57- 78
135	74-273N	CMOS	74HC273D	SIC	*	SO	60- 59
136♦	74-273N	CMOS	74HC273N	SIC		DIP	60- 60
137♦	74-273N	CMOS	74SC273C(A)	STX		DIP	57- 83
138♦	74-273N	CMOS	74SC273D(A)	STX		DIP	57- 84
139♦	74-273N	CMOS	74SC273P(A)	STX		DIP	57- 85
140♦	74-273N	TTL	M74LS273P	MITA		DIP	61- 96
141♦	74-273N	TTL	M74LS273P	MITJ		DIP	61- 96
142	74-273N	TTL	N74LS273D	MULB	*	SO	61- 1
143	74-273N	TTL	N74LS273D	PHIN	*	SO	61- 1
144	74-273N	TTL	N74LS273D	RTCF	*	SO	61- 1
145	74-273N	TTL	N74LS273D	SIC	*	SO	61- 1
146	74-273N	TTL	N74LS273D	VALG	*	SO	61- 1
147♦	74-273N	TTL	N74LS273N	MULB		DIP	61- 2
148♦	74-273N	TTL	N74LS273N	PHIN		DIP	61- 2
149♦	74-273N	TTL	N74LS273N	RTCF		DIP	61- 2
150♦	74-273N	TTL	N74LS273N	SIC		DIP	61- 2
151♦	74-273N	TTL	N74LS273N	VALG		DIP	61- 2
152	74-273N	TTL	N74S273D	MULB	*	SO	62- 91
153	74-273N	TTL	N74S273D	PHIN	*	SO	62- 91
154	74-273N	TTL	N74S273D	RTCF	*	SO	62- 91
155	74-273N	TTL	N74S273D	SIC	*	SO	62- 91
156	74-273N	TTL	N74S273D	VALG	*	SO	62- 91
157♦	74-273N	TTL	N74S273F(1)	MULB		DIP	63- 15
158♦	74-273N	TTL	N74S273F(1)	PHIN		DIP	63- 15
159♦	74-273N	TTL	N74S273F(1)	VALG		DIP	63- 15
160♦	74-273N	TTL	N74S273N	MULB		DIP	62- 92
161♦	74-273N	TTL	N74S273N	PHIN		DIP	62- 92
162♦	74-273N	TTL	N74S273N	RTCF		DIP	62- 92
163♦	74-273N	TTL	N74S273N	SIC		DIP	62- 92
164♦	74-273N	TTL	N74S273N	VALG		DIP	62- 92
165♦	74-273N	TTL	SN54ALS273J	TII		DIP	61- 8
166♦	74-273N	TTL	SN54LS273J(1)	MOTA		DIP	61- 99
167▼	74-273N	TTL	SN54LS273N	MOTA		DIP	61-100
168▼	74-273N	TTL	SN74ALS273DW	TII	*	SO	61- 70
169♦	74-273N	TTL	SN74ALS273N	TII		DIP	61- 71
170▼	74-273N	TTL	SN74LS273N	TII		DIP	61- 23
171♦	74-273N	TTL	SN74273N(1)	TII		DIP	61-107
172♦	74-273N	TTL	S54LS273F	MULB		DIP	61- 5
173♦	74-273N	TTL	S54LS273F	PHIN		DIP	61- 5
174♦	74-273N	TTL	S54LS273F	RTCF		DIP	61- 5
175♦	74-273N	TTL	S54LS273F	SIC		DIP	61- 5
176♦	74-273N	TTL	S54LS273F	VALG		DIP	61- 5
177♦	74-273N	TTL	54LS273DM	FSC		DIP	62- 2
178♦	74-273N	TTL	74LS273DC	FSC		DIP	60- 79
179♦	74-273N	TTL	74LS273PC(1)	FSC		DIP	60- 80
180♦	74-274	TTL	M74ALS374P	MITA		DIP	61- 28
181♦	74-274	TTL	M74ALS374P	MITJ		DIP	61- 28
182♦	74S275	MON	SN74LS275N	TII		DIP	245- 84
183♦	74S275	TTL	SN54LS275J	TII		DIP	246- 13
184♦	74-276N	TTL	SN74276N	TII		DIP	74-106
185♦	74-279	CMOS	M54HC279F1(A)	SGSI		DIP	243- 37
186♦	74-279	CMOS	M74HC279B1(A)	SGSI		DIP	243- 71
187♦	74-279	CMOS	M74HC279F1(A)	SGSI		DIP	243- 73
188▼	74-279	CMOS	TC74HC279F(A)	TOSA	*	SO	243- 38
189▼	74-279	CMOS	TC74HC279P(A)	TOSA		DIP	243- 39
190♦	74-279	ITL	DM74LS279N	NSC		DIP	243- 75
191♦	74-279	TTL	DN74LS279P2	MATJ		DIP	243- 50
192♦	74-279	TTL	DN74LS279P5	MATJ	*	SO	243- 51
193♦	74-279	TTL	SN54LS279AJ	TII		DIP	243- 64
194♦	74-279	TTL	SN74LS279AD	TII	*	SO	243- 67
195♦	74-279	TTL	SN74LS279AN	TII		DIP	243- 68
196▼	74-279N	TTL	HD74LS279G	HITJ		DIP	243- 52
197♦	74-279N	TTL	HD74LS279P	HITJ		DIP	243- 53
198♦	74-279N	TTL	M74LS279P	MITA		DIP	243- 54
199♦	74-279N	TTL	M74LS279P	MITJ		DIP	243- 54
200♦	74-279N	TTL	N74LS279F	MULB		DIP	243- 55
201♦	74-279N	TTL	N74LS279F	PHIN		DIP	243- 55
202♦	74-279N	TTL	N74LS279F	VALG		DIP	243- 55
203♦	74-279N	TTL	N74LS279N	MULB		DIP	243- 56
204♦	74-279N	TTL	N74LS279N	PHIN		DIP	243- 56
205♦	74-279N	TTL	N74LS279N	VALG		DIP	243- 56
206♦	74-279N	TTL	N74279D	MULB	*	SO	243- 57
207♦	74-279N	TTL	N74279D	PHIN	*	SO	243- 57
208♦	74-279N	TTL	N74279D	RTCF	*	SO	243- 57
209♦	74-279N	TTL	N74279D	SIC	*	SO	243- 57
210♦	74-279N	TTL	N74279D	VALG	*	SO	243- 57
211♦	74-279N	TTL	N74279F	MULB		DIP	243- 58
212♦	74-279N	TTL	N74279F	PHIN		DIP	243- 58
213♦	74-279N	TTL	N74279F	RTCF		DIP	243- 58
214♦	74-279N	TTL	N74279F	VALG		DIP	243- 58
215♦	74-279N	TTL	N74279N	MULB		DIP	243- 59
216♦	74-279N	TTL	N74279N	PHIN		DIP	243- 59
217♦	74-279N	TTL	N74279N	RTCF		DIP	243- 59
218♦	74-279N	TTL	N74279N	SIC		DIP	243- 59
219♦	74-279N	TTL	N74279N	VALG		DIP	243- 59
220♦	74-279N	TTL	SN54LS279J	MOTA		DIP	243- 65

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1▼	74-279N	TTL	SN54LS279N	MOTA		DIP	243- 66
2♦	74-279N	TTL	SN54279J	TII		DIP	243- 42
3♦	74-279N	TTL	SN74LS279J	MOTA		DIP	243- 69
4♦	74-279N	TTL	SN74LS279N	MOTA		DIP	243- 70
5♦	74-279N	TTL	SN74279N	TII		DIP	243- 43
6♦	74-279N	TTL	S54LS279F	MULB		DIP	243- 60
7♦	74-279N	TTL	S54LS279F	PHIN		DIP	243- 60
8♦	74-279N	TTL	S54LS279F	RTCF		DIP	243- 60
9♦	74-279N	TTL	S54LS279F	SIC		DIP	243- 60
10♦	74-279N	TTL	S54LS279F	VALG		DIP	243- 60
11♦	74-279N	TTL	S54279F	MULB		DIP	243- 62
12♦	74-279N	TTL	S54279F	PHIN		DIP	243- 62
13♦	74-279N	TTL	S54279F	RTCF		DIP	243- 62
14♦	74-279N	TTL	S54279F	SIC		DIP	243- 62
15♦	74-279N	TTL	S54279F	VALG		DIP	243- 62
16♦	74-279N	TTL	54LS279DM	FSC		DIP	243- 44
17♦	74-279N	TTL	74LS279DC	FSC		DIP	243- 46
18♦	74-279N	TTL	74LS279PC	FSC		DIP	243- 47
19♦	74-279N	TTL	74279DC	FSC		DIP	243- 48
20♦	74-279N	TTL	74279PC	FSC		DIP	243- 49
21♦	74S280	CMOS	M54HC280F1(A)	SGSI		DIP	227- 22
22♦	74S280	CMOS	M74HC280B1(A)	SGSI		DIP	227- 59
23♦	74S280	CMOS	M74HC280F1(A)	SGSI		DIP	227- 61
24♦	74S280	CMOS	PC54HCT280D(A)	MULB		DIP	227- 35
25♦	74S280	CMOS	PC54HCT280D(A)	PHIN		DIP	227- 35
26♦	74S280	CMOS	PC54HCT280D(A)	RTCF		DIP	227- 35
27♦	74S280	CMOS	PC54HCT280D(A)	VALG		DIP	227- 35
28♦	74S280	CMOS	PC54HC280D(A)	MULB		DIP	227- 26
29♦	74S280	CMOS	PC54HC280D(A)	PHIN		DIP	227- 26
30♦	74S280	CMOS	PC54HC280D(A)	RTCF		DIP	227- 26
31♦	74S280	CMOS	PC54HC280D(A)	VALG		DIP	227- 26
32♦	74S280	CMOS	PC74HCT280D(A)	MULB		DIP	227- 16
33♦	74S280	CMOS	PC74HCT280D(A)	PHIN		DIP	227- 16
34♦	74S280	CMOS	PC74HCT280D(A)	RTCF		DIP	227- 16
35♦	74S280	CMOS	PC74HCT280D(A)	VALG		DIP	227- 16
36♦	74S280	CMOS	PC74HCT280P	MULB		DIP	227- 36
37♦	74S280	CMOS	PC74HCT280P	PHIN		DIP	227- 36
38♦	74S280	CMOS	PC74HCT280P	RTCF		DIP	227- 36
39♦	74S280	CMOS	PC74HCT280P	VALG		DIP	227- 36
40	74S280	CMOS	PC74HCT280T	MULB	*	SO	227- 37
41	74S280	CMOS	PC74HCT280T	PHIN	*	SO	227- 37
42	74S280	CMOS	PC74HCT280T	RTCF	*	SO	227- 37
43	74S280	CMOS	PC74HCT280T	VALG	*	SO	227- 37
44♦	74S280	CMOS	PC74HC280D(A)	MULB		DIP	226-100
45♦	74S280	CMOS	PC74HC280D(A)	PHIN		DIP	226-100
46♦	74S280	CMOS	PC74HC280D(A)	RTCF		DIP	226-100
47♦	74S280	CMOS	PC74HC280D(A)	VALG		DIP	226-100
48♦	74S280	CMOS	PC74HC280P	MULB		DIP	227- 27
49♦	74S280	CMOS	PC74HC280P	PHIN		DIP	227- 27
50♦	74S280	CMOS	PC74HC280P	RTCF		DIP	227- 27
51♦	74S280	CMOS	PC74HC280P	VALG		DIP	227- 27
52	74S280	CMOS	PC74HC280T	MULB	*	SO	227- 28
53	74S280	CMOS	PC74HC280T	PHIN	*	SO	227- 28
54	74S280	CMOS	PC74HC280T	RTCF	*	SO	227- 28
55	74S280	CMOS	PC74HC280T	VALG	*	SO	227- 28
56▼	74S280	CMOS	SN74HC280D	TII	*	SO	227- 6
57♦	74S280	CMOS	SN74HC280N	TII		DIP	227- 7
58	74S280	CMOS	74HCT280D	SIC	*	SO	227- 12
59♦	74S280	CMOS	74HCT280N	SIC		DIP	227- 13
60	74S280	CMOS	74HC280D	SIC	*	SO	226- 94
61♦	74S280	CMOS	74HC280N	SIC		DIP	226- 95
62♦	74S280	TTL	DM54AS280J(A)	NSC		DIP	226- 52
63	74S280	TTL	DM54S280W	NSC	*	FP	226- 84
64♦	74S280	TTL	DM74AS280J(A)	NSC		DIP	226- 46
65♦	74S280	TTL	DM74AS280N(A)	NSC		DIP	226- 47
66♦	74S280	TTL	DM74S280N	NSC		DIP	226- 85
67▼	74S280	TTL	N74F280AD(A)	MULB	*	SO	226- 48
68▼	74S280	TTL	N74F280AD(A)	PHIN	*	SO	226- 48
69▼	74S280	TTL	N74F280AD(A)	RTCF	*	SO	226- 48
70▼	74S280	TTL	N74F280AD(A)	SIC	*	SO	226- 48
71▼	74S280	TTL	N74F280AD(A)	VALG	*	SO	226- 48
72♦	74S280	TTL	N74F280AN(A)	MULB		DIP	226- 49
73♦	74S280	TTL	N74F280AN(A)	PHIN		DIP	226- 49
74♦	74S280	TTL	N74F280AN(A)	RTCF		DIP	226- 49
75♦	74S280	TTL	N74F280AN(A)	SIC		DIP	226- 49
76♦	74S280	TTL	N74F280AN(A)	VALG		DIP	226- 49
77▼	74S280	TTL	N74F280D(A)	MULB	*	SO	226- 50
78▼	74S280	TTL	N74F280D(A)	PHIN	*	SO	226- 50
79▼	74S280	TTL	N74F280D(A)	RTCF	*	SO	226- 50
80▼	74S280	TTL	N74F280D(A)	SIC	*	SO	226- 50
81▼	74S280	TTL	N74F280D(A)	VALG	*	SO	226- 50
82▼	74S280	TTL	N74F280N(A)	MULB		DIP	226- 51
83▼	74S280	TTL	N74F280N(A)	PHIN		DIP	226- 51
84▼	74S280	TTL	N74F280N(A)	RTCF		DIP	226- 51
85▼	74S280	TTL	N74F280N(A)	SIC		DIP	226- 51
86▼	74S280	TTL	N74F280N(A)	VALG		DIP	226- 51
87	74S280	TTL	SN74LS280D	TII	*	SO	226-108
88	74S280	TTL	SN74S280D	TII	*	SO	227- 1
89	74S280N	CMOS	CD54HCT280F	RCA		DIP	227- 34
90	74S280N	CMOS	CD54HC280F	RCA		DIP	227- 25
91	74S280N	CMOS	CD74HCT280E	RCA		DIP	227- 14
92	74S280N	CMOS	CD74HC280E	RCA		DIP	226- 98
93▼	74S280N	CMOS	HD74HC280FP	HITJ	*	SO	226- 78
94▼	74S280N	CMOS	HD74HC280P	HITJ		DIP	226- 79
95♦	74S280N	CMOS	MC54HC280J(A)	MOTA		DIP	227- 2
96♦	74S280N	CMOS	MC74HC280J(A)	MOTA		DIP	227- 3
97♦	74S280N	CMOS	MC74HC280N(A)	MOTA		DIP	227- 4
98♦	74S280N	CMOS	MM74HC280J	NSC		DIP	226- 96
99♦	74S280N	CMOS	MM74HC280N	NSC		DIP	226- 97
100♦	74S280N	CMOS	SN54HC280J	TII		DIP	227- 29
101▼	74S280N	CMOS	TC74HC280F(A)	TOSA	*	SO	227- 23
102▼	74S280N	CMOS	TC74HC280P(A)	TOSA		DIP	227- 24
103▼	74S280N	TTL	HD74LS280G	HITJ		DIP	226-101
104♦	74S280N	TTL	HD74LS280P	HITJ		DIP	226-102
105♦	74S280N	TTL	MB74LS280	FCAJ		DIP	226-104
106♦	74S280N	TTL	MB74LS280M	FCAJ		DIP	226-105
107♦	74S280N	TTL	M74LS280P	MITA		DIP	226-103
108♦	74S280N	TTL	M74LS280P	MITJ		DIP	226-103
109♦	74S280N	TTL	N74S280F	MULB		DIP	226- 72
110♦	74S280N	TTL	N74S280F	PHIN		DIP	226- 72
111♦	74S280N	TTL	N74S280F	VALG		DIP	226- 72
112♦	74S280N	TTL	N74S280N	MULB		DIP	226- 73
113♦	74S280N	TTL	N74S280N	PHIN		DIP	226- 73
114♦	74S280N	TTL	N74S280N	RTCF		DIP	226- 73
115♦	74S280N	TTL	N74S280N	SIC		DIP	226- 73
116♦	74S280N	TTL	N74S280N	VALG		DIP	226- 73
117♦	74S280N	TTL	SN54LS280J	MOTA		DIP	226-106
118♦	74S280N	TTL	SN54LS280J	TII		DIP	226-106
119▼	74S280N	TTL	SN54LS280N	MOTA		DIP	226-107
120♦	74S280N	TTL	SN54S280J	TII		DIP	226- 76
121▼	74S280N	TTL	SN74ALS280D	TII	*	SO	226- 90
122♦	74S280N	TTL	SN74ALS280N	TII		DIP	226- 91
123▼	74S280N	TTL	SN74AS280D	TII	*	SO	226- 44
124♦	74S280N	TTL	SN74AS280N	TII		DIP	226- 45
125♦	74S280N	TTL	SN74LS280J	MOTA		DIP	226-109
126♦	74S280N	TTL	SN74LS280N	MOTA		DIP	226-110
127♦	74S280N	TTL	SN74LS280N	TII		DIP	226-110
128♦	74S280N	TTL	SN74S280N	TII		DIP	226- 77
129♦	74S280N	TTL	S54S280F	MULB		DIP	226- 74
130♦	74S280N	TTL	S54S280F	PHIN		DIP	226- 74
131♦	74S280N	TTL	S54S280F	RTCF		DIP	226- 74
132♦	74S280N	TTL	S54S280F	SIC		DIP	226- 74
133♦	74S280N	TTL	S54S280F	VALG		DIP	226- 74
134♦	74S280N	TTL	54F280DM	FSC		DIP	226- 62
135♦	74S280N	TTL	54S280DM	FSC		DIP	226- 65
136♦	74S280N	TTL	74F280DC	FSC		DIP	226- 67
137♦	74S280N	TTL	74F280PC	FSC		DIP	226- 69
138♦	74AS282	TTL	DM54AS282J(A)	NSC		DIP	225- 15
139♦	74AS282	TTL	DM54AS282N	NSC		DIP	225- 3
140♦	74AS282	TTL	DM74AS282J	NSC		DIP	225- 4
141♦	74AS282	TTL	DM74AS282N(A)	NSC		DIP	225- 5
142	74-283	CMOS	CD54HCT283F(A)	RCA		DIP	200-101
143	74-283	CMOS	CD54HC283F(A)	RCA		DIP	200-100
144	74-283	CMOS	CD74HCT283E(A)	RCA		DIP	200- 84
145	74-283	CMOS	CD74HCT283M(A)	RCA		SO	200- 85
146	74-283	CMOS	CD74HC283E(A)	RCA		DIP	200- 82
147	74-283	CMOS	CD74HC283M(A)	RCA		SO	200- 83
148♦	74-283	CMOS	MC54HC283J(A)	MOTA		DIP	199- 46
149♦	74-283	CMOS	MC74HC283J(A)	MOTA		DIP	199- 47
150♦	74-283	CMOS	MC74HC283N(A)	MOTA		DIP	199- 48
151♦	74-283	CMOS	MM54HC283J(A)	NSC		DIP	200- 70
152♦	74-283	CMOS	MM74HC283J(A)	NSC		DIP	200- 65
153♦	74-283	CMOS	MM74HC283N(A)	NSC		DIP	200- 66
154♦	74-283	CMOS	M54HC283F1(A)	SGSI		DIP	200- 78
155♦	74-283	CMOS	M74HC283B1(A)	SGSI		DIP	200- 97
156♦	74-283	CMOS	M74HC283F1(A)	SGSI		DIP	200- 99
157♦	74-283	CMOS	PC54HCT283D(A)	MULB		DIP	199- 65
158♦	74-283	CMOS	PC54HCT283D(A)	PHIN		DIP	199- 65
159♦	74-283	CMOS	PC54HCT283D(A)	RTCF		DIP	199- 65
160♦	74-283	CMOS	PC54HCT283D(A)	VALG		DIP	199- 65
161♦	74-283	CMOS	PC54HC283D(A)	MULB		DIP	199- 58
162♦	74-283	CMOS	PC54HC283D(A)	PHIN		DIP	199- 58
163♦	74-283	CMOS	PC54HC283D(A)	RTCF		DIP	199- 58
164♦	74-283	CMOS	PC54HC283D(A)	VALG		DIP	199- 58
165♦	74-283	CMOS	PC74HCT283D(A)	MULB		DIP	199- 66
166♦	74-283	CMOS	PC74HCT283D(A)	PHIN		DIP	199- 66
167♦	74-283	CMOS	PC74HCT283D(A)	RTCF		DIP	199- 66
168♦	74-283	CMOS	PC74HCT283D(A)	VALG		DIP	199- 66
169♦	74-283	CMOS	PC74HCT283P	MULB		DIP	200-110
170♦	74-283	CMOS	PC74HCT283P	PHIN		DIP	200-110
171♦	74-283	CMOS	PC74HCT283P	RTCF		DIP	200-110
172♦	74-283	CMOS	PC74HCT283P	VALG		DIP	200-110
173	74-283	CMOS	PC74HCT283T	MULB	*	SO	201- 1
174	74-283	CMOS	PC74HCT283T	PHIN	*	SO	201- 1
175	74-283	CMOS	PC74HCT283T	RTCF	*	SO	201- 1
176	74-283	CMOS	PC74HCT283T	VALG	*	SO	201- 1
177♦	74-283	CMOS	PC74HC283D(A)	MULB		DIP	199- 59
178♦	74-283	CMOS	PC74HC283D(A)	PHIN		DIP	199- 59
179♦	74-283	CMOS	PC74HC283D(A)	RTCF		DIP	199- 59
180♦	74-283	CMOS	PC74HC283D(A)	VALG		DIP	199- 59
181♦	74-283	CMOS	PC74HC283P	MULB		DIP	200-107
182♦	74-283	CMOS	PC74HC283P	PHIN		DIP	200-107
183♦	74-283	CMOS	PC74HC283P	RTCF		DIP	200-107
184♦	74-283	CMOS	PC74HC283P	VALG		DIP	200-107
185	74-283	CMOS	PC74HC283T	MULB	*	SO	200-108
186	74-283	CMOS	PC74HC283T	PHIN	*	SO	200-108
187	74-283	CMOS	PC74HC283T	RTCF	*	SO	200-108
188	74-283	CMOS	PC74HC283T	VALG	*	SO	200-108
189♦	74-283	TTL	DM74LS283N	NSC		DIP	200- 62
190♦	74-283	TTL	DM74S283N	NSC		DIP	199- 76
191♦	74-283	TTL	DN74LS283P2	MATJ		DIP	200- 13
192	74-283	TTL	DN74LS283P5	MATJ	*	SO	200- 14
193▼	74-283	TTL	HD74LS283G	HITJ		DIP	200- 16
194♦	74-283	TTL	HD74LS283P	HITJ		DIP	200- 17
195♦	74-283	TTL	MB74LS283	FCAJ		DIP	200- 22
196♦	74-283	TTL	MB74LS283M	FCAJ		DIP	200- 23
197♦	74-283	TTL	MC54F283J	MOTA		DIP	199- 63
198♦	74-283	TTL	MC54S283N	MOTA		DIP	199- 64
199♦	74-283	TTL	MC74F283J	MOTA		DIP	199- 54
200♦	74-283	TTL	MC74F283N	MOTA		DIP	199- 55
201♦	74-283	TTL	N74F283D(A)	MULB	*	SO	199- 56
202♦	74-283	TTL	N74F283D(A)	PHIN	*	SO	199- 56
203♦	74-283	TTL	N74F283D(A)	RTCF	*	SO	199- 56
204♦	74-283	TTL	N74F283D(A)	SIC	*	SO	199- 56
205♦	74-283	TTL	N74F283D(A)	VALG	*	SO	199- 56
206♦	74-283	TTL	N74F283N(A)	MULB		DIP	199- 57
207♦	74-283	TTL	N74F283N(A)	PHIN		DIP	199- 57
208♦	74-283	TTL	N74F283N(A)	RTCF		DIP	199- 57
209♦	74-283	TTL	N74F283N(A)	SIC		DIP	199- 57
210♦	74-283	TTL	N74F283N(A)	VALG		DIP	199- 57
211	74-283	TTL	N74LS283D	MULB	*	SO	200- 28
212	74-283	TTL	N74LS283D	PHIN	*	SO	200- 28
213	74-283	TTL	N74LS283D	RTCF	*	SO	200- 28
214	74-283	TTL	N74LS283D	SIC	*	SO	200- 28
215	74-283	TTL	N74LS283D	VALG	*	SO	200- 28
216♦	74-283	TTL	N74LS283N	MULB		DIP	200- 29
217♦	74-283	TTL	N74LS283N	PHIN		DIP	200- 29
218♦	74-283	TTL	N74LS283N	RTCF		DIP	200- 29
219♦	74-283	TTL	N74LS283N	SIC		DIP	200- 29
220♦	74-283	TTL	N74LS283N	VALG		DIP	200- 29

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-283	TTL	SFC4283LSE	THEF		DIP	200- 37
2♦	74-283	TTL	SFC4283LSEM	THEF		DIP	200- 38
3♦	74-283	TTL	SN54283J	TII		DIP	200- 51
4	74-283	TTL	SN74LS283D	TII	*	SO	200- 46
5♦	74-283	TTL	SN74S283N	TII		DIP	199-100
6♦	74-283	TTL	SN74283N	TII		DIP	200- 52
7♦	74-283	TTL	S54F283F(A)	MULB		DIP	199- 67
8♦	74-283	TTL	S54F283F(A)	PHIN		DIP	199- 67
9♦	74-283	TTL	S54F283F(A)	RTCF		DIP	199- 67
10♦	74-283	TTL	S54F283F(A)	VALG		DIP	199- 67
11♦	74-283	TTL	S54LS283F	MULB		DIP	200- 34
12♦	74-283	TTL	S54LS283F	PHIN		DIP	200- 34
13♦	74-283	TTL	S54LS283F	RTCF		DIP	200- 34
14♦	74-283	TTL	S54LS283F	SIC		DIP	200- 34
15♦	74-283	TTL	S54LS283F	VALG		DIP	200- 34
16♦	74-283	TTL	T54LS283D2	SGSI		DIP	200- 54
17♦	74-283	TTL	T74LS283B1	SGSI		DIP	200- 57
18♦	74-283	TTL	T74LS283D1	SGSI		DIP	200- 58
19♦	74-283	TTL	54F283DM	FSC		DIP	199- 49
20♦	74-283	TTL	54LS283DM	FSC		DIP	200- 1
21♦	74-283	TTL	54LS283J	FSC		DIP	200- 3
22♦	74-283	TTL	74F283DC	FSC		DIP	199- 61
23♦	74-283	TTL	74F283PC	FSC		DIP	199- 62
24♦	74-283	TTL	74LS283DC	FSC		DIP	200- 7
25♦	74-283	TTL	74LS283PC	FSC		DIP	200- 8
26♦	74-283	TTL	74283DC	FSC		DIP	200- 9
27♦	74-283	TTL	74283PC	FSC		DIP	200- 10
28▼	74-283N	CMOS	CD74ACT283E(A)	RCA		DIP	199- 73
29▼	74-283N	CMOS	CD74ACT283M(A)	RCA		SO	199- 74
30▼	74-283N	CMOS	CD74AC283E(A)	RCA		DIP	199- 71
31▼	74-283N	CMOS	CD74AC283M(A)	RCA		SO	199- 72
32▼	74-283N	CMOS	HD74HC283FP	HITJ	*	SO	199-101
33▼	74-283N	CMOS	HD74HC283P	HITJ		DIP	199-102
34▼	74-283N	CMOS	SN74HC283N(A)	TII		DIP	200- 69
35▼	74-283N	CMOS	TC74HC283F	TOSA	*	SO	200-104
36▼	74-283N	CMOS	TC74HC283P	SIC		DIP	200-105
37▼	74-283N	CMOS	TC74HC283P	TOSA		DIP	200-105
38	74-283N	CMOS	74HCT283D	SIC	*	SO	200-102
39♦	74-283N	CMOS	74HCT283N	SIC		DIP	200-103
40	74-283N	CMOS	74HC283D	SIC	*	SO	200- 80
41♦	74-283N	CMOS	74HC283N	SIC		DIP	200- 81
42♦	74-283N	TTL	SN54LS283J	MOTA		DIP	200- 41
43♦	74-283N	TTL	SN54LS283J	TII		DIP	200- 41
44▼	74-283N	TTL	SN54LS283N	MOTA		DIP	200- 42
45♦	74-283N	TTL	SN74LS283J	MOTA		DIP	200- 47
46♦	74-283N	TTL	SN74LS283N	MOTA		DIP	200- 48
47♦	74-283N	TTL	SN74LS283N	TII		DIP	200- 48
48♦	74-284	TTL	DM8875AN	NSC		DIP	202- 52
49♦	74-284	TTL	SN74284N	TII		DIP	202- 55
50♦	74-285	TTL	DM8875BN	NSC		DIP	202- 54
51♦	74-285	TTL	SN74285N	TII		DIP	202- 56
52♦	74AS286	TTL	DM54AS286J(A)	NSC		DIP	226- 41
53♦	74AS286	TTL	DM74AS286J(A)	NSC		DIP	226- 42
54♦	74AS286	TTL	DM74AS286N(A)	NSC		DIP	226- 43
55▼	74AS286	TTL	SN74AS286D	TII	*	SO	226- 54
56♦	74AS286	TTL	SN74AS286N	TII		DIP	226- 55
57♦	74-290	TTL	DN74LS290P1	MATJ		DIP	175- 88
58♦	74-290	TTL	DN74LS290P4	MATJ	*	SO	175- 89
59▼	74-290	TTL	HD74LS290G	HITJ		DIP	173- 84
60♦	74-290	TTL	HD74LS290P	HITJ		DIP	173- 85
61♦	74-290	TTL	SN74LS290D	TII	*	SO	175- 99
62♦	74-290N	TTL	DM74LS290N	NSC		DIP	175- 85
63♦	74-290N	TTL	M74LS290P	MITA		DIP	176- 39
64♦	74-290N	TTL	M74LS290P	MITJ		DIP	176- 39
65♦	74-290N	TTL	N74LS290D	MULB	*	SO	175- 15
66♦	74-290N	TTL	N74LS290D	PHIN	*	SO	175- 15
67♦	74-290N	TTL	N74LS290D	RTCF	*	SO	175- 15
68♦	74-290N	TTL	N74LS290D	SIC	*	SO	175- 15
69♦	74-290N	TTL	N74LS290D	VALG	*	SO	175- 15
70♦	74-290N	TTL	N74LS290N	MULB		DIP	175- 16
71♦	74-290N	TTL	N74LS290N	PHIN		DIP	175- 16
72♦	74-290N	TTL	N74LS290N	RTCF		DIP	175- 16
73♦	74-290N	TTL	N74LS290N	SIC		DIP	175- 16
74♦	74-290N	TTL	N74LS290N	VALG		DIP	175- 16
75♦	74-290N	TTL	SN54LS290J	MOTA		DIP	175- 94
76♦	74-290N	TTL	SN54LS290J	TII		DIP	175- 94
77▼	74-290N	TTL	SN54LS290N	MOTA		DIP	175- 95
78♦	74-290N	TTL	SN54290J	TII		DIP	175-104
79♦	74-290N	TTL	SN74LS290J	MOTA		DIP	175-100
80♦	74-290N	TTL	SN74LS290N	MOTA		DIP	175-101
81♦	74-290N	TTL	SN74LS290N	TII		DIP	175-101
82♦	74-290N	TTL	SN74290N	TII		DIP	175-105
83♦	74-290N	TTL	S54LS290F	MULB		DIP	175- 19
84♦	74-290N	TTL	S54LS290F	PHIN		DIP	175- 19
85♦	74-290N	TTL	S54LS290F	RTCF		DIP	175- 19
86♦	74-290N	TTL	S54LS290F	SIC		DIP	175- 19
87♦	74-290N	TTL	S54LS290F	VALG		DIP	175- 19
88♦	74-290N	TTL	54LS290DM	FSC		DIP	176- 3
89♦	74-290N	TTL	74LS290DC	FSC		DIP	176- 5
90♦	74-290N	TTL	74LS290PC	FSC		DIP	176- 6
91♦	74-290N	TTL	74290PC	FSC		DIP	175- 53
92▼	74LS292	CMOS	HD74HC292FP	HITJ	*	SO	196- 48
93▼	74LS292	CMOS	HD74HC292P	HITJ		DIP	196- 49
94♦	74LS292	CMOS	MC54HC292J(A)	MOTA		DIP	195-100
95♦	74LS292	CMOS	MC74HC292J(A)	MOTA		DIP	195-101
96♦	74LS292	CMOS	MC74HC292N(A)	MOTA		DIP	195-102
97♦	74LS292	CMOS	MM54HC292J(A)	NSC		DIP	196- 45
98♦	74LS292	CMOS	MM74HC292J(A)	NSC		DIP	196- 52
99♦	74LS292	CMOS	MM74HC292N(A)	NSC		DIP	196- 53
100▼	74LS292	CMOS	M74HC292B1	SGSI		DIP	195- 74
101▼	74LS292	CMOS	M74HC292F1	SGSI		DIP	195- 76
102▼	74LS292	CMOS	TC74HC7292P	TOSA		DIP	196- 61
103♦	74LS292	TTL	SN74LS292N	TII		DIP	196- 60
104♦	74-293	TTL	DN74LS293P1	MATJ		DIP	158- 12
105♦	74-293	TTL	DN74LS293P4	MATJ	*	SO	158- 13
106♦	74-293	TTL	SN74LS293D	TII	*	SO	158- 23
107♦	74-293N	TTL	DM74LS293N	NSC		DIP	158- 7
108♦	74-293N	TTL	HD74LS293G	HITJ		DIP	155- 67
109♦	74-293N	TTL	HD74LS293P	HITJ		DIP	155- 68
110♦	74-293N	TTL	M74LS293P	MITA		DIP	158- 60
111♦	74-293N	TTL	M74LS293P	MITJ		DIP	158- 60
112♦	74-293N	TTL	N74LS293D	MULB	*	SO	157- 53
113♦	74-293N	TTL	N74LS293D	PHIN	*	SO	157- 53
114♦	74-293N	TTL	N74LS293D	RTCF	*	SO	157- 53
115♦	74-293N	TTL	N74LS293D	SIC	*	SO	157- 53
116♦	74-293N	TTL	N74LS293D	VALG	*	SO	157- 53
117♦	74-293N	TTL	N74LS293N	MULB		DIP	157- 54
118♦	74-293N	TTL	N74LS293N	PHIN		DIP	157- 54
119♦	74-293N	TTL	N74LS293N	RTCF		DIP	157- 54
120♦	74-293N	TTL	N74LS293N	SIC		DIP	157- 54
121♦	74-293N	TTL	N74LS293N	VALG		DIP	157- 54
122♦	74-293N	TTL	SN54LS293J	MOTA		DIP	158- 18
123♦	74-293N	TTL	SN54LS293J	TII		DIP	158- 18
124▼	74-293N	TTL	SN54LS293N	MOTA		DIP	158- 19
125♦	74-293N	TTL	SN54293J	TII		DIP	158- 28
126♦	74-293N	TTL	SN74LS293J	MOTA		DIP	158- 24
127♦	74-293N	TTL	SN74LS293N	MOTA		DIP	158- 25
128♦	74-293N	TTL	SN74LS293N	TII		DIP	158- 25
129♦	74-293N	TTL	SN74293N	TII		DIP	158- 29
130♦	74-293N	TTL	S54LS293F	MULB		DIP	157- 57
131♦	74-293N	TTL	S54LS293F	PHIN		DIP	157- 57
132♦	74-293N	TTL	S54LS293F	RTCF		DIP	157- 57
133♦	74-293N	TTL	S54LS293F	SIC		DIP	157- 57
134♦	74-293N	TTL	S54LS293F	VALG		DIP	157- 57
135♦	74-293N	TTL	54LS293DM	FSC		DIP	158- 41
136♦	74-293N	TTL	74LS293DC	FSC		DIP	158- 43
137♦	74-293N	TTL	74LS293PC	FSC		DIP	158- 44
138♦	74-293N	TTL	74293PC	FSC		DIP	157- 35
139▼	74LS294	CMOS	HD74HC294FP	HITJ	*	SO	196- 46
140▼	74LS294	CMOS	HD74HC294P	HITJ		DIP	196- 47
141♦	74LS294	CMOS	MC54HC294J(A)	MOTA		DIP	195- 97
142♦	74LS294	CMOS	MC74HC294J(A)	MOTA		DIP	195- 98
143♦	74LS294	CMOS	MC74HC294N(A)	MOTA		DIP	195- 99
144▼	74LS294	CMOS	M74HC294B1	SGSI		DIP	195- 77
145▼	74LS294	CMOS	M74HC294F1	SGSI		DIP	195- 79
146♦	74LS294	TTL	SN74LS294N	TII		DIP	196- 59
147▼	74LS294	TTL	TC74HC7294P	TOSA		DIP	196- 62
148♦	74LS297	TTL	SN74LS297N	TII		DIP	247- 53
149♦	74LS320	TTL	SN54LS320J	TII		DIP	192-106
150♦	74LS320	TTL	SN74LS320N	TII		DIP	192-108
151♦	74LS321	TTL	SN54LS321J	TII		DIP	192-107
152♦	74LS321	TTL	SN74LS321N	TII		DIP	192-109
153♦	74LS363	CMOS	PC74HCT373P	MULB		DIP	239- 99
154♦	74LS363	CMOS	PC74HCT373P	PHIN		DIP	239- 99
155♦	74LS363	CMOS	PC74HCT373P	RTCF		DIP	239- 99
156♦	74LS363	CMOS	PC74HCT373P	VALG		DIP	239- 99
157♦	74LS363	CMOS	PC74HCT373T	MULB	*	SO	239-100
158♦	74LS363	CMOS	PC74HCT373T	PHIN	*	SO	239-100
159♦	74LS363	CMOS	PC74HCT373T	RTCF	*	SO	239-100
160♦	74LS363	CMOS	PC74HCT373T	VALG	*	SO	239-100
161♦	74LS363	CMOS	PC74HC373P	MULB		DIP	239- 95
162♦	74LS363	CMOS	PC74HC373P	PHIN		DIP	239- 95
163♦	74LS363	CMOS	PC74HC373P	RTCF		DIP	239- 95
164♦	74LS363	CMOS	PC74HC373P	VALG		DIP	239- 95
165♦	74LS363	CMOS	PC74HC373T	MULB	*	SO	239- 96
166♦	74LS363	CMOS	PC74HC373T	PHIN	*	SO	239- 96
167♦	74LS363	CMOS	PC74HC373T	RTCF	*	SO	239- 96
168♦	74LS363	CMOS	PC74HC373T	VALG	*	SO	239- 96
169♦	74LS363	CMOS	V54ACT373D	VTC		DIP	236- 33
170♦	74LS363	CMOS	V54ACT373DL	VTC	*	LLCC	236- 34
171♦	74LS363	CMOS	V54ACT533D	VTC		DIP	236- 35
172♦	74LS363	CMOS	V54ACT533DL	VTC	*	LLCC	236- 36
173♦	74LS363	CMOS	V74ACT373D	VTC		DIP	236- 39
174♦	74LS363	CMOS	V74ACT373DL	VTC	*	LLCC	236- 40
175♦	74LS363	CMOS	V74ACT373P	VTC		DIP	236- 41
176♦	74LS363	CMOS	V74ACT373PK	VTC	*	LDCC	236- 42
177♦	74LS363	CMOS	V74ACT373PO	VTC	*	SO	236- 43
178♦	74LS363	CMOS	V74ACT533D	VTC		DIP	236- 44
179♦	74LS363	CMOS	V74ACT533DL	VTC	*	LLCC	236- 45
180♦	74LS363	CMOS	V74ACT533P	VTC		DIP	236- 46
181♦	74LS363	CMOS	V74ACT533PK	VTC	*	LDCC	236- 47
182♦	74LS363	CMOS	V74ACT533PO	VTC	*	SO	236- 48
183♦	74LS363	TTL	N74F373D	MULB	*	SO	229- 4
184♦	74LS363	TTL	N74F373D	PHIN	*	SO	229- 4
185♦	74LS363	TTL	N74F373D	RTCF	*	SO	229- 4
186♦	74LS363	TTL	N74F373D	SIC	*	SO	229- 4
187♦	74LS363	TTL	N74F373D	VALG	*	SO	229- 4
188♦	74LS363	TTL	N74F373N	MULB		DIP	229- 5
189♦	74LS363	TTL	N74F373N	PHIN		DIP	229- 5
190♦	74LS363	TTL	N74F373N	RTCF		DIP	229- 5
191♦	74LS363	TTL	N74F373N	SIC		DIP	229- 5
192♦	74LS363	TTL	N74F373N	VALG		DIP	229- 5
193♦	74LS363	TTL	SN74LS373DW	TII	*	SO	236-108
194♦	74LS363	TTL	SN74S373DW	TII	*	SO	235- 68
195▼	74LS363N	CMOS	HD74HCT373FP	HITJ	*	SO	235-103
196▼	74LS363N	CMOS	HD74HCT373P	HITJ		DIP	235-104
197♦	74LS363N	CMOS	MM54HCT373J(A)	NSC		DIP	240- 75
198♦	74LS363N	CMOS	MM54HC373J	NSC		DIP	240- 59
199	74LS363N	CMOS	MM74C373N	NSC		DIP	233- 68
200♦	74LS363N	CMOS	MM74HCT373J(A)	NSC		DIP	240- 54
201♦	74LS363N	CMOS	MM74HCT373N(A)	NSC		DIP	240- 55
202♦	74LS363N	CMOS	MM74HC373J	NSC		DIP	240- 20
203♦	74LS363N	CMOS	MM74HC373N	NSC		DIP	240- 21
204▼	74LS363N	CMOS	P54PCT373DM	PSC		DIP	234- 68
205▼	74LS363N	CMOS	P54PCT373LM	PSC	*	LLCC	234- 69
206▼	74LS363N	CMOS	P54PCT373PM	PSC		DIP	234- 70
207♦	74LS363N	CMOS	SN54HC373J	TII		DIP	240- 68
208♦	74LS363N	CMOS	SN74HC373N	TII		DIP	240- 31
209♦	74LS363N	CMOS	TC40H373P	TOSJ		DIP	240- 58
210▼	74LS363N	CMOS	TC74HCT373F(A)	TOSA	*	SO	239- 91
211▼	74LS363N	CMOS	TC74HCT373P(A)	TOSA		DIP	239- 92
212♦	74LS363N	CMOS	54HCT373C	STX		DIP	239-106
213♦	74LS363N	CMOS	54HCT373D	STX		DIP	239-107
214♦	74LS363N	CMOS	74HCT373C	STX		DIP	239- 20
215♦	74LS363N	CMOS	74HCT373D	SIC		DIP	239- 52
216♦	74LS363N	CMOS	74HCT373D	STX		DIP	239- 52
217♦	74LS363N	CMOS	74HCT373P	STX		DIP	239- 21
218♦	74LS363N	CMOS	74SC373C	STX		DIP	240- 4
219♦	74LS363N	CMOS	74SC373D	STX		DIP	240- 5
220♦	74LS363N	CMOS	74SC373P	STX		DIP	240- 6

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74LS363N	TTL	DM54S373J	NSC		DIP	234- 93
2♦	74LS363N	TTL	DM74LS373N	NSC		DIP	236- 88
3♦	74LS363N	TTL	DM74S373N	NSC		DIP	234- 96
4♦	74LS363N	TTL	MC54F373J	MOTA		DIP	236- 26
5♦	74LS363N	TTL	MC54F373N	MOTA		DIP	236- 27
6♦	74LS363N	TTL	MC74F373J	MOTA		DIP	235- 88
7♦	74LS363N	TTL	MC74F373N	MOTA		DIP	235- 89
8♦	74LS363N	TTL	M74LS373P	MITA		DIP	239- 5
9♦	74LS363N	TTL	M74LS373P	MITJ		DIP	239- 5
10♦	74LS363N	TTL	N74F373F	VALG		DIP	235- 46
11♦	74LS363N	TTL	N74LS363F	MULB		DIP	238- 54
12♦	74LS363N	TTL	N74LS363F	PHIN		DIP	238- 54
13♦	74LS363N	TTL	N74LS363F	VALG		DIP	238- 54
14♦	74LS363N	TTL	N74LS363N	MULB		DIP	237-106
15♦	74LS363N	TTL	N74LS363N	PHIN		DIP	237-106
16♦	74LS363N	TTL	N74LS363N	RTCF		DIP	237-106
17♦	74LS363N	TTL	N74LS363N	SIC		DIP	237-106
18♦	74LS363N	TTL	N74LS363N	VALG		DIP	237-106
19♦	74LS363N	TTL	N74LS373D	MULB	*	SO	236- 91
20♦	74LS363N	TTL	N74LS373D	PHIN	*	SO	236- 91
21♦	74LS363N	TTL	N74LS373D	RTCF	*	SO	236- 91
22♦	74LS363N	TTL	N74LS373D	SIC	*	SO	236- 91
23♦	74LS363N	TTL	N74LS373D	VALG	*	SO	236- 91
24♦	74LS363N	TTL	N74LS373N	MULB		DIP	236- 92
25♦	74LS363N	TTL	N74LS373N	PHIN		DIP	236- 92
26♦	74LS363N	TTL	N74LS373N	RTCF		DIP	236- 92
27♦	74LS363N	TTL	N74LS373N	SIC		DIP	236- 92
28♦	74LS363N	TTL	N74LS373N	VALG		DIP	236- 92
29	74LS363N	TTL	N74S373D	MULB	*	SO	235- 64
30	74LS363N	TTL	N74S373D	PHIN	*	SO	235- 64
31	74LS363N	TTL	N74S373D	RTCF	*	SO	235- 64
32	74LS363N	TTL	N74S373D	SIC	*	SO	235- 64
33	74LS363N	TTL	N74S373D	VALG	*	SO	235- 64
34♦	74LS363N	TTL	N74S373F	MULB		DIP	235- 65
35♦	74LS363N	TTL	N74S373N	MULB		DIP	235- 66
36♦	74LS363N	TTL	N74S373N	PHIN		DIP	235- 66
37♦	74LS363N	TTL	N74S373N	RTCF		DIP	235- 66
38♦	74LS363N	TTL	N74S373N	VALG		DIP	235- 66
39♦	74LS363N	TTL	SN54ALS373J	TII		DIP	237- 13
40♦	74LS363N	TTL	SN54AS373J	TII		DIP	234- 74
41▼	74LS363N	TTL	SN54LS373J	MMI		DIP	236- 95
42▼	74LS363N	TTL	SN54LS373J	MOTA		DIP	236- 95
43▼	74LS363N	TTL	SN54LS373J	TII		DIP	236- 95
44♦	74LS363N	TTL	SN54LS373L	MMI	*	LLCC	238- 35
45▼	74LS363N	TTL	SN54LS373N	MOTA		DIP	236- 96
46♦	74LS363N	TTL	SN54LS533L	MMI	*	LLCC	238- 36
47▼	74LS363N	TTL	SN54S373J	AMD		DIP	235- 96
48▼	74LS363N	TTL	SN54S373J	MMI		DIP	235- 96
49♦	74LS363N	TTL	SN54S373L	MMI	*	LLCC	238- 37
50▼	74LS363N	TTL	SN74ALS373DW	TII	*	SO	236- 74
51♦	74LS363N	TTL	SN74ALS373N	TII		DIP	236- 75
52▼	74LS363N	TTL	SN74AS373DW	TII	*	SO	236- 76
53♦	74LS363N	TTL	SN74AS373N	TII		DIP	236- 77
54▼	74LS363N	TTL	SN74LS373J	MMI		DIP	236-109
55▼	74LS363N	TTL	SN74LS373J	MOTA		DIP	236-109
56▼	74LS363N	TTL	SN74LS373N	MMI		DIP	236-110
57▼	74LS363N	TTL	SN74LS373N	MOTA		DIP	236-110
58▼	74LS363N	TTL	SN74LS373N	TII		DIP	236-110
59♦	74LS363N	TTL	SN74LS651JS(2)	MMI		DIP	236- 29
60♦	74LS363N	TTL	SN74LS651NS(2)	MMI		DIP	236- 30
61♦	74LS363N	TTL	SN74LS652JS(2)	MMI		DIP	237- 37
62♦	74LS363N	TTL	SN74LS652NS(2)	MMI		DIP	237- 38
63♦	74LS363N	TTL	SN74LS653JS(2)	MMI		DIP	237- 85
64♦	74LS363N	TTL	SN74LS653NS(2)	MMI		DIP	237- 86
65▼	74LS363N	TTL	SN74S373J	AMD		DIP	237- 1
66▼	74LS363N	TTL	SN74S373J	MMI		DIP	237- 1
67♦	74LS363N	TTL	SN74S373N(1)	AMD		DIP	237- 2
68♦	74LS363N	TTL	SN74S373N(1)	MMI		DIP	237- 2
69♦	74LS363N	TTL	SN74S373N(1)	TII		DIP	237- 2
70♦	74LS363N	TTL	S54F373F	MULB		DIP	235- 47
71♦	74LS363N	TTL	S54F373F	PHIN		DIP	235- 47
72♦	74LS363N	TTL	S54F373F	RTCF		DIP	235- 47
73♦	74LS363N	TTL	S54F373F	SIC		DIP	235- 47
74♦	74LS363N	TTL	S54F373F	VALG		DIP	235- 47
75♦	74LS363N	TTL	S54LS363F	MULB		DIP	237-107
76♦	74LS363N	TTL	S54LS363F	PHIN		DIP	237-107
77♦	74LS363N	TTL	S54LS363F	RTCF		DIP	237-107
78♦	74LS363N	TTL	S54LS363F	SIC		DIP	237-107
79♦	74LS363N	TTL	S54LS363F	VALG		DIP	237-107
80♦	74LS363N	TTL	S54LS373F	MULB		DIP	236- 93
81♦	74LS363N	TTL	S54LS373F	PHIN		DIP	236- 93
82♦	74LS363N	TTL	S54LS373F	RTCF		DIP	236- 93
83♦	74LS363N	TTL	S54LS373F	SIC		DIP	236- 93
84♦	74LS363N	TTL	S54LS373F	VALG		DIP	236- 93
85♦	74LS363N	TTL	S54S373F(1)	MULB		DIP	235- 67
86♦	74LS363N	TTL	S54S373F(1)	PHIN		DIP	235- 67
87♦	74LS363N	TTL	S54S373F(1)	RTCF		DIP	235- 67
88♦	74LS363N	TTL	S54S373F(1)	SIC		DIP	235- 67
89♦	74LS363N	TTL	S54S373F(1)	VALG		DIP	235- 67
90♦	74LS363N	TTL	54F373DM	FSC		DIP	234- 75
91♦	74LS363N	TTL	54LS373DM	FSC		DIP	229-108
92♦	74LS363N	TTL	74F373DC	FSC		DIP	234- 37
93♦	74LS363N	TTL	74F373PC	FSC		DIP	234- 39
94♦	74LS363N	TTL	74LS373DC	FSC		DIP	230- 4
95♦	74LS363N	TTL	74LS373PC	FSC		DIP	239- 4
96♦	74LS364	CMOS	IDT54AHCT374D	IDT		DIP	57-103
97♦	74LS364	CMOS	IDT54AHCT374DB	IDT		DIP	57-104
98♦	74LS364	CMOS	IDT74AHCT374D	IDT		DIP	58- 7
99♦	74LS364	CMOS	MC54HCT374J	MOTA		DIP	58- 17
100♦	74LS364	CMOS	MC74HCT374J	MOTA		DIP	58- 18
101♦	74LS364	CMOS	MC74HCT374N	MOTA		DIP	58- 19
102♦	74LS364	CMOS	MD54HCT374RC	MITC		DIP	58- 20
103♦	74LS364	CMOS	MD54HCT574PC	MITC		DIP	58- 21
104♦	74LS364	CMOS	MD74HCT374RE	MITC		DIP	58- 23
105♦	74LS364	CMOS	MD74HCT574RE	MITC		DIP	58- 24
106♦	74LS364	CMOS	MV74SC374(A)	PLSB		DIP	59- 72
107♦	74LS364	CMOS	M54HC374F1(A)	SGSI		DIP	62- 4
108♦	74LS364	CMOS	M74HC374B1(A)	SGSI		DIP	59- 52
109♦	74LS364	CMOS	M74HC374F1(A)	SGSI		DIP	59- 54
110♦	74LS364	CMOS	M74HC374P	MITJ		DIP	61- 25

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
111♦	74LS364	CMOS	PC74HCT374P	MULB		DIP	58-107
112♦	74LS364	CMOS	PC74HCT374P	PHIN		DIP	58-107
113♦	74LS364	CMOS	PC74HCT374P	RTCF		DIP	58-107
114♦	74LS364	CMOS	PC74HCT374P	VALG		DIP	58-107
115	74LS364	CMOS	PC74HCT374T	MULB	*	SO	58-108
116	74LS364	CMOS	PC74HCT374T	PHIN	*	SO	58-108
117	74LS364	CMOS	PC74HCT374T	RTCF	*	SO	58-108
118	74LS364	CMOS	PC74HCT374T	VALG	*	SO	58-108
119♦	74LS364	CMOS	UPD74HC374C(A)	NECJ		DIP	62- 76
120♦	74LS364	CMOS	V54ACT374D	VTC		DIP	62- 50
121♦	74LS364	CMOS	V54ACT374DL	VTC	*	LLCC	62- 51
122♦	74LS364	CMOS	V74ACT374D	VTC		DIP	62- 61
123♦	74LS364	CMOS	V74ACT374DL	VTC	*	LLCC	62- 62
124♦	74LS364	CMOS	V74ACT374P	VTC		DIP	62- 63
125♦	74LS364	CMOS	V74ACT374PK	VTC	*	LDCC	62- 64
126♦	74LS364	CMOS	V74ACT374PO	VTC	*	SO	62- 65
127♦	74LS364	CMOS	54ACT374DM(A)	FSC		DIP	63- 98
128♦	74LS364	CMOS	54ACT374SM(A)	FSC	*	SO	63- 99
129♦	74LS364	CMOS	54AC374DM(A)	FSC		DIP	63- 96
130♦	74LS364	CMOS	54AC374SM(A)	FSC	*	SO	63- 97
131♦	74LS364	CMOS	74ACT374DC(A)	FSC		DIP	63-103
132♦	74LS364	CMOS	74ACT374PC(A)	FSC		DIP	63-104
133♦	74LS364	CMOS	74ACT374SC(A)	FSC	*	SO	63-105
134♦	74LS364	CMOS	74AC374DC(A)	FSC		DIP	63-100
135♦	74LS364	CMOS	74AC374PC(A)	FSC		DIP	63-101
136♦	74LS364	CMOS	74AC374SC(A)	FSC	*	SO	63-102
137♦	74LS364	TTL	DM54ALS374J	NSC		DIP	60- 84
138♦	74LS364	TTL	DM54AS374J	NSC		DIP	63- 61
139♦	74LS364	TTL	DM54LS374J	NSC		DIP	59- 48
140♦	74LS364	TTL	DM74ALS374J	NSC		DIP	61- 53
141♦	74LS364	TTL	DM74ALS374N	NSC		DIP	61- 54
142♦	74LS364	TTL	DM74AS374J	NSC		DIP	63-106
143♦	74LS364	TTL	DM74AS374N	NSC		DIP	63-107
144▼	74LS364	TTL	HD74LS374G	HITJ		DIP	61- 61
145▼	74LS364	TTL	HD74LS374P	HITJ		DIP	61- 62
146♦	74LS364	TTL	N74F374D	MULB	*	SO	58- 25
147♦	74LS364	TTL	N74F374D	PHIN	*	SO	58- 25
148♦	74LS364	TTL	N74F374D	RTCF	*	SO	58- 25
149♦	74LS364	TTL	N74F374D	SIC	*	SO	58- 25
150♦	74LS364	TTL	N74F374D	VALG	*	SO	58- 25
151♦	74LS364	TTL	N74F374N	MULB		DIP	58- 26
152♦	74LS364	TTL	N74F374N	PHIN		DIP	58- 26
153♦	74LS364	TTL	N74F374N	RTCF		DIP	58- 26
154♦	74LS364	TTL	N74F374N	SIC		DIP	58- 26
155♦	74LS364	TTL	N74F374N	VALG		DIP	58- 26
156▼	74LS364	TTL	SN74ALS374DW	TII	*	SO	61- 72
157♦	74LS364	TTL	SN74ALS374N	TII		DIP	61- 73
158♦	74LS364	TTL	SN74LS374DW	TII	*	SO	62- 33
159♦	74LS364	TTL	SN74S374DW	TII	*	SO	63- 89
160♦	74LS364N	CMOS	CD54HCT374F	RCA		DIP	59- 39
161♦	74LS364N	CMOS	CD54HC374F	RCA		DIP	59- 34
162▼	74LS364N	CMOS	CD74AC374E(A)	RCA		DIP	61- 79
163▼	74LS364N	CMOS	CD74AC374M(A)	RCA	*	SO	61- 80
164♦	74LS364N	CMOS	CD74HCT374E	RCA		DIP	60- 40
165♦	74LS364N	CMOS	CD74HC374E	RCA		DIP	60- 30
166▼	74LS364N	CMOS	HD74HCT374FP	HITJ	*	SO	60- 7
167▼	74LS364N	CMOS	HD74HCT374P	HITJ		DIP	60- 8
168▼	74LS364N	CMOS	HD74HC374FP	HITJ	*	SO	59-109
169▼	74LS364N	CMOS	HD74HC374P	HITJ		DIP	59-110
170♦	74LS364N	CMOS	HEF40374B(A)	MULB		DIP	57- 98
171♦	74LS364N	CMOS	HEF40374B(A)	SIC		DIP	57- 98
172♦	74LS364N	CMOS	MC54HC374J(A)	MOTA		DIP	60-103
173♦	74LS364N	CMOS	MC74HC374J(A)	MOTA		DIP	60-107
174♦	74LS364N	CMOS	MC74HC374N(A)	MOTA		DIP	60-108
175♦	74LS364N	CMOS	MM54HCT374J(A)	NSC		DIP	59- 71
176♦	74LS364N	CMOS	MM54HC374J	NSC		DIP	59-103
177♦	74LS364N	CMOS	MM74HCT374J(A)	NSC		DIP	60- 17
178♦	74LS364N	CMOS	MM74HCT374N(A)	NSC		DIP	60- 18
179♦	74LS364N	CMOS	MM74HC374J	NSC		DIP	60- 69
180♦	74LS364N	CMOS	MV74SC534(A)	PLSB		DIP	59- 73
181♦	74LS364N	CMOS	SN54HC374J	TII		DIP	59- 88
182♦	74LS364N	CMOS	SN74HC374N	TII		DIP	60- 19
183♦	74LS364N	CMOS	TC40H374P	TOSJ		DIP	60- 57
184▼	74LS364N	CMOS	TC74HCT374F(A)	TOSA	*	SO	61-108
185▼	74LS364N	CMOS	TC74HCT374P(A)	TOSA		DIP	61-109
186▼	74LS364N	CMOS	TC74HC374F(A)	TOSA	*	SO	62- 8
187▼	74LS364N	CMOS	TC74HC374P(A)	TOSA		DIP	62- 9
188♦	74LS364N	CMOS	54HCT374C	STX		DIP	59- 12
189♦	74LS364N	CMOS	54HCT374D	STX		DIP	59- 13
190♦	74LS364N	CMOS	74HCT374C	STX		DIP	61- 38
191♦	74LS364N	CMOS	74HCT374P	STX		DIP	61- 39
192♦	74LS364N	CMOS	74SC374C	STX		DIP	59- 20
193♦	74LS364N	CMOS	74SC374D	STX		DIP	59- 21
194♦	74LS364N	CMOS	74SC374P	STX		DIP	59- 22
195♦	74LS364N	TTL	DM74LS374N	NSC		DIP	238- 3
196♦	74LS364N	TTL	DM74S374N	NSC		DIP	236- 22
197♦	74LS364N	TTL	MC54F374J	MOTA		DIP	63- 72
198♦	74LS364N	TTL	MC54F374N	MOTA		DIP	62- 44
199♦	74LS364N	TTL	MC74F374J	MOTA		DIP	63- 75
200♦	74LS364N	TTL	MC74F374N	MOTA		DIP	63- 76
201♦	74LS364N	TTL	M74LS374P	MITA		DIP	61- 97
202♦	74LS364N	TTL	M74LS374P	MITJ		DIP	61- 97
203♦	74LS364N	TTL	N74F374F	VALG		DIP	63- 79
204♦	74LS364N	TTL	N74LS364F(1)	MULB		DIP	62- 22
205♦	74LS364N	TTL	N74LS364F(1)	PHIN		DIP	62- 22
206♦	74LS364N	TTL	N74LS364F(1)	VALG		DIP	62- 22
207♦	74LS364N	TTL	N74LS364N	MULB		DIP	61- 63
208♦	74LS364N	TTL	N74LS364N	PHIN		DIP	61- 63
209♦	74LS364N	TTL	N74LS364N	RTCF		DIP	61- 63
210♦	74LS364N	TTL	N74LS364N	SIC		DIP	61- 63
211♦	74LS364N	TTL	N74LS364N	VALG		DIP	61- 63
212	74LS364N	TTL	N74LS374D	MULB	*	SO	61- 64
213	74LS364N	TTL	N74LS374D	PHIN	*	SO	61- 64
214	74LS364N	TTL	N74LS374D	RTCF	*	SO	61- 64
215	74LS364N	TTL	N74LS374D	SIC	*	SO	61- 64
216	74LS364N	TTL	N74LS374D	VALG	*	SO	61- 64
217♦	74LS364N	TTL	N74LS374N	MULB		DIP	61- 65
218♦	74LS364N	TTL	N74LS374N	PHIN		DIP	61- 65
219♦	74LS364N	TTL	N74LS374N	RTCF		DIP	61- 65
220♦	74LS364N	TTL	N74LS374N	SIC		DIP	61- 65

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	S M D	PKG TYPE	PAGE & LINE
1♦	74LS364N	TTL	N74LS374N	VALG		DIP	61- 65
2	74LS364N	TTL	N74S374D	MULB	*	SO	62- 93
3	74LS364N	TTL	N74S374D	PHIN	*	SO	62- 93
4	74LS364N	TTL	N74S374D	RTCF	*	SO	62- 93
5	74LS364N	TTL	N74S374D	SIC	*	SO	62- 93
6	74LS364N	TTL	N74S374D	VALG	*	SO	62- 93
7♦	74LS364N	TTL	N74S374N	MULB		DIP	62- 94
8♦	74LS364N	TTL	N74S374N	PHIN		DIP	62- 94
9♦	74LS364N	TTL	N74S374N	RTCF		DIP	62- 94
10♦	74LS364N	TTL	N74S374N	SIC		DIP	62- 94
11♦	74LS364N	TTL	N74S374N	VALG		DIP	62- 94
12♦	74LS364N	TTL	SN54ALS374J	TII		DIP	61- 9
13♦	74LS364N	TTL	SN54AS374J	TII		DIP	63- 85
14▼	74LS364N	TTL	SN54LS374J	MMI		DIP	62- 23
15▼	74LS364N	TTL	SN54LS374J	MOTA		DIP	62- 23
16▼	74LS364N	TTL	SN54LS374J	TII		DIP	62- 23
17▼	74LS364N	TTL	SN54LS374L	MMI	*	LLCC	62- 24
18▼	74LS364N	TTL	SN54LS374N	MOTA		DIP	62- 25
19▼	74LS364N	TTL	SN54LS374W	MMI	*	FP	62- 26
20▼	74LS364N	TTL	SN54LS374W	MOTA	*	FP	62- 26
21▼	74LS364N	TTL	SN54S374J	MMI		DIP	62- 30
22▼	74LS364N	TTL	SN54S374L	MMI	*	LLCC	62- 31
23▼	74LS364N	TTL	SN54S374W	MMI	*	FP	62- 32
24▼	74LS364N	TTL	SN74AS374DW	TII	*	SO	64- 16
25♦	74LS364N	TTL	SN74AS374N	TII		DIP	64- 17
26▼	74LS364N	TTL	SN74LS374J	MMI		DIP	62- 34
27▼	74LS364N	TTL	SN74LS374J	MOTA		DIP	62- 34
28▼	74LS364N	TTL	SN74LS374N	MMI		DIP	62- 35
29▼	74LS364N	TTL	SN74LS374N	MOTA		DIP	62- 35
30▼	74LS364N	TTL	SN74LS374N	TII		DIP	62- 35
31	74LS364N	TTL	SN74S374J(1)	MMI		DIP	238- 10
32▼	74LS364N	TTL	SN74S374N	MMI		DIP	62- 38
33♦	74LS364N	TTL	S54F374F	MULB		DIP	63- 82
34♦	74LS364N	TTL	S54F374F	PHIN		DIP	63- 82
35♦	74LS364N	TTL	S54F374F	RTCF		DIP	63- 82
36♦	74LS364N	TTL	S54F374F	SIC		DIP	63- 82
37♦	74LS364N	TTL	S54F374F	VALG		DIP	63- 82
38♦	74LS364N	TTL	S54LS364F	MULB		DIP	61- 66
39♦	74LS364N	TTL	S54LS364F	PHIN		DIP	61- 66
40♦	74LS364N	TTL	S54LS364F	RTCF		DIP	61- 66
41♦	74LS364N	TTL	S54LS364F	SIC		DIP	61- 66
42♦	74LS364N	TTL	S54LS364F	VALG		DIP	61- 66
43	74LS364N	TTL	S54LS364G	MULB	*	LLCC	61- 67
44	74LS364N	TTL	S54LS364G	PHIN	*	LLCC	61- 67
45	74LS364N	TTL	S54LS364G	RTCF	*	LLCC	61- 67
46	74LS364N	TTL	S54LS364G	SIC	*	LLCC	61- 67
47	74LS364N	TTL	S54LS364G	VALG	*	LLCC	61- 67
48♦	74LS364N	TTL	S54LS374F	MULB		DIP	61- 68
49♦	74LS364N	TTL	S54LS374F	PHIN		DIP	61- 68
50♦	74LS364N	TTL	S54LS374F	RTCF		DIP	61- 68
51♦	74LS364N	TTL	S54LS374F	SIC		DIP	61- 68
52♦	74LS364N	TTL	S54LS374F	VALG		DIP	61- 68
53♦	74LS364N	TTL	S54S374F(1)	MULB		DIP	62- 99
54♦	74LS364N	TTL	S54S374F(1)	PHIN		DIP	62- 99
55♦	74LS364N	TTL	S54S374F(1)	RTCF		DIP	62- 99
56♦	74LS364N	TTL	S54S374F(1)	SIC		DIP	62- 99
57♦	74LS364N	TTL	S54S374F(1)	VALG		DIP	62- 99
58♦	74LS364N	TTL	54F374DM	FSC		DIP	64- 38
59♦	74LS364N	TTL	54LS374DM	FSC		DIP	61- 30
60♦	74LS364N	TTL	74F374DC	FSC		DIP	64- 41
61♦	74LS364N	TTL	74F374PC	FSC		DIP	64- 43
62♦	74LS364N	TTL	74LS374DC	FSC		DIP	61- 47
63♦	74LS364N	TTL	74LS374PC(1)	FSC		DIP	61- 48
64♦	74S364N	CMOS	MM74HC374N	NSC		DIP	49- 74
65♦	74LC373	CMOS	MV74SC373(A)	PLSB		DIP	240- 64
66♦	74LS373	CMOS	IDT54AHCT373D	IDT		DIP	236- 70
67♦	74LS373	CMOS	IDT54AHCT373DB	IDT		DIP	237- 9
68♦	74LS373	CMOS	IDT54FCT373D	IDT		DIP	234- 78
69♦	74LS373	CMOS	IDT54FCT373DB	IDT		DIP	234- 79
70♦	74LS373	CMOS	IDT74AHCT373D	IDT		DIP	236- 72
71♦	74LS373	CMOS	IDT74FCT373D	IDT		DIP	234- 56
72♦	74LS373	CMOS	LC74HC373	TSAJ		DIP	238- 27
73♦	74LS373	CMOS	MC54HCT373J(A)	MOTA		DIP	233- 63
74♦	74LS373	CMOS	MC54HC373J(A)	MOTA		DIP	237- 74
75♦	74LS373	CMOS	MC74HCT373J(A)	MOTA		DIP	233- 66
76♦	74LS373	CMOS	MC74HCT373N(A)	MOTA		DIP	233- 67
77♦	74LS373	CMOS	MC74HC373J(A)	MOTA		DIP	237- 76
78♦	74LS373	CMOS	MC74HC373N(A)	MOTA		DIP	237- 77
79♦	74LS373	CMOS	MD54HCT373RC	MITC		DIP	238- 47
80♦	74LS373	CMOS	MD74HCT373RE	MITC		DIP	238- 16
81♦	74LS373	CMOS	MV54HCT373	PLSB		DIP	239- 72
82♦	74LS373	CMOS	MV74HCT373	PLSB		DIP	239- 54
83♦	74LS373	CMOS	M54HC373F1(A)	SGSI		DIP	238- 12
84♦	74LS373	CMOS	M74HC373B1(A)	SGSI		DIP	238- 98
85♦	74LS373	CMOS	M74HC373F1(A)	SGSI		DIP	238-100
86▼	74LS373	CMOS	SN54HCT373J(A)	TII		DIP	240- 80
87▼	74LS373	CMOS	SN74HCT373DW(A)	TII	*	SO	240- 71
88▼	74LS373	CMOS	SN74HCT373N(A)	TII		DIP	240- 72
89♦	74LS373	CMOS	UPD74HC373C(A)	NECJ		DIP	235- 99
90♦	74LS373	CMOS	54ACT373DM(A)	FSC		DIP	236- 13
91♦	74LS373	CMOS	54ACT373SM(A)	FSC	*	SO	236- 14
92♦	74LS373	CMOS	54AC373DM(A)	FSC		DIP	236- 11
93♦	74LS373	CMOS	54AC373SM(A)	FSC	*	SO	236- 12
94♦	74LS373	CMOS	74ACT373DC(A)	FSC		DIP	236- 18
95♦	74LS373	CMOS	74ACT373PC(A)	FSC		DIP	236- 19
96♦	74LS373	CMOS	74ACT373SG(A)	FSC	*	SO	236- 20
97♦	74LS373	CMOS	74AC373DC(A)	FSC		DIP	236- 15
98♦	74LS373	CMOS	74AC373PC(A)	FSC		DIP	236- 16
99♦	74LS373	CMOS	74AC373SG(A)	FSC	*	SO	236- 17
100♦	74LS373	CMOS	74HCT373	AEIL		DIP	233- 50
101♦	74LS373	CMOS	74HCT373N	SIC		DIP	239- 53
102♦	74LS373	CMOS	74HC373D	SIC	*	SO	239- 11
103♦	74LS373	CMOS	74HC373N	SIC		DIP	239- 12
104♦	74LS373	TTL	AM25S373DC	AMD		DIP	237- 87
105♦	74LS373	TTL	AM25S373DM	AMD		DIP	237- 88
106	74LS373	TTL	AM25S373FM	AMD	*	FP	237- 89
107♦	74LS373	TTL	AM25S373PC	AMD		DIP	237- 90
108♦	74LS373	TTL	DM54ALS373J	NSC		DIP	237- 8
109♦	74LS373	TTL	DM54AS373J	NSC		DIP	230- 50
110♦	74LS373	TTL	DM74ALS373J	NSC		DIP	236- 62

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	S M D	PKG TYPE	PAGE & LINE
111♦	74LS373	TTL	DM74ALS373N	NSC		DIP	236- 63
112♦	74LS373	TTL	DM74AS373J	NSC		DIP	230- 43
113♦	74LS373	TTL	DM74AS373N	NSC		DIP	230- 44
114♦	74LS373	TTL	DN74LS373P3	MATJ		DIP	236- 89
115♦	74LS373	TTL	DN74LS373P6	MATJ	*	SO	236- 90
116▼	74LS373	TTL	HD74LS373G	HITJ		DIP	238- 24
117▼	74LS373	TTL	HD74LS373P	HITJ		DIP	238- 25
118♦	74LS373	TTL	M74ALS373P	MITA		DIP	237- 58
119♦	74LS373	TTL	M74ALS373P	MITJ		DIP	237- 58
120	74LS373	TTL	SN54S373W	AMD	*	FP	237-101
121	74LS373	TTL	SN54S373W	MMI	*	FP	237-101
122♦	74LS373N	CMOS	CD54HCT373F	RCA		DIP	238- 82
123♦	74LS373N	CMOS	CD54HC373F	RCA		DIP	238- 22
124▼	74LS373N	CMOS	CD74AC373E(A)	RCA		DIP	234- 54
125▼	74LS373N	CMOS	CD74AC373M(A)	RCA	*	SO	234- 55
126♦	74LS373N	CMOS	CD74HCT373E	RCA		DIP	238- 83
127♦	74LS373N	CMOS	CD74HC373E	RCA		DIP	238- 23
128▼	74LS373N	CMOS	HD74HC373FP	HITJ	*	SO	236- 66
129▼	74LS373N	CMOS	HD74HC373P	HITJ		DIP	236- 67
130♦	74LS373N	CMOS	MD74HCT573RE	MITC		DIP	238- 17
131▼	74LS373N	CMOS	M74HCT373B1	SGSI		DIP	233- 56
132▼	74LS373N	CMOS	M74HCT373F1	SGSI		DIP	233- 58
133▼	74LS373N	CMOS	P74PCT373DC	PSC		DIP	234- 15
134▼	74LS373N	CMOS	P74PCT373LC	PSC	*	LLCC	234- 98
135▼	74LS373N	CMOS	P74PCT373PC	PSC		DIP	234- 16
136▼	74LS373N	CMOS	TC74HC373F(A)	TOSA	*	SO	239- 7
137▼	74LS373N	CMOS	TC74HC373P(A)	TOSA		DIP	239- 8
138♦	74-374	CMOS	N74HCT374D	SIC	*	SO	62- 16
139♦	74-374	CMOS	N74HCT374N	SIC		DIP	62- 17
140♦	74-374	CMOS	N74HC374D	SIC	*	SO	62- 45
141♦	74-374	CMOS	N74HC374N	SIC		DIP	62- 46
142♦	74-374	CMOS	74HCT374	AEIL		DIP	57- 79
143▼	74S374	CMOS	M74HCT374B1	SGSI		DIP	58- 14
144▼	74S374	CMOS	M74HCT374F1	SGSI		DIP	58- 16
145♦	74S374	TTL	AM25S374DC	AMD		DIP	57- 86
146♦	74S374	TTL	AM25S374DM	AMD		DIP	57- 87
147♦	74S374	TTL	AM25S374FM	AMD	*	FP	57- 88
148♦	74S374	TTL	AM25S374PC	AMD		DIP	57- 89
149♦	74S374	TTL	AM54S374DC	AMD		DIP	57- 90
150♦	74S374	TTL	AM54S374DM	AMD		DIP	57- 91
151♦	74S374	TTL	AM54S374FM	AMD	*	FP	57- 92
152♦	74S374	TTL	AM54S374PC	AMD		DIP	57- 93
153♦	74S374	TTL	AM74S374DC	AMD		DIP	57- 94
154♦	74S374	TTL	AM74S374DM	AMD		DIP	57- 95
155♦	74S374	TTL	AM74S374FM	AMD	*	FP	57- 96
156♦	74S374	TTL	AM74S374PC	AMD		DIP	57- 97
157♦	74LS375	CMOS	M54HC375F1(A)	SGSI		DIP	230-110
158♦	74LS375	CMOS	M74HC375B1(A)	SGSI		DIP	231- 15
159♦	74LS375	CMOS	M74HC375F1(A)	SGSI		DIP	231- 17
160♦	74LS375	CMOS	UPD74HC375C(A)	NECJ		DIP	230- 84
161♦	74LS375	TTL	SN74LS375D	TII	*	SO	231- 8
162▼	74LS375N	CMOS	HD74HC375FP	HITJ	*	SO	230- 64
163▼	74LS375N	CMOS	HD74HC375P	HITJ		DIP	230- 65
164▼	74LS375N	CMOS	SN74HC375D(A)	TII	*	SO	231- 85
165▼	74LS375N	CMOS	SN74HC375N(A)	TII		DIP	231- 86
166	74LS375N	CMOS	TC40H375F	TOSJ	*	SO	232- 15
167	74LS375N	CMOS	TC40H375P	IMTM		DIP	232- 16
168	74LS375N	CMOS	TC40H375P	TOSJ		DIP	232- 16
169▼	74LS375N	CMOS	TC74HC375F(A)	TOSA	*	SO	231- 70
170▼	74LS375N	CMOS	TC74HC375P(A)	TOSA		DIP	231- 71
171▼	74LS375N	TTL	HD74LS375G	HITJ		DIP	231- 28
172♦	74LS375N	TTL	HD74LS375P	HITJ		DIP	231- 29
173♦	74LS375N	TTL	M74LS375P	MITA		DIP	231- 31
174♦	74LS375N	TTL	M74LS375P	MITJ		DIP	231- 31
175♦	74LS375N	TTL	N74LS375D	MULB	*	SO	231- 35
176♦	74LS375N	TTL	N74LS375D	PHIN	*	SO	231- 35
177♦	74LS375N	TTL	N74LS375D	RTCF	*	SO	231- 35
178♦	74LS375N	TTL	N74LS375D	SIC	*	SO	231- 35
179♦	74LS375N	TTL	N74LS375D	VALG	*	SO	231- 35
180♦	74LS375N	TTL	N74LS375F	MULB		DIP	231- 36
181♦	74LS375N	TTL	N74LS375F	PHIN		DIP	231- 36
182♦	74LS375N	TTL	N74LS375F	RTCF		DIP	231- 36
183♦	74LS375N	TTL	N74LS375F	VALG		DIP	231- 36
184♦	74LS375N	TTL	N74LS375N	MULB		DIP	231- 37
185♦	74LS375N	TTL	N74LS375N	PHIN		DIP	231- 37
186♦	74LS375N	TTL	N74LS375N	RTCF		DIP	231- 37
187♦	74LS375N	TTL	N74LS375N	SIC		DIP	231- 37
188♦	74LS375N	TTL	N74LS375N	VALG		DIP	231- 37
189♦	74LS375N	TTL	SN54LS375J	MOTA		DIP	231- 6
190♦	74LS375N	TTL	SN54LS375J	TII		DIP	231- 6
191▼	74LS375N	TTL	SN54LS375N	MOTA		DIP	231- 7
192♦	74LS375N	TTL	SN74LS375J	MOTA		DIP	231- 9
193♦	74LS375N	TTL	SN74LS375N	MOTA		DIP	231- 10
194♦	74LS375N	TTL	SN74LS375N	TII		DIP	231- 10
195♦	74LS375N	TTL	S54LS375F	MULB		DIP	231- 42
196♦	74LS375N	TTL	S54LS375F	PHIN		DIP	231- 42
197♦	74LS375N	TTL	S54LS375F	RTCF		DIP	231- 42
198♦	74LS375N	TTL	S54LS375F	SIC		DIP	231- 42
199♦	74LS375N	TTL	S54LS375F	VALG		DIP	231- 42
200♦	74LS375N	TTL	54LS375DM	FSC		DIP	229- 24
201♦	74LS375N	TTL	74LS375DC	FSC		DIP	231- 22
202♦	74LS375N	TTL	74LS375PC	FSC		DIP	231- 23
203♦	74-376N	TTL	SN54376J(1)	TII		DIP	74-104
204♦	74-376N	TTL	SN74376N(1)	TII		DIP	74-105
205♦	74LS377	CMOS	IDT54AHCT377D	IDT		DIP	57-107
206♦	74LS377	CMOS	IDT54AHCT377DB	IDT		DIP	57-108
207▼	74LS377	CMOS	IDT54FCT377ADB	IDT		DIP	58- 36
208▼	74LS377	CMOS	IDT54FCT377AEB	IDT	*	FP	58- 37
209▼	74LS377	CMOS	IDT54FCT377ALB	IDT	*	LLCC	58- 38
210♦	74LS377	CMOS	IDT54FCT377DB	IDT		DIP	58- 39
211♦	74LS377	CMOS	IDT74AHCT377D	IDT		DIP	58- 9
212▼	74LS377	CMOS	IDT74FCT377AD	IDT		DIP	58- 64
213▼	74LS377	CMOS	IDT74FCT377AJ	IDT	*	LDCC	58- 65
214▼	74LS377	CMOS	IDT74FCT377AL	IDT	*	LLCC	58- 66
215▼	74LS377	CMOS	IDT74FCT377AP	IDT		DIP	58- 67
216▼	74LS377	CMOS	IDT74FCT377ASO	IDT	*	SO	58- 68
217♦	74LS377	CMOS	IDT74FCT377D	IDT		DIP	58- 69
218▼	74LS377	CMOS	IDT74FCT377J	IDT	*	LDCC	58- 70
219▼	74LS377	CMOS	IDT74FCT377P	IDT		DIP	58- 72
220▼	74LS377	CMOS	IDT74FCT377SO	IDT	*	SO	58- 73

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74LS377	CMOS	M54HC377F1(A)	SGSI		DIP	62- 80
2♦	74LS377	CMOS	M74HC377B1(A)	SGSI		DIP	60- 47
3♦	74LS377	CMOS	M74HC377F1(A)	SGSI		DIP	60- 49
4	74LS377	CMOS	N74HCT377D	SIC	*	SO	62- 39
5♦	74LS377	CMOS	N74HCT377N	SIC		DIP	62- 40
6	74LS377	CMOS	N74HC377D	SIC	*	SO	62- 47
7♦	74LS377	CMOS	N74HC377N	SIC		DIP	62- 48
8♦	74LS377	CMOS	PC74HCT377P	MULB		DIP	59- 7
9♦	74LS377	CMOS	PC74HCT377P	PHIN		DIP	59- 7
10♦	74LS377	CMOS	PC74HCT377P	RTCF		DIP	59- 7
11♦	74LS377	CMOS	PC74HCT377P	VALG		DIP	59- 7
12	74LS377	CMOS	PC74HCT377T	MULB	*	SO	59- 8
13	74LS377	CMOS	PC74HCT377T	PHIN	*	SO	59- 8
14	74LS377	CMOS	PC74HCT377T	RTCF	*	SO	59- 8
15	74LS377	CMOS	PC74HCT377T	VALG	*	SO	59- 8
16♦	74LS377	CMOS	PC74HC377P	MULB		DIP	59- 78
17♦	74LS377	CMOS	PC74HC377P	PHIN		DIP	59- 78
18♦	74LS377	CMOS	PC74HC377P	RTCF		DIP	59- 78
19♦	74LS377	CMOS	PC74HC377P	VALG		DIP	59- 78
20	74LS377	CMOS	PC74HC377T	MULB	*	SO	59- 79
21	74LS377	CMOS	PC74HC377T	PHIN	*	SO	59- 79
22	74LS377	CMOS	PC74HC377T	RTCF	*	SO	59- 79
23	74LS377	CMOS	74HCT377D	SIC	*	SO	59- 99
24♦	74LS377	CMOS	74HCT377N	SIC		DIP	59-100
25	74LS377	CMOS	74HC377D	SIC	*	SO	60- 63
26♦	74LS377	CMOS	74HC377N	SIC		DIP	60- 64
27♦	74LS377	TTL	N74F377D(A)	MULB	*	SO	63- 95
28♦	74LS377	TTL	N74F377D(A)	PHIN	*	SO	63- 95
29♦	74LS377	TTL	N74F377D(A)	RTCF	*	SO	63- 95
30♦	74LS377	TTL	N74F377D(A)	SIC	*	SO	63- 95
31♦	74LS377	TTL	N74F377D(A)	VALG	*	SO	63- 95
32♦	74LS377	TTL	N74F377N(A)	MULB		DIP	58- 27
33♦	74LS377	TTL	N74F377N(A)	PHIN		DIP	58- 27
34♦	74LS377	TTL	N74F377N(A)	RTCF		DIP	58- 27
35♦	74LS377	TTL	N74F377N(A)	SIC		DIP	58- 27
36♦	74LS377	TTL	N74F377N(A)	VALG		DIP	58- 27
37♦	74LS377	TTL	SN54LS377J	MOTA		DIP	61-101
38♦	74LS377	TTL	SN54LS377J	TII		DIP	61-101
39♦	74LS377	TTL	SN74LS377DW	TII	*	SO	61-103
40♦	74LS377	TTL	SN74LS377J	MOTA		DIP	61-105
41♦	74LS377	TTL	SN74LS377N	MOTA		DIP	61-106
42♦	74LS377	TTL	SN74LS377N	TII		DIP	61-106
43♦	74LS377	TTL	54F377DM(A)	FSC		DIP	63- 18
44♦	74LS377	TTL	74F377DC(A)	FSC		DIP	63- 35
45♦	74LS377	TTL	74F377PC(A)	FSC		DIP	63- 37
46♦	74LS377N	CMOS	CD54HCT377F	RCA		DIP	58-103
47♦	74LS377N	CMOS	CD54HC377F	RCA		DIP	59- 35
48♦	74LS377N	CMOS	CD74HCT377E	RCA		DIP	59- 43
49♦	74LS377N	CMOS	CD74HC377E	RCA		DIP	60- 32
50▼	74LS377N	CMOS	HD74HC377FP	HITJ	*	SO	60- 1
51▼	74LS377N	CMOS	HD74HC377P	HITJ		DIP	60- 2
52▼	74LS377N	CMOS	SN74HC377DW	TII	*	SO	59- 89
53♦	74LS377N	CMOS	SN74HC377N	TII		DIP	59- 90
54▼	74LS377N	CMOS	TC74HC377F	TOSA	*	SO	62- 41
55▼	74LS377N	CMOS	TC74HC377P	TOSA		DIP	62- 42
56♦	74LS377N	TTL	M74LS377P	MITA		DIP	61- 98
57♦	74LS377N	TTL	M74LS377P	MITJ		DIP	61- 98
58♦	74LS377N	TTL	N74LS377D	MULB		DIP	61- 3
59♦	74LS377N	TTL	N74LS377D	PHIN		DIP	61- 3
60♦	74LS377N	TTL	N74LS377D	RTCF		DIP	61- 3
61♦	74LS377N	TTL	N74LS377D	SIC		DIP	61- 3
62♦	74LS377N	TTL	N74LS377D	VALG		DIP	61- 3
63♦	74LS377N	TTL	N74LS377N	MULB		DIP	61- 4
64♦	74LS377N	TTL	N74LS377N	PHIN		DIP	61- 4
65♦	74LS377N	TTL	N74LS377N	RTCF		DIP	61- 4
66♦	74LS377N	TTL	N74LS377N	SIC		DIP	61- 4
67♦	74LS377N	TTL	N74LS377N	VALG		DIP	61- 4
68♦	74LS377N	TTL	S54LS377F	MULB		DIP	61- 7
69♦	74LS377N	TTL	S54LS377F	PHIN		DIP	61- 7
70♦	74LS377N	TTL	S54LS377F	RTCF		DIP	61- 7
71♦	74LS377N	TTL	S54LS377F	SIC		DIP	61- 7
72♦	74LS377N	TTL	S54LS377F	VALG		DIP	61- 7
73♦	74LS377N	TTL	54LS377DM	FSC		DIP	60- 77
74♦	74LS377N	TTL	74LS377DC	FSC		DIP	60- 81
75♦	74LS377N	TTL	74LS377PC	FSC		DIP	60- 82
76▼	74LS378	TTL	MC54F378J	MOTA		DIP	57- 16
77▼	74LS378	TTL	MC54F378N	MOTA		DIP	57- 17
78♦	74LS378	TTL	N74F378D(A)	MULB	*	SO	57- 31
79♦	74LS378	TTL	N74F378D(A)	PHIN	*	SO	57- 31
80♦	74LS378	TTL	N74F378D(A)	RTCF	*	SO	57- 31
81♦	74LS378	TTL	N74F378D(A)	SIC	*	SO	57- 31
82♦	74LS378	TTL	N74F378D(A)	VALG	*	SO	57- 31
83♦	74LS378	TTL	N74F378N(A)	MULB		DIP	57- 32
84♦	74LS378	TTL	N74F378N(A)	PHIN		DIP	57- 32
85♦	74LS378	TTL	N74F378N(A)	RTCF		DIP	57- 32
86♦	74LS378	TTL	N74F378N(A)	SIC		DIP	57- 32
87♦	74LS378	TTL	N74F378N(A)	VALG		DIP	57- 32
88♦	74LS378	TTL	SN54LS378J	MOTA		DIP	56-101
89♦	74LS378	TTL	SN54LS378J	TII		DIP	56-101
90	74LS378	TTL	SN74LS378D	TII	*	SO	56-106
91♦	74LS378	TTL	SN74LS378J	MOTA		DIP	56-107
92♦	74LS378	TTL	SN74LS378N	MOTA		DIP	56-108
93♦	74LS378	TTL	SN74LS378N	TII		DIP	56-108
94♦	74LS378	TTL	54F378DM	FSC		DIP	57- 14
95♦	74LS378	TTL	74F378DC	FSC		DIP	57- 23
96	74LS378	TTL	74F378L1C	FSC	*	LLCC	57- 24
97♦	74LS378	TTL	74F378PC	FSC		DIP	57- 25
98	74LS378	TTL	74F378QC	FSC	*	LDCC	57- 26
99	74LS378	TTL	74F378SC	FSC	*	SO	57- 27
100♦	74LS378N	CMOS	SN54HC378J	TII		DIP	56- 22
101▼	74LS378N	CMOS	SN74HC378D	TII	*	SO	56- 31
102♦	74LS378N	CMOS	SN74HC378N	TII		DIP	56- 32
103♦	74LS378N	TTL	N74LS378F	VALG		DIP	56- 97
104♦	74LS378N	TTL	N74LS378N	MULB		DIP	56- 77
105♦	74LS378N	TTL	N74LS378N	PHIN		DIP	56- 77
106♦	74LS378N	TTL	N74LS378N	RTCF		DIP	56- 77
107♦	74LS378N	TTL	N74LS378N	SIC		DIP	56- 77
108♦	74LS378N	TTL	N74LS378N	VALG		DIP	56- 77
109♦	74LS378N	TTL	S54LS378F	MULB		DIP	56- 81
110♦	74LS378N	TTL	S54LS378F	PHIN		DIP	56- 81
111♦	74LS378N	TTL	S54LS378F	RTCF		DIP	56- 81
112♦	74LS378N	TTL	S54LS378F	SIC		DIP	56- 81
113♦	74LS378N	TTL	S54LS378F	VALG		DIP	56- 81
114♦	74LS378N	TTL	54LS378DM(1)	FSC		DIP	56- 57
115♦	74LS378N	TTL	74LS378DC	FSC		DIP	56- 59
116	74LS378N	TTL	74LS378PC	FSC			56- 60
117♦	74LS379	TTL	SN54LS379J	MOTA		DIP	55- 28
118♦	74LS379	TTL	SN54LS379J	TII		DIP	55- 28
119	74LS379	TTL	SN74LS379D	TII	*	SO	55- 33
120♦	74LS379	TTL	SN74LS379J	MOTA		DIP	55- 34
121♦	74LS379	TTL	SN74LS379N	MOTA		DIP	55- 35
122♦	74LS379	TTL	SN74LS379N	TII		DIP	55- 35
123♦	74LS379	TTL	74F379DC	FSC		DIP	55- 73
124	74LS379	TTL	74F379L1C	FSC	*	LLCC	55- 74
125♦	74LS379	TTL	74F379PC	FSC		DIP	55- 75
126	74LS379	TTL	74F379QC	FSC	*	LDCC	55- 76
127	74LS379	TTL	74F379SC	FSC	*	SO	55- 77
128♦	74LS379N	CMOS	SN54HC379J	TII		DIP	54- 26
129▼	74LS379N	CMOS	SN74HC379D	TII	*	SO	54- 44
130♦	74LS379N	CMOS	SN74HC379N	TII		DIP	54- 45
131♦	74LS381	TTL	MC54F381N	MOTA		DIP	220- 72
132♦	74S381	TTL	AM25LS381DC	AMD		DIP	221-100
133♦	74S381	TTL	AM25LS381DCB	AMD		DIP	221-101
134♦	74S381	TTL	AM25LS381DMB	AMD		DIP	221-102
135♦	74S381	TTL	AM25LS381PC	AMD		DIP	221-104
136♦	74S381	TTL	AM25LS381PCB	AMD		DIP	221-105
137♦	74S381	TTL	AM54LS381DC	AMD		DIP	222- 24
138♦	74S381	TTL	AM54LS381DCB	AMD		DIP	222- 25
139♦	74S381	TTL	AM54LS381DM	AMD		DIP	222- 26
140♦	74S381	TTL	AM54LS381DMB	AMD		DIP	222- 27
141♦	74S381	TTL	AM54LS381PC	AMD		DIP	222- 30
142♦	74S381	TTL	AM54LS381PCB	AMD		DIP	222- 31
143♦	74S381	TTL	AM74LS381DC	AMD		DIP	222- 32
144♦	74S381	TTL	AM74LS381DCB	AMD		DIP	222- 33
145♦	74S381	TTL	AM74LS381DM	AMD		DIP	222- 34
146♦	74S381	TTL	AM74LS381DMB	AMD		DIP	222- 35
147♦	74S381	TTL	AM74LS381PC	AMD		DIP	222- 38
148♦	74S381	TTL	AM74LS381PCB	AMD		DIP	222- 39
149♦	74S381	TTL	DM74S381N	NSC		DIP	221- 96
150♦	74S381	TTL	MC54F381J	MOTA		DIP	220- 71
151♦	74S381	TTL	MC74F381J	MOTA		DIP	220- 73
152♦	74S381	TTL	MC74F381N	MOTA		DIP	220- 74
153♦	74S381	TTL	N74F381N(A)	MULB		DIP	220- 66
154♦	74S381	TTL	N74F381N(A)	PHIN		DIP	220- 66
155♦	74S381	TTL	N74F381N(A)	RTCF		DIP	220- 66
156♦	74S381	TTL	N74F381N(A)	SIC		DIP	220- 66
157♦	74S381	TTL	N74F381N(A)	VALG		DIP	220- 66
158♦	74S381	TTL	SN54LS381AJ	TII		DIP	221- 90
159	74S381	TTL	SN54S381-20L	MMI	*	LLCC	221- 65
160	74S381	TTL	SN54S381J	MMI		DIP	221- 11
161♦	74S381	TTL	SN54S381J20	MMI		DIP	221- 68
162	74S381	TTL	SN74LS381ADW	TII	*	SO	221- 91
163♦	74S381	TTL	SN74LS381AN	TII		DIP	221- 92
164♦	74S381	TTL	SN74LS381J	AMD		DIP	222- 40
165♦	74S381	TTL	SN74LS381N	AMD		DIP	222- 41
166	74S381	TTL	SN74S381DW	TII	*	SO	220- 91
167♦	74S381	TTL	SN74S381J20	MMI		DIP	221- 71
168♦	74S381	TTL	SN74S381N	MMI		DIP	221- 93
169♦	74S381	TTL	SN74S381N	TII		DIP	221- 93
170♦	74S381	TTL	SN74S381N20	MMI		DIP	221- 72
171♦	74S381	TTL	54F381DM	FSC		DIP	220- 75
172♦	74S381	TTL	74F381DC	FSC		DIP	220- 81
173♦	74S381	TTL	74F381PC	FSC		DIP	220- 83
174♦	74LS382	TTL	AM25LS2517DC	AMD		DIP	221-106
175♦	74LS382	TTL	AM25LS2517DCB	AMD		DIP	221-107
176♦	74LS382	TTL	AM25LS2517DMB	AMD		DIP	221-108
177	74LS382	TTL	AM25LS2517LC	AMD	*	LLCC	221-110
178	74LS382	TTL	AM25LS2517LM	AMD	*	LLCC	222- 1
179	74LS382	TTL	AM25LS2517LMB	AMD	*	LLCC	222- 2
180♦	74LS382	TTL	AM25LS2517PC	AMD		DIP	222- 3
181♦	74LS382	TTL	AM25LS2517PCB	AMD		DIP	222- 4
182♦	74LS382	TTL	N74F382D(A)	MULB	*	SO	220- 69
183♦	74LS382	TTL	N74F382D(A)	PHIN	*	SO	220- 69
184♦	74LS382	TTL	N74F382D(A)	RTCF	*	SO	220- 69
185♦	74LS382	TTL	N74F382D(A)	SIC	*	SO	220- 69
186♦	74LS382	TTL	N74F382D(A)	VALG	*	SO	220- 69
187♦	74LS382	TTL	N74F382N(A)	MULB		DIP	220- 70
188♦	74LS382	TTL	N74F382N(A)	PHIN		DIP	220- 70
189♦	74LS382	TTL	N74F382N(A)	RTCF		DIP	220- 70
190♦	74LS382	TTL	N74F382N(A)	SIC		DIP	220- 70
191♦	74LS382	TTL	N74F382N(A)	VALG		DIP	220- 70
192	74LS382	TTL	SN74LS382DW	TII	*	SO	222- 42
193♦	74LS382	TTL	54F382DM	FSC		DIP	220- 77
194♦	74LS382	TTL	74F382DC	FSC		DIP	220- 86
195♦	74LS382	TTL	74F382PC	FSC		DIP	220- 88
196♦	74LS384	CMOS	CD74HCT384E	RCA		DIP	202- 73
197♦	74LS384	CMOS	CD74HC384E	RCA		DIP	202- 72
198♦	74LS384	TTL	AM25LS14ADC	AMD		DIP	202- 76
199♦	74LS384	TTL	AM25LS14ADM	AMD		DIP	202- 77
200♦	74LS384	TTL	AM25LS14AFM	AMD	*	FP	202- 78
201♦	74LS384	TTL	AM25LS14APC	AMD		DIP	202- 79
202♦	74LS384	TTL	N74F384N(A)	MULB		DIP	202- 62
203♦	74LS384	TTL	N74F384N(A)	PHIN		DIP	202- 62
204♦	74LS384	TTL	N74F384N(A)	RTCF		DIP	202- 62
205♦	74LS384	TTL	N74F384N(A)	SIC		DIP	202- 62
206♦	74LS384	TTL	N74F384N(A)	VALG		DIP	202- 62
207♦	74LS384	TTL	SN74LS384N	TII		DIP	202- 80
208♦	74LS384	TTL	54F384DM	FSC		DIP	202- 63
209♦	74LS384	TTL	54LS384DM	FSC		DIP	202- 74
210♦	74LS384	TTL	74F384DC	FSC		DIP	202- 67
211♦	74LS384	TTL	74F384PC	FSC		DIP	202- 69
212♦	74LS385	TTL	N74F385D(A)	MULB	*	SO	198- 37
213♦	74LS385	TTL	N74F385D(A)	PHIN	*	SO	198- 37
214♦	74LS385	TTL	N74F385D(A)	RTCF	*	SO	198- 37
215♦	74LS385	TTL	N74F385D(A)	SIC	*	SO	198- 37
216♦	74LS385	TTL	N74F385D(A)	VALG	*	SO	198- 37
217♦	74LS385	TTL	N74F385N(A)	MULB		DIP	198- 38
218♦	74LS385	TTL	N74F385N(A)	PHIN		DIP	198- 38
219♦	74LS385	TTL	N74F385N(A)	RTCF		DIP	198- 38
220♦	74LS385	TTL	N74F385N(A)	SIC		DIP	198- 38

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74LS385	TTL	N74F385N(A)	VALG		DIP	198- 38
2♦	74LS385	TTL	54F385DM	FSC		DIP	198- 30
3♦	74LS385	TTL	74F385DC	FSC		DIP	198- 32
4♦	74LS385	TTL	74F385PC	FSC		DIP	198- 34
5	74LS385N	TTL	AM25LS15DC	AMD		DIP	198- 28
6	74LS385N	TTL	AM25LS15PC	AMD		DIP	198- 29
7♦	74LS385N	TTL	SN54LS385J	MOTA		DIP	198- 39
8♦	74LS385N	TTL	SN54LS385J	TII		DIP	198- 39
9▼	74LS385N	TTL	SN54LS385N	MOTA		DIP	198- 40
10♦	74LS385N	TTL	SN74LS385J	MOTA		DIP	198- 26
11♦	74LS385N	TTL	SN74LS385N	MOTA		DIP	198- 27
12♦	74LS385N	TTL	SN74LS385N	TII		DIP	198- 27
13♦	74-390	CMOS	CD74HCT390M(A)	RCA		SO	182- 31
14♦	74-390	CMOS	CD74HC390M(A)	RCA		SO	181- 87
15♦	74-390	CMOS	M54HC390F1(A)	SGSI		DIP	182- 41
16♦	74-390	CMOS	M74HC390B1(A)	SGSI		DIP	182- 21
17♦	74-390	CMOS	M74HC390F1(A)	SGSI		DIP	182- 22
18♦	74-390	CMOS	PC54HCT390D(A)	MULB		DIP	182- 35
19♦	74-390	CMOS	PC54HCT390D(A)	PHIN		DIP	182- 35
20♦	74-390	CMOS	PC54HCT390D(A)	RTCF		DIP	182- 35
21♦	74-390	CMOS	PC54HCT390D(A)	VALG		DIP	182- 35
22♦	74-390	CMOS	PC54HC390D(A)	MULB		DIP	182- 34
23♦	74-390	CMOS	PC54HC390D(A)	PHIN		DIP	182- 34
24♦	74-390	CMOS	PC54HC390D(A)	RTCF		DIP	182- 34
25♦	74-390	CMOS	PC54HC390D(A)	VALG		DIP	182- 34
26♦	74-390	CMOS	PC74HCT390D(A)	MULB		DIP	182- 39
27♦	74-390	CMOS	PC74HCT390D(A)	PHIN		DIP	182- 39
28♦	74-390	CMOS	PC74HCT390D(A)	RTCF		DIP	182- 39
29♦	74-390	CMOS	PC74HCT390D(A)	VALG		DIP	182- 39
30♦	74-390	CMOS	PC74HCT390P	MULB		DIP	182- 4
31♦	74-390	CMOS	PC74HCT390P	PHIN		DIP	182- 4
32♦	74-390	CMOS	PC74HCT390P	RTCF		DIP	182- 4
33♦	74-390	CMOS	PC74HCT390P	VALG		DIP	182- 4
34♦	74-390	CMOS	PC74HCT390T	MULB	*	SO	182- 10
35♦	74-390	CMOS	PC74HCT390T	PHIN	*	SO	182- 10
36♦	74-390	CMOS	PC74HCT390T	RTCF	*	SO	182- 10
37♦	74-390	CMOS	PC74HCT390T	VALG	*	SO	182- 10
38♦	74-390	CMOS	PC74HC390D(A)	MULB		DIP	182- 36
39♦	74-390	CMOS	PC74HC390D(A)	PHIN		DIP	182- 36
40♦	74-390	CMOS	PC74HC390D(A)	RTCF		DIP	182- 36
41♦	74-390	CMOS	PC74HC390D(A)	VALG		DIP	182- 36
42♦	74-390	CMOS	PC74HC390P	MULB		DIP	182- 37
43♦	74-390	CMOS	PC74HC390P	PHIN		DIP	182- 37
44♦	74-390	CMOS	PC74HC390P	RTCF		DIP	182- 37
45♦	74-390	CMOS	PC74HC390P	VALG		DIP	182- 37
46♦	74-390	CMOS	PC74HC390T	MULB	*	SO	182- 38
47♦	74-390	CMOS	PC74HC390T	PHIN	*	SO	182- 38
48♦	74-390	CMOS	PC74HC390T	RTCF	*	SO	182- 38
49♦	74-390	CMOS	PC74HC390T	VALG	*	SO	182- 38
50♦	74-390	CMOS	UPD74HC390C(A)	NECJ		DIP	182- 40
51♦	74-390	CMOS	74HCT390N	SIC		DIP	182- 16
52♦	74-390	CMOS	74HC390D	SIC	*	SO	182- 19
53♦	74-390	CMOS	74HC390N	SIC		DIP	182- 20
54♦	74-390	TTL	DM54LS390W	NSC	*	FP	182- 26
55♦	74-390	TTL	DN74LS390P2	MATJ		DIP	181- 67
56♦	74-390	TTL	DN74LS390P5	MATJ	*	SO	181- 68
57♦	74-390	TTL	SN74LS390D	TII	*	SO	181- 76
58♦	74-390N	CMOS	CD54HCT390F	RCA		DIP	182- 33
59♦	74-390N	CMOS	CD54HC390F	RCA		DIP	182- 32
60♦	74-390N	CMOS	CD74HCT390E	RCA		DIP	182- 30
61♦	74-390N	CMOS	CD74HC390E	RCA		DIP	182- 29
62▼	74-390N	CMOS	HD74HC390FP	HITJ	*	SO	182- 13
63▼	74-390N	CMOS	HD74HC390P	HITJ		DIP	182- 14
64♦	74-390N	CMOS	MC54HC390J(A)	MOTA		DIP	182- 23
65♦	74-390N	CMOS	MC74HC390J(A)	MOTA		DIP	182- 24
66♦	74-390N	CMOS	MC74HC390N(A)	MOTA		DIP	182- 25
67♦	74-390N	CMOS	MM74HC390J	NSC		DIP	182- 17
68♦	74-390N	CMOS	MM74HC390N	NSC		DIP	182- 18
69♦	74-390N	CMOS	TC40H390P	IMTM		DIP	168- 4
70♦	74-390N	CMOS	TC40H390P	TOSJ		DIP	168- 4
71▼	74-390N	CMOS	TC74HC390F(A)	TOSA	*	SO	182- 42
72▼	74-390N	CMOS	TC74HC390P(A)	TOSA		DIP	182- 43
73♦	74-390N	CMOS	54HCT390C(A)	STX		DIP	181-110
74♦	74-390N	CMOS	54HCT390D(A)	STX		DIP	182- 1
75♦	74-390N	CMOS	74HCT390C(A)	STX		DIP	182- 2
76♦	74-390N	CMOS	74HCT390D(A)	SIC	*	SO	182- 15
77♦	74-390N	CMOS	74HCT390D(A)	STX	*	SO	182- 15
78♦	74-390N	CMOS	74HCT390P(A)	STX		DIP	182- 3
79♦	74-390N	CMOS	74SC390C(A)	STX		DIP	182- 7
80♦	74-390N	CMOS	74SC390D(A)	STX		DIP	182- 8
81♦	74-390N	CMOS	74SC390P(A)	STX		DIP	182- 9
82♦	74-390N	TTL	DM74LS390N	NSC		DIP	181- 66
83▼	74-390N	TTL	HD74LS390G	HITJ		DIP	181- 43
84♦	74-390N	TTL	HD74LS390P	HITJ		DIP	181- 44
85♦	74-390N	TTL	M74LS390P	MITA		DIP	181- 96
86♦	74-390N	TTL	M74LS390P	MITJ		DIP	181- 96
87♦	74-390N	TTL	N74LS390D	MULB		DIP	181- 54
88♦	74-390N	TTL	N74LS390D	PHIN		DIP	181- 54
89♦	74-390N	TTL	N74LS390D	RTCF		DIP	181- 54
90♦	74-390N	TTL	N74LS390D	SIC		DIP	181- 54
91♦	74-390N	TTL	N74LS390D	VALG		DIP	181- 54
92♦	74-390N	TTL	N74LS390N	MULB		DIP	181- 55
93♦	74-390N	TTL	N74LS390N	PHIN		DIP	181- 55
94♦	74-390N	TTL	N74LS390N	RTCF		DIP	181- 55
95♦	74-390N	TTL	N74LS390N	SIC		DIP	181- 55
96♦	74-390N	TTL	N74LS390N	VALG		DIP	181- 55
97♦	74-390N	TTL	SN54LS390J	MOTA		DIP	182- 27
98♦	74-390N	TTL	SN54LS390J	TII		DIP	182- 27
99▼	74-390N	TTL	SN54LS390N	MOTA		DIP	182- 28
100♦	74-390N	TTL	SN54390J	TII		DIP	181- 81
101♦	74-390N	TTL	SN74LS390J	MOTA		DIP	181- 77
102♦	74-390N	TTL	SN74LS390N	MOTA		DIP	181- 78
103♦	74-390N	TTL	SN74LS390N	TII		DIP	181- 78
104♦	74-390N	TTL	SN74390N	TII		DIP	181- 82
105♦	74-390N	TTL	S54LS390F	MULB		DIP	182- 11
106♦	74-390N	TTL	S54LS390F	PHIN		DIP	182- 11
107♦	74-390N	TTL	S54LS390F	RTCF		DIP	182- 11
108♦	74-390N	TTL	S54LS390F	VALG		DIP	182- 11
109♦	74-390N	TTL	54LS390DM	FSC		DIP	182- 5
110♦	74-390N	TTL	74LS390DC	FSC		DIP	181- 37
111♦	74-390N	TTL	74LS390PC	FSC		DIP	181- 38
112♦	74-393	CMOS	CD54HCT393F	RCA		DIP	165- 30
113♦	74-393	CMOS	CD54HC393F	RCA		DIP	165- 23
114♦	74-393	CMOS	CD74HCT393E	RCA		DIP	165- 21
115♦	74-393	CMOS	CD74HCT393M	RCA	*	SO	165- 22
116♦	74-393	CMOS	CD74HC393E	RCA		DIP	165- 19
117♦	74-393	CMOS	CD74HC393M	RCA	*	SO	165- 20
118♦	74-393	CMOS	M54HC393F1(A)	SGSI		DIP	165- 32
119♦	74-393	CMOS	M74HC393B1(A)	SGSI		DIP	164-108
120♦	74-393	CMOS	M74HC393F1(A)	SGSI		DIP	164-110
121♦	74-393	CMOS	PC54HCT393D(A)	MULB		DIP	164- 64
122♦	74-393	CMOS	PC54HCT393D(A)	PHIN		DIP	164- 64
123♦	74-393	CMOS	PC54HCT393D(A)	RTCF		DIP	164- 64
124♦	74-393	CMOS	PC54HCT393D(A)	VALG		DIP	164- 64
125♦	74-393	CMOS	PC54HC393D(A)	MULB		DIP	164- 82
126♦	74-393	CMOS	PC54HC393D(A)	PHIN		DIP	164- 82
127♦	74-393	CMOS	PC54HC393D(A)	RTCF		DIP	164- 82
128♦	74-393	CMOS	PC54HC393D(A)	VALG		DIP	164- 82
129♦	74-393	CMOS	PC74HCT393D(A)	MULB		DIP	164- 91
130♦	74-393	CMOS	PC74HCT393D(A)	PHIN		DIP	164- 91
131♦	74-393	CMOS	PC74HCT393D(A)	RTCF		DIP	164- 91
132♦	74-393	CMOS	PC74HCT393D(A)	VALG		DIP	164- 91
133♦	74-393	CMOS	PC74HCT393P	MULB		DIP	164- 65
134♦	74-393	CMOS	PC74HCT393P	PHIN		DIP	164- 65
135♦	74-393	CMOS	PC74HCT393P	RTCF		DIP	164- 65
136♦	74-393	CMOS	PC74HCT393P	VALG		DIP	164- 65
137♦	74-393	CMOS	PC74HCT393T	MULB	*	SO	164- 85
138♦	74-393	CMOS	PC74HCT393T	PHIN	*	SO	164- 85
139♦	74-393	CMOS	PC74HCT393T	RTCF	*	SO	164- 85
140♦	74-393	CMOS	PC74HCT393T	VALG	*	SO	164- 85
141♦	74-393	CMOS	PC74HC393D(A)	MULB		DIP	164- 94
142♦	74-393	CMOS	PC74HC393D(A)	PHIN		DIP	164- 94
143♦	74-393	CMOS	PC74HC393D(A)	RTCF		DIP	164- 94
144♦	74-393	CMOS	PC74HC393D(A)	VALG		DIP	164- 94
145♦	74-393	CMOS	PC74HC393P	MULB		DIP	164- 95
146♦	74-393	CMOS	PC74HC393P	PHIN		DIP	164- 95
147♦	74-393	CMOS	PC74HC393P	RTCF		DIP	164- 95
148♦	74-393	CMOS	PC74HC393P	VALG		DIP	164- 95
149♦	74-393	CMOS	PC74HC393T	MULB	*	SO	164- 96
150♦	74-393	CMOS	PC74HC393T	PHIN	*	SO	164- 96
151♦	74-393	CMOS	PC74HC393T	RTCF	*	SO	164- 96
152♦	74-393	CMOS	PC74HC393T	VALG	*	SO	164- 96
153♦	74-393	CMOS	UPD74HC393C(A)	NECJ		DIP	165- 31
154♦	74-393	TTL	DN74LS393P1	MATJ		DIP	165- 10
155♦	74-393	TTL	DN74LS393P4	MATJ	*	SO	165- 11
156♦	74-393	TTL	SN74LS393D	TII	*	SO	165- 14
157▼	74-393N	CMOS	HD74HC393FP	HITJ	*	SO	164- 79
158▼	74-393N	CMOS	HD74HC393P	HITJ		DIP	164- 80
159♦	74-393N	CMOS	MC54HC393J(A)	MOTA		DIP	165- 4
160♦	74-393N	CMOS	MC74HC393J(A)	MOTA		DIP	165- 5
161♦	74-393N	CMOS	MC74HC393N(A)	MOTA		DIP	165- 6
162♦	74-393N	CMOS	MM54HC393J	NSC		DIP	164- 81
163♦	74-393N	CMOS	MM74HC393J	NSC		DIP	164- 92
164♦	74-393N	CMOS	MM74HC393N	NSC		DIP	164- 93
165♦	74-393N	CMOS	SN54HC393J(A)	TII		DIP	164- 13
166♦	74-393N	CMOS	SN74HC393N	TII		DIP	164-103
167♦	74-393N	CMOS	TC40H393P	IMTM		DIP	165- 8
168♦	74-393N	CMOS	TC40H393P	TOSJ		DIP	165- 8
169▼	74-393N	CMOS	TC74HC393F(A)	TOSA	*	SO	165- 33
170▼	74-393N	CMOS	TC74HC393P(A)	TOSA		DIP	165- 34
171♦	74-393N	CMOS	54HCT393C(A)	STX		DIP	164- 7
172♦	74-393N	CMOS	54HCT393D(A)	STX		DIP	164- 8
173♦	74-393N	CMOS	74HCT393C(A)	STX		DIP	164- 9
174♦	74-393N	CMOS	74HCT393D(A)	SIC		DIP	164- 10
175♦	74-393N	CMOS	74HCT393D(A)	STX		DIP	164- 10
176♦	74-393N	CMOS	74HCT393N	SIC		DIP	164- 90
177♦	74-393N	CMOS	74HCT393P(A)	STX		DIP	164- 11
178♦	74-393N	CMOS	74HC393D	SIC	*	SO	164-104
179♦	74-393N	CMOS	74HC393N	SIC		DIP	164-105
180♦	74-393N	CMOS	74SC393C(A)	STX		DIP	164- 72
181♦	74-393N	CMOS	74SC393D(A)	STX		DIP	164- 73
182♦	74-393N	CMOS	74SC393P(A)	STX		DIP	164- 74
183♦	74-393N	TTL	DM74LS393N	NSC		DIP	157- 75
184▼	74-393N	TTL	HD74LS393G	HITJ		DIP	164- 97
185♦	74-393N	TTL	HD74LS393P	HITJ		DIP	164- 98
186♦	74-393N	TTL	M74LS393P	MITA		DIP	165- 36
187♦	74-393N	TTL	M74LS393P	MITJ		DIP	165- 36
188♦	74-393N	TTL	N74LS393D	MULB		DIP	164- 99
189♦	74-393N	TTL	N74LS393D	PHIN		DIP	164- 99
190♦	74-393N	TTL	N74LS393D	RTCF		DIP	164- 99
191♦	74-393N	TTL	N74LS393D	SIC		DIP	164- 99
192♦	74-393N	TTL	N74LS393D	VALG		DIP	164- 99
193♦	74-393N	TTL	N74LS393N	MULB		DIP	164-100
194♦	74-393N	TTL	N74LS393N	PHIN		DIP	164-100
195♦	74-393N	TTL	N74LS393N	RTCF		DIP	164-100
196♦	74-393N	TTL	N74LS393N	SIC		DIP	164-100
197♦	74-393N	TTL	N74LS393N	VALG		DIP	164-100
198♦	74-393N	TTL	SN54LS393J	MOTA		DIP	165- 12
199♦	74-393N	TTL	SN54LS393J	TII		DIP	165- 12
200▼	74-393N	TTL	SN54LS393N	MOTA		DIP	165- 13
201♦	74-393N	TTL	SN54393J	TII		DIP	165- 17
202♦	74-393N	TTL	SN74LS393J	MOTA		DIP	165- 15
203♦	74-393N	TTL	SN74LS393N	MOTA		DIP	165- 16
204♦	74-393N	TTL	SN74LS393N	TII		DIP	165- 16
205♦	74-393N	TTL	SN74393N	TII		DIP	165- 18
206♦	74-393N	TTL	S54LS393F	MULB		DIP	164-101
207♦	74-393N	TTL	S54LS393F	PHIN		DIP	164-101
208♦	74-393N	TTL	S54LS393F	RTCF		DIP	164-101
209♦	74-393N	TTL	S54LS393F	SIC		DIP	164-101
210♦	74-393N	TTL	S54LS393F	VALG		DIP	164-101
211♦	74-393N	TTL	54LS393DM	FSC		DIP	164- 66
212♦	74-393N	TTL	74LS393DC	FSC		DIP	164- 70
213♦	74-393N	TTL	74LS393PC	FSC		DIP	164- 71
214♦	74-402	TTL	M54402P	MITJ		DIP	125- 20
215♦	74-406	TTL	N82S50F	MULB		DIP	125- 34
216♦	74-406	TTL	N82S50F	PHIN		DIP	125- 34
217♦	74-406	TTL	N82S50F	VALG		DIP	125- 34
218♦	74-406	TTL	N82S50N	MULB		DIP	125- 35
219♦	74-406	TTL	N82S50N	PHIN		DIP	125- 35
220♦	74-406	TTL	N82S50N	SIC		DIP	125- 35

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74-406	TTL	N82S50N	VALG		DIP	125- 35
2♦	74-406	TTL	N8250F	MULB		DIP	125- 36
3♦	74-406	TTL	N8250F	PHIN		DIP	125- 36
4♦	74-406	TTL	N8250F	VALG		DIP	125- 36
5♦	74-406	TTL	N8250N	MULB		DIP	125- 37
6♦	74-406	TTL	N8250N	PHIN		DIP	125- 37
7♦	74-406	TTL	N8250N	VALG		DIP	125- 37
8♦	74-406	TTL	S8250A(1)	SIC		DIP	125- 45
9♦	74-406	TTL	S8250F	MULB		DIP	125- 46
10♦	74-406	TTL	S8250F	PHIN		DIP	125- 46
11♦	74-406	TTL	S8250F	SIC		DIP	125- 46
12♦	74-408N	TTL	MC4008L	MOTA		DIP	226- 13
13♦	74-408N	TTL	MC4008P	MOTA		DIP	226- 14
14♦	74-408N	TTL	MC4308L	MOTA		DIP	226- 16
15♦	74S412	TTL	N74F412D(A)	MULB		DIP	235- 5
16♦	74S412	TTL	N74F412D(A)	PHIN		DIP	235- 5
17♦	74S412	TTL	N74F412D(A)	RTCF		DIP	235- 5
18♦	74S412	TTL	N74F412D(A)	SIC		DIP	235- 5
19♦	74S412	TTL	N74F412D(A)	VALG		DIP	235- 5
20♦	74S412	TTL	N74F412N(A)	MULB		DIP	235- 6
21♦	74S412	TTL	N74F412N(A)	PHIN		DIP	235- 6
22♦	74S412	TTL	N74F412N(A)	RTCF		DIP	235- 6
23♦	74S412	TTL	N74F412N(A)	SIC		DIP	235- 6
24♦	74S412	TTL	N74F412N(A)	VALG		DIP	235- 6
25▼	74S412	TTL	N74F432D(A)	FSC	*	SO	235- 62
26▼	74S412	TTL	N74F432D(A)	PHIN	*	SO	235- 62
27▼	74S412	TTL	N74F432N(A)	FSC		DIP	235- 63
28▼	74S412	TTL	N74F432N(A)	PHIN		DIP	235- 63
29♦	74S412	TTL	54F412DM	FSC		DIP	235- 35
30♦	74S412	TTL	54F432DM	FSC		DIP	235- 7
31♦	74S412	TTL	54F432SDM	FSC		DIP	235- 9
32♦	74S412	TTL	74F412DC	FSC		DIP	234-106
33♦	74S412	TTL	74F412PC	FSC		DIP	234-108
34♦	74S412	TTL	74F432PC	FSC		DIP	235- 51
35♦	74S412	TTL	74F432SDC	FSC		DIP	235- 54
36♦	74S412	TTL	74F432SPC	FSC		DIP	235- 55
37♦	74S412N	TTL	SN74S412N	TII		DIP	237- 39
38♦	74-415	TTL	MC4015L	MOTA		DIP	49- 75
39♦	74-415	TTL	MC4015P	MOTA		DIP	49- 76
40♦	74-421	TTL	MC4021P	MOTA		DIP	215- 42
41♦	74-422	TTL	MC4022P	MOTA		DIP	215- 43
42♦	74-422	TTL	SN74LS422N	TII		DIP	189- 8
43▼	74HC423	CMOS	HD74HC423AFP(A)	HITJ	*	SO	188- 29
44▼	74HC423	CMOS	HD74HC423AP(A)	HITJ		DIP	188- 30
45♦	74HC423	CMOS	MM54HC423J	NSC		DIP	190- 89
46♦	74HC423	CMOS	MM74HC423J	NSC		DIP	190- 96
47♦	74HC423	CMOS	MM74HC423N	NSC		DIP	190- 97
48▼	74HC423	CMOS	M74HC423B1	SGSI		DIP	190- 37
49▼	74HC423	CMOS	M74HC423F1	SGSI		DIP	190- 39
50♦	74HC423	CMOS	PC54HCT423D(A)	MULB		DIP	191- 10
51♦	74HC423	CMOS	PC54HCT423D(A)	PHIN		DIP	191- 10
52♦	74HC423	CMOS	PC54HCT423D(A)	RTCF		DIP	191- 10
53♦	74HC423	CMOS	PC54HCT423D(A)	VALG		DIP	191- 10
54♦	74HC423	CMOS	PC54HC423D(A)	MULB		DIP	191- 6
55♦	74HC423	CMOS	PC54HC423D(A)	PHIN		DIP	191- 6
56♦	74HC423	CMOS	PC54HC423D(A)	RTCF		DIP	191- 6
57♦	74HC423	CMOS	PC54HC423D(A)	VALG		DIP	191- 6
58♦	74HC423	CMOS	PC74HCT423D(A)	MULB		DIP	191- 30
59♦	74HC423	CMOS	PC74HCT423D(A)	PHIN		DIP	191- 30
60♦	74HC423	CMOS	PC74HCT423D(A)	RTCF		DIP	191- 30
61♦	74HC423	CMOS	PC74HCT423D(A)	VALG		DIP	191- 30
62♦	74HC423	CMOS	PC74HCT423P	MULB		DIP	191- 31
63♦	74HC423	CMOS	PC74HCT423P	PHIN		DIP	191- 31
64♦	74HC423	CMOS	PC74HCT423P	RTCF		DIP	191- 31
65♦	74HC423	CMOS	PC74HCT423P	VALG		DIP	191- 31
66	74HC423	CMOS	PC74HCT423T	MULB	*	SO	191- 32
67	74HC423	CMOS	PC74HCT423T	PHIN	*	SO	191- 32
68	74HC423	CMOS	PC74HCT423T	RTCF	*	SO	191- 32
69	74HC423	CMOS	PC74HCT423T	VALG	*	SO	191- 32
70♦	74HC423	CMOS	PC74HC423D(A)	MULB		DIP	191- 18
71♦	74HC423	CMOS	PC74HC423D(A)	PHIN		DIP	191- 18
72♦	74HC423	CMOS	PC74HC423D(A)	RTCF		DIP	191- 18
73♦	74HC423	CMOS	PC74HC423D(A)	VALG		DIP	191- 18
74♦	74HC423	CMOS	PC74HC423P	MULB		DIP	191- 19
75♦	74HC423	CMOS	PC74HC423P	PHIN		DIP	191- 19
76♦	74HC423	CMOS	PC74HC423P	RTCF		DIP	191- 19
77♦	74HC423	CMOS	PC74HC423P	VALG		DIP	191- 19
78	74HC423	CMOS	PC74HC423T	MULB	*	SO	191- 20
79	74HC423	CMOS	PC74HC423T	PHIN	*	SO	191- 20
80	74HC423	CMOS	PC74HC423T	RTCF	*	SO	191- 20
81	74HC423	CMOS	PC74HC423T	VALG	*	SO	191- 20
82▼	74HC423	CMOS	TC74HC423F(A)	TOSA	*	SO	191- 72
83▼	74HC423	CMOS	TC74HC423P(A)	TOSA		DIP	191- 73
84	74HC423	CMOS	74HCT423D	SIC	*	SO	189- 31
85♦	74HC423	CMOS	74HCT423N	SIC		DIP	189- 32
86	74HC423	CMOS	74HC423D	SIC	*	SO	189- 23
87♦	74HC423	CMOS	74HC423N	SIC		DIP	189- 24
88♦	74HC423	TTL	M74LS423P	MITA		DIP	190- 45
89♦	74HC423	TTL	M74LS423P	MITJ		DIP	190- 45
90	74HC423	TTL	SN74LS423D	TII	*	SO	191- 62
91♦	74HC423	TTL	SN74LS423N	TII		DIP	191- 63
92♦	74LS442N	CMOS	MC4042L,P	MOTA		DIP	246- 50
93♦	74-450	TTL	MC4050L	MOTA		DIP	184- 19
94♦	74-450	TTL	MC4050P	MOTA		DIP	184- 20
95♦	74LS460	TTL	DM54LS460J	NSC		DIP	219- 26
96♦	74LS460	TTL	DM74LS460J	NSC		DIP	219- 16
97♦	74LS460	TTL	DM74LS460N	NSC		DIP	219- 17
98	74LS460	TTL	SN54LS460F	MMI	*	FP	219- 27
99♦	74LS460	TTL	SN54LS460JS	MMI		DIP	219- 28
100♦	74LS460	TTL	SN74LS460JS	MMI		DIP	219- 24
101♦	74LS460	TTL	SN74LS460NS	MMI		DIP	219- 25
102♦	74LS461	TTL	DM54LS461J	NSC		DIP	169- 3
103♦	74LS461	TTL	DM74LS461J	NSC		DIP	169- 7
104♦	74LS461	TTL	DM74LS461N	NSC		DIP	169- 8
105♦	74LS461	TTL	SN74LS461JS	MMI		DIP	169- 10
106♦	74LS461	TTL	SN74LS461NS	MMI		DIP	169- 11
107♦	74LS469	TTL	DM54LS469J	NSC		DIP	169- 4
108♦	74LS469	TTL	DM74LS469J	NSC		DIP	169- 9
109♦	74LS469	TTL	SN54LS469AJS	MMI		DIP	169- 58
110♦	74LS469	TTL	SN54LS469AW	MMI		DIP	169- 59
111♦	74LS469	TTL	SN54LS469A28L	MMI	*	LDCC	169- 60
112♦	74LS469	TTL	SN54LS469F	MMI		DIP	169- 54
113♦	74LS469	TTL	SN54LS469JS	MMI		DIP	169- 55
114♦	74LS469	TTL	SN74LS469AJS	MMI		DIP	169- 61
115♦	74LS469	TTL	SN74LS469ANS	MMI		DIP	169- 62
116♦	74LS469	TTL	SN74LS469JS	MMI		DIP	169- 56
117♦	74LS469	TTL	SN74LS469NS	MMI		DIP	169- 57
118♦	74-490	TTL	DN74LS490P2	MATJ		DIP	181- 69
119♦	74-490	TTL	DN74LS490P5	MATJ	*	SO	181- 70
120▼	74-490	TTL	HD74LS490G	HITJ		DIP	181- 52
121♦	74-490	TTL	HD74LS490P	HITJ		DIP	181- 53
122▼	74-490N	CMOS	HD74HC490FP	HITJ	*	SO	181- 29
123▼	74-490N	CMOS	HD74HC490P	HITJ		DIP	181- 30
124▼	74-490N	CMOS	SN74HC490D	TII	*	SO	181- 57
125♦	74-490N	TTL	M74LS490P	MITA		DIP	180- 98
126♦	74-490N	TTL	M74LS490P	MITJ		DIP	180- 98
127♦	74-490N	TTL	N74LS490F	MULB		DIP	181- 56
128♦	74-490N	TTL	N74LS490F	PHIN		DIP	181- 56
129♦	74-490N	TTL	N74LS490F	RTCF		DIP	181- 56
130♦	74-490N	TTL	N74LS490F	VALG		DIP	181- 56
131♦	74-490N	TTL	N74LS490N	MULB		DIP	181- 71
132♦	74-490N	TTL	N74LS490N	PHIN		DIP	181- 71
133♦	74-490N	TTL	N74LS490N	RTCF		DIP	181- 71
134♦	74-490N	TTL	N74LS490N	SIC		DIP	181- 71
135♦	74-490N	TTL	N74LS490N	VALG		DIP	181- 71
136♦	74-490N	TTL	SN54LS490J	MOTA		DIP	181- 74
137♦	74-490N	TTL	SN54LS490J	TII		DIP	181- 74
138▼	74-490N	TTL	SN54LS490N	MOTA		DIP	181- 75
139♦	74-490N	TTL	SN74LS490J	MOTA		DIP	181- 79
140♦	74-490N	TTL	SN74LS490N	MOTA		DIP	181- 80
141♦	74-490N	TTL	SN74LS490N	TII		DIP	181- 80
142♦	74-490N	TTL	SN74490N	TII		DIP	181- 83
143♦	74-490N	TTL	S54LS490F	MULB		DIP	181- 72
144♦	74-490N	TTL	S54LS490F	PHIN		DIP	181- 72
145♦	74-490N	TTL	S54LS490F	RTCF		DIP	181- 72
146♦	74-490N	TTL	S54LS490F	SIC		DIP	181- 72
147♦	74-490N	TTL	S54LS490F	VALG		DIP	181- 72
148♦	74-490N	TTL	54LS490DM	FSC		DIP	181- 84
149♦	74-490N	TTL	74LS490PC	FSC			181- 86
150♦	74LS491	TTL	DM54LS491J	NSC		DIP	169- 90
151♦	74LS491	TTL	DM74LS491J	NSC		DIP	169- 93
152♦	74LS491	TTL	DM74LS491N	NSC		DIP	169- 94
153♦	74LS491	TTL	SN54LS491AJS	MMI		DIP	169- 82
154♦	74LS491	TTL	SN54LS491AW	MMI	*	FP	169- 83
155♦	74LS491	TTL	SN54LS491A28L	MMI	*	LLCC	169- 84
156♦	74LS491	TTL	SN54LS491JS	MMI		DIP	169- 92
157♦	74LS491	TTL	SN74LS491AJS	MMI		DIP	169- 85
158♦	74LS491	TTL	SN74LS491ANS	MMI		DIP	169- 86
159♦	74LS491	TTL	SN74LS491A28L	MMI	*	LLCC	169- 87
160♦	74LS491	TTL	SN74LS491NS	MMI		DIP	169- 96
161♦	74S508	TTL	SN54S508TD24	MMI		DIP	203- 71
162♦	74S508	TTL	SN74S508TD24	MMI		DIP	203- 73
163♦	74S516	SCH	SN54S516T24	MMI		DIP	206- 69
164▼	74ALS518	TTL	SN74ALS518DW	TII	*	SO	216- 22
165♦	74ALS518	TTL	SN74ALS518N	TII		DIP	216- 23
166♦	74LS518	TTL	DM54ALS518J	NSC		DIP	216- 26
167♦	74LS518	TTL	DM54ALS519J	NSC		DIP	216- 27
168♦	74LS518	TTL	DM74ALS518J	NSC		DIP	216- 18
169♦	74LS518	TTL	DM74ALS518N	NSC		DIP	216- 19
170♦	74LS518	TTL	DM74ALS519J	NSC		DIP	216- 20
171♦	74LS518	TTL	DM74ALS519N	NSC		DIP	216- 21
172▼	74ALS519	TTL	SN74ALS519DW	TII	*	SO	216- 24
173♦	74ALS519	TTL	SN74ALS519N	TII		DIP	216- 25
174♦	74ALS520	TTL	SN54ALS520J	TII		DIP	216- 12
175▼	74ALS520	TTL	SN74ALS520DW	TII	*	SO	215-110
176♦	74ALS520	TTL	SN74ALS520N	TII		DIP	216- 1
177♦	74F521	TTL	MC54F521J	MOTA		DIP	215- 75
178♦	74F521	TTL	MC54F521N	MOTA		DIP	215- 76
179♦	74F521	TTL	MC74F521J	MOTA		DIP	215- 77
180♦	74F521	TTL	MC74F521N	MOTA		DIP	215- 78
181♦	74F521	TTL	N74F521F	VALG		DIP	215- 79
182▼	74F521	TTL	SN74ALS521DW	TII	*	SO	216- 2
183♦	74F521	TTL	SN74ALS521N	TII		DIP	216- 3
184♦	74F521	TTL	S54F521F	MULB		DIP	215- 93
185♦	74F521	TTL	S54F521F	PHIN		DIP	215- 93
186♦	74F521	TTL	S54F521F	RTCF		DIP	215- 93
187♦	74F521	TTL	S54F521F	SIC		DIP	215- 93
188♦	74F521	TTL	S54F521F	VALG		DIP	215- 93
189♦	74LS521	CMOS	IDT54AHCT521D	IDT		DIP	215- 61
190♦	74LS521	CMOS	IDT54AHCT521DB	IDT		DIP	215- 62
191♦	74LS521	CMOS	IDT54FCT521ADB	IDT		DIP	215- 72
192▼	74LS521	CMOS	IDT54FCT521AEB	IDT	*	FP	215- 73
193▼	74LS521	CMOS	IDT54FCT521ALB	IDT	*	LLCC	215- 74
194♦	74LS521	CMOS	IDT54FCT521DB	IDT		DIP	215- 98
195♦	74LS521	CMOS	IDT74AHCT521D	IDT		DIP	215- 64
196▼	74LS521	CMOS	IDT74FCT521AD	IDT		DIP	215- 67
197▼	74LS521	CMOS	IDT74FCT521AJ	IDT	*	LDCC	215- 68
198▼	74LS521	CMOS	IDT74FCT521AL	IDT	*	LLCC	215- 69
199▼	74LS521	CMOS	IDT74FCT521AP	IDT		DIP	215- 70
200▼	74LS521	CMOS	IDT74FCT521ASO	IDT	*	SO	215- 71
201♦	74LS521	CMOS	IDT74FCT521D	IDT		DIP	215- 86
202♦	74LS521	TTL	DM54ALS520J	NSC		DIP	216- 8
203♦	74LS521	TTL	DM54ALS521J	NSC		DIP	216- 9
204♦	74LS521	TTL	DM54ALS522J	NSC		DIP	216- 17
205♦	74LS521	TTL	DM74ALS520J	NSC		DIP	215-106
206♦	74LS521	TTL	DM74ALS520N	NSC		DIP	215-107
207♦	74LS521	TTL	DM74ALS521J	NSC		DIP	215-108
208♦	74LS521	TTL	DM74ALS521N	NSC		DIP	215-109
209♦	74LS521	TTL	DM74ALS522J	NSC		DIP	216- 10
210♦	74LS521	TTL	DM74ALS522N	NSC		DIP	216- 11
211♦	74LS521	TTL	N74F521D	MULB	*	SO	215- 91
212♦	74LS521	TTL	N74F521D	PHIN	*	SO	215- 91
213♦	74LS521	TTL	N74F521D	RTCF	*	SO	215- 91
214♦	74LS521	TTL	N74F521D	SIC	*	SO	215- 91
215♦	74LS521	TTL	N74F521D	VALG	*	SO	215- 91
216♦	74LS521	TTL	N74F521N	MULB		DIP	215- 92
217♦	74LS521	TTL	N74F521N	PHIN		DIP	215- 92
218♦	74LS521	TTL	N74F521N	RTCF		DIP	215- 92
219♦	74LS521	TTL	N74F521N	SIC		DIP	215- 92
220♦	74LS521	TTL	N74F521N	VALG		DIP	215- 92

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG S M D	PKG TYPE	PAGE & LINE
1♦	74LS521	TTL	54F521DM	FSC		DIP	215- 95
2♦	74LS521	TTL	74F521DC	FSC		DIP	215- 81
3♦	74LS521	TTL	74F521PC	FSC		DIP	215- 83
4▼	74ALS522	TTL	SN74ALS522DW	TII	*	SO	216- 13
5♦	74ALS522	TTL	SN74ALS522N	TII		DIP	216- 14
6▼	74ALS526	TTL	SN74ALS526DW	TII	*	SO	216- 41
7♦	74ALS526	TTL	SN74ALS526N	TII		DIP	216- 42
8▼	74ALS527	TTL	SN74ALS527DW	TII	*	SO	216- 37
9♦	74ALS527	TTL	SN74ALS527N	TII		DIP	216- 38
10▼	74ALS528	TTL	SN74ALS528D	TII	*	SO	216- 39
11♦	74ALS528	TTL	SN74ALS528N	TII		DIP	216- 40
12▼	74S531	TTL	SN74S531J	MMI		DIP	235- 97
13▼	74S531	TTL	SN74S531N	MMI		DIP	235- 98
14♦	74LS533	CMOS	IDT54AHCT533D	IDT		DIP	229- 8
15♦	74LS533	CMOS	IDT54AHCT533DB	IDT		DIP	237- 63
16▼	74LS533	CMOS	IDT54FCT533ADB	IDT		DIP	233-100
17▼	74LS533	CMOS	IDT54FCT533AEB	IDT	*	FP	233-101
18▼	74LS533	CMOS	IDT54FCT533ALB	IDT	*	LLCC	233-102
19♦	74LS533	CMOS	IDT54FCT533DB	IDT		DIP	235- 58
20♦	74LS533	CMOS	IDT74AHCT533D	IDT		DIP	237- 11
21▼	74LS533	CMOS	IDT74FCT533AD	IDT		DIP	233- 90
22▼	74LS533	CMOS	IDT74FCT533AJ	IDT	*	LDCC	233- 91
23▼	74LS533	CMOS	IDT74FCT533AL	IDT	*	LLCC	233- 92
24▼	74LS533	CMOS	IDT74FCT533AP	IDT		DIP	233- 93
25▼	74LS533	CMOS	IDT74FCT533ASO	IDT	*	SO	233- 94
26♦	74LS533	CMOS	IDT74FCT533D	IDT		DIP	235- 20
27▼	74LS533	CMOS	IDT74FCT533J	IDT	*	LDCC	235- 21
28▼	74LS533	CMOS	IDT74FCT533P	IDT		DIP	235- 23
29▼	74LS533	CMOS	IDT74FCT533SO	IDT	*	SO	235- 24
30♦	74LS533	CMOS	MC74HC533J(A)	MOTA		DIP	237- 78
31♦	74LS533	CMOS	MC74HC533N(A)	MOTA		DIP	237- 79
32♦	74LS533	CMOS	MV74SC533(A)	PLSB		DIP	240- 65
33♦	74LS533	CMOS	M54HC533F1(A)	SGSI		DIP	238- 13
34♦	74LS533	CMOS	M74HC533B1(A)	SGSI		DIP	238-101
35♦	74LS533	CMOS	M74HC533F1(A)	SGSI		DIP	238-103
36♦	74LS533	CMOS	PC74HCT533P	MULB		DIP	239-101
37♦	74LS533	CMOS	PC74HCT533P	PHIN		DIP	239-101
38♦	74LS533	CMOS	PC74HCT533P	RTCF		DIP	239-101
39♦	74LS533	CMOS	PC74HCT533P	VALG		DIP	239-101
40♦	74LS533	CMOS	PC74HCT533T	MULB	*	SO	239-102
41♦	74LS533	CMOS	PC74HCT533T	PHIN	*	SO	239-102
42♦	74LS533	CMOS	PC74HCT533T	RTCF	*	SO	239-102
43♦	74LS533	CMOS	PC74HCT533T	VALG	*	SO	239-102
44♦	74LS533	CMOS	PC74HC533P	MULB		DIP	239- 64
45♦	74LS533	CMOS	PC74HC533P	PHIN		DIP	239- 64
46♦	74LS533	CMOS	PC74HC533P	RTCF		DIP	239- 64
47♦	74LS533	CMOS	PC74HC533P	VALG		DIP	239- 64
48♦	74LS533	CMOS	PC74HC533T	MULB	*	SO	239- 65
49♦	74LS533	CMOS	PC74HC533T	PHIN	*	SO	239- 65
50♦	74LS533	CMOS	PC74HC533T	RTCF	*	SO	239- 65
51♦	74LS533	CMOS	PC74HC533T	VALG	*	SO	239- 65
52▼	74LS533	CMOS	SN74HCT533N(A)	TII		DIP	240- 73
53♦	74LS533	CMOS	UPD74HC533C(A)	NECJ		DIP	236- 31
54♦	74LS533	CMOS	74HCT533	AEIL		DIP	233- 51
55♦	74LS533	CMOS	74HCT533D	SIC	*	SO	240- 16
56♦	74LS533	CMOS	74HCT533D	STX	*	SO	240- 16
57♦	74LS533	CMOS	74HCT533N	SIC		DIP	240- 17
58♦	74LS533	CMOS	74HCT533N	STX		DIP	240- 17
59♦	74LS533	CMOS	74HC533D	SIC	*	SO	239- 13
60♦	74LS533	CMOS	74HC533N	SIC		DIP	239- 14
61♦	74LS533	TTL	AM25S533DC	AMD		DIP	237- 91
62♦	74LS533	TTL	AM25S533DM	AMD		DIP	237- 92
63	74LS533	TTL	AM25S533FM	AMD	*	FP	237- 93
64♦	74LS533	TTL	AM25S533PC	AMD		DIP	237- 94
65♦	74LS533	TTL	DM54AS533J	NSC		DIP	235- 13
66♦	74LS533	TTL	DM74AS533J	NSC		DIP	234- 22
67♦	74LS533	TTL	DM74AS533N	NSC		DIP	234- 23
68♦	74LS533	TTL	M74ALS533P	MITA		DIP	237- 66
69♦	74LS533	TTL	M74ALS533P	MITJ		DIP	237- 66
70♦	74LS533	TTL	SN54S533J	AMD		DIP	237-102
71♦	74LS533	TTL	SN54S533J	MMI		DIP	237-102
72	74LS533	TTL	SN54S533W	AMD	*	FP	237-103
73	74LS533	TTL	SN54S533W	MMI	*	FP	237-103
74♦	74LS533N	CMOS	CD54HCT533F	RCA		DIP	240- 45
75♦	74LS533N	CMOS	CD54HC533F	RCA		DIP	240- 24
76♦	74LS533N	CMOS	CD74HCT533E	RCA		DIP	239- 83
77♦	74LS533N	CMOS	CD74HC533E	RCA		DIP	239- 58
78▼	74LS533N	CMOS	HD74HCT533FP	HITJ	*	SO	235-105
79▼	74LS533N	CMOS	HD74HCT533P	HITJ		DIP	235-106
80▼	74LS533N	CMOS	HD74HC533FP	HITJ	*	SO	236- 68
81▼	74LS533N	CMOS	HD74HC533P	HITJ		DIP	236- 69
82♦	74LS533N	CMOS	MM54HC533J	NSC		DIP	240- 60
83♦	74LS533N	CMOS	MM74HC533J	NSC		DIP	240- 22
84♦	74LS533N	CMOS	MM74HC533N	NSC		DIP	240- 23
85▼	74LS533N	CMOS	P54PCT533DM	PSC		DIP	234- 71
86▼	74LS533N	CMOS	P54PCT533LM	PSC	*	LLCC	234- 72
87▼	74LS533N	CMOS	P54PCT533PM	PSC		DIP	234- 73
88▼	74LS533N	CMOS	P74PCT533DC	PSC		DIP	234- 17
89▼	74LS533N	CMOS	P74PCT533LC	PSC	*	LLCC	234- 18
90▼	74LS533N	CMOS	P74PCT533PC	PSC		DIP	234- 19
91▼	74LS533N	CMOS	SN74HC533DW(A)	TII	*	SO	240- 32
92♦	74LS533N	CMOS	SN74HC533N	TII		DIP	233- 81
93▼	74LS533N	CMOS	TC74HC533F(A)	TOSA	*	SO	239- 9
94▼	74LS533N	CMOS	TC74HC533P(A)	TOSA		DIP	239- 10
95♦	74LS533N	CMOS	54HCT533C	STX		DIP	239-108
96♦	74LS533N	CMOS	54HCT533D	STX		DIP	239-109
97♦	74LS533N	CMOS	74HCT533C	STX		DIP	239- 22
98♦	74LS533N	CMOS	74HCT533P	STX		DIP	239- 23
99♦	74LS533N	CMOS	74SC533C	STX		DIP	240- 7
100♦	74LS533N	CMOS	74SC533D	STX		DIP	240- 8
101♦	74LS533N	CMOS	74SC533P	STX		DIP	240- 9
102♦	74LS533N	TTL	MC54F533J	MOTA		DIP	235- 43
103♦	74LS533N	TTL	MC54F533N	MOTA		DIP	235- 61
104♦	74LS533N	TTL	MC74F533J	MOTA		DIP	235- 44
105♦	74LS533N	TTL	MC74F533N	MOTA		DIP	235- 45
106♦	74LS533N	TTL	N74F533D	MULB	*	SO	235- 29
107♦	74LS533N	TTL	N74F533D	PHIN	*	SO	235- 29
108♦	74LS533N	TTL	N74F533D	RTCF	*	SO	235- 29
109♦	74LS533N	TTL	N74F533D	SIC	*	SO	235- 29
110♦	74LS533N	TTL	N74F533D	VALG	*	SO	235- 29
111♦	74LS533N	TTL	N74F533F	VALG		DIP	234- 97
112♦	74LS533N	TTL	N74F533N	MULB		DIP	235- 30
113♦	74LS533N	TTL	N74F533N	PHIN		DIP	235- 30
114♦	74LS533N	TTL	N74F533N	RTCF		DIP	235- 30
115♦	74LS533N	TTL	N74F533N	SIC		DIP	235- 30
116♦	74LS533N	TTL	N74F533N	VALG		DIP	235- 30
117♦	74LS533N	TTL	SN54LS533J	MMI		DIP	237- 80
118♦	74LS533N	TTL	SN54LS533W	MMI	*	FP	237- 81
119♦	74LS533N	TTL	SN54S533L	MMI	*	LLCC	237- 82
120▼	74LS533N	TTL	SN74ALS533DW	TII	*	SO	237- 61
121♦	74LS533N	TTL	SN74ALS533N	TII		DIP	237- 62
122▼	74LS533N	TTL	SN74AS533DW	TII	*	SO	234- 20
123♦	74LS533N	TTL	SN74AS533N	TII		DIP	234- 21
124♦	74LS533N	TTL	SN74LS533J	MMI		DIP	237- 83
125♦	74LS533N	TTL	SN74LS533N	MMI		DIP	237- 84
126♦	74LS533N	TTL	SN74S533J	AMD		DIP	237- 3
127♦	74LS533N	TTL	SN74S533J	MMI		DIP	237- 3
128♦	74LS533N	TTL	SN74S533N	AMD		DIP	237- 4
129♦	74LS533N	TTL	SN74S533N	MMI		DIP	237- 4
130♦	74LS533N	TTL	S54F533F	SIC		DIP	234- 99
131♦	74LS533N	TTL	S54F533F	VALG		DIP	234- 99
132♦	74LS533N	TTL	54F533DM	FSC		DIP	234-103
133♦	74LS533N	TTL	54LS533DM	FSC		DIP	230- 5
134♦	74LS533N	TTL	74F533DC	FSC		DIP	234-104
135♦	74LS533N	TTL	74F533PC	FSC		DIP	234-105
136♦	74LS533N	TTL	74LS533DC	FSC		DIP	230- 9
137♦	74LS533N	TTL	74LS533PC	FSC		DIP	230- 10
138♦	74LS534	CMOS	IDT54AHCT534D	IDT		DIP	58- 1
139♦	74LS534	CMOS	IDT54AHCT534DB	IDT		DIP	58- 2
140♦	74LS534	CMOS	IDT54FCT534DB	IDT		DIP	58- 45
141♦	74LS534	CMOS	IDT74AHCT534D	IDT		DIP	58- 11
142▼	74LS534	CMOS	IDT74FCT534AD	IDT		DIP	58- 74
143▼	74LS534	CMOS	IDT74FCT534AJ	IDT	*	LDCC	58- 75
144▼	74LS534	CMOS	IDT74FCT534AL	IDT	*	LLCC	58- 76
145▼	74LS534	CMOS	IDT74FCT534AP	IDT		DIP	58- 77
146▼	74LS534	CMOS	IDT74FCT534ASO	IDT	*	SO	58- 78
147♦	74LS534	CMOS	IDT74FCT534D	IDT		DIP	58- 79
148▼	74LS534	CMOS	IDT74FCT534J	IDT	*	LDCC	58- 80
149▼	74LS534	CMOS	IDT74FCT534P	IDT		DIP	58- 82
150▼	74LS534	CMOS	IDT74FCT534SO	IDT	*	SO	58- 83
151♦	74LS534	CMOS	M54HC534F1(A)	SGSI		DIP	62- 5
152♦	74LS534	CMOS	M74HC534B1(A)	SGSI		DIP	59- 55
153♦	74LS534	CMOS	M74HC534F1(A)	SGSI		DIP	59- 57
154♦	74LS534	CMOS	M74HC534P	MITJ		DIP	61- 26
155♦	74LS534	CMOS	PC74HCT534P	MULB		DIP	58-100
156♦	74LS534	CMOS	PC74HCT534P	PHIN		DIP	58-100
157♦	74LS534	CMOS	PC74HCT534P	RTCF		DIP	58-100
158♦	74LS534	CMOS	PC74HCT534P	VALG		DIP	58-100
159♦	74LS534	CMOS	PC74HCT534T	MULB	*	SO	58-101
160♦	74LS534	CMOS	PC74HCT534T	PHIN	*	SO	58-101
161♦	74LS534	CMOS	PC74HCT534T	RTCF	*	SO	58-101
162♦	74LS534	CMOS	PC74HCT534T	VALG	*	SO	58-101
163♦	74LS534	CMOS	PC74HC534P	MULB		DIP	59- 80
164♦	74LS534	CMOS	PC74HC534P	PHIN		DIP	59- 80
165♦	74LS534	CMOS	PC74HC534P	RTCF		DIP	59- 80
166♦	74LS534	CMOS	PC74HC534P	VALG		DIP	59- 80
167♦	74LS534	CMOS	PC74HC534T	MULB	*	SO	59- 81
168♦	74LS534	CMOS	PC74HC534T	PHIN	*	SO	59- 81
169♦	74LS534	CMOS	PC74HC534T	RTCF	*	SO	59- 81
170♦	74LS534	CMOS	PC74HC534T	VALG	*	SO	59- 81
171▼	74LS534	CMOS	SN74HCT534N(A)	TII		DIP	60- 54
172♦	74LS534	CMOS	UPD74HC534C(A)	NECJ		DIP	62- 77
173♦	74LS534	CMOS	V54ACT534D	VTC		DIP	62- 52
174♦	74LS534	CMOS	V54ACT534DL	VTC		DIP	62- 53
175♦	74LS534	CMOS	V54ACT534P	VTC		DIP	62- 54
176♦	74LS534	CMOS	V54ACT534PK	VTC		DIP	62- 55
177♦	74LS534	CMOS	V54ACT534PO	VTC		DIP	62- 56
178♦	74LS534	CMOS	74HCT534	AEIL		DIP	57- 80
179♦	74LS534	CMOS	74HCT534N	SIC		DIP	58-110
180	74LS534	CMOS	74HC534D	SIC	*	SO	60- 65
181♦	74LS534	CMOS	74HC534N	SIC		DIP	60- 66
182♦	74LS534	TTL	DM54ALS534J	NSC		DIP	60- 85
183♦	74LS534	TTL	DM54AS534J	NSC		DIP	63- 62
184♦	74LS534	TTL	DM74ALS534J	NSC		DIP	61- 55
185♦	74LS534	TTL	DM74ALS534N	NSC		DIP	61- 56
186♦	74LS534	TTL	DM74AS534J	NSC		DIP	63-108
187♦	74LS534	TTL	DM74AS534N	NSC		DIP	63-109
188♦	74LS534	TTL	M74ALS534P	MITA		DIP	61- 29
189♦	74LS534	TTL	M74ALS534P	MITJ		DIP	61- 29
190♦	74LS534N	CMOS	CD54HCT534F	RCA		DIP	58-104
191♦	74LS534N	CMOS	CD54HC534F	RCA		DIP	59- 36
192♦	74LS534N	CMOS	CD74HCT534E	RCA		DIP	59- 45
193♦	74LS534N	CMOS	CD74HC534E	RCA		DIP	60- 34
194▼	74LS534N	CMOS	HD74HCT534FP	HITJ	*	SO	60- 9
195▼	74LS534N	CMOS	HD74HCT534P	HITJ		DIP	60- 10
196▼	74LS534N	CMOS	HD74HC534FP	HITJ	*	SO	61- 59
197▼	74LS534N	CMOS	HD74HC534P	HITJ		DIP	61- 60
198♦	74LS534N	CMOS	MC54HC534J(A)	MOTA		DIP	60-104
199♦	74LS534N	CMOS	MC74HC534J(A)	MOTA		DIP	60-109
200♦	74LS534N	CMOS	MC74HC534N(A)	MOTA		DIP	60-110
201♦	74LS534N	CMOS	MM54HC534J	NSC		DIP	59-104
202♦	74LS534N	CMOS	MM74HC534J	NSC		DIP	60- 70
203♦	74LS534N	CMOS	MM74HC534N	NSC		DIP	60- 71
204♦	74LS534N	CMOS	SN54HC534J(A)	TII		DIP	59- 95
205♦	74LS534N	CMOS	SN74HC534N(A)	TII		DIP	60- 51
206▼	74LS534N	CMOS	TC74HC534F(A)	TOSA	*	SO	62- 10
207▼	74LS534N	CMOS	TC74HC534P(A)	TOSA		DIP	62- 11
208♦	74LS534N	CMOS	54HCT534C	STX		DIP	59- 14
209♦	74LS534N	CMOS	54HCT534D	STX		DIP	59- 15
210♦	74LS534N	CMOS	74HCT534C	STX		DIP	61- 40
211♦	74LS534N	CMOS	74HCT534D	SIC	*	SO	58-109
212♦	74LS534N	CMOS	74HCT534D	STX	*	SO	58-109
213♦	74LS534N	CMOS	74HCT534P	STX		DIP	61- 41
214♦	74LS534N	CMOS	74SC534C	STX		DIP	59- 23
215♦	74LS534N	CMOS	74SC534D	STX		DIP	59- 24
216♦	74LS534N	CMOS	74SC534P	STX		DIP	59- 25
217♦	74LS534N	TTL	MC54F534J	MOTA		DIP	63- 73
218♦	74LS534N	TTL	MC54F534N	MOTA		DIP	63- 74
219♦	74LS534N	TTL	MC74F534J(A)	MOTA		DIP	63- 77
220♦	74LS534N	TTL	MC74F534N	MOTA		DIP	63- 78

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	S M D	PKG TYPE	PAGE & LINE
1♦	74LS534N	TTL	N74S534F	MULB		DIP	62- 95
2♦	74LS534N	TTL	N74S534F	RTCF		DIP	62- 95
3♦	74LS534N	TTL	N74S534F	VALG		DIP	62- 95
4♦	74LS534N	TTL	N74S534N	MULB		DIP	62- 96
5♦	74LS534N	TTL	N74S534N	PHIN		DIP	62- 96
6♦	74LS534N	TTL	N74S534N	RTCF		DIP	62- 96
7♦	74LS534N	TTL	N74S534N	SIC		DIP	62- 96
8♦	74LS534N	TTL	N74S534N	VALG		DIP	62- 96
9♦	74LS534N	TTL	SN54LS534J	MMI		DIP	62- 27
10♦	74LS534N	TTL	SN54LS534L	MMI	*	LLCC	62- 28
11♦	74LS534N	TTL	SN54LS534W	MMI	*	FP	62- 29
12♦	74LS534N	TTL	SN54S534J	MMI		DIP	63- 86
13♦	74LS534N	TTL	SN54S534L	MMI	*	LLCC	63- 87
14♦	74LS534N	TTL	SN54S534W	MMI	*	FP	63- 88
15▼	74LS534N	TTL	SN74ALS534DW	TII	*	SO	61- 74
16♦	74LS534N	TTL	SN74ALS534N	TII		DIP	61- 75
17▼	74LS534N	TTL	SN74AS534DW	TII	*	SO	64- 18
18♦	74LS534N	TTL	SN74AS534N	TII		DIP	64- 19
19♦	74LS534N	TTL	SN74LS534J	MMI		DIP	62- 36
20♦	74LS534N	TTL	SN74LS534N	MMI		DIP	62- 37
21♦	74LS534N	TTL	SN74S534J	MMI		DIP	63- 90
22♦	74LS534N	TTL	SN74S534N	MMI		DIP	63- 91
23♦	74LS534N	TTL	S54F534F	SIC		DIP	63- 83
24♦	74LS534N	TTL	S54F534F	VALG		DIP	63- 83
25♦	74LS534N	TTL	S54S534F	MULB		DIP	62-101
26♦	74LS534N	TTL	S54S534F	PHIN		DIP	62-101
27♦	74LS534N	TTL	S54S534F	RTCF		DIP	62-101
28♦	74LS534N	TTL	S54S534F	SIC		DIP	62-101
29♦	74LS534N	TTL	S54S534F	VALG		DIP	62-101
30♦	74LS534N	TTL	54F534DM	FSC		DIP	63- 20
31♦	74LS534N	TTL	54LS534DM	FSC		DIP	61- 32
32♦	74LS534N	TTL	74F534DC	FSC		DIP	63- 40
33♦	74LS534N	TTL	74F534PC	FSC		DIP	63- 94
34♦	74LS534N	TTL	74LS534DC	FSC		DIP	61- 49
35♦	74LS534N	TTL	74LS534PC	FSC		DIP	61- 50
36♦	74S535	TTL	SN74S535J(1)	MMI		DIP	237- 5
37♦	74S535	TTL	SN74S535N(1)	MMI		DIP	237- 6
38♦	74S536	TTL	SN74S536J(1)	MMI		DIP	63- 92
39♦	74S536	TTL	SN74S536N(1)	MMI		DIP	63- 93
40♦	74LS549	ECL	SN74LS549JS	MMI		DIP	229- 68
41♦	74LS549	ECL	SN74LS549NS	MMI		DIP	229- 69
42♦	74S557	SCH	SN54S557J40	MMI		DIP	202- 90
43♦	74S557	SCH	SN74S557J40	MMI		DIP	202- 93
44♦	74-558	TTL	AM25LS2516DC	AMD		DIP	203- 13
45♦	74S558	SCH	SN54S558J40	MMI		DIP	202- 92
46♦	74S558	SCH	SN74S558J40	MMI		DIP	202- 94
47♦	74ALS560	TTL	M74ALS560AP	MITA		DIP	183- 44
48♦	74ALS560	TTL	M74ALS560AP	MITJ		DIP	183- 44
49▼	74ALS560	TTL	SN74ALS560ADW	TII	*	SO	183- 56
50♦	74ALS560	TTL	SN74ALS560AN	TII		DIP	183- 57
51♦	74ALS561	TTL	M74ALS561AP	MITA		DIP	162- 77
52♦	74ALS561	TTL	M74ALS561AP	MITJ		DIP	162- 77
53▼	74ALS561	TTL	SN74ALS561ADW	TII	*	SO	157- 20
54♦	74ALS561	TTL	SN74ALS561AN	TII		DIP	157- 21
55♦	74LS563	CMOS	M54HCT563F1(A)	SGSI		DIP	238- 96
56♦	74LS563	CMOS	M54HC563F1(A)	SGSI		DIP	238- 14
57♦	74LS563	CMOS	M74HCT563B1(A)	SGSI		DIP	239- 66
58♦	74LS563	CMOS	M74HCT563F1(A)	SGSI		DIP	239- 68
59♦	74LS563	CMOS	M74HC563B1(A)	SGSI		DIP	238-104
60♦	74LS563	CMOS	M74HC563F1(A)	SGSI		DIP	238-106
61♦	74LS563	CMOS	PC74HCT563P	MULB		DIP	239-103
62♦	74LS563	CMOS	PC74HCT563P	PHIN		DIP	239-103
63♦	74LS563	CMOS	PC74HCT563P	RTCF		DIP	239-103
64♦	74LS563	CMOS	PC74HCT563P	VALG		DIP	239-103
65♦	74LS563	CMOS	PC74HCT563T	MULB	*	SO	239-104
66♦	74LS563	CMOS	PC74HCT563T	PHIN	*	SO	239-104
67♦	74LS563	CMOS	PC74HCT563T	RTCF	*	SO	239-104
68♦	74LS563	CMOS	PC74HCT563T	VALG	*	SO	239-104
69♦	74LS563	CMOS	PC74HC563P	MULB		DIP	239- 87
70♦	74LS563	CMOS	PC74HC563P	PHIN		DIP	239- 87
71♦	74LS563	CMOS	PC74HC563P	RTCF		DIP	239- 87
72♦	74LS563	CMOS	PC74HC563P	VALG		DIP	239- 87
73♦	74LS563	CMOS	PC74HC563T	MULB	*	SO	239- 88
74♦	74LS563	CMOS	PC74HC563T	PHIN	*	SO	239- 88
75♦	74LS563	CMOS	PC74HC563T	RTCF	*	SO	239- 88
76♦	74LS563	CMOS	PC74HC563T	VALG	*	SO	239- 88
77▼	74LS563	CMOS	SN74HCT563N	TII		DIP	240- 81
78♦	74LS563	CMOS	UPD74HC563C(A)	NECJ		DIP	235-100
79♦	74LS563	CMOS	V54ACT563D	VTC		DIP	236- 37
80♦	74LS563	CMOS	V54ACT563DL	VTC	*	LLCC	236- 38
81♦	74LS563	CMOS	V74ACT563D	VTC		DIP	236- 49
82♦	74LS563	CMOS	V74ACT563DL	VTC	*	LLCC	236- 50
83♦	74LS563	CMOS	V74ACT563P	VTC		DIP	236- 51
84♦	74LS563	CMOS	V74ACT563PK	VTC	*	LDCC	236- 52
85♦	74LS563	CMOS	V74ACT563PO	VTC	*	SO	236- 53
86♦	74LS563	CMOS	74HCT563	AEIL		DIP	233- 52
87♦	74LS563	TTL	DM54ALS563J	NSC		DIP	237- 40
88♦	74LS563	TTL	DM74ALS563J	NSC		DIP	236- 84
89♦	74LS563	TTL	DM74ALS563N	NSC		DIP	236- 85
90▼	74LS563	TTL	N74F563(A)	FSC		DIP	234- 63
91▼	74LS563	TTL	N74F563D(A)	PHIN	*	SO	234- 64
92▼	74LS563	TTL	N74F563N(A)	PHIN		DIP	234- 65
93♦	74LS563	TTL	54F563DM(A)	FSC		DIP	234- 8
94♦	74LS563	TTL	74F563DC(A)	FSC		DIP	234- 42
95♦	74LS563	TTL	74F563PC(A)	FSC		DIP	234- 11
96♦	74LS563N	CMOS	CD54HCT563F	RCA		DIP	240- 46
97♦	74LS563N	CMOS	CD54HC563F	RCA		DIP	240- 25
98♦	74LS563N	CMOS	CD74HCT563E	RCA		DIP	239- 85
99♦	74LS563N	CMOS	CD74HC563E	RCA		DIP	239- 60
100▼	74LS563N	CMOS	HD74HCT563FP	HITJ	*	SO	235- 84
101▼	74LS563N	CMOS	HD74HCT563P	HITJ		DIP	235- 85
102♦	74LS563N	CMOS	MM54HC563J	NSC		DIP	239- 62
103♦	74LS563N	CMOS	MM74HC563J	NSC		DIP	238- 68
104♦	74LS563N	CMOS	MM74HC563N	NSC		DIP	238- 69
105♦	74LS563N	CMOS	MV74SC563(A)	PLSB		DIP	240- 66
106♦	74LS563N	CMOS	SN74HC563N	TII		DIP	239- 89
107▼	74LS563N	CMOS	TC74HCT563P(A)	TOSA		DIP	239- 93
108♦	74LS563N	CMOS	54HCT563C	STX		DIP	239-110
109♦	74LS563N	CMOS	54HCT563D	STX		DIP	240- 1
110♦	74LS563N	CMOS	74HCT563C	STX		DIP	239- 24
111♦	74LS563N	CMOS	74HCT563D	SIC		DIP	239- 25
112♦	74LS563N	CMOS	74HCT563D	STX		DIP	239- 25
113♦	74LS563N	CMOS	74HCT563P	STX		DIP	239- 26
114♦	74LS563N	CMOS	74HC563D	SIC		DIP	239- 19
115♦	74LS563N	CMOS	74HC563D	STX		DIP	239- 19
116♦	74LS563N	CMOS	74SC563C	STX		DIP	240- 10
117♦	74LS563N	CMOS	74SC563D	STX		DIP	240- 11
118♦	74LS563N	CMOS	74SC563P	STX		DIP	240- 12
119♦	74LS563N	TTL	M74ALS563P	MITA		DIP	237- 59
120♦	74LS563N	TTL	M74ALS563P	MITJ		DIP	237- 59
121♦	74LS563N	TTL	54LS563DC	FSC		DIP	229-110
122♦	74LS563N	TTL	54LS563DM	FSC		DIP	230- 1
123♦	74LS563N	TTL	54LS563PC	FSC		DIP	230- 3
124▼	74LS564	CMOS	HD74HCT564FP	HITJ	*	SO	60- 11
125▼	74LS564	CMOS	HD74HCT564P	HITJ		DIP	60- 12
126♦	74LS564	CMOS	M54HCT564F1(A)	SGSI		DIP	61- 81
127♦	74LS564	CMOS	M54HC564F1(A)	SGSI		DIP	62- 6
128♦	74LS564	CMOS	M74HCT564B1(A)	SGSI		DIP	59- 1
129♦	74LS564	CMOS	M74HCT564F1(A)	SGSI		DIP	59- 3
130♦	74LS564	CMOS	M74HC564B1(A)	SGSI		DIP	59- 58
131♦	74LS564	CMOS	M74HC564F1(A)	SGSI		DIP	59- 60
132♦	74LS564	CMOS	PC74HCT564P	MULB		DIP	59- 9
133♦	74LS564	CMOS	PC74HCT564P	PHIN		DIP	59- 9
134♦	74LS564	CMOS	PC74HCT564P	RTCF		DIP	59- 9
135♦	74LS564	CMOS	PC74HCT564P	VALG		DIP	59- 9
136♦	74LS564	CMOS	PC74HCT564T	MULB	*	SO	59- 10
137♦	74LS564	CMOS	PC74HCT564T	PHIN	*	SO	59- 10
138♦	74LS564	CMOS	PC74HCT564T	RTCF	*	SO	59- 10
139♦	74LS564	CMOS	PC74HCT564T	VALG	*	SO	59- 10
140♦	74LS564	CMOS	PC74HC564P	MULB		DIP	59- 82
141♦	74LS564	CMOS	PC74HC564P	PHIN		DIP	59- 82
142♦	74LS564	CMOS	PC74HC564P	RTCF		DIP	59- 82
143♦	74LS564	CMOS	PC74HC564P	VALG		DIP	59- 82
144♦	74LS564	CMOS	PC74HC564T	MULB	*	SO	59- 83
145♦	74LS564	CMOS	PC74HC564T	PHIN	*	SO	59- 83
146♦	74LS564	CMOS	PC74HC564T	RTCF	*	SO	59- 83
147♦	74LS564	CMOS	PC74HC564T	VALG	*	SO	59- 83
148▼	74LS564	CMOS	SN74HCT564N	TII		DIP	60- 55
149▼	74LS564	CMOS	TC74HCT564P(A)	TOSA		DIP	61-110
150♦	74LS564	CMOS	UPD74HC564C(A)	NECJ		DIP	62- 78
151♦	74LS564	CMOS	V54ACT564D	VTC		DIP	62- 57
152♦	74LS564	CMOS	V54ACT564DL	VTC	*	LLCC	62- 58
153♦	74LS564	CMOS	V74ACT564D	VTC		DIP	62- 66
154♦	74LS564	CMOS	V74ACT564DL	VTC	*	LLCC	62- 67
155♦	74LS564	CMOS	V74ACT564P	VTC		DIP	62- 68
156♦	74LS564	CMOS	V74ACT564PK	VTC	*	LDCC	62- 69
157♦	74LS564	CMOS	V74ACT564PO	VTC	*	SO	62- 70
158♦	74LS564	CMOS	74HCT564	AEIL		DIP	57- 81
159♦	74LS564	CMOS	74HCT564N	SIC		DIP	59-102
160	74LS564	CMOS	74HC564D	SIC	*	SO	60- 67
161♦	74LS564	CMOS	74HC564N	SIC		DIP	60- 68
162♦	74LS564	TTL	DM54ALS564J	NSC		DIP	60- 44
163♦	74LS564	TTL	DM74ALS564J	NSC		DIP	60- 87
164♦	74LS564	TTL	DM74ALS564N	NSC		DIP	60- 88
165▼	74LS564	TTL	N74F564D(A)	PHIN	*	SO	234- 66
166▼	74LS564	TTL	N74F564N(A)	PHIN		DIP	234- 67
167♦	74LS564	TTL	74F564DC(A)	FSC		DIP	63- 44
168♦	74LS564N	CMOS	CD54HCT564F	RCA		DIP	58-105
169♦	74LS564N	CMOS	CD54HC564F	RCA		DIP	59- 37
170♦	74LS564N	CMOS	CD74HCT564E	RCA		DIP	59- 46
171♦	74LS564N	CMOS	CD74HC564E	RCA		DIP	60- 35
172♦	74LS564N	CMOS	MM54HC564J	NSC		DIP	59-105
173♦	74LS564N	CMOS	MM74HC564J	NSC		DIP	60- 72
174♦	74LS564N	CMOS	MM74HC564N	NSC		DIP	60- 73
175♦	74LS564N	CMOS	SN74HC564N	TII		DIP	60- 52
176♦	74LS564N	CMOS	54HCT564C	STX		DIP	59- 16
177♦	74LS564N	CMOS	54HCT564D	STX		DIP	59- 17
178♦	74LS564N	CMOS	74HCT564C	STX		DIP	61- 42
179♦	74LS564N	CMOS	74HCT564D	SIC	*	SO	59-101
180♦	74LS564N	CMOS	74HCT564D	STX	*	SO	59-101
181♦	74LS564N	CMOS	74HCT564P	STX		DIP	61- 43
182♦	74LS564N	CMOS	74SC564C	STX		DIP	59- 26
183♦	74LS564N	CMOS	74SC564D	STX		DIP	59- 27
184♦	74LS564N	CMOS	74SC564P	STX		DIP	59- 28
185♦	74LS564N	TTL	M74ALS564P	MITA		DIP	62- 20
186♦	74LS564N	TTL	M74ALS564P	MITJ		DIP	62- 20
187♦	74LS564N	TTL	54LS564DM	FSC		DIP	61- 34
188▼	74LS568	TTL	N74F568	FSC		DIP	180- 56
189▼	74LS568	TTL	N74F568D(A)	PHIN	*	SO	180- 57
190▼	74LS568	TTL	N74F568N(A)	PHIN		DIP	180- 58
191♦	74LS568	TTL	54F568DM	FSC		DIP	180- 45
192♦	74LS568	TTL	74F568DC	FSC		DIP	180- 52
193♦	74LS568	TTL	74F568PC	FSC		DIP	180- 54
194♦	74LS568N	TTL	AM25LS2568DC	AMD		DIP	178- 51
195♦	74LS568N	TTL	AM25LS2568DCB	AMD		DIP	178- 52
196♦	74LS568N	TTL	AM25LS2568DMB	AMD		DIP	178- 45
197♦	74LS568N	TTL	AM25LS2568PC	AMD		DIP	178- 53
198♦	74LS568N	TTL	AM25LS2568PCB	AMD		DIP	178- 54
199♦	74LS568N	TTL	AM25LS2569DCB	AMD		DIP	178- 55
200♦	74LS568N	TTL	AM25LS2569DMB	AMD		DIP	178- 46
201♦	74LS568N	TTL	AM25LS2569PCB	AMD		DIP	178- 56
202♦	74LS568N	TTL	M74ALS568AP	MITA		DIP	178- 64
203♦	74LS568N	TTL	M74ALS568AP	MITJ		DIP	178- 64
204♦	74LS568N	TTL	N74LS568AN	MULB		DIP	179-105
205♦	74LS568N	TTL	N74LS568AN	PHIN		DIP	179-105
206♦	74LS568N	TTL	N74LS568AN	RTCF		DIP	179-105
207♦	74LS568N	TTL	N74LS568AN	SIC		DIP	179-105
208♦	74LS568N	TTL	N74LS568AN	VALG		DIP	179-105
209♦	74LS568N	TTL	N74LS568F	MULB		DIP	179- 16
210♦	74LS568N	TTL	N74LS568F	PHIN		DIP	179- 16
211♦	74LS568N	TTL	N74LS568F	RTCF		DIP	179- 16
212♦	74LS568N	TTL	N74LS568F	VALG		DIP	179- 16
213♦	74LS568N	TTL	N74LS568N	MULB		DIP	179- 17
214♦	74LS568N	TTL	N74LS568N	PHIN		DIP	179- 17
215♦	74LS568N	TTL	N74LS568N	RTCF		DIP	179- 17
216♦	74LS568N	TTL	N74LS568N	SIC		DIP	179- 17
217♦	74LS568N	TTL	N74LS568N	VALG		DIP	179- 17
218♦	74LS568N	TTL	SN54ALS568AFH	TII	*	LLCC	178- 49
219♦	74LS568N	TTL	SN54LS568J	MOTA		DIP	179- 33
220▼	74LS568N	TTL	SN54LS568N	MOTA		DIP	179- 34

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO.
(2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1▼	74LS568N	TTL	SN74ALS568ADW	TII	*	SO	178- 76
2♦	74LS568N	TTL	SN74ALS568AN	TII		DIP	178- 77
3♦	74LS568N	TTL	SN74LS568J	MOTA		DIP	179- 44
4♦	74LS568N	TTL	SN74LS568N	MOTA		DIP	179- 45
5♦	74LS568N	TTL	S54LS568AF	MULB		DIP	179-106
6♦	74LS568N	TTL	S54LS568AF	PHIN		DIP	179-106
7♦	74LS568N	TTL	S54LS568AF	RTCF		DIP	179-106
8♦	74LS568N	TTL	S54LS568AF	SIC		DIP	179-106
9♦	74LS568N	TTL	S54LS568AF	VALG		DIP	179-106
10♦	74LS568N	TTL	S54LS568F	MULB		DIP	179- 25
11♦	74LS568N	TTL	S54LS568F	PHIN		DIP	179- 25
12♦	74LS568N	TTL	S54LS568F	SIC		DIP	179- 25
13♦	74LS568N	TTL	S54LS568F	VALG		DIP	179- 25
14♦	74LS569	TTL	M74ALS569AP	MITA		DIP	162- 78
15♦	74LS569	TTL	M74ALS569AP	MITJ		DIP	162- 78
16▼	74LS569	TTL	N74F569D(A)	PHIN	*	SO	163- 82
17▼	74LS569	TTL	N74F569N(A)	PHIN		DIP	163- 83
18▼	74LS569	TTL	SN74ALS569ADW	TII	*	SO	162- 84
19♦	74LS569	TTL	SN74ALS569AN	TII		DIP	162- 85
20♦	74LS569	TTL	54F569DM	FSC		DIP	163- 72
21♦	74LS569	TTL	74F569DC	FSC		DIP	163- 79
22♦	74LS569	TTL	74F569PC	FSC		DIP	163- 80
23♦	74LS569N	TTL	AM25LS2569DC	AMD		DIP	161- 70
24♦	74LS569N	TTL	AM25LS2569PC	AMD		DIP	161- 71
25♦	74LS569N	TTL	N74LS569AN	MULB		DIP	163- 13
26♦	74LS569N	TTL	N74LS569AN	PHIN		DIP	163- 13
27♦	74LS569N	TTL	N74LS569AN	RTCF		DIP	163- 13
28♦	74LS569N	TTL	N74LS569AN	SIC		DIP	163- 13
29♦	74LS569N	TTL	N74LS569AN	VALG		DIP	163- 13
30♦	74LS569N	TTL	N74LS569F	MULB		DIP	162- 25
31♦	74LS569N	TTL	N74LS569F	PHIN		DIP	162- 25
32♦	74LS569N	TTL	N74LS569F	RTCF		DIP	162- 25
33♦	74LS569N	TTL	N74LS569F	VALG		DIP	162- 25
34♦	74LS569N	TTL	N74LS569N	MULB		DIP	162- 26
35♦	74LS569N	TTL	N74LS569N	PHIN		DIP	162- 26
36♦	74LS569N	TTL	N74LS569N	RTCF		DIP	162- 26
37♦	74LS569N	TTL	N74LS569N	SIC		DIP	162- 26
38♦	74LS569N	TTL	N74LS569N	VALG		DIP	162- 26
39♦	74LS569N	TTL	SN54ALS569AJ	TII		DIP	161- 96
40♦	74LS569N	TTL	SN54LS569J	MOTA		DIP	162- 41
41▼	74LS569N	TTL	SN54LS569N	MOTA		DIP	162- 42
42♦	74LS569N	TTL	SN74LS569J	MOTA		DIP	162- 48
43♦	74LS569N	TTL	SN74LS569N	MOTA		DIP	162- 49
44♦	74LS569N	TTL	S54LS569AF	MULB		DIP	163- 14
45♦	74LS569N	TTL	S54LS569AF	PHIN		DIP	163- 14
46♦	74LS569N	TTL	S54LS569AF	RTCF		DIP	163- 14
47♦	74LS569N	TTL	S54LS569AF	SIC		DIP	163- 14
48♦	74LS569N	TTL	S54LS569AF	VALG		DIP	163- 14
49♦	74LS569N	TTL	S54LS569F	MULB		DIP	162- 33
50♦	74LS569N	TTL	S54LS569F	PHIN		DIP	162- 33
51♦	74LS569N	TTL	S54LS569F	SIC		DIP	162- 33
52♦	74LS569N	TTL	S54LS569F	VALG		DIP	162- 33
53▼	74LS573	CMOS	IDT74AHCT573D	IDT		DIP	235-107
54▼	74LS573	CMOS	IDT74AHCT573J	IDT	*	LDCC	235-108
55▼	74LS573	CMOS	IDT74AHCT573L	IDT	*	LLCC	235-109
56▼	74LS573	CMOS	IDT74AHCT573P	IDT		DIP	235-110
57▼	74LS573	CMOS	IDT74AHCT573SO	IDT	*	SO	236- 1
58▼	74LS573	CMOS	IDT74FCT573AD	IDT		DIP	233- 95
59▼	74LS573	CMOS	IDT74FCT573AJ	IDT	*	LDCC	233- 96
60▼	74LS573	CMOS	IDT74FCT573AL	IDT	*	LLCC	233- 97
61▼	74LS573	CMOS	IDT74FCT573AP	IDT		DIP	233- 98
62▼	74LS573	CMOS	IDT74FCT573ASO	IDT	*	SO	233- 99
63▼	74LS573	CMOS	IDT74FCT573D	IDT		DIP	234- 58
64▼	74LS573	CMOS	IDT74FCT573J	IDT	*	LDCC	234- 59
65▼	74LS573	CMOS	IDT74FCT573L	IDT	*	LLCC	234- 60
66▼	74LS573	CMOS	IDT74FCT573P	IDT		DIP	234- 61
67▼	74LS573	CMOS	IDT74FCT573SO	IDT	*	SO	234- 62
68♦	74LS573	CMOS	MC54HC533J(A)	MOTA		DIP	237- 75
69♦	74LS573	CMOS	MD54HCT573RC	MITC		DIP	238- 48
70♦	74LS573	CMOS	MV74SC573(A)	PLSB		DIP	240- 67
71♦	74LS573	CMOS	M54HCT573F1(A)	SGSI		DIP	238- 97
72♦	74LS573	CMOS	M54HC573F1(A)	SGSI		DIP	238- 15
73♦	74LS573	CMOS	M74HCT573B1(A)	SGSI		DIP	239- 69
74♦	74LS573	CMOS	M74HCT573F1(A)	SGSI		DIP	239- 71
75♦	74LS573	CMOS	M74HC573B1(A)	SGSI		DIP	238-107
76♦	74LS573	CMOS	M74HC573F1(A)	SGSI		DIP	238-109
77♦	74LS573	CMOS	PC74HCT573P(A)	MULB		DIP	240- 47
78♦	74LS573	CMOS	PC74HCT573P(A)	PHIN		DIP	240- 47
79♦	74LS573	CMOS	PC74HCT573P(A)	RTCF		DIP	240- 47
80♦	74LS573	CMOS	PC74HCT573P(A)	VALG		DIP	240- 47
81♦	74LS573	CMOS	PC74HCT573T(A)	MULB	*	SO	240- 48
82♦	74LS573	CMOS	PC74HCT573T(A)	PHIN	*	SO	240- 48
83♦	74LS573	CMOS	PC74HCT573T(A)	RTCF	*	SO	240- 48
84♦	74LS573	CMOS	PC74HCT573T(A)	VALG	*	SO	240- 48
85♦	74LS573	CMOS	PC74HC573P	MULB		DIP	239- 97
86♦	74LS573	CMOS	PC74HC573P	PHIN		DIP	239- 97
87♦	74LS573	CMOS	PC74HC573P	RTCF		DIP	239- 97
88♦	74LS573	CMOS	PC74HC573P	VALG		DIP	239- 97
89♦	74LS573	CMOS	PC74HC573T	MULB	*	SO	239- 98
90♦	74LS573	CMOS	PC74HC573T	PHIN	*	SO	239- 98
91♦	74LS573	CMOS	PC74HC573T	RTCF	*	SO	239- 98
92♦	74LS573	CMOS	PC74HC573T	VALG	*	SO	239- 98
93▼	74LS573	CMOS	SN74HCT573DW	TII	*	SO	240- 49
94▼	74LS573	CMOS	SN74HCT573N	TII		DIP	240- 50
95♦	74LS573	CMOS	UPD74HC573C(A)	NECJ		DIP	236- 32
96♦	74LS573	CMOS	V54ACT573D	VTC		DIP	235- 69
97♦	74LS573	CMOS	V54ACT573DL	VTC	*	LLCC	235- 70
98♦	74LS573	CMOS	V74ACT573D	VTC		DIP	235- 73
99♦	74LS573	CMOS	V74ACT573DL	VTC	*	LLCC	235- 74
100♦	74LS573	CMOS	V74ACT573P	VTC		DIP	235- 75
101♦	74LS573	CMOS	V74ACT573PK	VTC	*	LDCC	235- 76
102♦	74LS573	CMOS	V74ACT573PO	VTC	*	SO	235- 77
103♦	74LS573	CMOS	74HCT563N	SIC		DIP	239- 76
104♦	74LS573	CMOS	74HCT573	AEIL		DIP	233- 53
105♦	74LS573	CMOS	74HCT573D	SIC	*	SO	239- 77
106♦	74LS573	CMOS	74HCT573D	STX	*	SO	239- 77
107♦	74LS573	CMOS	74HCT573N	SIC		DIP	239- 78
108♦	74LS573	CMOS	74HC563N	SIC		DIP	239- 75
109♦	74LS573	CMOS	74HC573D	SIC	*	SO	238- 57
110♦	74LS573	CMOS	74HC573N	SIC		DIP	238- 58
111♦	74LS573	TTL	DM54ALS573J	NSC		DIP	236- 21
112♦	74LS573	TTL	DM54AS573J	NSC		DIP	234- 14
113♦	74LS573	TTL	DM74ALS573J	NSC		DIP	235-101
114♦	74LS573	TTL	DM74ALS573N	NSC		DIP	235-102
115♦	74LS573	TTL	DM74AS573J	NSC		DIP	233-106
116♦	74LS573	TTL	DM74AS573N	NSC		DIP	233-107
117▼	74LS573	TTL	N74F573D(A)	PHIN	*	SO	235- 92
118▼	74LS573	TTL	N74F573N(A)	PHIN		DIP	235- 93
119♦	74LS573	TTL	54F573DM(A)	FSC		DIP	234- 32
120♦	74LS573	TTL	74F573DC(A)	FSC		DIP	235- 83
121♦	74LS573	TTL	74F573PC(A)	FSC		DIP	234- 44
122♦	74LS573N	CMOS	CD54HCT573F	RCA		DIP	240- 63
123♦	74LS573N	CMOS	CD54HC573F	RCA		DIP	240- 44
124♦	74LS573N	CMOS	CD74HCT573E	RCA		DIP	240- 26
125♦	74LS573N	CMOS	CD74HC573E	RCA		DIP	239- 80
126▼	74LS573N	CMOS	HD74HCT573FP	HITJ	*	SO	235- 86
127▼	74LS573N	CMOS	HD74HCT573P	HITJ		DIP	235- 87
128▼	74LS573N	CMOS	HD74HC573FP	HITJ	*	SO	235- 39
129▼	74LS573N	CMOS	HD74HC573P	HITJ		DIP	235- 40
130♦	74LS573N	CMOS	MD54HC573RC	MITC		DIP	238- 46
131♦	74LS573N	CMOS	MM54HC573J	NSC		DIP	239- 63
132♦	74LS573N	CMOS	MM74HC573J	NSC		DIP	238- 70
133♦	74LS573N	CMOS	MM74HC573N	NSC		DIP	238- 71
134♦	74LS573N	CMOS	MV54HCT573	PLSB		DIP	239- 73
135♦	74LS573N	CMOS	MV74HCT573	PLSB		DIP	239- 55
136♦	74LS573N	CMOS	SN74HC573N	TII		DIP	239- 90
137▼	74LS573N	CMOS	TC74HCT573P(A)	TOSA		DIP	239- 94
138▼	74LS573N	CMOS	TC74HC573F(A)	TOSA	*	SO	238- 66
139▼	74LS573N	CMOS	TC74HC573P(A)	TOSA		DIP	238- 67
140♦	74LS573N	CMOS	54HCT573C	STX		DIP	240- 2
141♦	74LS573N	CMOS	54HCT573D	STX		DIP	240- 3
142♦	74LS573N	CMOS	74HCT573C	STX		DIP	239- 27
143♦	74LS573N	CMOS	74HCT573P	STX		DIP	239- 28
144♦	74LS573N	CMOS	74SC573C	STX		DIP	240- 13
145♦	74LS573N	CMOS	74SC573D	STX		DIP	240- 14
146♦	74LS573N	CMOS	74SC573P	STX		DIP	240- 15
147♦	74LS573N	TTL	M74ALS573P	MITA		DIP	237- 42
148♦	74LS573N	TTL	M74ALS573P	MITJ		DIP	237- 42
149▼	74LS573N	TTL	SN54ALS573BJ	TII		DIP	236- 28
150▼	74LS573N	TTL	SN74ALS573BDW	TII	*	SO	236- 2
151▼	74LS573N	TTL	SN74ALS573BN	TII		DIP	236- 3
152▼	74LS573N	TTL	SN74AS573DW	TII	*	SO	233-108
153♦	74LS573N	TTL	SN74AS573N	TII		DIP	233-109
154♦	74LS573N	TTL	54LS573DM	FSC		DIP	230- 7
155♦	74LS574	CMOS	MC54HC574J(A)	MOTA		DIP	59- 65
156♦	74LS574	CMOS	MC74HC574J(A)	MOTA		DIP	59- 68
157♦	74LS574	CMOS	MC74HC574N(A)	MOTA		DIP	59- 69
158♦	74LS574	CMOS	MD54HCT574RC	MITC		DIP	58- 22
159♦	74LS574	CMOS	M54HCT574F1(A)	SGSI		DIP	61- 82
160♦	74LS574	CMOS	M54HC574F1(A)	SGSI		DIP	62- 7
161♦	74LS574	CMOS	M74HCT574B1(A)	SGSI		DIP	59- 4
162♦	74LS574	CMOS	M74HCT574F1(A)	SGSI		DIP	59- 6
163♦	74LS574	CMOS	M74HC574B1(A)	SGSI		DIP	59- 61
164♦	74LS574	CMOS	M74HC574F1(A)	SGSI		DIP	59- 63
165♦	74LS574	CMOS	PC74HCT574P(A)	MULB		DIP	59- 86
166♦	74LS574	CMOS	PC74HCT574P(A)	PHIN		DIP	59- 86
167♦	74LS574	CMOS	PC74HCT574P(A)	RTCF		DIP	59- 86
168♦	74LS574	CMOS	PC74HCT574P(A)	VALG		DIP	59- 86
169♦	74LS574	CMOS	PC74HCT574T(A)	MULB	*	SO	59- 87
170♦	74LS574	CMOS	PC74HCT574T(A)	PHIN	*	SO	59- 87
171♦	74LS574	CMOS	PC74HCT574T(A)	RTCF	*	SO	59- 87
172♦	74LS574	CMOS	PC74HCT574T(A)	VALG	*	SO	59- 87
173♦	74LS574	CMOS	PC74HC574P(A)	MULB		DIP	59- 84
174♦	74LS574	CMOS	PC74HC574P(A)	PHIN		DIP	59- 84
175♦	74LS574	CMOS	PC74HC574P(A)	RTCF		DIP	59- 84
176♦	74LS574	CMOS	PC74HC574P(A)	VALG		DIP	59- 84
177♦	74LS574	CMOS	PC74HC574T(A)	MULB	*	SO	59- 85
178♦	74LS574	CMOS	PC74HC574T(A)	PHIN	*	SO	59- 85
179♦	74LS574	CMOS	PC74HC574T(A)	RTCF	*	SO	59- 85
180♦	74LS574	CMOS	PC74HC574T(A)	VALG	*	SO	59- 85
181▼	74LS574	CMOS	SN74HCT574N	TII		DIP	60- 21
182♦	74LS574	CMOS	UPD74HC574C(A)	NECJ		DIP	62- 79
183♦	74LS574	CMOS	V54ACT574D	VTC		DIP	235- 71
184♦	74LS574	CMOS	V54ACT574DL	VTC	*	LLCC	235- 72
185♦	74LS574	CMOS	V74ACT574D	VTC			235- 78
186♦	74LS574	CMOS	V74ACT574DL	VTC	*	LLCC	235- 79
187♦	74LS574	CMOS	V74ACT574P	VTC			235- 80
188♦	74LS574	CMOS	V74ACT574PK	VTC	*	LDCC	235- 81
189♦	74LS574	CMOS	V74ACT574PO	VTC	*	SO	235- 82
190♦	74LS574	CMOS	74HCT574N	AEIL		DIP	57- 82
191♦	74LS574	CMOS	74HCT574N	SIC		DIP	57- 82
192♦	74LS574	CMOS	74HC574D	AEIL		DIP	57- 75
193♦	74LS574	CMOS	74HC574D	SIC		DIP	57- 75
194♦	74LS574	CMOS	74HC574N	AEIL		DIP	57- 76
195♦	74LS574	CMOS	74HC574N	SIC		DIP	57- 76
196♦	74LS574	TTL	DM54ALS574J	NSC		DIP	60- 86
197♦	74LS574	TTL	DM54AS574J	NSC		DIP	63- 63
198♦	74LS574	TTL	DM74ALS574J	NSC		DIP	61- 57
199♦	74LS574	TTL	DM74ALS574N	NSC		DIP	61- 58
200♦	74LS574	TTL	DM74AS574J	NSC		DIP	63-110
201♦	74LS574	TTL	DM74AS574N	NSC		DIP	64- 1
202▼	74LS574	TTL	N74F574D(A)	PHIN	*	SO	63- 80
203▼	74LS574	TTL	N74F574N(A)	PHIN		DIP	63- 81
204♦	74LS574	TTL	N8TS806F	MULB		DIP	62- 87
205♦	74LS574	TTL	N8TS806F	RTCF		DIP	62- 87
206♦	74LS574	TTL	N8TS806F	VALG		DIP	62- 87
207♦	74LS574	TTL	N8TS806N	MULB		DIP	62- 88
208♦	74LS574	TTL	N8TS806N	PHIN		DIP	62- 88
209♦	74LS574	TTL	N8TS806N	RTCF		DIP	62- 88
210♦	74LS574	TTL	N8TS806N	SIC		DIP	62- 88
211♦	74LS574	TTL	N8TS806N	VALG		DIP	62- 88
212♦	74LS574	TTL	S8TS806F	MULB		DIP	62- 97
213♦	74LS574	TTL	S8TS806F	PHIN		DIP	62- 97
214♦	74LS574	TTL	S8TS806F	RTCF		DIP	62- 97
215♦	74LS574	TTL	S8TS806F	SIC		DIP	62- 97
216♦	74LS574	TTL	S8TS806F	VALG		DIP	62- 97
217♦	74LS574	TTL	54F564DM(A)	FSC		DIP	63- 23
218♦	74LS574	TTL	54F574DM(A)	FSC		DIP	63- 25
219♦	74LS574	TTL	74F564PC(A)	FSC		DIP	63- 46
220♦	74LS574	TTL	74F574DC(A)	FSC		DIP	63- 49

SYMBOLS AND CODES
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FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74LS574	TTL	74F574PC(A)	FSC		DIP	63- 51
2♦	74LS574N	CMOS	CD54HCT574F	RCA		DIP	59- 40
3♦	74LS574N	CMOS	CD54HC574F	RCA		DIP	59- 38
4♦	74LS574N	CMOS	CD74HCT574E	RCA		DIP	60- 42
5♦	74LS574N	CMOS	CD74HC574E	RCA		DIP	60- 37
6▼	74LS574N	CMOS	HD74HCT574FP	HITJ	*	SO	60- 13
7▼	74LS574N	CMOS	HD74HCT574P	HITJ		DIP	60- 14
8▼	74LS574N	CMOS	HD74HC574FP	HITJ	*	SO	60- 5
9▼	74LS574N	CMOS	HD74HC574P	HITJ		DIP	60- 6
10▼	74LS574N	CMOS	IDT74FCT574AD	IDT		DIP	58- 84
11▼	74LS574N	CMOS	IDT74FCT574AJ	IDT	*	LDCC	58- 85
12▼	74LS574N	CMOS	IDT74FCT574AL	IDT	*	LLCC	58- 86
13▼	74LS574N	CMOS	IDT74FCT574AP	IDT		DIP	58- 87
14▼	74LS574N	CMOS	IDT74FCT574ASO	IDT	*	SO	58- 88
15▼	74LS574N	CMOS	IDT74FCT574D	IDT		DIP	58- 89
16▼	74LS574N	CMOS	IDT74FCT574J	IDT	*	LDCC	58- 90
17▼	74LS574N	CMOS	IDT74FCT574L	IDT	*	LLCC	58- 91
18▼	74LS574N	CMOS	IDT74FCT574P	IDT		DIP	58- 92
19▼	74LS574N	CMOS	IDT74FCT574SO	IDT	*	SO	58- 93
20♦	74LS574N	CMOS	MM74HC574J	NSC		DIP	60- 74
21♦	74LS574N	CMOS	MM74HC574N	NSC		DIP	60- 75
22♦	74LS574N	CMOS	MV74SC574(A)	PLSB		DIP	59- 75
23♦	74LS574N	CMOS	SN74HC574N	TII		DIP	60- 20
24▼	74LS574N	CMOS	TC74HCT574P(A)	TOSA		DIP	62- 1
25▼	74LS574N	CMOS	TC74HC574F(A)	TOSA	*	SO	62- 14
26▼	74LS574N	CMOS	TC74HC574P(A)	TOSA		DIP	62- 15
27♦	74LS574N	CMOS	54HCT574C	STX		DIP	59- 18
28♦	74LS574N	CMOS	54HCT574D	STX		DIP	59- 19
29♦	74LS574N	CMOS	74HCT574C	STX		DIP	61- 44
30♦	74LS574N	CMOS	74HCT574D	SIC		DIP	61- 45
31♦	74LS574N	CMOS	74HCT574D	STX		DIP	61- 45
32♦	74LS574N	CMOS	74HCT574P	STX		DIP	61- 46
33♦	74LS574N	CMOS	74SC574C	STX		DIP	59- 29
34♦	74LS574N	CMOS	74SC574D	STX		DIP	59- 30
35♦	74LS574N	CMOS	74SC574P	STX		DIP	59- 31
36♦	74LS574N	TTL	M74ALS574P	MITA		DIP	62- 21
37♦	74LS574N	TTL	M74ALS574P	MITJ		DIP	62- 21
38▼	74LS574N	TTL	SN54ALS574AJ	TII		DIP	60- 76
39▼	74LS574N	TTL	SN74ALS574ADW	TII	*	SO	61- 76
40▼	74LS574N	TTL	SN74ALS574AN	TII		DIP	61- 77
41▼	74LS574N	TTL	SN74AS574DW	TII	*	SO	64- 20
42♦	74LS574N	TTL	SN74AS574N	TII		DIP	64- 21
43♦	74LS574N	TTL	54LS574DM	FSC		DIP	61- 36
44♦	74ALS575	CMOS	V54ACT575D	VTC	*	SO	62- 59
45♦	74ALS575	CMOS	V74ACT575D	VTC		DIP	62- 71
46♦	74ALS575	CMOS	V74ACT575P	VTC		DIP	62- 73
47♦	74ALS575	CMOS	V74ACT575PO	VTC	*	SO	62- 75
48♦	74ALS575	TTL	DM54AS575J	NSC		DIP	63- 64
49♦	74ALS575	TTL	DM74AS575J	NSC		DIP	64- 2
50♦	74ALS575	TTL	DM74AS575N	NSC		DIP	64- 3
51♦	74ALS575	TTL	M74ALS575P	MITA		DIP	60- 97
52♦	74ALS575	TTL	M74ALS575P	MITJ		DIP	60- 97
53▼	74ALS575	TTL	SN74ALS575ADW	TII	*	SO	61- 12
54▼	74ALS575	TTL	SN74ALS575ANT	TII		DIP	61- 14
55▼	74ALS575	TTL	SN74AS575DW	TII	*	SO	64- 22
56♦	74ALS575	TTL	SN74AS575FN	TII	*	LDCC	64- 23
57♦	74ALS575	TTL	SN74AS575NT	TII		DIP	64- 24
58▼	74AS576	CMOS	HD74HC564FP	HITJ	*	SO	60- 3
59▼	74AS576	CMOS	HD74HC564P	HITJ		DIP	60- 4
60♦	74AS576	CMOS	MC54HC564J(A)	MOTA		DIP	59- 64
61♦	74AS576	CMOS	MC74HC564J(A)	MOTA		DIP	59- 66
62♦	74AS576	CMOS	MC74HC564N(A)	MOTA		DIP	59- 67
63♦	74AS576	CMOS	MV74SC564(A)	PLSB		DIP	59- 74
64▼	74AS576	CMOS	SN54HCT374J(A)	TII		DIP	59- 96
65▼	74AS576	CMOS	SN74HCT374N(A)	TII		DIP	60- 53
66▼	74AS576	CMOS	TC74HC564F(A)	TOSA	*	SO	62- 12
67▼	74AS576	CMOS	TC74HC564P(A)	TOSA		DIP	62- 13
68♦	74AS576	CMOS	V74ACT576D	VTC		DIP	62-108
69♦	74AS576	CMOS	V74ACT576DL	VTC	*	LLCC	62-109
70♦	74AS576	CMOS	V74ACT576P	VTC		DIP	62-110
71♦	74AS576	CMOS	V74ACT576PK	VTC	*	LDCC	63- 1
72♦	74AS576	CMOS	V74ACT576PO	VTC	*	SO	63- 2
73♦	74AS576	CMOS	74HCT374D	SIC	*	SO	59- 93
74♦	74AS576	CMOS	74HCT374D	STX	*	SO	59- 93
75♦	74AS576	CMOS	74HCT374N	SIC		DIP	59- 94
76♦	74AS576	CMOS	74HCT374N	STX		DIP	59- 94
77	74AS576	CMOS	74HC374D	SIC	*	SO	60- 61
78♦	74AS576	CMOS	74HC374N	SIC		DIP	60- 62
79♦	74AS576	TTL	DM54ALS576J	NSC		DIP	60- 45
80♦	74AS576	TTL	DM54AS576J	NSC		DIP	63- 65
81♦	74AS576	TTL	DM74ALS576J	NSC		DIP	60- 89
82♦	74AS576	TTL	DM74ALS576N	NSC		DIP	60- 90
83♦	74AS576	TTL	DM74AS576J	NSC		DIP	64- 4
84♦	74AS576	TTL	DM74AS576N	NSC		DIP	64- 5
85♦	74AS576	TTL	M74ALS576P	MITA		DIP	60- 98
86♦	74AS576	TTL	M74ALS576P	MITJ		DIP	60- 98
87♦	74AS576	TTL	N8TS808F	MULB		DIP	62- 89
88♦	74AS576	TTL	N8TS808F	RTCF		DIP	62- 89
89♦	74AS576	TTL	N8TS808F	VALG		DIP	62- 89
90♦	74AS576	TTL	N8TS808N	MULB		DIP	62- 90
91♦	74AS576	TTL	N8TS808N	PHIN		DIP	62- 90
92♦	74AS576	TTL	N8TS808N	RTCF		DIP	62- 90
93♦	74AS576	TTL	N8TS808N	SIC		DIP	62- 90
94♦	74AS576	TTL	N8TS808N	VALG		DIP	62- 90
95▼	74AS576	TTL	SN54ALS576AJ	TII		DIP	60- 50
96▼	74AS576	TTL	SN74ALS564ADW	TII	*	SO	61- 10
97▼	74AS576	TTL	SN74ALS564AN	TII		DIP	61- 11
98▼	74AS576	TTL	SN74ALS576ADW	TII	*	SO	61- 15
99▼	74AS576	TTL	SN74ALS576AN	TII		DIP	61- 16
100▼	74AS576	TTL	SN74AS576DW	TII	*	SO	64- 25
101♦	74AS576	TTL	SN74AS576N	TII		DIP	64- 26
102♦	74AS576	TTL	S8TS808F	MULB		DIP	62- 98
103♦	74AS576	TTL	S8TS808F	PHIN		DIP	62- 98
104♦	74AS576	TTL	S8TS808F	RTCF		DIP	62- 98
105♦	74AS576	TTL	S8TS808F	SIC		DIP	62- 98
106♦	74AS576	TTL	S8TS808F	VALG		DIP	62- 98
107♦	74ALS577	CMOS	V54ACT577P	VTC		DIP	62- 81
108♦	74ALS577	CMOS	V74ACT577D	VTC		DIP	62- 82
109♦	74ALS577	CMOS	V74ACT577P	VTC		DIP	62- 84
110♦	74ALS577	CMOS	V74ACT577PO	VTC		DIP	62- 86
111♦	74ALS577	TTL	DM54AS577J	NSC		DIP	64- 66
112♦	74ALS577	TTL	DM74AS577J	NSC		DIP	64- 6
113♦	74ALS577	TTL	DM74AS577N	NSC		DIP	64- 7
114♦	74ALS577	TTL	M74ALS577P	MITA		DIP	60- 99
115♦	74ALS577	TTL	M74ALS577P	MITJ		DIP	60- 99
116▼	74ALS577	TTL	SN74ALS577ADW	TII	*	SO	61- 17
117▼	74ALS577	TTL	SN74ALS577AFN	TII	*	LDCC	61- 18
118▼	74ALS577	TTL	SN74ALS577ANT	TII		DIP	61- 19
119▼	74ALS577	TTL	SN74AS577DW	TII	*	SO	64- 27
120♦	74ALS577	TTL	SN74AS577FN	TII	*	LDCC	64- 28
121♦	74ALS577	TTL	SN74AS577NT	TII		DIP	64- 29
122♦	74F579	TTL	N74F579D(A)	MULB	*	SO	167- 68
123♦	74F579	TTL	N74F579D(A)	PHIN	*	SO	167- 68
124♦	74F579	TTL	N74F579D(A)	RTCF	*	SO	167- 68
125♦	74F579	TTL	N74F579D(A)	SIC	*	SO	167- 68
126♦	74F579	TTL	N74F579D(A)	VALG	*	SO	167- 68
127♦	74F579	TTL	N74F579N(A)	MULB		DIP	169- 76
128♦	74F579	TTL	N74F579N(A)	PHIN		DIP	169- 76
129♦	74F579	TTL	N74F579N(A)	RTCF		DIP	169- 76
130♦	74F579	TTL	N74F579N(A)	SIC		DIP	169- 76
131♦	74F579	TTL	N74F579N(A)	VALG		DIP	169- 76
132♦	74LS579	CMOS	N74HCT573D	SIC	*	SO	240- 29
133♦	74LS579	CMOS	N74HCT573N	SIC		DIP	240- 30
134♦	74LS579	CMOS	N74HC573D	SIC	*	SO	239- 56
135♦	74LS579	CMOS	N74HC573N	SIC		DIP	239- 57
136▼	74AS580	CMOS	HD74HC563FP	HITJ	*	SO	235- 37
137▼	74AS580	CMOS	HD74HC563P	HITJ		DIP	235- 38
138▼	74AS580	CMOS	TC74HC563F(A)	TOSA	*	SO	238- 64
139▼	74AS580	CMOS	TC74HC563P(A)	TOSA		DIP	238- 65
140♦	74AS580	CMOS	V74ACT580D	VTC		DIP	236- 6
141♦	74AS580	CMOS	V74ACT580DL	VTC	*	LLCC	236- 7
142♦	74AS580	CMOS	V74ACT580P	VTC		DIP	236- 8
143♦	74AS580	CMOS	V74ACT580PK	VTC	*	LDCC	236- 9
144♦	74AS580	CMOS	V74ACT580PO	VTC	*	SO	236- 10
145♦	74AS580	TTL	DM54ALS580J	NSC		DIP	237- 41
146♦	74AS580	TTL	DM54AS580J	NSC		DIP	235- 14
147♦	74AS580	TTL	DM74ALS580J	NSC		DIP	236- 86
148♦	74AS580	TTL	DM74ALS580N	NSC		DIP	236- 87
149♦	74AS580	TTL	DM74AS580J	NSC		DIP	234- 24
150♦	74AS580	TTL	DM74AS580N	NSC		DIP	234- 25
151♦	74AS580	TTL	M74ALS580P	MITA		DIP	237- 60
152♦	74AS580	TTL	M74ALS580P	MITJ		DIP	237- 60
153▼	74AS580	TTL	SN54ALS563AJ	TII		DIP	237- 43
154▼	74AS580	TTL	SN54ALS580AJ	TII		DIP	237- 44
155▼	74AS580	TTL	SN74ALS563ADW	TII	*	SO	236- 97
156▼	74AS580	TTL	SN74ALS563AN	TII		DIP	236- 98
157▼	74AS580	TTL	SN74ALS580ADW	TII	*	SO	236- 99
158▼	74AS580	TTL	SN74ALS580AN	TII		DIP	236-100
159▼	74AS580	TTL	SN74AS580DW	TII	*	SO	234- 30
160♦	74AS580	TTL	SN74AS580N	TII		DIP	234- 31
161▼	74-590	CMOS	HD74HC590FP	HITJ	*	SO	166- 48
162▼	74-590	CMOS	HD74HC590P	HITJ		DIP	166- 49
163▼	74-590	CMOS	TC74HC590P	TOSA		DIP	169- 18
164▼	74LS590	CMOS	M74HC590B1	SGSI		DIP	165- 61
165▼	74LS590	CMOS	M74HC590F1	SGSI		DIP	165- 63
166▼	74LS590	CMOS	SN74HC590N(A)	TII		DIP	166- 35
167♦	74LS590	TTL	SN54LS590J	TII		DIP	168- 6
168♦	74LS590	TTL	SN74LS590N	TII		DIP	168- 5
169♦	74LS591	TTL	SN74LS591N	TII		DIP	169- 12
170▼	74-592	CMOS	HD74HC592FP(A)	HITJ	*	SO	166- 50
171▼	74-592	CMOS	HD74HC592P(A)	HITJ		DIP	166- 51
172▼	74-592	CMOS	M54HC592F1	SGSI		DIP	168-102
173▼	74-592	CMOS	M74HC592B1	SGSI		DIP	168-104
174▼	74-592	CMOS	M74HC592F1	SGSI		DIP	168-106
175▼	74-592	CMOS	TC74HC592P	TOSA		DIP	169- 19
176♦	74LS592	TTL	SN54LS592J	TII		DIP	169- 13
177♦	74LS592	TTL	SN74LS592N	TII		DIP	169- 15
178▼	74-593	CMOS	HD74HC593FP	HITJ	*	SO	166- 52
179▼	74-593	CMOS	HD74HC593P	HITJ		DIP	166- 53
180▼	74-593	CMOS	M54HC593F1	SGSI		DIP	168-103
181▼	74-593	CMOS	M74HC593B1	SGSI		DIP	168-107
182▼	74-593	CMOS	M74HC593F1	SGSI		DIP	168-109
183♦	74LS593	TTL	SN54LS593J	TII		DIP	169- 14
184♦	74LS593	TTL	SN74LS593DW	TII	*	SO	169- 16
185♦	74LS593	TTL	SN74LS593N	TII		DIP	169- 17
186♦	74-604	TTL	54F604DM	FSC		DIP	52- 82
187	74-604	TTL	54F604L1M	FSC	*	LLCC	52- 83
188♦	74-604	TTL	74F604DC	FSC		DIP	52- 84
189	74-604	TTL	74F604L1C	FSC	*	LLCC	52- 85
190♦	74-604	TTL	74F604PC	FSC		DIP	52- 86
191	74-604	TTL	74F604QC	FSC	*	LDCC	52- 87
192	74-604	TTL	74F604SC	FSC	*	SO	52- 88
193▼	74HC604	CMOS	SN74HC604N	TII		DIP	239- 74
194	74LS604	TTL	SN54LS604J	MOTA		DIP	237- 24
195▼	74LS604	TTL	SN54LS604N	MOTA		DIP	237- 25
196	74LS604	TTL	SN74LS604J	MOTA		DIP	237- 35
197♦	74LS604	TTL	SN74LS604N	MOTA		DIP	239-105
198	74LS605	TTL	SN54LS605J	MOTA		DIP	233- 77
199▼	74LS605	TTL	SN54LS605N	MOTA		DIP	233- 78
200	74LS605	TTL	SN74LS605J	MOTA		DIP	233- 82
201♦	74LS605	TTL	SN74LS605N	MOTA		DIP	240- 69
202♦	74LS605	TTL	SN74LS605N	TII		DIP	240- 69
203	74LS606	TTL	SN54LS606J	MOTA		DIP	237- 26
204▼	74LS606	TTL	SN54LS606N	MOTA		DIP	237- 27
205	74LS606	TTL	SN74LS606J	MOTA		DIP	237- 36
206♦	74LS606	TTL	SN74LS606N	MOTA		DIP	240- 33
207	74LS607	TTL	SN54LS607J	MOTA		DIP	233- 79
208▼	74LS607	TTL	SN54LS607N	MOTA		DIP	233- 80
209	74LS607	TTL	SN74LS607J	MOTA		DIP	233- 83
210♦	74LS607	TTL	SN74LS607N	MOTA		DIP	240- 79
211♦	74LS607	TTL	SN74LS607N	TII		DIP	240- 79
212▼	74ALS616	TTL	SN74ALS616JD	TII		DIP	245- 62
213▼	74LS624	TTL	SN54LS624J	TII		DIP	191-102
214♦	74LS624	TTL	SN74LS624D	TII	*	SO	191-104
215▼	74LS624	TTL	SN74LS624N	TII		DIP	191-105
216♦	74LS625	TTL	SN74LS625D	TII	*	SO	191-110
217▼	74LS625	TTL	SN74LS625N	TII		DIP	192- 1
218▼	74LS626	TTL	SN54LS626J	TII		DIP	191-109
219▼	74LS626	TTL	SN74LS626N	TII		DIP	192- 2
220▼	74LS627	TTL	SN74LS627N	TII		DIP	192- 3

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1▼	74LS628	TTL	SN54LS628J	TII		DIP	191-103
2	74LS628	TTL	SN74LS628D	TII	*	SO	191-106
3♦	74LS628	TTL	SN74LS628N	TII		DIP	192- 9
4▼	74LS629	TTL	SN54LS629J	TII		DIP	192- 8
5	74LS629	TTL	SN74LS629D	TII	*	SO	192- 10
6♦	74LS629	TTL	SN74LS629N	TII		DIP	192- 11
7♦	74LS630	TTL	N74F630D(A)	MULB	*	SO	228- 37
8♦	74LS630	TTL	N74F630D(A)	PHIN	*	SO	228- 37
9♦	74LS630	TTL	N74F630D(A)	RTCF	*	SO	228- 37
10♦	74LS630	TTL	N74F630D(A)	SIC	*	SO	228- 37
11♦	74LS630	TTL	N74F630D(A)	VALG	*	SO	228- 37
12♦	74LS630	TTL	N74F630N(A)	MULB		DIP	228- 38
13♦	74LS630	TTL	N74F630N(A)	PHIN		DIP	228- 38
14♦	74LS630	TTL	N74F630N(A)	RTCF		DIP	228- 38
15♦	74LS630	TTL	N74F630N(A)	SIC		DIP	228- 38
16♦	74LS630	TTL	N74F630N(A)	VALG		DIP	228- 38
17♦	74LS630	TTL	SN54LS630JD	TII		DIP	245- 61
18♦	74LS630	TTL	SN74LS630N	TII		DIP	245- 68
19♦	74LS630	TTL	54F630DM(A)	FSC		DIP	245- 40
20♦	74LS630	TTL	74F630DC(A)	FSC		DIP	245- 53
21♦	74LS630	TTL	74F630PC(A)	FSC		DIP	245- 55
22♦	74LS630	TTL	74F630SC(A)	FSC	*	SO	245- 57
23♦	74LS631	TTL	N74F631D(A)	MULB	*	SO	228- 39
24♦	74LS631	TTL	N74F631D(A)	PHIN	*	SO	228- 39
25♦	74LS631	TTL	N74F631D(A)	RTCF	*	SO	228- 39
26♦	74LS631	TTL	N74F631D(A)	SIC	*	SO	228- 39
27♦	74LS631	TTL	N74F631D(A)	VALG	*	SO	228- 39
28♦	74LS631	TTL	N74F631N(A)	MULB		DIP	228- 40
29♦	74LS631	TTL	N74F631N(A)	PHIN		DIP	228- 40
30♦	74LS631	TTL	N74F631N(A)	RTCF		DIP	228- 40
31♦	74LS631	TTL	N74F631N(A)	SIC		DIP	228- 40
32♦	74LS631	TTL	N74F631N(A)	VALG		DIP	228- 40
33♦	74LS631	TTL	SN74LS631N	TII		DIP	245- 69
34♦	74ALS632	TTL	SN54ALS632AJD	TII		DIP	245- 60
35♦	74ALS632	TTL	SN74ALS632AJD	TII		DIP	245- 64
36▼	74ALS632	TTL	SN74ALS632BJD	TII		DIP	245- 65
37♦	74ALS632	TTL	SN74AS632JD(A)	TII		DIP	245- 67
38▼	74ALS634	TTL	SN74ALS634AJD	TII		DIP	245- 66
39♦	74LS636	TTL	SN74LS636N	TII		DIP	245- 70
40♦	74LS637	TTL	SN74LS637N	TII		DIP	245- 71
41♦	74ALS666	TTL	SN74ALS666DW	TII	*	SO	236-101
42▼	74ALS666	TTL	SN74ALS666NT	TII		DIP	236-103
43♦	74ALS667	TTL	SN74ALS667DW	TII	*	SO	237- 28
44▼	74ALS667	TTL	SN74ALS667NT	TII		DIP	237- 30
45▼	74-668	TTL	HD74LS668G	HITJ		DIP	179- 7
46♦	74-668	TTL	HD74LS668P	HITJ		DIP	179- 8
47▼	74HC668	CMOS	HD74HC668FP	HITJ	*	SO	178- 82
48▼	74HC668	CMOS	HD74HC668P	HITJ		DIP	178- 83
49▼	74HC669	CMOS	HD74HC669FP	HITJ	*	SO	161- 93
50▼	74HC669	CMOS	HD74HC669P	HITJ		DIP	161- 94
51▼	74LS677	CMOS	HD74HC677FP	HITJ	*	FP	215- 35
52▼	74LS677	CMOS	HD74HC677P	HITJ		DIP	215- 36
53▼	74LS677	CMOS	SN74HC677NT(A)	TII		DIP	215- 22
54♦	74LS677	TTL	DM54ALS677J(A)	NSC		DIP	215- 33
55♦	74LS677	TTL	DM74ALS677J(A)	NSC		DIP	215- 24
56♦	74LS677	TTL	DM74ALS677N(A)	NSC		DIP	215- 25
57♦	74LS677	TTL	SN74ALS677NT	TII		DIP	215- 29
58▼	74LS678	CMOS	HD74HC678FP	HITJ	*	FP	215- 37
59▼	74LS678	CMOS	HD74HC678P	HITJ		DIP	215- 38
60▼	74LS678	CMOS	SN74HC678NT(A)	TII		DIP	215- 23
61♦	74LS678	TTL	DM54ALS678J(A)	NSC		DIP	215- 34
62♦	74LS678	TTL	DM74ALS678J(A)	NSC		DIP	215- 26
63♦	74LS678	TTL	DM74ALS678N(A)	NSC		DIP	215- 27
64▼	74LS678	TTL	SN74ALS678DW	TII	*	SO	215- 30
65♦	74LS678	TTL	SN74ALS678NT	TII		DIP	215- 32
66▼	74LS679	CMOS	HD74HC679FP	HITJ	*	SO	215- 18
67▼	74LS679	CMOS	HD74HC679P	HITJ		DIP	215- 19
68♦	74LS679	TTL	DM54ALS679J(A)	NSC		DIP	215- 16
69♦	74LS679	TTL	DM74ALS679J(A)	NSC		DIP	215- 12
70♦	74LS679	TTL	DM74ALS679N(A)	NSC		DIP	215- 13
71▼	74LS679	TTL	SN74ALS679DW	TII	*	SO	215- 10
72♦	74LS679	TTL	SN74ALS679N	TII		DIP	215- 11
73▼	74LS680	CMOS	HD74HC680FP	HITJ	*	SO	215- 20
74▼	74LS680	CMOS	HD74HC680P	HITJ		DIP	215- 21
75♦	74LS680	TTL	DM54ALS680J(A)	NSC		DIP	215- 17
76♦	74LS680	TTL	DM74ALS680J(A)	NSC		DIP	215- 14
77♦	74LS680	TTL	DM74ALS680N(A)	NSC		DIP	215- 15
78▼	74LS680	TTL	SN74ALS680DW	TII	*	SO	215- 8
79♦	74LS680	TTL	SN74ALS680N	TII		DIP	215- 9
80♦	74LS681	TTL	SN54LS681J	TII		DIP	222- 67
81♦	74LS681	TTL	SN74LS681N	TII		DIP	222- 68
82▼	74LS682	CMOS	HD74HC682FP	HITJ	*	SO	218-102
83▼	74LS682	CMOS	HD74HC682P	HITJ		DIP	218-103
84▼	74LS682	CMOS	SN74HC682N(A)	TII		DIP	218- 27
85♦	74LS682	TTL	M74LS682P	MITA		DIP	218- 54
86♦	74LS682	TTL	SN54LS682J	MOTA		DIP	218- 56
87♦	74LS682	TTL	SN54LS682J	TII		DIP	218- 56
88▼	74LS682	TTL	SN54LS682N	MOTA		DIP	218- 57
89♦	74LS682	TTL	SN74LS682DW	TII	*	SO	218- 62
90♦	74LS682	TTL	SN74LS682N	TII		DIP	218- 63
91♦	74LS683	TTL	M74LS683P	MITA		DIP	218- 85
92♦	74LS683	TTL	SN54LS683J	MOTA		DIP	218- 88
93♦	74LS683	TTL	SN54LS683J	TII		DIP	218- 88
94▼	74LS683	TTL	SN54LS683N	MOTA		DIP	218- 89
95♦	74LS683	TTL	SN74LS683J	MOTA		DIP	218- 92
96♦	74LS683	TTL	SN74LS683N	MOTA		DIP	218- 93
97♦	74LS683	TTL	SN74LS683N	TII		DIP	218- 93
98▼	74LS684	CMOS	HD74HC684FP	HITJ	*	SO	218-104
99▼	74LS684	CMOS	HD74HC684P	HITJ		DIP	218-105
100▼	74LS684	CMOS	SN74HC684N(A)	TII		DIP	218- 28
101♦	74LS684	TTL	M74LS684P	MITA		DIP	218- 55
102♦	74LS684	TTL	SN54LS684J	MOTA		DIP	218- 58
103♦	74LS684	TTL	SN54LS684J	TII		DIP	218- 58
104▼	74LS684	TTL	SN54LS684N	MOTA		DIP	218- 59
105♦	74LS684	TTL	SN74LS684DW	TII	*	SO	218- 64
106♦	74LS684	TTL	SN74LS684J	MOTA		DIP	218- 65
107♦	74LS684	TTL	SN74LS684N	TII		DIP	218- 66
108♦	74LS685	TTL	M74LS685P	MITA		DIP	218- 86
109♦	74LS685	TTL	SN54LS685J	MOTA		DIP	218- 90
110▼	74LS685	TTL	SN54LS685N	MOTA		DIP	218- 91
111♦	74LS685	TTL	SN74LS685J	MOTA		DIP	218- 94
112♦	74LS685	TTL	SN74LS685N	MOTA		DIP	218- 95
113♦	74LS685	TTL	SN74LS685N	TII		DIP	218- 95
114♦	74LS686		SN74LS686J	MOTA		DIP	218- 48
115♦	74LS686		SN74LS686N	MOTA		DIP	218- 49
116▼	74LS686	CMOS	HD74HC686FP	HITJ	*	FP	218-106
117▼	74LS686	CMOS	HD74HC686P	HITJ		DIP	218-107
118♦	74LS686	TTL	SN54LS686J	MOTA		DIP	218- 60
119▼	74LS686	TTL	SN54LS686N	MOTA		DIP	218- 61
120♦	74LS686	TTL	SN74LS686NT	TII		DIP	218- 67
121♦	74LS687		SN74LS687J	MOTA		DIP	218- 71
122♦	74LS687		SN74LS687N	MOTA		DIP	218- 72
123♦	74LS687	TTL	SN54LS687J	MOTA		DIP	218- 69
124▼	74LS687	TTL	SN54LS687N	MOTA		DIP	218- 70
125♦	74LS687	TTL	SN74LS687NT	TII		DIP	218- 73
126▼	74-688	CMOS	HD74HCT688FP	HITJ	*	SO	218- 29
127▼	74-688	CMOS	HD74HCT688P	HITJ		DIP	218- 30
128▼	74-688	CMOS	HD74HC688FP	HITJ	*	SO	219- 3
129▼	74-688	CMOS	HD74HC688P	HITJ		DIP	219- 4
130	74-688	CMOS	PC74HCT688T(A)	MULB	*	SO	218- 99
131	74-688	CMOS	PC74HCT688T(A)	PHIN	*	SO	218- 99
132	74-688	CMOS	PC74HCT688T(A)	RTCF	*	SO	218- 99
133	74-688	CMOS	PC74HCT688T(A)	VALG	*	SO	218- 99
134♦	74-688	CMOS	PC74HC688P	MULB		DIP	219- 1
135♦	74-688	CMOS	PC74HC688P	PHIN		DIP	219- 1
136♦	74-688	CMOS	PC74HC688P	RTCF		DIP	219- 1
137♦	74-688	CMOS	PC74HC688P	VALG		DIP	219- 1
138	74-688	CMOS	PC74HC688T(A)	MULB	*	SO	219- 2
139	74-688	CMOS	PC74HC688T(A)	PHIN	*	SO	219- 2
140	74-688	CMOS	PC74HC688T(A)	RTCF	*	SO	219- 2
141	74-688	CMOS	PC74HC688T(A)	VALG	*	SO	219- 2
142▼	74-688	CMOS	TC74HC688F(A)	TOSA	*	SO	218-100
143▼	74-688	CMOS	TC74HC688P(A)	TOSA		DIP	218-101
144	74-688	CMOS	74HCT688D	SIC	*	SO	218- 50
145♦	74-688	CMOS	74HCT688N	SIC		DIP	218- 51
146	74-688	CMOS	74HC688D	SIC	*	SO	218- 40
147♦	74-688	CMOS	74HC688N	SIC		DIP	218- 41
148♦	74LS688	CMOS	CD54HCT688F	RCA		DIP	218-109
149♦	74LS688	CMOS	CD54HC688F	RCA		DIP	218-108
150♦	74LS688	CMOS	CD74HCT688E	RCA		DIP	218- 81
151♦	74LS688	CMOS	CD74HC688E	RCA		DIP	218- 79
152♦	74LS688	CMOS	MM54HCT688J(A)	NSC		DIP	218-110
153♦	74LS688	CMOS	MM54HC688J	NSC		DIP	218- 87
154♦	74LS688	CMOS	MM74HCT688J(A)	NSC		DIP	218- 83
155♦	74LS688	CMOS	MM74HCT688N(A)	NSC		DIP	218- 84
156♦	74LS688	CMOS	MM74HC688J	NSC		DIP	216- 28
157♦	74LS688	CMOS	MM74HC688N	NSC		DIP	216- 29
158♦	74LS688	CMOS	M54HC688F1(A)	SGSI		DIP	218- 74
159♦	74LS688	CMOS	M74HC688B1(A)	SGSI		DIP	218- 96
160♦	74LS688	CMOS	M74HC688F1(A)	SGSI		DIP	218- 98
161♦	74LS688	CMOS	SN74HC688N(A)	TII		DIP	215- 66
162♦	74LS688	TTL	M74LS688P	MITA		DIP	218- 52
163♦	74LS688	TTL	SN54LS688J	MOTA		DIP	218- 42
164♦	74LS688	TTL	SN54LS688J	TII		DIP	218- 42
165▼	74LS688	TTL	SN54LS688N	MOTA		DIP	218- 43
166▼	74LS688	TTL	SN74ALS688DW	TII	*	SO	216- 4
167♦	74LS688	TTL	SN74ALS688N	TII		DIP	216- 5
168♦	74LS688	TTL	SN74LS688DW	TII	*	SO	218- 44
169♦	74LS688	TTL	SN74LS688J	MOTA		DIP	218- 68
170♦	74LS688	TTL	SN74LS688N	TII		DIP	218- 45
171♦	74LS688N	CMOS	MC54HC688J(A)	MOTA		DIP	219- 7
172♦	74LS688N	CMOS	MC74HC688J(A)	MOTA		DIP	219- 5
173♦	74LS688N	CMOS	MC74HC688N(A)	MOTA		DIP	219- 6
174♦	74LS689	TTL	DM54ALS689J	NSC		DIP	218- 53
175♦	74LS689	TTL	DM74ALS689J	NSC		DIP	218- 46
176♦	74LS689	TTL	DM74ALS689N	NSC		DIP	218- 47
177♦	74LS689	TTL	M74LS689P	MITA		DIP	218- 75
178♦	74LS689	TTL	SN54LS689J	MOTA		DIP	218- 76
179♦	74LS689	TTL	SN54LS689J	TII		DIP	218- 76
180▼	74LS689	TTL	SN54LS689N	MOTA		DIP	218- 77
181♦	74LS689	TTL	SN74LS689N	MOTA		DIP	218- 78
182♦	74LS689	TTL	SN74LS689N	TII		DIP	218- 78
183▼	74LS689N	TTL	SN74ALS689DW	TII	*	SO	216- 15
184♦	74LS689N	TTL	SN74ALS689N	TII		DIP	216- 16
185▼	74LS690	CMOS	M54HC690F1	SGSI		DIP	172- 44
186▼	74LS690	CMOS	M74HC690B1	SGSI		DIP	172- 46
187▼	74LS690	CMOS	M74HC690F1	SGSI		DIP	172- 48
188▼	74LS690	CMOS	TC74HC690P	TOSA		DIP	175- 32
189♦	74LS690	TTL	SN74LS690N	TII		DIP	174- 19
190▼	74LS691	CMOS	M54HC691F1	SGSI		DIP	154- 4
191▼	74LS691	CMOS	M74HC691B1	SGSI		DIP	154- 5
192▼	74LS691	CMOS	M74HC691F1	SGSI		DIP	154- 7
193▼	74LS691	CMOS	TC74HC691P	TOSA		DIP	157- 71
194♦	74LS691	TTL	SN54LS691J	TII		DIP	156- 34
195♦	74LS691	TTL	SN74LS691N	TII		DIP	156- 36
196▼	74LS692	CMOS	M54HC692F1	SGSI		DIP	172- 45
197▼	74LS692	CMOS	M74HC692F1	SGSI		DIP	172- 51
198♦	74LS692	TTL	SN74LS692N	TII		DIP	174- 20
199▼	74LS693	CMOS	M54HC693F1	SGSI		DIP	154- 25
200▼	74LS693	CMOS	M74HC693B1	SGSI		DIP	154- 26
201▼	74LS693	CMOS	M74HC693F1	SGSI		DIP	154- 28
202▼	74LS693	CMOS	TC74HC693P	TOSA		DIP	157- 72
203♦	74LS693	TTL	SN54LS693J	TII		DIP	156- 35
204♦	74LS693	TTL	SN74LS693N	TII		DIP	156- 37
205▼	74LS696	CMOS	M54HC696F1	SGSI		DIP	177- 24
206▼	74LS696	CMOS	M74HC696B1	SGSI		DIP	177- 32
207▼	74LS696	CMOS	M74HC696F1	SGSI		DIP	177- 34
208▼	74LS696	CMOS	TC74HC696P	TOSA		DIP	179-103
209♦	74LS696	TTL	SN54LS696J	TII		DIP	178- 75
210♦	74LS696	TTL	SN74LS696N	TII		DIP	178- 78
211▼	74LS697	CMOS	M54HC697F1	SGSI		DIP	159- 69
212▼	74LS697	CMOS	M74HC697B1	SGSI		DIP	159- 77
213▼	74LS697	CMOS	M74HC697F1	SGSI		DIP	159- 79
214▼	74LS697	CMOS	TC74HC697P	TOSA		DIP	163- 4
215♦	74LS697	TTL	SN54LS697J	TII		DIP	161- 87
216♦	74LS697	TTL	SN74LS697DW	TII	*	SO	161- 89
217♦	74LS697	TTL	SN74LS697N	TII		DIP	161- 90
218▼	74LS698	CMOS	M54HC698F1	SGSI		DIP	177- 25
219▼	74LS698	CMOS	M74HC698B1	SGSI		DIP	177- 35
220▼	74LS698	CMOS	M74HC698F1	SGSI		DIP	177- 37

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	SMD	PKG TYPE	PAGE & LINE
1♦	74LS698	TTL	SN74LS698N	TII		DIP	178- 79
2▼	74LS699	CMOS	M54HC699F1	SGSI		DIP	159- 70
3▼	74LS699	CMOS	M74HC699B1	SGSI		DIP	159- 80
4▼	74LS699	CMOS	M74HC699F1	SGSI		DIP	159- 82
5♦	74LS699	TTL	SN54LS699J	TII		DIP	161- 88
6♦	74LS699	TTL	SN74LS699DW	TII	*	SO	161- 91
7♦	74LS699	TTL	SN74LS699N	TII		DIP	161- 92
8♦	74LS716	TTL	SN54LS716J	MOTA		DIP	172- 52
9▼	74LS716	TTL	SN54LS716N	MOTA		DIP	172- 53
10♦	74LS716	TTL	SN74LS718J	MOTA		DIP	173- 15
11♦	74LS716	TTL	SN74LS718N	MOTA		DIP	173- 16
12♦	74LS718	TTL	SN54LS718J	MOTA		DIP	172- 54
13▼	74LS718	TTL	SN54LS718N	MOTA		DIP	172- 55
14♦	74F779	TTL	N74F779D	MULB	*	SO	169- 77
15♦	74F779	TTL	N74F779D	PHIN	*	SO	169- 77
16♦	74F779	TTL	N74F779D	RTCF	*	SO	169- 77
17♦	74F779	TTL	N74F779D	SIC	*	SO	169- 77
18♦	74F779	TTL	N74F779D	VALG	*	SO	169- 77
19♦	74F779	TTL	N74F779N	MULB		DIP	169- 78
20♦	74F779	TTL	N74F779N	PHIN		DIP	169- 78
21♦	74F779	TTL	N74F779N	RTCF		DIP	169- 78
22♦	74F779	TTL	N74F779N	SIC		DIP	169- 78
23♦	74F779	TTL	N74F779N	VALG		DIP	169- 78
24♦	74F784	TTL	N74F784D(A)	MULB	*	SO	202- 65
25♦	74F784	TTL	N74F784D(A)	PHIN	*	SO	202- 65
26♦	74F784	TTL	N74F784D(A)	RTCF	*	SO	202- 65
27♦	74F784	TTL	N74F784D(A)	SIC	*	SO	202- 65
28♦	74F784	TTL	N74F784D(A)	VALG	*	SO	202- 65
29♦	74F784	TTL	N74F784N(A)	MULB		DIP	202- 66
30♦	74F784	TTL	N74F784N(A)	PHIN		DIP	202- 66
31♦	74F784	TTL	N74F784N(A)	RTCF		DIP	202- 66
32♦	74F784	TTL	N74F784N(A)	SIC		DIP	202- 66
33♦	74F784	TTL	N74F784N(A)	VALG		DIP	202- 66
34♦	74AC793	CMOS	74ACT793J	MMI		DIP	239- 48
35♦	74AC793	CMOS	74ACT793N	MMI		DIP	239- 49
36♦	74AC793	CMOS	74ACT794J	MMI		DIP	239- 50
37♦	74AC793	CMOS	74ACT794N	MMI		DIP	239- 51
38▼	74ALS810	TTL	SN74ALS810D	TII	*	SO	90- 70
39♦	74ALS810	TTL	SN74ALS810N	TII		DIP	90- 71
40♦	74LS810	TTL	DM54ALS810J	NSC		DIP	89-104
41♦	74LS810	TTL	DM54ALS811J	NSC		DIP	89-105
42♦	74LS810	TTL	DM54AS810J(A)	NSC		DIP	89-106
43♦	74LS810	TTL	DM54AS811J(A)	NSC		DIP	89-107
44♦	74LS810	TTL	DM74ALS810J	NSC		DIP	89-109
45♦	74LS810	TTL	DM74ALS810N	NSC		DIP	89-110
46♦	74LS810	TTL	DM74ALS811J	NSC		DIP	90- 1
47♦	74LS810	TTL	DM74ALS811N	NSC		DIP	90- 2
48♦	74LS810	TTL	DM74AS810J(A)	NSC		DIP	90- 3
49♦	74LS810	TTL	DM74AS810N(A)	NSC		DIP	90- 4
50♦	74LS810	TTL	DM74AS811J(A)	NSC		DIP	90- 5
51♦	74LS810	TTL	DM74AS811N(A)	NSC		DIP	90- 6
52▼	74ALS811	TTL	SN74ALS811D	TII	*	SO	90-102
53♦	74ALS811	TTL	SN74ALS811N	TII		DIP	90-103
54▼	74AS821	TTL	N74F821D(A)	PHIN	*	SO	242- 50
55▼	74AS821	TTL	N74F821N(A)	PHIN		DIP	242- 51
56▼	74AS821	TTL	SN74AS821DW	TII	*	SO	49- 55
57♦	74AS821	TTL	SN74AS821NT	TII		DIP	49- 57
58▼	74AS822	TTL	N74F822D(A)	PHIN	*	SO	242- 52
59▼	74AS822	TTL	N74F822N(A)	PHIN		DIP	242- 53
60▼	74AS822	TTL	SN74AS822DW	TII	*	SO	49- 58
61♦	74AS822	TTL	SN74AS822NT	TII		DIP	49- 60
62▼	74AS823	TTL	N74F823D(A)	PHIN	*	SO	241- 50
63▼	74AS823	TTL	N74F823N(A)	PHIN		DIP	241- 51
64▼	74AS823	TTL	SN74AS823DW	TII	*	SO	49- 61
65♦	74AS823	TTL	SN74AS823NT	TII		DIP	49- 63
66▼	74AS824	TTL	N74F824D(A)	PHIN	*	SO	241- 52
67▼	74AS824	TTL	N74F824N(A)	PHIN		DIP	241- 53
68▼	74AS824	TTL	SN74AS824DW	TII	*	SO	49- 64
69♦	74AS824	TTL	SN74AS824NT	TII		DIP	49- 66
70▼	74AS825	TTL	AM29825LCB	AMD	*	LLCC	49- 41
71▼	74AS825	TTL	N74F825D(A)	PHIN	*	SO	233- 69
72▼	74AS825	TTL	N74F825N(A)	PHIN		DIP	233- 70
73▼	74AS825	TTL	SN74AS825DW	TII	*	SO	49- 67
74♦	74AS825	TTL	SN74AS825NT	TII		DIP	49- 69
75▼	74AS826	TTL	N74F826D(A)	PHIN	*	SO	233- 71
76▼	74AS826	TTL	N74F826N(A)	PHIN		DIP	233- 72
77▼	74AS826	TTL	SN74AS826DW	TII	*	SO	49- 70
78♦	74AS826	TTL	SN74AS826NT	TII		DIP	49- 72
79▼	74AS841	TTL	AM29821DCB	AMD		DIP	49- 7
80▼	74AS841	TTL	AM29821DMB	AMD		DIP	49- 9
81▼	74AS841	TTL	AM29821LCB	AMD	*	LLCC	49- 11
82▼	74AS841	TTL	AM29821LMB	AMD	*	LLCC	49- 13
83♦	74AS841	TTL	DM54AS841J(A)	NSC		DIP	242- 92
84♦	74AS841	TTL	DM74AS841N(A)	NSC		DIP	242- 80
85▼	74AS841	TTL	SN74AS841DW	TII	*	SO	242- 82
86♦	74AS841	TTL	SN74AS841NT	TII		DIP	242- 84
87▼	74AS841N	TTL	AM29821DC	AMD		DIP	49- 6
88▼	74AS841N	TTL	AM29821DM	AMD		DIP	49- 8
89▼	74AS841N	TTL	AM29821LC	AMD	*	LLCC	49- 10
90▼	74AS841N	TTL	AM29821LM	AMD	*	LLCC	49- 12
91▼	74AS841N	TTL	SN74ALS841-1DW	TII	*	SO	242-102
92▼	74AS841N	TTL	SN74ALS841DW	TII	*	SO	242-104
93♦	74AS841N	TTL	SN74ALS841NT	TII		DIP	242-106
94▼	74AS842	TTL	AM29822DCB	AMD		DIP	49- 15
95▼	74AS842	TTL	AM29822DMB	AMD		DIP	49- 17
96▼	74AS842	TTL	AM29822LCB	AMD	*	LLCC	49- 19
97▼	74AS842	TTL	AM29822LMB	AMD	*	LLCC	49- 21
98♦	74AS842	TTL	DM54AS842J(A)	NSC		DIP	242- 93
99♦	74AS842	TTL	DM74AS842N(A)	NSC		DIP	242- 81
100▼	74AS842	TTL	N74F842D(A)	PHIN	*	SO	242- 56
101▼	74AS842	TTL	N74F842N(A)	PHIN		DIP	242- 57
102▼	74AS842	TTL	SN74ALS842-1DW	TII	*	SO	243- 19
103▼	74AS842	TTL	SN74ALS842DW	TII	*	SO	243- 21
104♦	74AS842	TTL	SN74ALS842NT	TII		DIP	243- 23
105▼	74AS842	TTL	SN74AS842DW	TII	*	SO	242- 85
106♦	74AS842	TTL	SN74AS842NT	TII		DIP	242- 87
107▼	74AS842N	TTL	AM29822DC	AMD		DIP	49- 14
108♦	74AS842N	TTL	AM29822DM	AMD		DIP	49- 16
109▼	74AS842N	TTL	AM29822LC	AMD	*	LLCC	49- 18
110▼	74AS842N	TTL	AM29822LM	AMD	*	LLCC	49- 20
111▼	74AS843	TTL	AM29823DCB	AMD		DIP	49- 23
112▼	74AS843	TTL	AM29823DMB	AMD		DIP	49- 25
113▼	74AS843	TTL	AM29823LCB	AMD	*	LLCC	49- 27
114▼	74AS843	TTL	AM29823LMB	AMD	*	LLCC	49- 29
115♦	74AS843	TTL	DM54AS843J(A)	NSC		DIP	241- 89
116♦	74AS843	TTL	DM74AS843N(A)	NSC		DIP	241- 80
117▼	74AS843	TTL	N74F843D(A)	PHIN	*	SO	241- 54
118▼	74AS843	TTL	N74F843N(A)	PHIN		DIP	241- 55
119♦	74AS843	TTL	SN54ALS843JT	TII		DIP	241- 81
120♦	74AS843	TTL	SN74ALS843NT	TII		DIP	242- 34
121▼	74AS843	TTL	SN74AS843DW	TII	*	SO	241- 82
122♦	74AS843	TTL	SN74AS843NT	TII		DIP	241- 84
123▼	74AS843N	TTL	AM29823DC	AMD		DIP	49- 22
124▼	74AS843N	TTL	AM29823DM	AMD		DIP	49- 24
125▼	74AS843N	TTL	AM29823LC	AMD	*	LLCC	49- 26
126▼	74AS843N	TTL	AM29823LM	AMD	*	LLCC	49- 28
127▼	74AS843N	TTL	SN74ALS843-1DW	TII	*	SO	242- 32
128▼	74AS843N	TTL	SN74ALS843DW	TII	*	SO	242- 33
129♦	74AS844	CMOS	V54ACT844D	VTC		DIP	241-105
130♦	74AS844	CMOS	V74ACT844D	VTC		DIP	242- 6
131♦	74AS844	CMOS	V74ACT844P	VTC		DIP	242- 8
132♦	74AS844	CMOS	V74ACT844PO	VTC		DIP	242- 10
133▼	74AS844	TTL	AM29824DCB	AMD		DIP	49- 31
134▼	74AS844	TTL	AM29824DMB	AMD		DIP	49- 33
135▼	74AS844	TTL	AM29824LCB	AMD	*	LLCC	49- 35
136♦	74AS844	TTL	DM54AS844J(A)	NSC		DIP	241- 98
137♦	74AS844	TTL	DM74AS844N(A)	NSC		DIP	241- 90
138▼	74AS844	TTL	N74F844D(A)	PHIN	*	SO	241- 56
139▼	74AS844	TTL	N74F844N(A)	PHIN		DIP	241- 57
140▼	74AS844	TTL	SN74AS844DW	TII	*	SO	241- 95
141♦	74AS844	TTL	SN74AS844NT	TII		DIP	241- 97
142▼	74AS844N	TTL	AM29824DC	AMD		DIP	49- 30
143▼	74AS844N	TTL	AM29824DM	AMD		DIP	49- 32
144▼	74AS844N	TTL	AM29824LC	AMD	*	LLCC	49- 34
145	74AS844N	TTL	AM29824LM	AMD	*	LLCC	64- 54
146▼	74AS844N	TTL	SN74ALS844-1DW	TII	*	SO	242- 43
147▼	74AS844N	TTL	SN74ALS844-1NT	TII		DIP	242- 44
148▼	74AS844N	TTL	SN74ALS844DW	TII	*	SO	242- 45
149♦	74AS844N	TTL	SN74ALS844NT	TII		DIP	242- 46
150♦	74AS845	CMOS	V54ACT845D	VTC		DIP	241-107
151♦	74AS845	CMOS	V54ACT845DL	VTC	*	LLCC	241-108
152♦	74AS845	CMOS	V74ACT845D	VTC		DIP	242- 11
153♦	74AS845	CMOS	V74ACT845DL	VTC	*	LLCC	242- 12
154♦	74AS845	CMOS	V74ACT845P	VTC		DIP	242- 13
155♦	74AS845	CMOS	V74ACT845PK	VTC	*	LDCC	242- 14
156♦	74AS845	CMOS	V74ACT845PO	VTC	*	SO	242- 15
157▼	74AS845	TTL	AM29825DCB	AMD		DIP	49- 37
158▼	74AS845	TTL	AM29825DMB	AMD		DIP	49- 39
159▼	74AS845	TTL	AM29825LMB	AMD	*	LLCC	49- 43
160♦	74AS845	TTL	DM54AS845J(A)	NSC		DIP	235- 15
161♦	74AS845	TTL	DM74AS845N(A)	NSC		DIP	234- 95
162▼	74AS845	TTL	N74F845D(A)	PHIN	*	SO	233- 73
163▼	74AS845	TTL	N74F845N(A)	PHIN		DIP	233- 74
164▼	74AS845	TTL	SN74AS845DW	TII	*	SO	234-101
165▼	74AS845N	TTL	AM29825DC	AMD		DIP	49- 36
166▼	74AS845N	TTL	AM29825DM	AMD		DIP	49- 38
167▼	74AS845N	TTL	AM29825LC	AMD	*	LLCC	49- 40
168▼	74AS845N	TTL	AM29825LM	AMD	*	LLCC	49- 42
169▼	74AS845N	TTL	SN74ALS845-1DW	TII	*	SO	236-104
170▼	74AS845N	TTL	SN74ALS845-1NT	TII		DIP	236-105
171▼	74AS845N	TTL	SN74ALS845DW	TII	*	SO	236-106
172♦	74AS845N	TTL	SN74ALS845NT	TII		DIP	236-107
173♦	74AS846	CMOS	V54ACT846D	VTC		DIP	241-109
174♦	74AS846	CMOS	V74ACT846D	VTC		DIP	242- 16
175♦	74AS846	CMOS	V74ACT846P	VTC		DIP	242- 18
176♦	74AS846	CMOS	V74ACT846PO	VTC	*	SO	242- 20
177▼	74AS846	TTL	AM29826DCB	AMD		DIP	49- 45
178▼	74AS846	TTL	AM29826DMB	AMD		DIP	49- 47
179▼	74AS846	TTL	AM29826LCB	AMD	*	LLCC	49- 49
180▼	74AS846	TTL	AM29826LM	AMD	*	LLCC	49- 50
181▼	74AS846	TTL	AM29826LMB	AMD	*	LLCC	49- 51
182♦	74AS846	TTL	DM54AS846J(A)	NSC		DIP	233- 88
183♦	74AS846	TTL	DM74AS846N(A)	NSC		DIP	233- 89
184▼	74AS846	TTL	N74F846D(A)	PHIN	*	SO	233- 75
185▼	74AS846	TTL	N74F846N(A)	PHIN		DIP	233- 76
186▼	74AS846	TTL	SN74AS846DW	TII	*	SO	235- 32
187♦	74AS846	TTL	SN74AS846NT	TII		DIP	235- 34
188▼	74AS846N	TTL	AM29826DC	AMD		DIP	49- 44
189▼	74AS846N	TTL	AM29826DM	AMD		DIP	49- 46
190▼	74AS846N	TTL	AM29826LC	AMD	*	LLCC	49- 48
191▼	74AS846N	TTL	SN74ALS846-1NT	TII		DIP	237- 31
192▼	74AS846N	TTL	SN74ALS846DW	TII	*	SO	237- 32
193♦	74AS846N	TTL	SN74ALS846NT	TII		DIP	237- 33
194♦	74AS866	TTL	SN74AS866N	TII		DIP	218- 32
195▼	74AS867	TTL	SN74ALS867NT	TII		DIP	169- 66
196▼	74AS867	TTL	SN74AS867DW	TII	*	SO	169- 67
197♦	74AS867	TTL	SN74AS867NT	TII		DIP	169- 69
198▼	74AS869	TTL	SN74AS869DW	TII	*	SO	169- 63
199♦	74AS869	TTL	SN74AS869NT	TII		DIP	169- 65
200♦	74AS873	TTL	DM54ALS873J	NSC		DIP	230- 92
201♦	74AS873	TTL	DM54AS873J	NSC		DIP	230- 58
202♦	74AS873	TTL	DM74ALS873J	NSC		DIP	230- 77
203♦	74AS873	TTL	DM74ALS873N	NSC		DIP	230- 78
204♦	74AS873	TTL	DM74AS873J	NSC		DIP	230- 45
205♦	74AS873	TTL	DM74AS873N	NSC		DIP	230- 46
206♦	74AS873	TTL	M74ALS873P	MITA		DIP	237- 72
207♦	74AS873	TTL	M74ALS873P	MITJ		DIP	237- 72
208▼	74AS873	TTL	SN54ALS873BJT	TII		DIP	230- 94
209▼	74AS873	TTL	SN74ALS873BDW	TII	*	SO	230- 81
210▼	74AS873	TTL	SN74ALS873BNT	TII		DIP	230- 83
211▼	74AS873	TTL	SN74AS873DW	TII	*	SO	230- 47
212♦	74AS873	TTL	SN74AS873NT	TII		DIP	230- 49
213♦	74AS874	CMOS	V54ACT874D	VTC		DIP	62-104
214♦	74AS874	CMOS	V74ACT874D	VTC		DIP	63- 3
215♦	74AS874	CMOS	V74ACT874P	VTC		DIP	63- 4
216♦	74AS874	CMOS	V74ACT874PO	VTC	*	SO	63- 5
217♦	74AS874	TTL	DM54ALS874J	NSC		DIP	60- 46
218♦	74AS874	TTL	DM54AS874J	NSC		DIP	63- 67
219♦	74AS874	TTL	DM74ALS874J	NSC		DIP	60- 91
220♦	74AS874	TTL	DM74ALS874N	NSC		DIP	60- 92

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

FUNCTIONAL EQUIVALENCE INDEX

IN ORDER OF: (1) FUNCTIONAL NO. (2) TECHNOLOGY & (3) TYPE NUMBER

LINE No.	1 FUNCTIONAL NUMBER	2 TECH	3 TYPE NUMBER	MFR CODE	PKG SMD	PKG TYPE	PAGE & LINE
1♦	74AS874	TTL	DM74AS874J	NSC		DIP	64- 8
2♦	74AS874	TTL	DM74AS874N	NSC		DIP	64- 9
3♦	74AS874	TTL	M74ALS874P	MITA		DIP	60-100
4♦	74AS874	TTL	M74ALS874P	MITJ		DIP	60-100
5▼	74AS874	TTL	SN74ALS874BDW	TII	*	SO	61- 20
6▼	74AS874	TTL	SN74AS874DW	TII	*	SO	64- 30
7▼	74AS874	TTL	SN74AS874NT	TII		DIP	64- 31
8♦	74AS876	CMOS	V54ACT876D	VTC		DIP	62-105
9♦	74AS876	CMOS	V74ACT876D	VTC		DIP	63- 6
10♦	74AS876	CMOS	V74ACT876P	VTC		DIP	63- 7
11♦	74AS876	CMOS	V74ACT876PO	VTC	*	SO	63- 8
12♦	74AS876	TTL	DM54ALS876J	NSC		DIP	51- 57
13♦	74AS876	TTL	DM54AS876J	NSC		DIP	63- 68
14♦	74AS876	TTL	DM74ALS876J	NSC		DIP	60- 93
15♦	74AS876	TTL	DM74ALS876N	NSC		DIP	60- 94
16♦	74AS876	TTL	DM74AS876J	NSC		DIP	64- 10
17♦	74AS876	TTL	DM74AS876N	NSC		DIP	64- 11
18♦	74AS876	TTL	M74ALS876P	MITA		DIP	60-101
19♦	74AS876	TTL	M74ALS876P	MITJ		DIP	60-101
20▼	74AS876	TTL	SN74ALS876ADW	TII	*	SO	61- 21
21▼	74AS876	TTL	SN74ALS876ANT	TII		DIP	61- 22
22▼	74AS876	TTL	SN74AS876DW	TII	*	SO	64- 32
23♦	74AS876	TTL	SN74AS876NT	TII		DIP	64- 33
24♦	74ALS878	TTL	M74ALS878P	MITA		DIP	51- 99
25♦	74ALS878	TTL	M74ALS878P	MITJ		DIP	51- 99
26▼	74ALS878	TTL	SN74ALS878ADW	TII	*	SO	52- 1
27▼	74ALS878	TTL	SN74ALS878ANT	TII		DIP	52- 3
28▼	74ALS878	TTL	SN74AS878DW	TII	*	SO	53- 24
29♦	74ALS878	TTL	SN74AS878NT	TII		DIP	53- 26
30♦	74AS878	CMOS	V54ACT878D	VTC		DIP	62-106
31♦	74AS878	CMOS	V74ACT878D	VTC		DIP	63- 9
32♦	74AS878	CMOS	V74ACT878P	VTC		DIP	63- 10
33♦	74AS878	CMOS	V74ACT878PO	VTC	*	SO	63- 11
34♦	74AS878	TTL	DM54AS878J	NSC		DIP	63- 69
35♦	74AS878	TTL	DM74AS878J	NSC		DIP	64- 12
36♦	74AS878	TTL	DM74AS878N	NSC		DIP	64- 13
37♦	74ALS879	TTL	M74ALS879P	MITA		DIP	51-100
38♦	74ALS879	TTL	M74ALS879P	MITJ		DIP	51-100
39▼	74ALS879	TTL	SN74ALS879ADW	TII	*	SO	51- 85
40▼	74ALS879	TTL	SN74ALS879ANT	TII		DIP	51- 87
41▼	74ALS879	TTL	SN74AS879DW	TII	*	SO	53- 27
42♦	74ALS879	TTL	SN74AS879NT	TII		DIP	53- 29
43♦	74AS879	CMOS	V54ACT879D	VTC		DIP	62-107
44♦	74AS879	CMOS	V74ACT879D	VTC		DIP	63- 12
45♦	74AS879	CMOS	V74ACT879P	VTC		DIP	63- 13
46♦	74AS879	CMOS	V74ACT879PO	VTC	*	SO	63- 14
47♦	74AS879	TTL	DM54AS879J	NSC		DIP	63- 70
48♦	74AS879	TTL	DM74AS879J	NSC		DIP	64- 14
49♦	74AS879	TTL	DM74AS879N	NSC		DIP	64- 15
50♦	74AS880	CMOS	V54ACT880D	VTC		DIP	230- 85
51♦	74AS880	CMOS	V74ACT880D	VTC		DIP	230- 87
52♦	74AS880	CMOS	V74ACT880P	VTC		DIP	230- 89
53♦	74AS880	CMOS	V74ACT880PO	VTC	*	SO	230- 91
54♦	74AS880	TTL	DM54ALS880J	NSC		DIP	230- 93
55♦	74AS880	TTL	DM54AS880J	NSC		DIP	230- 68
56♦	74AS880	TTL	DM74ALS880J	NSC		DIP	230- 79
57♦	74AS880	TTL	DM74ALS880N	NSC		DIP	230- 80
58♦	74AS880	TTL	DM74AS880J	NSC		DIP	230- 59
59♦	74AS880	TTL	DM74AS880N	NSC		DIP	230- 60
60♦	74AS880	TTL	M74ALS880P	MITA		DIP	237- 73
61♦	74AS880	TTL	M74ALS880P	MITJ		DIP	237- 73
62▼	74AS880	TTL	SN74ALS880ADW	TII	*	SO	230-105
63▼	74AS880	TTL	SN74ALS880ANT	TII		DIP	230-107
64▼	74AS880	TTL	SN74AS880DW	TII	*	SO	230- 61
65♦	74AS880	TTL	SN74AS880NT	TII		DIP	230- 63
66▼	74AS881	TTL	N74F881D(A)	PHIN	*	SO	226- 4
67♦	74AS881	TTL	N74F881N(A)	PHIN		DIP	226- 5
68▼	74AS881	TTL	SN74AS881ADW	TII	*	SO	220-102
69♦	74AS881	TTL	SN74AS881ANT	TII		DIP	220-104
70▼	74AS882	TTL	N74F882D(A)	PHIN		DIP	225- 18
71▼	74AS882	TTL	N74F882N(A)	PHIN		DIP	225- 19
72♦	74AS882	TTL	SN74AS882NT(A)	TII		DIP	225- 21
73▼	74AS885	TTL	SN74AS885DW	TII	*	SO	218- 33
74♦	74AS885	TTL	SN74AS885NT	TII		DIP	218- 35
75▼	74MM945	CMOS	MM74C945N	MXM		DIP	184- 30
76▼	74MM945	CMOS	MM74C947N	MXM		DIP	184- 32
77▼	74MMZ945	CMOS	MM74C945CQH	MXM	*	LDCC	184- 29
78▼	74MMZ945	CMOS	MM74C947CQH	MXM	*	LDCC	184- 31
79▼	74ALS990	TTL	SN74ALS990DW	TII	*	SO	237- 67
80♦	74ALS990	TTL	SN74ALS990N	TII		DIP	237- 68
81▼	74ALS991	TTL	SN74ALS991DW	TII	*	SO	237- 34
82▼	74ALS992	TTL	SN74ALS992DW	TII	*	SO	242- 29
83♦	74ALS992	TTL	SN74ALS992NT	TII		DIP	242- 31
84▼	74ALS993	TTL	SN74ALS993DW	TII	*	SO	242- 47
85♦	74ALS993	TTL	SN74ALS993NT	TII		DIP	242- 49
86♦	74ALS994	TTL	SN74ALS994NT	TII		DIP	243- 24
87♦	74ALS995	TTL	SN74ALS995NT	TII		DIP	243- 33
88▼	74ALS996	TTL	SN74ALS996-1NT	TII		DIP	238- 8
89♦	74ALS996	TTL	SN74ALS996NT	TII		DIP	238- 9
90▼	74F2960	BIP	MC74F2960-1J(A)	MOTA		DIP	245- 5
91▼	74F2960	BIP	MC74F2960J(A)	MOTA		DIP	245- 6
92♦	74LS4002	CMOS	UPD74HC4002C(A)	NECJ		DIP	117-107
93♦	74-4020	CMOS	UPD74HC4020C(A)	NECJ		DIP	171-107
94♦	74-4024	CMOS	UPD74HC4024C(A)	NECJ		DIP	168-101
95♦	74LS4078	CMOS	UPD74HC4078C(A)	NECJ		DIP	119-103
96▼	74HC7006	CMOS	SN74HC7006NT	TII		DIP	94- 85
97▼	74HC7022	CMOS	SN74HC7022N(A)	TII		DIP	185- 16
98▼	74HC7074	CMOS	SN74HC7074NT(A)	TII		DIP	246- 55
99▼	74ALS29806	TTL	SN74ALS29806NT	TII		DIP	215- 48
100♦	75-11N	TTL	DM75L11D	NSC		DIP	50- 94
101	75-11N	TTL	DM75L11F	NSC	*	FP	50- 95
102♦	75-11N	TTL	DM75L11J	NSC		DIP	52- 41
103♦	75-11N	TTL	DM75L11N	NSC		DIP	50- 96
104	75-11N	TTL	DM75L11W	NSC	*	FP	52- 42
105	75-11N	TTL	DM75L12W	NSC	*	FP	51- 94
106♦	75-11N	TTL	DM7511J	NSC		DIP	52- 43
107♦	75-11N	TTL	DM7511N	NSC		DIP	52- 44
108	75-11N	TTL	DM7511W	NSC	*	FP	52- 45
109♦	75-11N	TTL	DM85L11D	NSC		DIP	50- 97
110	75-11N	TTL	DM85L11F	NSC	*	FP	50- 98
111♦	75-11N	TTL	DM85L11N	NSC		DIP	50- 99
112♦	75-11N	TTL	DM8511J	NSC		DIP	52- 46
113♦	75-11N	TTL	DM8511N	NSC		DIP	52- 47
114	75-11N	TTL	DM8511W	NSC	*	FP	52- 48
115♦	75-12	TTL	DM8512N	NSC		DIP	65- 98
116	75-12N	TTL	DM75L12F	NSC	*	FP	64- 94
117♦	75-12N	TTL	DM75L12J	NSC		DIP	64- 95
118♦	75-12N	TTL	DM75L12N	NSC		DIP	64- 96
119♦	75-12N	TTL	DM7512J	NSC		DIP	65- 95
120♦	75-12N	TTL	DM7512N	NSC		DIP	65- 96
121	75-12N	TTL	DM7512W	NSC	*	FP	65- 97
122	75-12N	TTL	DM85L12F	NSC	*	FP	64- 97
123♦	75-12N	TTL	DM85L12J	NSC		DIP	64- 98
124♦	75-12N	TTL	DM85L12N	NSC		DIP	64- 99
125	75-12N	TTL	DM8512W	NSC	*	FP	65- 99
126♦	75-52N	TTL	DM75L52F	NSC	*	FP	173- 36
127♦	75-52N	TTL	DM75L52J	NSC		DIP	173- 37
128♦	75-52N	TTL	DM75L52N	NSC		DIP	173- 38
129♦	75-52N	TTL	DM75L52W	NSC	*	FP	173- 39
130♦	75-52N	TTL	DM7552J	NSC		DIP	174- 25
131♦	75-52N	TTL	DM7552W	NSC	*	FP	174- 26
132♦	75-52N	TTL	DM85L52F	NSC	*	FP	173- 40
133♦	75-52N	TTL	DM85L52J	NSC		DIP	173- 41
134♦	75-52N	TTL	DM85L52N	NSC		DIP	173- 42
135♦	75-52N	TTL	DM8552J	NSC		DIP	174- 27
136♦	75-52N	TTL	DM8552N	NSC		DIP	174- 28
137♦	75-52N	TTL	DM8552W	NSC	*	FP	174- 29
138♦	75-53N	TTL	DM7553J	NSC		DIP	244- 68
139	75-53N	TTL	DM7553W	NSC	*	FP	244- 69
140♦	75-53N	TTL	DM8553J	NSC		DIP	244- 70
141♦	75-53N	TTL	DM8553N	NSC		DIP	244- 71
142	75-53N	TTL	DM8553W	NSC	*	FP	244- 72
143♦	75-54N	TTL	DM75L54F	NSC	*	FP	155- 10
144♦	75-54N	TTL	DM75L54J	NSC		DIP	155- 11
145♦	75-54N	TTL	DM75L54N	NSC		DIP	155- 12
146♦	75-54N	TTL	DM75L54W	NSC	*	FP	155- 13
147♦	75-54N	TTL	DM7554J	NSC		DIP	156- 55
148♦	75-54N	TTL	DM7554W	NSC	*	FP	156- 56
149♦	75-54N	TTL	DM85L54F	NSC	*	FP	155- 14
150♦	75-54N	TTL	DM85L54J	NSC		DIP	155- 15
151♦	75-54N	TTL	DM85L54N	NSC		DIP	155- 16
152♦	75-54N	TTL	DM8554J	NSC		DIP	156- 57
153♦	75-54N	TTL	DM8554N	NSC		DIP	156- 58
154♦	75-54N	TTL	DM8554W	NSC	*	FP	156- 59
155♦	75-55N	TTL	DM7555J	NSC		DIP	175- 36
156♦	75-55N	TTL	DM7555N	NSC		DIP	176- 7
157♦	75-55N	TTL	DM7555W	NSC	*	FP	175- 37
158♦	75-55N	TTL	DM8555N	NSC		DIP	176- 8
159♦	75-56	TTL	DM7556J	NSC		DIP	186- 5
160♦	75-56N	TTL	DM7556N	NSC		DIP	186- 7
161♦	75-56N	TTL	DM7556W	NSC	*	FP	186- 6
162♦	75-56N	TTL	DM8556N	NSC		DIP	185- 34
163♦	100-104	ECL	F100104DC(A)	FSC		DIP	78-105
164♦	100F104	ECL	F100104FC(A)	FSC	*	FP	78-106
165♦	403-87	ECL	SP4632	PLSB		DIP	195- 28

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1▼	01	N8X01A	MULB	SPECIAL	245- 32
2▼	01	N8X01A	PHIN	SPECIAL	245- 32
3▼	01	N8X01A	RTCF	SPECIAL	245- 32
4▼	01	N8X01A	VALG	SPECIAL	245- 32
5▼	01	N8X01AF	PHIN	SPECIAL	245- 33
6▼	01	N8X01AN	PHIN	SPECIAL	245- 34
7	005	EKLDL005	TNL	TIME DELAY	142- 97
8	005	TTLPW005	TNL	SPECIAL	247- 54
9	005	TTLPW005M	TNL	SPECIAL	247- 55
10	008	EKLDL008	TNL	TIME DELAY	142- 98
11	008	MPY008HC2A	TRW	MULTIPLIER	203- 61
12	008	MPY008HC2C	TRW	MULTIPLIER	203- 50
13	008	MPY008HC2F	TRW	MULTIPLIER	203- 62
14♦	008	MPY008HJ5A	TRW	MULTIPLIER	203- 63
15♦	008	MPY008HJ5C	TRW	MULTIPLIER	203- 51
16♦	008	MPY008HJ5C1	TRW	MULTIPLIER	203- 52
17♦	008	MPY008HJ5F	TRW	MULTIPLIER	203- 64
18♦	008	MPY008HJ5G	TRW	MULTIPLIER	203- 53
19♦	008	MPY008HJ5G1	TRW	MULTIPLIER	203- 54
20♦	08	LMU08DC1	LDI	MULTIPLIER	203- 8
21♦	08	LMU08DC	LDI	MULTIPLIER	203- 37
22♦	08	LMU08DM1	LDI	MULTIPLIER	203- 14
23♦	08	LMU08DM	LDI	MULTIPLIER	203- 48
24♦	08HUJ5	MPY08HUJ5C	TRW	MULTIPLIER	203- 55
25♦	08HUJ5	MPY08HUJ5C1	TRW	MULTIPLIER	203- 56
26♦	08HUJ5	MPY08HUJ5G	TRW	MULTIPLIER	203- 57
27♦	08HUJ5	MPY08HUJ5G1	TRW	MULTIPLIER	203- 58
28♦	8T01	N8T01B	MULB	DECODER	125- 6
29♦	8T01	N8T01B	PHIN	DECODER	125- 6
30♦	8T01	N8T01E	MULB	DECODER	125- 7
31♦	8T01	N8T01E	PHIN	DECODER	125- 7
32♦	8T01	S8T01B	MULB	DECODER	125- 8
33♦	8T01	S8T01B	PHIN	DECODER	125- 8
34♦	8T01	S8T01E	MULB	DECODER	125- 9
35♦	8T01	S8T01E	PHIN	DECODER	125- 9
36♦	8T10	N8T10N	MULB	D FL-FLOP	55- 15
37♦	8T10	N8T10N	PHIN	D FL-FLOP	55- 15
38♦	8T10	N8T10N	RTCF	D FL-FLOP	55- 15
39♦	8T10	N8T10N	SIC	D FL-FLOP	55- 15
40♦	8T10	N8T10N	VALG	D FL-FLOP	55- 15
41♦	8T22	N8T22A	MULB	CLOCK/MV	188- 85
42♦	8T22	N8T22A	PHIN	CLOCK/MV	188- 85
43♦	8T22	N8T22F	MULB	CLOCK/MV	188- 86
44♦	8T22	N8T22F	PHIN	CLOCK/MV	188- 86
45♦	8T22	N8T22F	VALG	CLOCK/MV	188- 86
46♦	8T22	N8T22N	MULB	CLOCK/MV	188- 87
47♦	8T22	N8T22N	PHIN	CLOCK/MV	188- 87
48♦	8T22	N8T22N	RTCF	CLOCK/MV	188- 87
49♦	8T22	N8T22N	SIC	CLOCK/MV	188- 87
50♦	8T22	N8T22N	VALG	CLOCK/MV	188- 87
51♦	8T22	S8T22F	MULB	CLOCK/MV	188- 96
52♦	8T22	S8T22F	PHIN	CLOCK/MV	188- 96
53♦	8T22	S8T22F	SIC	CLOCK/MV	188- 96
54♦	8T22	S8T22F	VALG	CLOCK/MV	188- 96
55♦	8T22	S8T22N	MULB	CLOCK/MV	188- 97
56♦	8T22	S8T22N	PHIN	CLOCK/MV	188- 97
57♦	8T22	S8T22N	VALG	CLOCK/MV	188- 97
58	8T3404	8T3404F	SIC	6-BIT LCH	233- 42
59♦	8T3404	8T3404N	SIC	6-BIT LCH	233- 43
60♦	8T3404	N8T3404F	MULB	6-BIT LCH	233- 37
61♦	8T3404	N8T3404F	VALG	6-BIT LCH	233- 37
62♦	8T3404	N8T3404N	MULB	6-BIT LCH	233- 44
63♦	8T3404	N8T3404N	PHIN	6-BIT LCH	233- 44
64♦	8T3404	N8T3404N	RTCF	6-BIT LCH	233- 44
65♦	8T3404	N8T3404N	SIC	6-BIT LCH	233- 44
66♦	8T3404	N8T3404N	VALG	6-BIT LCH	233- 44
67♦	8TS805	N8TS805F	MULB	8-BIT LCH	235- 25
68♦	8TS805	N8TS805F	RTCF	8-BIT LCH	235- 25
69♦	8TS805	N8TS805F	VALG	8-BIT LCH	235- 25
70♦	8TS805	N8TS805N	MULB	8-BIT LCH	235- 90
71♦	8TS805	N8TS805N	PHIN	8-BIT LCH	235- 90
72♦	8TS805	N8TS805N	RTCF	8-BIT LCH	235- 90
73♦	8TS805	N8TS805N	SIC	8-BIT LCH	235- 90
74♦	8TS805	N8TS805N	VALG	8-BIT LCH	235- 90
75♦	8TS805	S8TS805F	MULB	8-BIT LCH	235- 94
76♦	8TS805	S8TS805F	PHIN	8-BIT LCH	235- 94
77♦	8TS805	S8TS805F	RTCF	8-BIT LCH	235- 94
78♦	8TS805	S8TS805F	SIC	8-BIT LCH	235- 94
79♦	8TS805	S8TS805F	VALG	8-BIT LCH	235- 94
80♦	8TS806	N8TS806F	MULB	D FL-FLOP	62- 87
81♦	8TS806	N8TS806F	RTCF	D FL-FLOP	62- 87
82♦	8TS806	N8TS806F	VALG	D FL-FLOP	62- 87
83♦	8TS806	N8TS806N	MULB	D FL-FLOP	62- 88
84♦	8TS806	N8TS806N	PHIN	D FL-FLOP	62- 88
85♦	8TS806	N8TS806N	RTCF	D FL-FLOP	62- 88
86♦	8TS806	N8TS806N	SIC	D FL-FLOP	62- 88
87♦	8TS806	N8TS806N	VALG	D FL-FLOP	62- 88
88♦	8TS806	S8TS806F	MULB	D FL-FLOP	62- 97
89♦	8TS806	S8TS806F	PHIN	D FL-FLOP	62- 97
90♦	8TS806	S8TS806F	RTCF	D FL-FLOP	62- 97
91♦	8TS806	S8TS806F	SIC	D FL-FLOP	62- 97
92♦	8TS806	S8TS806F	VALG	D FL-FLOP	62- 97
93♦	8TS807	N8TS807F	MULB	8-BIT LCH	235- 26
94♦	8TS807	N8TS807F	RTCF	8-BIT LCH	235- 26
95♦	8TS807	N8TS807F	VALG	8-BIT LCH	235- 26
96♦	8TS807	N8TS807N	MULB	8-BIT LCH	235- 91
97♦	8TS807	N8TS807N	PHIN	8-BIT LCH	235- 91
98♦	8TS807	N8TS807N	RTCF	8-BIT LCH	235- 91
99♦	8TS807	N8TS807N	SIC	8-BIT LCH	235- 91
100♦	8TS807	N8TS807N	VALG	8-BIT LCH	235- 91
101♦	8TS807	S8TS807F	MULB	8-BIT LCH	235- 95
102♦	8TS807	S8TS807F	PHIN	8-BIT LCH	235- 95
103♦	8TS807	S8TS807F	RTCF	8-BIT LCH	235- 95
104♦	8TS807	S8TS807F	SIC	8-BIT LCH	235- 95
105♦	8TS807	S8TS807F	VALG	8-BIT LCH	235- 95
106♦	8TS808	N8TS808F	MULB	D FL-FLOP	62- 89
107♦	8TS808	N8TS808F	RTCF	D FL-FLOP	62- 89
108♦	8TS808	N8TS808F	VALG	D FL-FLOP	62- 89
109♦	8TS808	N8TS808N	MULB	D FL-FLOP	62- 90
110♦	8TS808	N8TS808N	PHIN	D FL-FLOP	62- 90
111♦	8TS808	N8TS808N	RTCF	D FL-FLOP	62- 90
112♦	8TS808	N8TS808N	SIC	D FL-FLOP	62- 90
113♦	8TS808	N8TS808N	VALG	D FL-FLOP	62- 90
114♦	8TS808	S8TS808F	MULB	D FL-FLOP	62- 98
115♦	8TS808	S8TS808F	PHIN	D FL-FLOP	62- 98
116♦	8TS808	S8TS808F	RTCF	D FL-FLOP	62- 98
117♦	8TS808	S8TS808F	SIC	D FL-FLOP	62- 98
118♦	8TS808	S8TS808F	VALG	D FL-FLOP	62- 98
119♦	8TS809	N8TS809F	MULB	8-BIT LCH	235- 27
120♦	8TS809	N8TS809F	RTCF	8-BIT LCH	235- 27
121♦	8TS809	N8TS809F	VALG	8-BIT LCH	235- 27
122♦	8TS809	N8TS809N	MULB	8-BIT LCH	235- 28
123♦	8TS809	N8TS809N	RTCF	8-BIT LCH	235- 28
124♦	8TS809	N8TS809N	VALG	8-BIT LCH	235- 28
125♦	8TS809	S8TS809F	MULB	8-BIT LCH	235- 31
126♦	8TS809	S8TS809F	RTCF	8-BIT LCH	235- 31
127♦	8TS809	S8TS809F	SIC	8-BIT LCH	235- 31
128	0010	DE0010	VLR	TIME DELAY	142- 48
129	010	EKLPG010	TNL	TIME DELAY	132- 39
130	010	TTLPW010	TNL	SPECIAL	247- 56
131	010	TTLPW010M	TNL	SPECIAL	247- 57
132♦	10	DDU4C10	DDD	TIME DELAY	141- 5
133	10	DDU6-10	DDD	TIME DELAY	137- 65
134	10	DDU7-10	DDD	TIME DELAY	137- 82
135♦	10	DDU7F10	DDD	TIME DELAY	146- 73
136	10	DDU7J10	DDD	TIME DELAY	146- 84
137♦	10	DECL10	RHB	TIME DELAY	142- 57
138♦	10	ECLPWG10	RHB	TIME DELAY	152- 45
139	10	EKLPGR10	TNL	TIME DELAY	132- 53
140♦	10	FDM10	RHB	TIME DELAY	128- 78
141♦	10	FDM-10	RHB	TIME DELAY	128- 91
142♦	10	FECL10	RHB	TIME DELAY	128- 5
143♦	10	FSDM10	RHB	TIME DELAY	128-104
144♦	10	MDM10	RHB	TIME DELAY	130- 63
145	10	MDU2-10	DDD	TIME DELAY	129- 43
146	10	MDU2F10	DDD	TIME DELAY	129- 62
147	10	MDU3-10	DDD	TIME DELAY	130- 68
148♦	10	MDU3F10	DDD	TIME DELAY	130- 83
149	10	MDU4-10	DDD	TIME DELAY	131- 7
150♦	10	MECL10	RHB	TIME DELAY	130- 4
151♦	10	MSDM10	RHB	TIME DELAY	130- 97
152♦	10	PECL3-10	RHB	TIME DELAY	133- 65
153♦	10	PLDM7-10	RHB	TIME DELAY	135- 17
154	10	PWC10-5	DDD	TIME DELAY	152- 4
155	10	PWC10-6	DDD	TIME DELAY	152- 5
156	10	PWC10-7	DDD	TIME DELAY	152- 6
157	10	PWC10-8	DDD	TIME DELAY	152- 7
158	10	PWC10-9	DDD	TIME DELAY	152- 8
159♦	10	TTLOS10	RHB	CLOCK/MV	187- 75
160♦	10	TTLPWG10	RHB	TIME DELAY	153- 10
161	10-10	PWC10-10	DDD	TIME DELAY	152- 9
162	10-15	PWC10-15	DDD	TIME DELAY	152- 10
163	10-20	PWC10-20	DDD	TIME DELAY	152- 11
164	10-25	PWC10-25	DDD	TIME DELAY	152- 12
165	10-30	PWC10-30	DDD	TIME DELAY	152- 13
166	10-35	PWC10-35	DDD	TIME DELAY	152- 14
167	10-40	PWC10-40	DDD	TIME DELAY	152- 15
168	10-45	PWC10-45	DDD	TIME DELAY	152- 16
169	10-50	PWC10-50	DDD	TIME DELAY	152- 17
170	10-60	PWC10-60	DDD	TIME DELAY	152- 18
171	10-70	PWC10-70	DDD	TIME DELAY	152- 19
172	10-75	PWC10-75	DDD	TIME DELAY	152- 20
173	10-80	PWC10-80	DDD	TIME DELAY	152- 21
174	10-90	PWC10-90	DDD	TIME DELAY	152- 22
175	10-100	PWC10-100	DDD	TIME DELAY	152- 23
176♦	10G000	*10G000A4F	GBL	NOR GATE	117- 25
177♦	10G000	*10G000A4L	GBL	NOR GATE	117- 26
178♦	10G000	*10G000AF	GBL	NOR GATE	117- 23
179♦	10G000	*10G000AL	GBL	NOR GATE	117- 24
180	10G001	10G001	GBL	NOR GATE	113- 14
181♦	10G021	*10G021A2F	GBL	D FL-FLOP	53- 75
182♦	10G021	*10G021A2L	GBL	D FL-FLOP	53- 76
183	10G021	*10G021A-F	GBL	D FL-FLOP	53- 73
184♦	10G021	*10G021A-L	GBL	D FL-FLOP	53- 74
185♦	10G060	*10G060-2F(A)	GBL	COUNTER	167- 65
186♦	10G060	*10G060-2L(A)	GBL	COUNTER	167- 66
187♦	10G060	*10G060-3F	GBL	COUNTER	167- 56
188♦	10G060	*10G060-3L	GBL	COUNTER	167- 57
189♦	10G060	*10G060-4F(A)	GBL	COUNTER	167- 51
190♦	10G060	*10G060-4L(A)	GBL	COUNTER	167- 52
191♦	10G060	*10G060F(A)	GBL	COUNTER	167- 61
192♦	10G060	*10G060L(A)	GBL	COUNTER	167- 62
193♦	10G065	*10G065-3F(A)	GBL	COUNTER	167- 58
194♦	10G065	*10G065-3L(A)	GBL	COUNTER	167- 59
195♦	10G065	*10G065-4F(A)	GBL	COUNTER	167- 53
196♦	10G065	*10G065-4L(A)	GBL	COUNTER	167- 54
197♦	10G065	*10G065F(A)	GBL	COUNTER	167- 63
198♦	10G065	*10G065L(A)	GBL	COUNTER	167- 64
199	10G070	*10G070-3F(A)	GBL	FREQ DIVID	197- 31
200	10G070	*10G070-3L(A)	GBL	FREQ DIVID	197- 32
201	10G070	*10G070-4F(A)	GBL	FREQ DIVID	197- 33
202	10G070	*10G070-4L(A)	GBL	FREQ DIVID	197- 34
203	10G070	*10G070F(A)	GBL	FREQ DIVID	197- 35
204	10G070	*10G070L(A)	GBL	FREQ DIVID	197- 36
205▼	10H016	MC10H016FN	MMI	COUNTER	169- 20
206▼	10H016	MC10H016FN	MOTA	COUNTER	169- 20
207♦	10H016	MC10H016J	MMI	COUNTER	169- 21
208♦	10H016	MC10H016L	MOTA	COUNTER	167- 30
209▼	10H016	MC10H016LD	MOTA	COUNTER	167- 31
210▼	10H016	MC10H016LDS	MOTA	COUNTER	167- 32
211♦	10H016	MC10H016P	MOTA	COUNTER	167- 33
212▼	10H016	MC10H016PD	MOTA	COUNTER	167- 34
213▼	10H016	MC10H016PDS	MOTA	COUNTER	167- 35
214▼	10H100	MC10H100FN	MOTA	NOR GATE	117- 27
215♦	10H100	MC10H100L	MOTA	NOR GATE	117- 28
216▼	10H100	MC10H100LD	MOTA	NOR GATE	117- 29
217▼	10H100	MC10H100LDS	MOTA	NOR GATE	117- 30
218♦	10H100	MC10H100P	MOTA	NOR GATE	117- 31
219▼	10H100	MC10H100PD	MOTA	NOR GATE	117- 32
220▼	10H100	MC10H100PDS	MOTA	NOR GATE	117- 33

*Surface mount package style

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1▼	10H101	MC10H101FN	MOTA	OR GATE	120- 96
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3▼	10H101	MC10H101LD	MOTA	OR GATE	120- 98
4▼	10H101	MC10H101LDS	MOTA	OR GATE	120- 99
5♦	10H101	MC10H101P	MOTA	OR GATE	120-100
6▼	10H101	MC10H101PD	MOTA	OR GATE	120-101
7▼	10H101	MC10H101PDS	MOTA	OR GATE	120-102
8▼	10H102	MC10H102FN	MOTA	NOR GATE	113- 15
9♦	10H102	MC10H102J(A)	MMI	NOR GATE	113- 22
10♦	10H102	MC10H102L	MOTA	NOR GATE	113- 16
11▼	10H102	MC10H102LD	MOTA	NOR GATE	113- 17
12▼	10H102	MC10H102LDS	MOTA	NOR GATE	113- 18
13♦	10H102	MC10H102N	MMI	NOR GATE	113- 23
14♦	10H102	MC10H102P	MOTA	NOR GATE	113- 19
15▼	10H102	MC10H102PD	MOTA	NOR GATE	113- 20
16▼	10H102	MC10H102PDS	MOTA	NOR GATE	113- 21
17▼	10H103	MC10H103FN	MOTA	OR GATE	120-103
18♦	10H103	MC10H103J(A)	MMI	OR GATE	120-110
19♦	10H103	MC10H103L	MOTA	OR GATE	120-104
20▼	10H103	MC10H103LD	MOTA	OR GATE	120-105
21▼	10H103	MC10H103LDS	MOTA	OR GATE	120-106
22♦	10H103	MC10H103N(A)	MMI	OR GATE	121- 1
23♦	10H103	MC10H103P	MOTA	OR GATE	120-107
24▼	10H103	MC10H103PD	MOTA	OR GATE	120-108
25▼	10H103	MC10H103PDS	MOTA	OR GATE	120-109
26▼	10H104	MC10H104FN	MOTA	AND GATE	77- 7
27♦	10H104	MC10H104J(A)	MMI	AND GATE	77- 14
28♦	10H104	MC10H104L	MOTA	AND GATE	77- 8
29▼	10H104	MC10H104LD	MOTA	AND GATE	77- 9
30▼	10H104	MC10H104LDS	MOTA	AND GATE	77- 10
31♦	10H104	MC10H104N(A)	MMI	AND GATE	77- 15
32♦	10H104	MC10H104P	MOTA	AND GATE	77- 11
33▼	10H104	MC10H104PD	MOTA	AND GATE	77- 12
34▼	10H104	MC10H104PDS	MOTA	AND GATE	77- 13
35▼	10H105	MC10H105FN	MOTA	OR GATE	122- 35
36♦	10H105	MC10H105J(A)	MMI	OR GATE	122- 42
37♦	10H105	MC10H105L	MOTA	OR GATE	122- 36
38▼	10H105	MC10H105LD	MOTA	OR GATE	122- 37
39▼	10H105	MC10H105LDS	MOTA	OR GATE	122- 38
40♦	10H105	MC10H105N(A)	MMI	OR GATE	122- 43
41♦	10H105	MC10H105P	MOTA	OR GATE	122- 39
42▼	10H105	MC10H105PD	MOTA	OR GATE	122- 40
43▼	10H105	MC10H105PDS	MOTA	OR GATE	122- 41
44▼	10H106	MC10H106FN	MOTA	NOR GATE	117- 75
45♦	10H106	MC10H106L	MOTA	NOR GATE	117- 76
46▼	10H106	MC10H106LD	MOTA	NOR GATE	117- 77
47▼	10H106	MC10H106LDS	MOTA	NOR GATE	117- 78
48♦	10H106	MC10H106P	MOTA	NOR GATE	117- 79
49▼	10H106	MC10H106PD	MOTA	NOR GATE	117- 80
50▼	10H106	MC10H106PDS	MOTA	NOR GATE	117- 81
51▼	10H107	MC10H107FN	MOTA	EX-OR GATE	91- 8
52♦	10H107	MC10H107J(A)	MMI	EX-OR GATE	91- 15
53♦	10H107	MC10H107L	MOTA	EX-OR GATE	91- 9
54▼	10H107	MC10H107LD	MOTA	EX-OR GATE	91- 10
55▼	10H107	MC10H107LDS	MOTA	EX-OR GATE	91- 11
56♦	10H107	MC10H107N(A)	MMI	EX-OR GATE	91- 16
57♦	10H107	MC10H107P	MOTA	EX-OR GATE	91- 12
58▼	10H107	MC10H107PD	MOTA	EX-OR GATE	91- 13
59▼	10H107	MC10H107PDS	MOTA	EX-OR GATE	91- 14
60▼	10H109	MC10H109FN	MOTA	OR GATE	124- 56
61♦	10H109	MC10H109J	MMI	OR GATE	124- 57
62♦	10H109	MC10H109L	MOTA	OR GATE	124- 58
63▼	10H109	MC10H109LD	MOTA	OR GATE	124- 59
64▼	10H109	MC10H109LDS	MOTA	OR GATE	124- 60
65♦	10H109	MC10H109N	MMI	OR GATE	124- 61
66♦	10H109	MC10H109P	MOTA	OR GATE	124- 62
67▼	10H109	MC10H109PD	MOTA	OR GATE	124- 63
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153♦	13-40	MDU13-40	DDD	TIME DELAY	129-110
154♦	13-45	MDU13-45	DDD	TIME DELAY	130- 1
155♦	13-50	MDU13-50	DDD	TIME DELAY	130- 2
156♦	13F10	PDU13F10	DDD	TIME DELAY	133-103
157♦	13F12	PDU13F12	DDD	TIME DELAY	133-104
158♦	13F15	PDU13F15	DDD	TIME DELAY	133-105
159♦	13F20	PDU13F20	DDD	TIME DELAY	133-106
160♦	13F25	PDU13F25	DDD	TIME DELAY	133-107
161♦	13F30	PDU13F30	DDD	TIME DELAY	133-108
162♦	13F35	PDU13F35	DDD	TIME DELAY	133-109
163♦	13F40	PDU13F40	DDD	TIME DELAY	133-110
164♦	13F45	PDU13F45	DDD	TIME DELAY	134- 1
165♦	13F50	PDU13F50	DDD	TIME DELAY	134- 2
166♦	14	MDU14-2	DDD	TIME DELAY	130-103
167♦	14	MDU14-3	DDD	TIME DELAY	130-105
168♦	14	MDU14-4	DDD	TIME DELAY	130-106
169♦	14	MDU14-5	DDD	TIME DELAY	130-107
170♦	14	MDU14-6	DDD	TIME DELAY	130-108
171♦	14	MDU14-7	DDD	TIME DELAY	130-109
172♦	14	MDU14-8	DDD	TIME DELAY	130-110
173♦	14	MDU14-9	DDD	TIME DELAY	131- 1
174♦	14	PDU14F1	DDD	TIME DELAY	134- 4
175♦	14	PDU14F2	DDD	TIME DELAY	134- 5
176♦	14	PDU14F3	DDD	TIME DELAY	134- 6
177♦	14	PDU14F4	DDD	TIME DELAY	134- 7
178♦	14	PDU14F5	DDD	TIME DELAY	134- 8
179♦	14	PDU14F6	DDD	TIME DELAY	134- 9
180♦	14	PDU14F7	DDD	TIME DELAY	134- 10
181♦	14	PDU14F8	DDD	TIME DELAY	134- 11
182♦	14	PDU14F9	DDD	TIME DELAY	134- 12
183♦	14	PDU14F.5	DDD	TIME DELAY	134- 26
184♦	14-2	MDU14-2.5	DDD	TIME DELAY	130-104
185♦	14-10	MDU14-10	DDD	TIME DELAY	131- 2
186♦	14-12	MDU14-12.5	DDD	TIME DELAY	131- 3
187♦	14-15	MDU14-15	DDD	TIME DELAY	131- 4
188♦	14-20	MDU14-20	DDD	TIME DELAY	131- 5
189♦	14F10	PDU14F10	DDD	TIME DELAY	134- 13
190♦	14F12	PDU14F12	DDD	TIME DELAY	134- 14
191♦	14F15	PDU14F15	DDD	TIME DELAY	134- 15
192♦	14F20	PDU14F20	DDD	TIME DELAY	134- 16
193♦	14F25	PDU14F25	DDD	TIME DELAY	134- 17
194♦	14F30	PDU14F30	DDD	TIME DELAY	134- 18
195♦	14F35	PDU14F35	DDD	TIME DELAY	134- 19
196♦	14F40	PDU14F40	DDD	TIME DELAY	134- 20
197♦	14F45	PDU14F45	DDD	TIME DELAY	134- 21
198♦	14F50	PDU14F50	DDD	TIME DELAY	134- 22
199♦	14F60	PDU14F60	DDD	TIME DELAY	134- 23
200♦	14F80	PDU14F80	DDD	TIME DELAY	134- 24
201♦	14F100	PDU14F100	DDD	TIME DELAY	134- 25
202	015	EKLPG015	TNL	TIME DELAY	132- 40
203	015	TTLPW015	TNL	SPECIAL	247- 58
204	015	TTLPW015M	TNL	SPECIAL	247- 59
205♦	15	DECL15	RHB	TIME DELAY	142- 58
206♦	15	ECLPWG15	RHB	TIME DELAY	152- 46
207♦	15	FECL15	RHB	TIME DELAY	128- 6
208	15	MDU2-15	DDD	TIME DELAY	129- 44
209	15	MDU2F15	DDD	TIME DELAY	129- 64
210	15	MDU3-15	DDD	TIME DELAY	130- 69
211	15	MDU3F15	DDD	TIME DELAY	130- 84
212	15	MDU4-15	DDD	TIME DELAY	131- 8
213♦	15	MECL15	RHB	TIME DELAY	130- 5
214♦	15	PDU15F1	DDD	TIME DELAY	134- 28
215♦	15	PDU15F2	DDD	TIME DELAY	134- 29
216♦	15	PDU15F3	DDD	TIME DELAY	134- 30
217♦	15	PDU15F4	DDD	TIME DELAY	134- 31
218♦	15	PDU15F5	DDD	TIME DELAY	134- 32
219♦	15	PDU15F6	DDD	TIME DELAY	134- 33
220♦	15	PDU15F7	DDD	TIME DELAY	134- 34

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

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1♦	15	PDU15F8	DDD	TIME DELAY	134- 35
2♦	15	PDU15F9	DDD	TIME DELAY	134- 36
3♦	15	PECL15-1	RHB	TIME DELAY	133- 67
4♦	15	PECL15-2	RHB	TIME DELAY	133- 68
5♦	15	PECL15-3	RHB	TIME DELAY	133- 69
6♦	15	PECL15-5	RHB	TIME DELAY	133- 70
7♦	15	PLDM15-1	RHB	TIME DELAY	135- 18
8♦	15	PLDM15-2	RHB	TIME DELAY	135- 19
9♦	15	PLDM15-3	RHB	TIME DELAY	135- 20
10♦	15	PLDM15-5	RHB	TIME DELAY	135- 21
11♦	15	TTLOS15	RHB	CLOCK/MV	187- 86
12♦	15	TTLPWG15	RHB	TIME DELAY	153- 11
13♦	15(3	ED15(3)	STX	SPECIAL	246- 20
14♦	15-10	PECL15-10	RHB	TIME DELAY	133- 71
15♦	15-10	PLDM15-10	RHB	TIME DELAY	135- 22
16♦	15-16	PECL15-16	RHB	TIME DELAY	133- 72
17♦	15-16	PLDM15-16	RHB	TIME DELAY	135- 23
18♦	15F0	PDU15F0.5	DDD	TIME DELAY	134- 27
19♦	15F10	PDU15F10	DDD	TIME DELAY	134- 37
20♦	15F12	PDU15F12	DDD	TIME DELAY	134- 38
21♦	15F15	PDU15F15	DDD	TIME DELAY	134- 39
22♦	15F20	PDU15F20	DDD	TIME DELAY	134- 40
23	016	EKLDL016	TNL	TIME DELAY	142- 99
24	016	*MPY016HC1A	TRW	MULTIPLIER	214- 9
25	016	*MPY016HF1A	TRW	MULTIPLIER	214- 10
26♦	016	MPY016HJ1A	TRW	MULTIPLIER	214- 11
27♦	016	MPY016HJ1C	TRW	MULTIPLIER	213- 79
28♦	016	MPY016HJ1F	TRW	MULTIPLIER	214- 12
29♦	016	MPY016HJ1G	TRW	MULTIPLIER	213- 80
30♦	016	MPY016KJ1A(A)	TRW	MULTIPLIER	208- 30
31♦	016	MPY016KJ1A1(A)	TRW	MULTIPLIER	208- 31
32♦	016	MPY016KJ1C(A)	TRW	MULTIPLIER	208- 11
33♦	016	MPY016KJ1C1(A)	TRW	MULTIPLIER	208- 12
34♦	016	MPY016KJ1F(A)	TRW	MULTIPLIER	208- 32
35♦	016	MPY016KJ1F1(A)	TRW	MULTIPLIER	208- 33
36♦	016	MPY016KJ1G(A)	TRW	MULTIPLIER	208- 13
37♦	016	MPY016KJ1G1(A)	TRW	MULTIPLIER	208- 14
38♦	016	MPY016KJ1N(A)	TRW	MULTIPLIER	208- 34
39♦	16	DDU4C16	DDD	TIME DELAY	141- 7
40	16	DDU6-16	DDD	TIME DELAY	137- 67
41▼	16	LMU16DC	LDI	MULTIPLIER	211- 26
42▼	16	LMU16DMB	LDI	MULTIPLIER	212- 65
43▼	16	LMU16GC	LDI	MULTIPLIER	211- 27
44▼	16	LMU16GMB	LDI	MULTIPLIER	212- 66
45▼	16	*LMU16JC	LDI	MULTIPLIER	211- 28
46▼	16	*LMU16KC	LDI	MULTIPLIER	211- 29
47▼	16	LMU16PC	LDI	MULTIPLIER	211- 30
48♦	16	MDU2F16	DDD	TIME DELAY	129- 65
49♦	16	MDU3F16	DDD	TIME DELAY	130- 85
50♦	16	N8H16A	MULB	NAND GATE	105- 92
51♦	16	N8H16A	PHIN	NAND GATE	105- 92
52♦	16	N8H16F	MULB	NAND GATE	105- 93
53♦	16	N8H16F	PHIN	NAND GATE	105- 93
54♦	16	*N8H16J	MULB	NAND GATE	105- 94
55♦	16	*N8H16J	PHIN	NAND GATE	105- 94
56♦	16	PDU16F1	DDD	TIME DELAY	134- 42
57♦	16	PDU16F2	DDD	TIME DELAY	134- 43
58♦	16	PDU16F3	DDD	TIME DELAY	134- 44
59♦	16	PDU16F4	DDD	TIME DELAY	134- 45
60♦	16	PDU16F5	DDD	TIME DELAY	134- 46
61♦	16	PDU16F6	DDD	TIME DELAY	134- 47
62♦	16	PDU16F7	DDD	TIME DELAY	134- 48
63♦	16	PDU16F8	DDD	TIME DELAY	134- 49
64♦	16	PDU16F9	DDD	TIME DELAY	134- 50
65♦	16	S8H16A	MULB	NAND GATE	105-110
66♦	16	S8H16A	PHIN	NAND GATE	105-110
67♦	16	S8H16F	MULB	NAND GATE	106- 1
68♦	16	S8H16F	PHIN	NAND GATE	106- 1
69♦	16	*S8H16J	MULB	NAND GATE	106- 2
70♦	16	*S8H16J	PHIN	NAND GATE	106- 2
71▼	16DC45	LMU16DC45	LDI	MULTIPLIER	207-110
72▼	16DC55	LMU16DC55	LDI	MULTIPLIER	209- 14
73▼	16DC65	LMU16DC65	LDI	MULTIPLIER	210- 18
74▼	16DMB55	LMU16DMB55	LDI	MULTIPLIER	209- 15
75▼	16DMB65	LMU16DMB65	LDI	MULTIPLIER	210- 19
76▼	16DMB75	LMU16DMB75	LDI	MULTIPLIER	211- 20
77♦	16F0	PDU16F0.5	DDD	TIME DELAY	134- 41
78♦	16F10	PDU16F10	DDD	TIME DELAY	134- 51
79▼	16F60	SP16F60DG	PLSB	OR GATE	123-105
80▼	16F60	*SP16F60LC	PLSB	OR GATE	123-106
81▼	16F70	SP16F70CM	PLSB	D FL-FLOP	50- 35
82▼	16F70	SP16F70DC	PLSB	D FL-FLOP	50- 36
83▼	16F70	SP16F70DG	PLSB	D FL-FLOP	50- 37
84▼	16GC45	LMU16GC45	LDI	MULTIPLIER	208- 1
85▼	16GC55	LMU16GC55	LDI	MULTIPLIER	209- 16
86▼	16GC65	LMU16GC65	LDI	MULTIPLIER	210- 20
87▼	16GMB55	LMU16GMB55	LDI	MULTIPLIER	209- 17
88▼	16GMB65	LMU16GMB65	LDI	MULTIPLIER	210- 21
89▼	16GMB75	LMU16GMB75	LDI	MULTIPLIER	211- 21
90▼	16JC45	*LMU16JC45	LDI	MULTIPLIER	208- 2
91▼	16JC55	*LMU16JC55	LDI	MULTIPLIER	209- 18
92▼	16JC65	*LMU16JC65	LDI	MULTIPLIER	210- 22
93▼	16KC45	*LMU16KC45	LDI	MULTIPLIER	208- 3
94▼	16KC55	*LMU16KC55	LDI	MULTIPLIER	209- 19
95▼	16KC65	*LMU16KC65	LDI	MULTIPLIER	210- 23
96▼	16PC45	LMU16PC45	LDI	MULTIPLIER	208- 4
97▼	16PC55	LMU16PC55	LDI	MULTIPLIER	209- 20
98▼	16PC65	LMU16PC65	LDI	MULTIPLIER	210- 24
99▼	17	LMU17DC	LDI	MULTIPLIER	211- 31
100▼	17	LMU17DMB	LDI	MULTIPLIER	212- 67
101▼	17	LMU17GC	LDI	MULTIPLIER	211- 32
102▼	17	LMU17GMB	LDI	MULTIPLIER	212- 68
103▼	17	*LMU17KC	LDI	MULTIPLIER	211- 33
104▼	17	LMU17PC	LDI	MULTIPLIER	211- 34
105♦	17	PDU17F1	DDD	TIME DELAY	134- 52
106♦	17	PDU17F2	DDD	TIME DELAY	134- 53
107♦	17	PDU17F3	DDD	TIME DELAY	134- 54
108♦	17	PDU17F4	DDD	TIME DELAY	134- 55
109♦	17	PDU17F5	DDD	TIME DELAY	134- 56
110♦	17	PDU17F6	DDD	TIME DELAY	134- 57
111♦	17	PDU17F7	DDD	TIME DELAY	134- 58
112♦	17	PDU17F8	DDD	TIME DELAY	134- 59
113♦	17	PDU17F9	DDD	TIME DELAY	134- 60
114♦	17	PDU17F.5	DDD	TIME DELAY	134- 62
115▼	17DC45	LMU17DC45	LDI	MULTIPLIER	208- 5
116▼	17DC55	LMU17DC55	LDI	MULTIPLIER	209- 21
117▼	17DC65	LMU17DC65	LDI	MULTIPLIER	210- 25
118▼	17DMB55	LMU17DMB55	LDI	MULTIPLIER	209- 22
119▼	17DMB65	LMU17DMB65	LDI	MULTIPLIER	210- 26
120▼	17DMB75	LMU17DMB75	LDI	MULTIPLIER	211- 22
121♦	17F10	PDU17F10	DDD	TIME DELAY	134- 61
122▼	17GC45	LMU17GC45	LDI	MULTIPLIER	208- 6
123▼	17GC55	LMU17GC55	LDI	MULTIPLIER	209- 23
124▼	17GC65	LMU17GC65	LDI	MULTIPLIER	210- 27
125▼	17GMB55	LMU17GMB55	LDI	MULTIPLIER	209- 24
126▼	17GMB65	LMU17GMB65	LDI	MULTIPLIER	210- 28
127▼	17GMB75	LMU17GMB75	LDI	MULTIPLIER	211- 23
128▼	17KC45	*LMU17KC45	LDI	MULTIPLIER	208- 7
129▼	17KC55	*LMU17KC55	LDI	MULTIPLIER	209- 25
130▼	17KC65	*LMU17KC65	LDI	MULTIPLIER	210- 29
131▼	17PC45	LMU17PC45	LDI	MULTIPLIER	208- 8
132▼	17PC55	LMU17PC55	LDI	MULTIPLIER	209- 26
133▼	17PC65	LMU17PC65	LDI	MULTIPLIER	210- 30
134	18	DDU18-4	DDD	TIME DELAY	142- 31
135	18	DDU18-8	DDD	TIME DELAY	142- 32
136	18	LMU18GC(A)	LDI	MULTIPLIER	211- 35
137	18	LMU18GM(A)	LDI	MULTIPLIER	212- 90
138♦	18	PDU18F1	DDD	TIME DELAY	134- 63
139♦	18	PDU18F2	DDD	TIME DELAY	134- 64
140♦	18	PDU18F3	DDD	TIME DELAY	134- 65
141♦	18	PDU18F4	DDD	TIME DELAY	134- 66
142♦	18	PDU18F5	DDD	TIME DELAY	134- 67
143♦	18	PDU18F6	DDD	TIME DELAY	134- 68
144♦	18	PDU18F7	DDD	TIME DELAY	134- 69
145♦	18	PDU18F8	DDD	TIME DELAY	134- 70
146♦	18	PDU18F9	DDD	TIME DELAY	134- 71
147♦	18	PDU18F.5	DDD	TIME DELAY	134- 73
148	18-12	DDU18-12	DDD	TIME DELAY	142- 33
149	18-16	DDU18-16	DDD	TIME DELAY	142- 34
150	18-20	DDU18-20	DDD	TIME DELAY	142- 35
151	18-24	DDU18-24	DDD	TIME DELAY	142- 36
152	18-32	DDU18-32	DDD	TIME DELAY	142- 37
153	18-40	DDU18-40	DDD	TIME DELAY	142- 38
154	18-48	DDU18-48	DDD	TIME DELAY	142- 39
155	18-56	DDU18-56	DDD	TIME DELAY	142- 40
156	18-64	DDU18-64	DDD	TIME DELAY	142- 41
157	18-72	DDU18-72	DDD	TIME DELAY	142- 42
158	18-80	DDU18-80	DDD	TIME DELAY	142- 43
159	18-100	DDU18-100	DDD	TIME DELAY	142- 44
160	18-120	DDU18-120	DDD	TIME DELAY	142- 45
161	18-160	DDU18-160	DDD	TIME DELAY	142- 46
162	18-200	DDU18-200	DDD	TIME DELAY	142- 47
163♦	18F10	PDU18F10	DDD	TIME DELAY	134- 72
164	020	*BTTLDL020	TNL	TIME DELAY	145- 37
165	020	*BTTLDL020M	TNL	TIME DELAY	145- 38
166	020	*CTTLDL020	TNL	TIME DELAY	145- 53
167	020	*CTTLDL020M	TNL	TIME DELAY	145- 54
168	020	EKLPG020	TNL	TIME DELAY	132- 41
169	020	TTLDL020	TNL	TIME DELAY	150- 58
170	020	TTLDL020M	TNL	TIME DELAY	150- 59
171	020	TTLPW020	TNL	SPECIAL	247- 60
172	020	TTLPW020M	TNL	SPECIAL	247- 61
173♦	20	DDU4C20	DDD	TIME DELAY	141- 8
174	20	DDU6-20	DDD	TIME DELAY	137- 68
175	20	DDU7-20	DDD	TIME DELAY	137- 83
176♦	20	DDU7F20	DDD	TIME DELAY	146- 74
177	20	DDU7J20	DDD	TIME DELAY	146- 85
178♦	20	DECL20	RHB	TIME DELAY	142- 59
179♦	20	ECLPWG20	RHB	TIME DELAY	152- 47
180♦	20	FECL20	RHB	TIME DELAY	128- 7
181	20	MDU2-20	DDD	TIME DELAY	129- 45
182	20	MDU2F20	DDD	TIME DELAY	129- 66
183	20	MDU3-20	DDD	TIME DELAY	130- 70
184	20	MDU3F20	DDD	TIME DELAY	130- 86
185	20	MDU4-20	DDD	TIME DELAY	131- 9
186♦	20	MECL20	RHB	TIME DELAY	130- 6
187♦	20	*N8H20Q	MULB	JK FL-FLOP	73- 70
188♦	20	*N8H20Q	PHIN	JK FL-FLOP	73- 70
189♦	20	*S8H20Q	MULB	JK FL-FLOP	73- 82
190♦	20	*S8H20Q	PHIN	JK FL-FLOP	73- 82
191♦	20	TTLOS20	RHB	CLOCK/MV	187- 89
192♦	20	TTLPWG20	RHB	TIME DELAY	153- 12
193♦	21	N8H21A	MULB	JK FL-FLOP	73- 71
194♦	21	N8H21A	PHIN	JK FL-FLOP	73- 71
195♦	21	N8H21F	MULB	JK FL-FLOP	73- 72
196♦	21	N8H21F	PHIN	JK FL-FLOP	73- 72
197♦	21	*N8H21Q	MULB	JK FL-FLOP	73- 73
198♦	21	*N8H21Q	PHIN	JK FL-FLOP	73- 73
199♦	21	S8H21A	MULB	JK FL-FLOP	73- 83
200♦	21	S8H21A	PHIN	JK FL-FLOP	73- 83
201♦	21	S8H21F	MULB	JK FL-FLOP	73- 84
202♦	21	S8H21F	PHIN	JK FL-FLOP	73- 84
203♦	21	*S8H21Q	MULB	JK FL-FLOP	73- 85
204♦	21	*S8H21Q	PHIN	JK FL-FLOP	73- 85
205♦	22	N8H22B	MULB	JK FL-FLOP	73- 74
206♦	22	N8H22B	PHIN	JK FL-FLOP	73- 74
207♦	22	N8H22E	MULB	JK FL-FLOP	73- 75
208♦	22	N8H22E	PHIN	JK FL-FLOP	73- 75
209♦	22	S8H22B	MULB	JK FL-FLOP	73- 86
210♦	22	S8H22B	PHIN	JK FL-FLOP	73- 86
211♦	22	S8H22E	MULB	JK FL-FLOP	73- 87
212♦	22	S8H22E	PHIN	JK FL-FLOP	73- 87
213♦	23	PPD23-1	DDD	SPECIAL	247- 24
214♦	23	PPD23-2	DDD	SPECIAL	247- 25
215♦	23	PPD23-3	DDD	SPECIAL	247- 26
216♦	23	PPD23-5	DDD	SPECIAL	247- 27
217♦	23-10	PPD23-10	DDD	SPECIAL	247- 28
218♦	23-15	PPD23-15	DDD	SPECIAL	247- 29
219♦	23-20	PPD23-20	DDD	SPECIAL	247- 30
220♦	23-40	PPD23-40	DDD	SPECIAL	247- 31

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

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2♦	24-12	24-12-03	SRT	SPECIAL	245- 14
3	0025	DE0025	VLR	TIME DELAY	142- 49
4	0025	*SM0025	VLR	TIME DELAY	149- 98
5	025	*BTTLDL025	TNL	TIME DELAY	145- 39
6	025	*BTTLDL025M	TNL	TIME DELAY	145- 40
7	025	*CTTLDL025	TNL	TIME DELAY	145- 55
8	025	*CTTLDL025M	TNL	TIME DELAY	145- 56
9	025	ECLDL025	TNL	TIME DELAY	142- 71
10	025	ECLDL025M	TNL	TIME DELAY	142- 72
11	025	EKLDL025	TNL	TIME DELAY	142-100
12	025	EKLPG025	TNL	TIME DELAY	132- 42
13	025	HTTLDL025	TNL	TIME DELAY	149- 53
14	025	STTLDL025	TNL	TIME DELAY	150- 40
15	025	STTLDL025M	TNL	TIME DELAY	150- 41
16	025	TTLDL025	TNL	TIME DELAY	150- 60
17	025	TTLDL025M	TNL	TIME DELAY	150- 61
18	025	TTLPW025	TNL	SPECIAL	247- 62
19	025	TTLPW025M	TNL	SPECIAL	247- 63
20	25	CCO25A	CCL	CLOCK/MV	191-107
21	25	DDU7-25	DDD	TIME DELAY	137- 84
22♦	25	DDU7F25	DDD	TIME DELAY	146- 75
23	25	DDU7J25	DDD	TIME DELAY	146- 86
24♦	25	DECL25	RHB	TIME DELAY	142- 60
25♦	25	DTZM1-25	RHB	TIME DELAY	137-106
26♦	25	ECLPWG25	RHB	TIME DELAY	152- 48
27	25	EKLPGR25	TNL	TIME DELAY	132- 54
28♦	25	FDM25	RHB	TIME DELAY	128- 79
29♦	25	FDM-25	RHB	TIME DELAY	128- 92
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127	31F11	DLO31F11	DDD	CLOCK/MV	187- 77
128	31F12	DLO31F12	DDD	CLOCK/MV	187- 79
129	31F13	DLO31F13	DDD	CLOCK/MV	187- 81
130	31F14	DLO31F14	DDD	CLOCK/MV	187- 83
131	31F15	DLO31F15	DDD	CLOCK/MV	187- 85
132	31F20	DLO31F20	DDD	CLOCK/MV	187- 88
133	31F25	DLO31F25	DDD	CLOCK/MV	187- 93
134	31F30	DLO31F30	DDD	CLOCK/MV	187- 98
135	31F35	DLO31F35	DDD	CLOCK/MV	187-104
136	31F40	DLO31F40	DDD	CLOCK/MV	187-107
137	032	EKLDL032	TNL	TIME DELAY	142-101
138	32	DLO32F2	DDD	CLOCK/MV	192- 15
139	32	DLO32F3	DDD	CLOCK/MV	192- 17
140	32	DLO32F4	DDD	CLOCK/MV	192- 19
141	32	DLO32F5	DDD	CLOCK/MV	192- 21
142	32	DLO32F6	DDD	CLOCK/MV	192- 23
143	32	DLO32F7	DDD	CLOCK/MV	192- 24
144	32	DLO32F8	DDD	CLOCK/MV	192- 25
145	32	DLO32F9	DDD	CLOCK/MV	192- 26
146	32	*RF32CJ	RTN	JK FL-FLOP	65- 7
147	32	*RF32CK	RTN	JK FL-FLOP	65- 8
148♦	32	RF32DC	RTN	JK FL-FLOP	65- 9
149	32A5101	32A5101	ESAN	TIME DELAY	143- 69
150	32A5125	32A5125	ESAN	TIME DELAY	143- 70
151	32A5151	32A5151	ESAN	TIME DELAY	143- 71
152	32A5175	32A5175	ESAN	TIME DELAY	143- 72
153	32A5200	32A5200	ESAN	TIME DELAY	143- 73
154	32A5201	32A5201	ESAN	TIME DELAY	143- 74
155	32A5250	32A5250	ESAN	TIME DELAY	143- 75
156	32A5251	32A5251	ESAN	TIME DELAY	143- 76
157	32A5300	32A5300	ESAN	TIME DELAY	143- 77
158	32A5301	32A5301	ESAN	TIME DELAY	143- 78
159	32A5351	32A5351	ESAN	TIME DELAY	143- 79
160	32A5400	32A5400	ESAN	TIME DELAY	143- 80
161	32A5401	32A5401	ESAN	TIME DELAY	143- 81
162	32A5451	32A5451	ESAN	TIME DELAY	143- 82
163	32A5500	32A5500	ESAN	TIME DELAY	143- 83
164	32A5501	32A5501	ESAN	TIME DELAY	143- 84
165	32A5600	32A5600	ESAN	TIME DELAY	143- 85
166	32A5750	32A5750	ESAN	TIME DELAY	143- 86
167	32B5101	32B5101	ESAN	TIME DELAY	143- 87
168	32B5125	32B5125	ESAN	TIME DELAY	143- 88
169	32B5151	32B5151	ESAN	TIME DELAY	143- 89
170	32B5175	32B5175	ESAN	TIME DELAY	143- 90
171	32B5201	32B5201	ESAN	TIME DELAY	143- 91
172	32B5250	32B5250	ESAN	TIME DELAY	143- 92
173	32B5251	32B5251	ESAN	TIME DELAY	143- 93
174	32B5300	32B5300	ESAN	TIME DELAY	143- 94
175	32B5400	32B5400	ESAN	TIME DELAY	143- 95
176	32B5500	32B5500	ESAN	TIME DELAY	143- 96
177	32B5600	32B5600	ESAN	TIME DELAY	143- 97
178	32B5750	32B5750	ESAN	TIME DELAY	143- 98
179	32F2	DLO32F2.5	DDD	CLOCK/MV	192- 16
180	32F3	DLO32F3.5	DDD	CLOCK/MV	192- 18
181	32F4	DLO32F4.5	DDD	CLOCK/MV	192- 20
182	32F5	DLO32F5.5	DDD	CLOCK/MV	192- 22
183	32F10	DLO32F10	DDD	CLOCK/MV	192- 27
184	32F11	DLO32F11	DDD	CLOCK/MV	192- 28
185	32F12	DLO32F12	DDD	CLOCK/MV	192- 29
186	32F13	DLO32F13	DDD	CLOCK/MV	192- 30
187	32F14	DLO32F14	DDD	CLOCK/MV	192- 31
188	32F15	DLO32F15	DDD	CLOCK/MV	192- 32
189	32F20	DLO32F20	DDD	CLOCK/MV	192- 33
190	32F25	DLO32F25	DDD	CLOCK/MV	192- 34
191	32F30	DLO32F30	DDD	CLOCK/MV	192- 35
192	32F35	DLO32F35	DDD	CLOCK/MV	192- 36
193	32F40	DLO32F40	DDD	CLOCK/MV	192- 37
194	33	PPG33-1	DDD	SPECIAL	247- 33
195	33	PPG33-2	DDD	SPECIAL	247- 34
196	33	PPG33-3	DDD	SPECIAL	247- 35
197	33	PPG33-5	DDD	SPECIAL	247- 36
198♦	33	PPG33F1	DDD	TIME DELAY	152- 71
199♦	33	PPG33F2	DDD	TIME DELAY	152- 72
200♦	33	PPG33F3	DDD	TIME DELAY	152- 73
201♦	33	PPG33F4	DDD	TIME DELAY	152- 74
202♦	33	PPG33F5	DDD	TIME DELAY	152- 75
203♦	33	PPG33F6	DDD	TIME DELAY	152- 76
204♦	33	PPG33F7	DDD	TIME DELAY	152- 77
205♦	33	PPG33F8	DDD	TIME DELAY	152- 78
206♦	33	PPG33F9	DDD	TIME DELAY	152- 79
207♦	33	PPG33F.5	DDD	TIME DELAY	152- 85
208	33	*RF33CJ	RTN	JK FL-FLOP	65- 10
209	33	*RF33CK	RTN	JK FL-FLOP	65- 11
210♦	33	RF33DC	RTN	JK FL-FLOP	65- 12
211	33-10	PPG33-10	DDD	SPECIAL	247- 37
212	33-15	PPG33-15	DDD	SPECIAL	247- 38
213	33-20	PPG33-20	DDD	SPECIAL	247- 39
214	33-40	PPG33-40	DDD	SPECIAL	247- 40
215	33-50	PPG33-50	DDD	SPECIAL	247- 41
216	33A010	33A010	ESAN	TIME DELAY	128- 18
217	33A020	33A020	ESAN	TIME DELAY	128- 19
218	33A030	33A030	ESAN	TIME DELAY	128- 20
219	33A040	33A040	ESAN	TIME DELAY	128- 21
220	33A050	33A050	ESAN	TIME DELAY	128- 22

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2	33A070	33A070	ESAN	TIME DELAY	128- 24
3	33A080	33A080	ESAN	TIME DELAY	128- 25
4	33A090	33A090	ESAN	TIME DELAY	128- 26
5	33A100	33A100	ESAN	TIME DELAY	128- 27
6	33A125	33A125	ESAN	TIME DELAY	128- 28
7	33A150	33A150	ESAN	TIME DELAY	128- 29
8	33A175	33A175	ESAN	TIME DELAY	128- 30
9	33A200	33A200	ESAN	TIME DELAY	128- 31
10	33A250	33A250	ESAN	TIME DELAY	128- 32
11	33A300	33A300	ESAN	TIME DELAY	128- 33
12	33A350	33A350	ESAN	TIME DELAY	128- 34
13	33A400	33A400	ESAN	TIME DELAY	128- 35
14	33A450	33A450	ESAN	TIME DELAY	128- 36
15	33A500	33A500	ESAN	TIME DELAY	128- 37
16♦	33F10	PPG33F10	DDD	TIME DELAY	152- 80
17♦	33F15	PPG33F15	DDD	TIME DELAY	152- 81
18♦	33F20	PPG33F20	DDD	TIME DELAY	152- 82
19♦	33F40	PPG33F40	DDD	TIME DELAY	152- 83
20♦	33F50	PPG33F50	DDD	TIME DELAY	152- 84
21	34A010	34A010	ESAN	TIME DELAY	130- 17
22	34A020	34A020	ESAN	TIME DELAY	130- 18
23	34A030	34A030	ESAN	TIME DELAY	130- 19
24	34A040	34A040	ESAN	TIME DELAY	130- 20
25	34A050	34A050	ESAN	TIME DELAY	130- 21
26	34A060	34A060	ESAN	TIME DELAY	130- 22
27	34A070	34A070	ESAN	TIME DELAY	130- 23
28	34A080	34A080	ESAN	TIME DELAY	130- 24
29	34A090	34A090	ESAN	TIME DELAY	130- 25
30	34A100	34A100	ESAN	TIME DELAY	130- 26
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32	035	TTLPW035	TNL	SPECIAL	247- 66
33	035	TTLPW035M	TNL	SPECIAL	247- 67
34♦	35	D2ECL35	RHB	TIME DELAY	141-103
35♦	35	DDU4C35	DDD	TIME DELAY	141- 10
36	35	DDU6-35	DDD	TIME DELAY	137- 70
37♦	35	DECL35	RHB	TIME DELAY	142- 62
38♦	35	ECLPWG35	RHB	TIME DELAY	152- 50
39♦	35	FECL35	RHB	TIME DELAY	128- 10
40	35	MDU2-35	DDD	TIME DELAY	129- 48
41	35	MDU2F35	DDD	TIME DELAY	129- 69
42	35	MDU3-35	DDD	TIME DELAY	130- 73
43	35	MDU3F35	DDD	TIME DELAY	130- 89
44	35	MDU4-35	DDD	TIME DELAY	131- 12
45♦	35	MECL35	RHB	TIME DELAY	130- 9
46♦	35	TTLOS35	RHB	CLOCK/MV	187-105
47♦	35	TTLPWG35	RHB	TIME DELAY	153- 15
48	35A5101	35A5101	ESAN	TIME DELAY	143- 99
49	35A5125	35A5125	ESAN	TIME DELAY	143-100
50	35A5151	35A5151	ESAN	TIME DELAY	143-101
51	35A5175	35A5175	ESAN	TIME DELAY	143-102
52	35A5200	35A5200	ESAN	TIME DELAY	150- 78
53	35A5201	35A5201	ESAN	TIME DELAY	143-103
54	35A5250	35A5250	ESAN	TIME DELAY	150- 79
55	35A5251	35A5251	ESAN	TIME DELAY	143-104
56	35A5300	35A5300	ESAN	TIME DELAY	150- 80
57	35A5301	35A5301	ESAN	TIME DELAY	143-105
58	35A5400	35A5400	ESAN	TIME DELAY	143-106
59	35A5500	35A5500	ESAN	TIME DELAY	143-107
60	35A5600	35A5600	ESAN	TIME DELAY	143-108
61	35A5750	35A5750	ESAN	TIME DELAY	143-109
62	36	PPG36-1	DDD	SPECIAL	247- 42
63	36	PPG36-2	DDD	SPECIAL	247- 43
64	36	PPG36-3	DDD	SPECIAL	247- 44
65	36	PPG36-4	DDD	SPECIAL	247- 45
66	36	PPG36-5	DDD	SPECIAL	247- 46
67	36	PPG36-6	DDD	SPECIAL	247- 47
68	36	PPG36-7	DDD	SPECIAL	247- 48
69	36	PPG36-8	DDD	SPECIAL	247- 49
70	36	PPG36-9	DDD	SPECIAL	247- 50
71♦	36	PPG36F1	DDD	TIME DELAY	152- 86
72♦	36	PPG36F2	DDD	TIME DELAY	152- 87
73♦	36	PPG36F3	DDD	TIME DELAY	152- 88
74♦	36	PPG36F4	DDD	TIME DELAY	152- 89
75♦	36	PPG36F5	DDD	TIME DELAY	152- 90
76♦	36	PPG36F6	DDD	TIME DELAY	152- 91
77♦	36	PPG36F7	DDD	TIME DELAY	152- 92
78♦	36	PPG36F8	DDD	TIME DELAY	152- 93
79♦	36	PPG36F9	DDD	TIME DELAY	152- 94
80♦	36	PPG36F.5	DDD	TIME DELAY	152- 96
81	36-10	PPG36-10	DDD	SPECIAL	247- 51
82♦	36F10	PPG36F10	DDD	TIME DELAY	152- 95
83	37-25	DDU37-25	DDD	TIME DELAY	131- 20
84	37-30	DDU37-30	DDD	TIME DELAY	131- 21
85	37-40	DDU37-40	DDD	TIME DELAY	131- 22
86	37-50	DDU37-50	DDD	TIME DELAY	131- 23
87	37-60	DDU37-60	DDD	TIME DELAY	131- 24
88	37-70	DDU37-70	DDD	TIME DELAY	131- 25
89	37-80	DDU37-80	DDD	TIME DELAY	131- 26
90	37-100	DDU37-100	DDD	TIME DELAY	131- 27
91	37-120	DDU37-120	DDD	TIME DELAY	131- 28
92	37-150	DDU37-150	DDD	TIME DELAY	131- 29
93	37-200	DDU37-200	DDD	TIME DELAY	131- 30
94	37F25	DDU37F25	DDD	TIME DELAY	131- 67
95	37F30	DDU37F30	DDD	TIME DELAY	131- 68
96	37F40	DDU37F40	DDD	TIME DELAY	131- 69
97	37F50	DDU37F50	DDD	TIME DELAY	131- 70
98	37F60	DDU37F60	DDD	TIME DELAY	131- 71
99	37F70	DDU37F70	DDD	TIME DELAY	131- 72
100	37F80	DDU37F80	DDD	TIME DELAY	131- 73
101	37F100	DDU37F100	DDD	TIME DELAY	131- 74
102	37F120	DDU37F120	DDD	TIME DELAY	131- 75
103	37F150	DDU37F150	DDD	TIME DELAY	131- 76
104	37F200	DDU37F200	DDD	TIME DELAY	131- 77
105♦	38	PPG38-1	DDD	TIME DELAY	152- 97
106♦	38	PPG38-2	DDD	TIME DELAY	152- 98
107♦	38	PPG38-3	DDD	TIME DELAY	152- 99
108♦	38	PPG38-4	DDD	TIME DELAY	152-100
109♦	38	PPG38-5	DDD	TIME DELAY	152-101
110♦	38	PPG38-6	DDD	TIME DELAY	152-102
111♦	38	PPG38-7	DDD	TIME DELAY	152-103
112♦	38	PPG38-8	DDD	TIME DELAY	152-104
113♦	38	PPG38-9	DDD	TIME DELAY	152-105
114▼	38	PPG38-.5	DDD	TIME DELAY	152-107
115♦	38	PPG38F1	DDD	TIME DELAY	152-108
116♦	38	PPG38F2	DDD	TIME DELAY	152-109
117♦	38	PPG38F3	DDD	TIME DELAY	152-110
118♦	38	PPG38F4	DDD	TIME DELAY	153- 1
119♦	38	PPG38F5	DDD	TIME DELAY	153- 2
120♦	38	PPG38F6	DDD	TIME DELAY	153- 3
121♦	38	PPG38F7	DDD	TIME DELAY	153- 4
122♦	38	PPG38F8	DDD	TIME DELAY	153- 5
123♦	38	PPG38F9	DDD	TIME DELAY	153- 6
124♦	38	PPG38F.5	DDD	TIME DELAY	153- 8
125♦	38-10	PPG38-10	DDD	TIME DELAY	152-106
126♦	38F10	PPG38F10	DDD	TIME DELAY	153- 7
127	39	DDU39	DDD	TIME DELAY	131- 31
128♦	39	DDU39F	DDD	TIME DELAY	131- 78
129♦	39C02	IDT39C02AD	IDT	PARITY GEN	225- 16
130♦	39C02	IDT39C02ADB	IDT	PARITY GEN	225- 22
131♦	39C02	*IDT39C02AL	IDT	PARITY GEN	225- 17
132▼	39C841	IDT39C841D	IDT	10-BIT LCH	242- 88
133▼	39C841	IDT39C841DB	IDT	10-BIT LCH	242- 98
134▼	39C841	*IDT39C841J	IDT	10-BIT LCH	242- 89
135▼	39C841	*IDT39C841L	IDT	10-BIT LCH	242- 90
136▼	39C841	*IDT39C841LB	IDT	10-BIT LCH	242- 99
137▼	39C841	IDT39C841P	IDT	10-BIT LCH	242- 91
138▼	39C842	IDT39C842D	IDT	10-BIT LCH	242- 94
139▼	39C842	IDT39C842DB	IDT	10-BIT LCH	242-100
140▼	39C842	*IDT39C842J	IDT	10-BIT LCH	242- 95
141▼	39C842	*IDT39C842L	IDT	10-BIT LCH	242- 96
142▼	39C842	*IDT39C842LB	IDT	10-BIT LCH	242-101
143▼	39C842	IDT39C842P	IDT	10-BIT LCH	242- 97
144▼	39C843	IDT39C843D	IDT	9-BIT LCH	241- 85
145▼	39C843	IDT39C843DB	IDT	9-BIT LCH	241- 99
146▼	39C843	*IDT39C843J	IDT	9-BIT LCH	241- 86
147▼	39C843	*IDT39C843L	IDT	9-BIT LCH	241- 87
148▼	39C843	*IDT39C843LB	IDT	9-BIT LCH	241-100
149▼	39C843	IDT39C843P	IDT	9-BIT LCH	241- 88
150▼	39C844	IDT39C844D	IDT	9-BIT LCH	241- 91
151▼	39C844	IDT39C844DB	IDT	9-BIT LCH	241-101
152▼	39C844	*IDT39C844J	IDT	9-BIT LCH	241- 92
153▼	39C844	*IDT39C844L	IDT	9-BIT LCH	241- 93
154▼	39C844	*IDT39C844LB	IDT	9-BIT LCH	241-102
155▼	39C844	IDT39C844P	IDT	9-BIT LCH	241- 94
156▼	39C845	IDT39C845D	IDT	8-BIT LCH	235- 1
157▼	39C845	IDT39C845DB	IDT	8-BIT LCH	235- 41
158▼	39C845	*IDT39C845J	IDT	8-BIT LCH	235- 2
159▼	39C845	*IDT39C845L	IDT	8-BIT LCH	235- 3
160▼	39C845	*IDT39C845LB	IDT	8-BIT LCH	235- 42
161▼	39C845	IDT39C845P	IDT	8-BIT LCH	235- 4
162▼	39C846	IDT39C846D	IDT	8-BIT LCH	235- 16
163▼	39C846	IDT39C846DB	IDT	8-BIT LCH	235- 56
164▼	39C846	*IDT39C846J	IDT	8-BIT LCH	235- 17
165▼	39C846	*IDT39C846L	IDT	8-BIT LCH	235- 18
166▼	39C846	*IDT39C846LB	IDT	8-BIT LCH	235- 57
167▼	39C846	IDT39C846P	IDT	8-BIT LCH	235- 19
168	040	EKLDL040	TNL	TIME DELAY	142-102
169	040	EKLPG040	TNL	TIME DELAY	132- 45
170	040	TTLPW040	TNL	SPECIAL	247- 68
171	040	TTLPW040M	TNL	SPECIAL	247- 69
172♦	40	D2ECL40	RHB	TIME DELAY	141-104
173♦	40	DDU4C40	DDD	TIME DELAY	141- 11
174	40	DDU6-40	DDD	TIME DELAY	137- 71
175♦	40	DECL40	RHB	TIME DELAY	142- 63
176♦	40	ECLPWG40	RHB	TIME DELAY	152- 51
177♦	40	FECL40	RHB	TIME DELAY	128- 11
178	40	MDU2-40	DDD	TIME DELAY	129- 49
179	40	MDU2F40	DDD	TIME DELAY	129- 70
180	40	MDU3-40	DDD	TIME DELAY	130- 74
181	40	MDU3F40	DDD	TIME DELAY	130- 90
182	40	MDU4-40	DDD	TIME DELAY	131- 13
183♦	40	MECL40	RHB	TIME DELAY	130- 10
184♦	40	*RG40CJ	RTN	NAND GATE	106- 43
185♦	40	*RG40CK	RTN	NAND GATE	106- 44
186♦	40	RG40DC	RTN	NAND GATE	106- 45
187♦	40	TTLOS40	RHB	CLOCK/MV	187-108
188♦	40	TTLPWG40	RHB	TIME DELAY	153- 16
189♦	40H000	*TC40H000F	TOSJ	NAND GATE	99- 35
190♦	40H000	TC40H000P	IMTM	NAND GATE	97- 97
191♦	40H000	TC40H000P	TOSJ	NAND GATE	97- 97
192♦	40H002	*TC40H002F	TOSJ	NOR GATE	114- 10
193♦	40H002	TC40H002P	IMTM	NOR GATE	113- 12
194♦	40H002	TC40H002P	TOSJ	NOR GATE	113- 12
195♦	40H008	*TC40H008F	TOSJ	AND GATE	77-104
196♦	40H008	TC40H008P	IMTM	AND GATE	77- 3
197♦	40H008	TC40H008P	TOSJ	AND GATE	77- 3
198♦	40H010	*TC40H010F	TOSJ	NAND GATE	103- 26
199♦	40H010	TC40H010P	IMTM	NAND GATE	102- 39
200♦	40H010	TC40H010P	TOSJ	NAND GATE	102- 39
201♦	40H011	*TC40H011F	TOSJ	AND GATE	80- 83
202♦	40H011	TC40H011P	IMTM	AND GATE	80- 31
203♦	40H011	TC40H011P	TOSJ	AND GATE	80- 31
204♦	40H020	*TC40H020F	TOSJ	NAND GATE	107- 40
205♦	40H020	TC40H020P	IMTM	NAND GATE	107- 41
206♦	40H020	TC40H020P	TOSJ	NAND GATE	107- 41
207♦	40H021	*TC40H021F	TOSJ	AND GATE	82-109
208♦	40H021	TC40H021P	IMTM	AND GATE	82-110
209♦	40H021	TC40H021P	TOSJ	AND GATE	82-110
210♦	40H027	*TC40H027F	TOSJ	NOR GATE	116- 45
211♦	40H027	TC40H027P	IMTM	NOR GATE	116- 3
212♦	40H027	TC40H027P	TOSJ	NOR GATE	116- 3
213♦	40H032	*TC40H032F	TOSJ	OR GATE	121- 83
214♦	40H032	TC40H032P	IMTM	OR GATE	120- 89
215♦	40H032	TC40H032P	TOSJ	OR GATE	120- 89
216	40H042	TC40H042P(2)	IMTM	DECODER	127- 76
217	40H042	TC40H042P(2)	TOSJ	DECODER	127- 76
218♦	40H051	*TC40H051F	TOSJ	AND-OR-INV	89- 8
219♦	40H051	TC40H051P	IMTM	AND-OR-INV	89- 9
220♦	40H051	TC40H051P	TOSJ	AND-OR-INV	89- 9

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

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3	40H074	TC40H074P	TOSJ	D FL-FLOP	51- 39
4	40H076	*TC40H076AF	TOSJ	JK FL-FLOP	68- 89
5	40H076	TC40H076AP	IMTM	JK FL-FLOP	68- 90
6	40H076	TC40H076AP	TOSJ	JK FL-FLOP	68- 90
7	40H076	*TC40H076F	TOSJ	JK FL-FLOP	68- 91
8	40H076	TC40H076P	IMTM	JK FL-FLOP	68- 92
9	40H076	TC40H076P	TOSJ	JK FL-FLOP	68- 92
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12	40H107	TC40H107AP	TOSJ	JK FL-FLOP	68- 94
13	40H107	*TC40H107F	TOSJ	JK FL-FLOP	68- 95
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67	41A5151	*41A5151	ESAN	TIME DELAY	144- 2
68	41A5175	*41A5175	ESAN	TIME DELAY	144- 3
69	41A5200	*41A5200	ESAN	TIME DELAY	144- 4
70	41A5201	*41A5201	ESAN	TIME DELAY	144- 5
71	41A5250	*41A5250	ESAN	TIME DELAY	144- 6
72	41A5251	*41A5251	ESAN	TIME DELAY	144- 7
73	41A5300	*41A5300	ESAN	TIME DELAY	144- 8
74	41A5301	*41A5301	ESAN	TIME DELAY	144- 9
75	41A5400	*41A5400	ESAN	TIME DELAY	144- 10
76	41A5500	*41A5500	ESAN	TIME DELAY	144- 11
77	41A5600	*41A5600	ESAN	TIME DELAY	144- 12
78	41A5750	*41A5750	ESAN	TIME DELAY	144- 13
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80♦	42	*RG42CK	RTN	NAND GATE	106- 50
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83	42A5125	*42A5125	CSD	TIME DELAY	144- 15
84	42A5151	*42A5151	CSD	TIME DELAY	144- 16
85	42A5175	*42A5175	CSD	TIME DELAY	144- 17
86	42A5200	*42A5200	CSD	TIME DELAY	144- 18
87	42A5201	*42A5201	CSD	TIME DELAY	144- 19
88	42A5250	*42A5250	CSD	TIME DELAY	144- 20
89	42A5251	*42A5251	CSD	TIME DELAY	144- 21
90	42A5300	*42A5300	CSD	TIME DELAY	144- 22
91	42A5301	*42A5301	CSD	TIME DELAY	144- 23
92	42A5400	*42A5400	CSD	TIME DELAY	144- 24
93	42A5500	*42A5500	CSD	TIME DELAY	144- 25
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95	42A5750	*42A5750	CSD	TIME DELAY	144- 27
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97♦	43	*RG43CK	RTN	NAND GATE	106- 53
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106♦	45	ECLPWG45	RHB	TIME DELAY	152- 52
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105♦	54ACT794	54ACT794J	MMI	8-BIT LCH	239- 45
106♦	54ACT794	*54ACT794L	MMI	8-BIT LCH	239- 46
107♦	54ACT794	*54ACT794W	MMI	8-BIT LCH	239- 47
108♦	54ACT821	V54ACT821D	VTC	D FL-FLOP	49- 78
109♦	54ACT821	*V54ACT821DL	VTC	D FL-FLOP	49- 79
110♦	54ACT822	V54ACT822D	VTC	D FL-FLOP	49- 80
111♦	54ACT822	*V54ACT822DL	VTC	D FL-FLOP	49- 81
112♦	54ACT823	V54ACT823D	VTC	D FL-FLOP	49- 82
113♦	54ACT823	*V54ACT823DL	VTC	D FL-FLOP	49- 83
114♦	54ACT824	V54ACT824D	VTC	D FL-FLOP	49- 84
115♦	54ACT824	*V54ACT824DL	VTC	D FL-FLOP	49- 85
116♦	54ACT825	V54ACT825D	VTC	D FL-FLOP	49- 86
117♦	54ACT825	*V54ACT825DL	VTC	D FL-FLOP	49- 87
118♦	54ACT826	V54ACT826D	VTC	D FL-FLOP	49- 88
119♦	54ACT841	V54ACT841D	VTC	10-BIT LCH	242-107
120♦	54ACT841	*V54ACT841DL	VTC	10-BIT LCH	242-108
121♦	54ACT842	V54ACT842D	VTC	10-BIT LCH	242-109
122♦	54ACT842	*V54ACT842DL	VTC	10-BIT LCH	242-110
123♦	54ACT843	V54ACT843D	VTC	9-BIT LCH	241-103
124♦	54ACT843	*V54ACT843DL	VTC	9-BIT LCH	241-104
125♦	54ACT844	V54ACT844D	VTC	9-BIT LCH	241-105
126♦	54ACT844	*V54ACT844DL	VTC	9-BIT LCH	241-106
127♦	54ACT845	V54ACT845D	VTC	9-BIT LCH	241-107
128♦	54ACT845	*V54ACT845DL	VTC	9-BIT LCH	241-108
129♦	54ACT846	V54ACT846D	VTC	9-BIT LCH	241-109
130♦	54ACT846	*V54ACT846DL	VTC	9-BIT LCH	241-110
131♦	54ACT874	V54ACT874D	VTC	D FL-FLOP	62-104
132♦	54ACT874	*V54ACT874DL	VTC	D FL-FLOP	52- 66
133♦	54ACT876	V54ACT876D	VTC	D FL-FLOP	62-105
134♦	54ACT876	*V54ACT876DL	VTC	D FL-FLOP	52- 67
135♦	54ACT878	V54ACT878D	VTC	D FL-FLOP	62-106
136♦	54ACT878	*V54ACT878DL	VTC	D FL-FLOP	52- 68
137♦	54ACT879	V54ACT879D	VTC	D FL-FLOP	62-107
138♦	54ACT879	*V54ACT879DL	VTC	D FL-FLOP	52- 69
139♦	54ACT880	V54ACT880D	VTC	4-BIT LCH	230- 85
140♦	54ACT880	*V54ACT880DL	VTC	4-BIT LCH	230- 86
141▼	54AHCT161	IDT54AHCT161DB	IDT	HEX CNTR	155-110
142▼	54AHCT161	*IDT54AHCT161EB	IDT	HEX CNTR	156- 1
143▼	54AHCT161	*IDT54AHCT161LB	IDT	HEX CNTR	156- 2
144▼	54AHCT163	IDT54AHCT163DB	IDT	HEX CNTR	156- 3
145▼	54AHCT163	*IDT54AHCT163EB	IDT	HEX CNTR	156- 4
146▼	54AHCT163	*IDT54AHCT163LB	IDT	HEX CNTR	156- 5
147♦	54AHCT182	IDT54AHCT182D	IDT	PARITY GEN	224- 56
148♦	54AHCT182	IDT54AHCT182DB	IDT	PARITY GEN	224- 57
149♦	54AHCT182	*IDT54AHCT182L	IDT	PARITY GEN	224- 58
150♦	54AHCT182	*IDT54AHCT182LB	IDT	PARITY GEN	224- 59
151▼	54AHCT191	IDT54AHCT191DB	IDT	HEX CNTR	160-101
152▼	54AHCT191	*IDT54AHCT191EB	IDT	HEX CNTR	160-102
153▼	54AHCT191	*IDT54AHCT191LB	IDT	HEX CNTR	160-103
154▼	54AHCT193	IDT54AHCT193DB	IDT	HEX CNTR	160-104
155▼	54AHCT193	*IDT54AHCT193EB	IDT	HEX CNTR	160-105
156▼	54AHCT193	*IDT54AHCT193LB	IDT	HEX CNTR	160-106
157♦	54AHCT273	IDT54AHCT273D	IDT	D FL-FLOP	57- 99
158♦	54AHCT273	IDT54AHCT273DB	IDT	D FL-FLOP	57-100
159♦	54AHCT273	*IDT54AHCT273L	IDT	D FL-FLOP	57-101
160♦	54AHCT273	*IDT54AHCT273LB	IDT	D FL-FLOP	57-102
161♦	54AHCT373	IDT54AHCT373D	IDT	8-BIT LCH	236- 70
162♦	54AHCT373	IDT54AHCT373DB	IDT	8-BIT LCH	237- 9
163♦	54AHCT373	*IDT54AHCT373L	IDT	8-BIT LCH	236- 71
164♦	54AHCT373	*IDT54AHCT373LB	IDT	8-BIT LCH	237- 10
165♦	54AHCT374	IDT54AHCT374D	IDT	D FL-FLOP	57-103
166♦	54AHCT374	IDT54AHCT374DB	IDT	D FL-FLOP	57-104
167♦	54AHCT374	*IDT54AHCT374L	IDT	D FL-FLOP	57-105
168♦	54AHCT374	*IDT54AHCT374LB	IDT	D FL-FLOP	57-106
169♦	54AHCT377	IDT54AHCT377D	IDT	D FL-FLOP	57-107
170♦	54AHCT377	IDT54AHCT377DB	IDT	D FL-FLOP	57-108
171♦	54AHCT377	*IDT54AHCT377L	IDT	D FL-FLOP	57-109
172♦	54AHCT377	*IDT54AHCT377LB	IDT	D FL-FLOP	57-110
173♦	54AHCT521	IDT54AHCT521D	IDT	MAGN COMP	215- 61
174♦	54AHCT521	IDT54AHCT521DB	IDT	MAGN COMP	215- 62
175	54AHCT521	*IDT54AHCT521LB	IDT	MAGN COMP	215- 63
176♦	54AHCT533	IDT54AHCT533D	IDT	LATCH	229- 8
177♦	54AHCT533	IDT54AHCT533DB	IDT	8-BIT LCH	237- 63
178♦	54AHCT533	*IDT54AHCT533L	IDT	8-BIT LCH	237- 64
179♦	54AHCT533	*IDT54AHCT533LB	IDT	8-BIT LCH	237- 65
180♦	54AHCT534	IDT54AHCT534D	IDT	D FL-FLOP	58- 1
181♦	54AHCT534	IDT54AHCT534DB	IDT	D FL-FLOP	58- 2
182♦	54AHCT534	*IDT54AHCT534L	IDT	D FL-FLOP	58- 3
183♦	54AHCT534	*IDT54AHCT534LB	IDT	D FL-FLOP	58- 4
184▼	54AHCT573	IDT54AHCT573DB	IDT	8-BIT LCH	236- 23
185▼	54AHCT573	*IDT54AHCT573EB	IDT	8-BIT LCH	236- 24
186▼	54AHCT573	*IDT54AHCT573LB	IDT	8-BIT LCH	236- 25
187♦	54ALS00	DM54ALS00AJ	NSC	NAND GATE	95- 93
188♦	54ALS00	SN54ALS00AJ	TII	NAND GATE	98- 78
189♦	54ALS01	DM54ALS01J	NSC	NAND GATE	100- 50
190♦	54ALS01	SN54ALS01J	TII	NAND GATE	100- 59
191♦	54ALS02	DM54ALS02J	NSC	NOR GATE	112- 57
192♦	54ALS02	SN54ALS02J	TII	NOR GATE	113- 84
193♦	54ALS03	DM54ALS03AJ	NSC	NAND GATE	95- 94
194▼	54ALS03	SN54ALS03BJ	TII	NAND GATE	100- 51
195♦	54ALS08	DM54ALS08J	NSC	AND GATE	76- 22
196♦	54ALS08	SN54ALS08J	TII	AND GATE	77- 77
197♦	54ALS09	DM54ALS09J	NSC	AND GATE	78- 64
198♦	54ALS09	SN54ALS09J	TII	AND GATE	78- 66
199♦	54ALS10	DM54ALS10AJ	NSC	NAND GATE	102- 92
200♦	54ALS10	SN54ALS10AJ	TII	NAND GATE	102-106
201♦	54ALS11	DM54ALS11AJ	NSC	AND GATE	79- 47
202♦	54ALS11	SN54ALS11AJ	TII	AND GATE	80- 61
203♦	54ALS12	DM54ALS12AJ	NSC	NAND GATE	101- 42
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211♦	54ALS22	DM54ALS22J	NSC	NAND GATE	104- 74
212▼	54ALS22	*SN54ALS22BJ	TII	NAND GATE	107- 88
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217♦	54ALS32	DM54ALS32J	NSC	OR GATE	120- 18
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41♦	54ALS534	DM54ALS534J	NSC	D FL-FLOP	60- 85
42♦	54ALS563	DM54ALS563J	NSC	8-BIT LCH	237- 40
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53♦	54ALS580	DM54ALS580J	NSC	8-BIT LCH	237- 41
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55♦	54ALS632	SN54ALS632AJD	TII	SPECIAL	245- 60
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57♦	54ALS678	DM54ALS678J(A)	NSC	MAGN COMP	215- 34
58♦	54ALS679	DM54ALS679J(A)	NSC	MAGN COMP	215- 16
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63♦	54ALS843	SN54ALS843JT	TII	9-BIT LCH	241- 81
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75♦	54AS10	DM54AS10J	NSC	NAND GATE	102- 46
76♦	54AS10	SN54AS10J	TII	NAND GATE	102- 49
77♦	54AS11	DM54AS11J	NSC	AND GATE	79- 49
78♦	54AS20	DM54AS20J	NSC	NAND GATE	104- 75
79♦	54AS20	SN54AS20J	TII	NAND GATE	105- 84
80♦	54AS21	DM54AS21J	NSC	AND GATE	81-109
81♦	54AS21	SN54AS21J	TII	AND GATE	81-110
82♦	54AS27	DM54AS27J	NSC	NOR GATE	115- 65
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90♦	54AS109	DM54AS109J(A)	NSC	JK FL-FLOP	73- 96
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92♦	54AS112	DM54AS112J(A)	NSC	JK FL-FLOP	74- 85
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96♦	54AS160	DM54AS160J(A)	NSC	HEX CNTR	162- 62
97♦	54AS161	DM54AS161J	NSC	HEX CNTR	158- 64
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102♦	54AS169	DM54AS169J	NSC	HEX CNTR	163- 57
103♦	54AS174	DM54AS174J(A)	NSC	D FL-FLOP	57- 28
104♦	54AS174	SN54AS174J	TII	D FL-FLOP	57- 33
105♦	54AS175	DM54AS175J(A)	NSC	D FL-FLOP	55- 78
106♦	54AS181	DM54AS181BJ	NSC	4-BIT ALU	221- 18
107♦	54AS182	DM54AS182J(A)	NSC	PARITY GEN	225- 13
108♦	54AS264	DM54AS264J(A)	NSC	PARITY GEN	224- 71
109♦	54AS280	DM54AS280J(A)	NSC	PARITY GEN	226- 52
110♦	54AS282	DM54AS282J(A)	NSC	PARITY GEN	225- 15
111♦	54AS282	DM54AS282N	NSC	PARITY GEN	225- 3
112♦	54AS286	DM54AS286J(A)	NSC	PARITY GEN	226- 41
113♦	54AS373	DM54AS373J	NSC	4-BIT LCH	230- 50
114♦	54AS373	SN54AS373J	TII	8-BIT LCH	234- 74
115♦	54AS374	DM54AS374J	NSC	D FL-FLOP	63- 61
116♦	54AS374	SN54AS374J	TII	D FL-FLOP	63- 85
117♦	54AS533	DM54AS533J	NSC	8-BIT LCH	235- 13
118♦	54AS534	DM54AS534J	NSC	D FL-FLOP	63- 62
119♦	54AS573	DM54AS573J	NSC	8-BIT LCH	234- 14
120♦	54AS574	DM54AS574J	NSC	D FL-FLOP	63- 63
121♦	54AS575	DM54AS575J	NSC	D FL-FLOP	63- 64
122♦	54AS576	DM54AS576J	NSC	D FL-FLOP	63- 65
123♦	54AS577	DM54AS577J	NSC	D FL-FLOP	63- 66
124♦	54AS580	DM54AS580J	NSC	8-BIT LCH	235- 14
125♦	54AS810	DM54AS810J(A)	NSC	EXNOR GATE	89-106
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127♦	54AS841	DM54AS841J(A)	NSC	10-BIT LCH	242- 92
128♦	54AS842	DM54AS842J(A)	NSC	10-BIT LCH	242- 93
129♦	54AS843	DM54AS843J(A)	NSC	9-BIT LCH	241- 89
130♦	54AS844	DM54AS844J(A)	NSC	9-BIT LCH	241- 98
131♦	54AS845	DM54AS845J(A)	NSC	8-BIT LCH	235- 15
132♦	54AS846	DM54AS846J(A)	NSC	8-BIT LCH	233- 88
133♦	54AS873	DM54AS873J	NSC	4-BIT LCH	230- 58
134♦	54AS874	DM54AS874J	NSC	D FL-FLOP	63- 67
135♦	54AS876	DM54AS876J	NSC	D FL-FLOP	63- 68
136♦	54AS878	DM54AS878J	NSC	D FL-FLOP	63- 69
137♦	54AS879	DM54AS879J	NSC	D FL-FLOP	63- 70
138♦	54AS880	DM54AS880J	NSC	4-BIT LCH	230- 68
139♦	54AS881	DM54AS881BJ	NSC	4-BIT ALU	221- 19
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142♦	54C08	MM54C08D	NSC	AND GATE	76- 67
143♦	54C10	MM54C10D	NSC	NAND GATE	101- 84
144♦	54C20	MM54C20D	NSC	NAND GATE	107- 89
145♦	54C30	MM54C30D	NSC	NAND GATE	110- 89
146♦	54C32	MM54C32D	NSC	OR GATE	120- 60
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155♦	54C93	MM54C93D	NSC	HEX CNTR	154- 35
156♦	54C107	MM54C107D	NSC	JK FL-FLOP	67- 40
157♦	54C160	MM54C160D	NSC	DEC CNTR	172- 65
158♦	54C161	MM54C161D	NSC	HEX CNTR	154- 40
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163▼	54C175	MM54C175D	NSC	D FL-FLOP	54- 8
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165♦	54C193	MM54C193D	NSC	HEX CNTR	159-102
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167♦	54F00	54F00DM	FSC	NAND GATE	95- 49
168♦	54F00	*54F00FM	FSC	NAND GATE	98- 21
169♦	54F00	*54F00L1M	FSC	NAND GATE	98- 22
170♦	54F00	MC54F00J	MOTA	NAND GATE	96- 66
171▼	54F00	MC54F00N	MOTA	NAND GATE	96- 67
172♦	54F00	*S54F00G	MULB	NAND GATE	101- 14
173♦	54F00	*S54F00G	PHIN	NAND GATE	101- 14
174♦	54F00	*S54F00G	RTCF	NAND GATE	101- 14
175♦	54F00	*S54F00G	VALG	NAND GATE	101- 14
176	54F00	*S54F00W	SIC	NAND GATE	97-106
177	54F00	*S54F00W	VALG	NAND GATE	97-106
178♦	54F02	54F02DM	FSC	NOR GATE	112- 45
179♦	54F02	*54F02FM	FSC	NOR GATE	113- 63
180♦	54F02	*54F02L1M	FSC	NOR GATE	113- 64
181♦	54F02	MC54F02J	MOTA	NOR GATE	112- 83
182▼	54F02	MC54F02N	MOTA	NOR GATE	112- 84
183♦	54F02	S54F02F	MULB	NOR GATE	112-102
184♦	54F02	S54F02F	PHIN	NOR GATE	112-102
185♦	54F02	S54F02F	RTCF	NOR GATE	112-102
186♦	54F02	S54F02F	SIC	NOR GATE	112-102
187♦	54F02	S54F02F	VALG	NOR GATE	112-102
188♦	54F02	*S54F02G	MULB	NOR GATE	113- 67
189♦	54F02	*S54F02G	PHIN	NOR GATE	113- 67
190♦	54F02	*S54F02G	RTCF	NOR GATE	113- 67
191♦	54F02	*S54F02G	VALG	NOR GATE	113- 67
192♦	54F02	*S54F02W	SIC	NOR GATE	113- 68
193♦	54F08	54F08DM	FSC	AND GATE	76- 5
194♦	54F08	*54F08FM	FSC	AND GATE	77- 40
195♦	54F08	*54F08L1M	FSC	AND GATE	76- 6
196♦	54F08	MC54F08J	MOTA	AND GATE	76- 47
197▼	54F08	MC54F08N	MOTA	AND GATE	76- 48
198♦	54F08	S54F08F	MULB	AND GATE	76- 85
199♦	54F08	S54F08F	PHIN	AND GATE	76- 85
200♦	54F08	S54F08F	RTCF	AND GATE	76- 85
201♦	54F08	S54F08F	SIC	AND GATE	76- 85
202♦	54F08	S54F08F	VALG	AND GATE	76- 85
203♦	54F08	*S54F08G	MULB	AND GATE	76- 86
204♦	54F08	*S54F08G	PHIN	AND GATE	76- 86
205♦	54F08	*S54F08G	RTCF	AND GATE	76- 86
206♦	54F08	*S54F08G	VALG	AND GATE	76- 86
207	54F08	*S54F08W	SIC	AND GATE	77- 35
208	54F08	*S54F08W	VALG	AND GATE	77- 35
209♦	54F10	54F10DM	FSC	NAND GATE	101- 17
210♦	54F10	*54F10FM	FSC	NAND GATE	102- 60
211♦	54F10	*54F10L1M	FSC	NAND GATE	102- 61
212♦	54F10	MC54F10J	MOTA	NAND GATE	101- 71
213▼	54F10	MC54F10N	MOTA	NAND GATE	101- 72
214♦	54F10	S54F10F	MULB	NAND GATE	101-108
215♦	54F10	S54F10F	PHIN	NAND GATE	101-108
216♦	54F10	S54F10F	RTCF	NAND GATE	101-108
217♦	54F10	S54F10F	VALG	NAND GATE	101-108
218♦	54F10	*S54F10G	MULB	NAND GATE	102- 62
219♦	54F10	*S54F10G	PHIN	NAND GATE	102- 62
220♦	54F10	*S54F10G	RTCF	NAND GATE	102- 62

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1♦	54F10	*S54F10G	VALG	NAND GATE	102- 62
2	54F10	*S54F10W	VALG	NAND GATE	102- 47
3♦	54F11	54F11DM	FSC	AND GATE	79- 22
4♦	54F11	*54F11FM	FSC	AND GATE	80- 42
5♦	54F11	*54F11L1M	FSC	AND GATE	79- 23
6♦	54F11	MC54F11J(A)	MOTA	AND GATE	79- 82
7▼	54F11	MC54F11N(A)	MOTA	AND GATE	79- 83
8♦	54F11	S54F11F	MULB	AND GATE	79-107
9♦	54F11	S54F11F	PHIN	AND GATE	79-107
10♦	54F11	S54F11F	RTCF	AND GATE	79-107
11♦	54F11	S54F11F	VALG	AND GATE	79-107
12♦	54F11	*S54F11G	MULB	AND GATE	80- 43
13♦	54F11	*S54F11G	PHIN	AND GATE	80- 43
14♦	54F11	*S54F11G	RTCF	AND GATE	80- 43
15♦	54F11	*S54F11G	VALG	AND GATE	80- 43
16	54F11	*S54F11W	VALG	AND GATE	80- 36
17♦	54F20	54F20DM	FSC	NAND GATE	106- 7
18♦	54F20	*54F20FM	FSC	NAND GATE	106- 8
19♦	54F20	*54F20L1M	FSC	NAND GATE	106- 9
20♦	54F20	MC54F20J	MOTA	NAND GATE	105- 70
21▼	54F20	MC54F20N	MOTA	NAND GATE	105- 71
22♦	54F20	S54F20F	MULB	NAND GATE	106- 16
23♦	54F20	S54F20F	PHIN	NAND GATE	106- 16
24♦	54F20	S54F20F	RTCF	NAND GATE	106- 16
25♦	54F20	S54F20F	SIC	NAND GATE	106- 16
26♦	54F20	S54F20F	VALG	NAND GATE	106- 16
27♦	54F20	*S54F20G	MULB	NAND GATE	106- 17
28♦	54F20	*S54F20G	PHIN	NAND GATE	106- 17
29♦	54F20	*S54F20G	RTCF	NAND GATE	106- 17
30♦	54F20	*S54F20G	VALG	NAND GATE	106- 17
31	54F20	*S54F20W	SIC	NAND GATE	105- 76
32	54F20	*S54F20W	VALG	NAND GATE	105- 76
33▼	54F21	MC54F21	MOTA	AND GATE	82- 52
34♦	54F32	54F32DM	FSC	OR GATE	120- 6
35♦	54F32	*54F32FM	FSC	OR GATE	121- 41
36♦	54F32	*54F32L1M	FSC	OR GATE	121- 42
37♦	54F32	MC54F32J	MOTA	OR GATE	120- 42
38▼	54F32	MC54F32N	MOTA	OR GATE	120- 43
39♦	54F32	S54F32F	MULB	OR GATE	121- 43
40♦	54F32	S54F32F	PHIN	OR GATE	121- 43
41♦	54F32	S54F32F	RTCF	OR GATE	121- 43
42♦	54F32	S54F32F	VALG	OR GATE	121- 43
43♦	54F32	*S54F32G	MULB	OR GATE	121- 44
44♦	54F32	*S54F32G	PHIN	OR GATE	121- 44
45♦	54F32	*S54F32G	RTCF	OR GATE	121- 44
46♦	54F32	*S54F32G	VALG	OR GATE	121- 44
47	54F32	*S54F32W	SIC	OR GATE	121- 31
48	54F32	*S54F32W	VALG	OR GATE	121- 31
49♦	54F64	54F64DM	FSC	AND-OR-INV	89- 82
50♦	54F64	*54F64FM	FSC	AND-OR-INV	88- 23
51♦	54F64	*54F64L1M	FSC	AND-OR-INV	89- 15
52♦	54F64	MC54F64J	MOTA	AND-OR-INV	89- 13
53▼	54F64	MC54F64N	MOTA	AND-OR-INV	89- 16
54♦	54F64	S54F64F	SIC	AND-OR-INV	89- 14
55♦	54F64	S54F64F	VALG	AND-OR-INV	89- 14
56♦	54F64	*S54F64W	SIC	AND-OR-INV	88- 25
57♦	54F64	*S54F64W	VALG	AND-OR-INV	88- 25
58♦	54F74	54F74DM	FSC	D FL-FLOP	52-107
59	54F74	*54F74FM	FSC	D FL-FLOP	52-108
60	54F74	*54F74L1M	FSC	D FL-FLOP	52-109
61♦	54F74	MC54F74J	MOTA	D FL-FLOP	53- 14
62▼	54F74	MC54F74N	MOTA	D FL-FLOP	53- 15
63♦	54F74	S54F74F	MULB	D FL-FLOP	52- 78
64♦	54F74	S54F74F	PHIN	D FL-FLOP	52- 78
65♦	54F74	S54F74F	RTCF	D FL-FLOP	52- 78
66♦	54F74	S54F74F	SIC	D FL-FLOP	52- 78
67♦	54F74	S54F74F	VALG	D FL-FLOP	52- 78
68	54F74	*S54F74G	MULB	D FL-FLOP	52- 79
69	54F74	*S54F74G	PHIN	D FL-FLOP	52- 79
70	54F74	*S54F74G	RTCF	D FL-FLOP	52- 79
71	54F74	*S54F74G	VALG	D FL-FLOP	52- 79
72	54F74	*S54F74W	SIC	D FL-FLOP	53- 21
73	54F74	*S54F74W	VALG	D FL-FLOP	53- 21
74♦	54F85	54F85DM(A)	FSC	MAGN COMP	216- 52
75	54F85	*54F85L1M(A)	FSC	MAGN COMP	216- 53
76♦	54F86	54F86DM	FSC	EX-OR GATE	91- 41
77♦	54F86	*54F86L1M	FSC	EX-OR GATE	93- 21
78♦	54F86	MC54F86J	MOTA	EX-OR GATE	93- 12
79▼	54F86	MC54F86N	MOTA	EX-OR GATE	93- 13
80♦	54F86	S54F86F	MULB	EX-OR GATE	93- 22
81♦	54F86	S54F86F	PHIN	EX-OR GATE	93- 22
82♦	54F86	S54F86F	RTCF	EX-OR GATE	93- 22
83♦	54F86	S54F86F	SIC	EX-OR GATE	93- 22
84♦	54F86	S54F86F	VALG	EX-OR GATE	93- 22
85♦	54F86	*S54F86W	MULB	EX-OR GATE	93- 23
86♦	54F86	*S54F86W	PHIN	EX-OR GATE	93- 23
87♦	54F86	*S54F86W	RTCF	EX-OR GATE	93- 23
88♦	54F86	*S54F86W	SIC	EX-OR GATE	93- 23
89♦	54F86	*S54F86W	VALG	EX-OR GATE	93- 23
90♦	54F109	54F109DM	FSC	JK FL-FLOP	73-107
91	54F109	*54F109FM	FSC	JK FL-FLOP	73-108
92	54F109	*54F109L1M	FSC	JK FL-FLOP	73-109
93♦	54F109	MC54F109J	MOTA	JK FL-FLOP	74- 35
94▼	54F109	MC54F109N	MOTA	JK FL-FLOP	74- 36
95♦	54F109	S54F109F	MULB	JK FL-FLOP	73- 88
96♦	54F109	S54F109F	PHIN	JK FL-FLOP	73- 88
97♦	54F109	S54F109F	RTCF	JK FL-FLOP	73- 88
98♦	54F109	S54F109F	SIC	JK FL-FLOP	73- 88
99♦	54F109	S54F109F	VALG	JK FL-FLOP	73- 88
100	54F109	*S54F109G	MULB	JK FL-FLOP	73- 89
101	54F109	*S54F109G	PHIN	JK FL-FLOP	73- 89
102	54F109	*S54F109G	RTCF	JK FL-FLOP	73- 89
103	54F109	*S54F109G	VALG	JK FL-FLOP	73- 89
104	54F109	*S54F109W	SIC	JK FL-FLOP	73- 90
105	54F109	*S54F109W	VALG	JK FL-FLOP	73- 90
106♦	54F112	54F112DM	FSC	JK FL-FLOP	74- 54
107	54F112	*54F112L1M	FSC	JK FL-FLOP	74- 55
108♦	54F112	MC54F112J	MOTA	JK FL-FLOP	74- 61
109▼	54F112	MC54F112N	MOTA	JK FL-FLOP	74- 62
110♦	54F113	54F113DM	FSC	JK FL-FLOP	73-110
111	54F113	*54F113L1M	FSC	JK FL-FLOP	74- 1
112♦	54F113	MC54F113J	MOTA	JK FL-FLOP	74- 63
113▼	54F113	MC54F113N	MOTA	JK FL-FLOP	74- 64
114♦	54F114	54F114DM	FSC	JK FL-FLOP	74- 2
115	54F114	*54F114L1M	FSC	JK FL-FLOP	74- 3
116♦	54F114	MC54F114J	MOTA	JK FL-FLOP	73-103
117▼	54F114	MC54F114N	MOTA	JK FL-FLOP	73-104
118♦	54F138	MC54F138J(2A)	MOTA	DECODER	125- 25
119♦	54F160	54F160ADM	FSC	DEC CNTR	176- 57
120♦	54F160	*54F160AL1M	FSC	DEC CNTR	176- 58
121♦	54F160	54F160DM	FSC	DEC CNTR	176- 59
122♦	54F160	*54F160FM	FSC	DEC CNTR	176- 60
123♦	54F160	MC54F160AJ	MOTA	DEC CNTR	176- 79
124▼	54F160	MC54F160AN	MOTA	DEC CNTR	176- 80
125♦	54F161	54F161ADM	FSC	HEX CNTR	158- 98
126♦	54F161	*54F161AL1M	FSC	HEX CNTR	158- 99
127♦	54F161	54F161DM	FSC	HEX CNTR	158-100
128♦	54F161	*54F161FM	FSC	HEX CNTR	158-101
129♦	54F161	MC54F161AJ	MOTA	HEX CNTR	159- 10
130▼	54F161	MC54F161AN	MOTA	HEX CNTR	159- 11
131♦	54F162	54F162ADM	FSC	DEC CNTR	176- 61
132♦	54F162	*54F162AL1M	FSC	DEC CNTR	176- 62
133♦	54F162	54F162DM	FSC	DEC CNTR	176- 63
134♦	54F162	*54F162FM	FSC	DEC CNTR	176- 64
135♦	54F162	MC54F162AJ	MOTA	DEC CNTR	176- 81
136▼	54F162	MC54F162AN	MOTA	DEC CNTR	176- 82
137♦	54F163	54F163ADM	FSC	HEX CNTR	158-102
138♦	54F163	*54F163AL1M	FSC	HEX CNTR	158-103
139♦	54F163	54F163DM	FSC	HEX CNTR	158-104
140♦	54F163	*54F163FM	FSC	HEX CNTR	158-105
141♦	54F163	MC54F163AJ	MOTA	HEX CNTR	159- 12
142▼	54F163	MC54F163AN	MOTA	HEX CNTR	159- 13
143♦	54F168	54F168DM	FSC	DEC CNTR	180- 43
144♦	54F168	*54F168L1M	FSC	DEC CNTR	180- 44
145♦	54F169	54F169DM	FSC	HEX CNTR	163- 70
146♦	54F169	*54F169L1M	FSC	HEX CNTR	163- 71
147♦	54F174	54F174DM	FSC	D FL-FLOP	57- 46
148	54F174	*54F174L1M	FSC	D FL-FLOP	57- 47
149♦	54F174	MC54F174J	MOTA	D FL-FLOP	57- 53
150▼	54F174	MC54F174N	MOTA	D FL-FLOP	57- 54
151♦	54F175	54F175DM	FSC	D FL-FLOP	55-100
152	54F175	*54F175FM	FSC	D FL-FLOP	55-101
153	54F175	*54F175L1M	FSC	D FL-FLOP	55- 92
154♦	54F175	MC54F175J	MOTA	D FL-FLOP	55- 96
155▼	54F175	MC54F175N	MOTA	D FL-FLOP	55- 97
156♦	54F175	S54F175F(A)	MULB	D FL-FLOP	55- 81
157♦	54F175	S54F175F(A)	PHIN	D FL-FLOP	55- 81
158♦	54F175	S54F175F(A)	RTCF	D FL-FLOP	55- 81
159♦	54F175	S54F175F(A)	VALG	D FL-FLOP	55- 81
160	54F175	*S54F175G(A)	MULB	D FL-FLOP	55- 82
161	54F175	*S54F175G(A)	PHIN	D FL-FLOP	55- 82
162	54F175	*S54F175G(A)	RTCF	D FL-FLOP	55- 82
163	54F175	*S54F175G(A)	VALG	D FL-FLOP	55- 82
164♦	54F181	54F181DM	FSC	4-BIT ALU	221- 21
165	54F181	*54F181FM	FSC	4-BIT ALU	221- 22
166	54F181	*54F181L1M	FSC	4-BIT ALU	221- 23
167♦	54F181	MC54F181J	MOTA	4-BIT ALU	221- 32
168▼	54F181	MC54F181N	MOTA	4-BIT ALU	221- 33
169♦	54F182	54F182DM	FSC	PARITY GEN	224- 68
170	54F182	*54F182FM	FSC	PARITY GEN	224- 69
171	54F182	*54F182L1M	FSC	PARITY GEN	224- 70
172♦	54F182	MC54F182J	MOTA	PARITY GEN	224- 88
173▼	54F182	MC54F182N	MOTA	PARITY GEN	224- 89
174♦	54F190	54F190DM	FSC	DEC CNTR	180- 59
175♦	54F190	*54F190L1M	FSC	DEC CNTR	180- 60
176♦	54F190	MC54F190J	MOTA	DEC CNTR	182- 44
177▼	54F190	MC54F190N	MOTA	DEC CNTR	182- 45
178♦	54F191	54F191DM	FSC	HEX CNTR	163- 84
179♦	54F191	*54F191L1M	FSC	HEX CNTR	163- 85
180♦	54F191	MC54F191J	MOTA	HEX CNTR	163- 66
181▼	54F191	MC54F191N	MOTA	HEX CNTR	163- 67
182♦	54F192	54F192DM	FSC	DEC CNTR	180- 61
183♦	54F192	*54F192L1M	FSC	DEC CNTR	180- 62
184♦	54F192	MC54F192J	MOTA	DEC CNTR	180- 73
185▼	54F192	MC54F192N	MOTA	DEC CNTR	180- 74
186♦	54F193	54F193DM	FSC	HEX CNTR	163- 86
187♦	54F193	*54F193L1M	FSC	HEX CNTR	163- 87
188♦	54F193	MC54F193J	MOTA	HEX CNTR	163- 98
189▼	54F193	MC54F193N	MOTA	HEX CNTR	163- 99
190♦	54F256	54F256DM(A)	FSC	4-BIT LCH	230- 51
191♦	54F256	*54F256L1M(A)	FSC	4-BIT LCH	230- 52
192♦	54F259	54F259DM(A)	FSC	8-BIT LCH	234- 85
193♦	54F259	*54F259L1M(A)	FSC	8-BIT LCH	234- 86
194♦	54F269	54F269DM(A)	FSC	COUNTER	166- 93
195♦	54F269	*54F269L1M(A)	FSC	COUNTER	166- 94
196♦	54F273	54F273DM(A)	FSC	D FL-FLOP	63- 16
197	54F273	*54F273L1M(A)	FSC	D FL-FLOP	63- 17
198♦	54F280	54F280DM	FSC	PARITY GEN	226- 62
199	54F280	*54F280FM	FSC	PARITY GEN	226- 63
200	54F280	*54F280L1M	FSC	PARITY GEN	226- 64
201♦	54F280	MC54F280J	MOTA	PARITY GEN	226- 56
202▼	54F280	MC54F280N	MOTA	PARITY GEN	226- 57
203	54F280	*S54F280AF(A)	MULB	PARITY GEN	226- 60
204	54F280	*S54F280AF(A)	PHIN	PARITY GEN	226- 60
205	54F280	*S54F280AF(A)	RTCF	PARITY GEN	226- 60
206	54F280	*S54F280AF(A)	SIC	PARITY GEN	226- 60
207	54F280	*S54F280AF(A)	VALG	PARITY GEN	226- 60
208	54F280	*S54F280AG(A)	MULB	PARITY GEN	226- 53
209	54F280	*S54F280AG(A)	PHIN	PARITY GEN	226- 53
210	54F280	*S54F280AG(A)	RTCF	PARITY GEN	226- 53
211	54F280	*S54F280AG(A)	VALG	PARITY GEN	226- 53
212♦	54F280	S54F280AW	SIC	PARITY GEN	226- 61
213♦	54F283	54F283DM	FSC	ADDER	199- 49
214	54F283	*54F283FM	FSC	ADDER	199- 50
215	54F283	*54F283L1M	FSC	ADDER	199- 60
216♦	54F283	MC54F283J	MOTA	ADDER	199- 63
217♦	54F283	MC54F283N	MOTA	ADDER	199- 64
218♦	54F283	S54F283F(A)	MULB	ADDER	199- 67
219♦	54F283	S54F283F(A)	PHIN	ADDER	199- 67
220♦	54F283	S54F283F(A)	RTCF	ADDER	199- 67

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1♦	54F283	S54F283F(A)	VALG	ADDER	199- 67
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3	54F283	*S54F283G(A)	PHIN	ADDER	199- 68
4	54F283	*S54F283G(A)	RTCF	ADDER	199- 68
5	54F283	*S54F283G(A)	VALG	ADDER	199- 68
6♦	54F373	54F373DM	FSC	8-BIT LCH	234- 75
7♦	54F373	*54F373FM	FSC	8-BIT LCH	234- 76
8♦	54F373	*54F373L1M	FSC	8-BIT LCH	234- 77
9♦	54F373	MC54F373J	MOTA	8-BIT LCH	236- 26
10♦	54F373	MC54F373N	MOTA	8-BIT LCH	236- 27
11♦	54F373	S54F373F	MULB	8-BIT LCH	235- 47
12♦	54F373	S54F373F	PHIN	8-BIT LCH	235- 47
13♦	54F373	S54F373F	RTCF	8-BIT LCH	235- 47
14♦	54F373	S54F373F	SIC	8-BIT LCH	235- 47
15♦	54F373	S54F373F	VALG	8-BIT LCH	235- 47
16♦	54F374	54F374DM	FSC	D FL-FLOP	64- 38
17	54F374	*54F374FM	FSC	D FL-FLOP	64- 39
18	54F374	*54F374L1M	FSC	D FL-FLOP	64- 40
19♦	54F374	MC54F374J	MOTA	D FL-FLOP	63- 72
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22♦	54F374	S54F374F	PHIN	D FL-FLOP	63- 82
23♦	54F374	S54F374F	RTCF	D FL-FLOP	63- 82
24♦	54F374	S54F374F	SIC	D FL-FLOP	63- 82
25♦	54F374	S54F374F	VALG	D FL-FLOP	63- 82
26♦	54F374	*S54F374G	MULB	D FL-FLOP	62- 49
27♦	54F374	*S54F374G	PHIN	D FL-FLOP	62- 49
28♦	54F374	*S54F374G	RTCF	D FL-FLOP	62- 49
29♦	54F374	*S54F374G	VALG	D FL-FLOP	62- 49
30♦	54F377	54F377DM(A)	FSC	D FL-FLOP	63- 18
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33	54F378	*54F378L1M	FSC	D FL-FLOP	57- 15
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35▼	54F378	MC54F378N	MOTA	D FL-FLOP	57- 17
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38♦	54F381	54F381DM	FSC	4-BIT ALU	220- 75
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40♦	54F381	MC54F381J	MOTA	4-BIT ALU	220- 71
41♦	54F381	MC54F381N	MOTA	4-BIT ALU	220- 72
42♦	54F382	54F382DM	FSC	4-BIT ALU	220- 77
43	54F382	*54F382L1M	FSC	4-BIT ALU	220- 78
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45	54F384	*54F384L1M	FSC	MULTIPLIER	202- 64
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49♦	54F412	*54F412L1M	FSC	8-BIT LCH	235- 36
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51	54F418	*54F418L1M(A)	FSC	SPECIAL	245- 37
52♦	54F420	54F420DM(A)	FSC	SPECIAL	245- 38
53	54F420	*54F420L1M(A)	FSC	SPECIAL	245- 39
54♦	54F432	54F432DM	FSC	8-BIT LCH	235- 7
55♦	54F432	*54F432L1M	FSC	8-BIT LCH	235- 8
56♦	54F432	54F432SDM	FSC	8-BIT LCH	235- 9
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62♦	54F521	S54F521F	PHIN	MAGN COMP	215- 93
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64♦	54F521	S54F521F	SIC	MAGN COMP	215- 93
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67	54F521	*S54F521G	PHIN	MAGN COMP	215- 94
68	54F521	*S54F521G	RTCF	MAGN COMP	215- 94
69	54F521	*S54F521G	VALG	MAGN COMP	215- 94
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71	54F521	*S54F521W	VALG	MAGN COMP	215- 80
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91♦	54F534	S54F534F	VALG	D FL-FLOP	63- 83
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93	54F534	*S54F534W	VALG	D FL-FLOP	63- 84
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95	54F557	*54F557L1M(A)	FSC	MULTIPLIER	203- 27
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97	54F558	*54F558L1M(A)	FSC	MULTIPLIER	203- 29
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99♦	54F563	*54F563L1M(A)	FSC	8-BIT LCH	234- 9
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101	54F564	*54F564L1M(A)	FSC	D FL-FLOP	63- 24
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110♦	54F579	54F579DM	FSC	COUNTER	166- 95
111♦	54F579	*54F579L1M	FSC	COUNTER	166- 96
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113	54F582	*54F582L1M	FSC	4-BIT ALU	221- 40
114♦	54F582	54F582SDM	FSC	4-BIT ALU	221- 41
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129♦	54F823	54F823DM(A)	FSC	D FL-FLOP	64- 55
130	54F823	*54F823L1M(A)	FSC	D FL-FLOP	64- 56
131♦	54F823	54F823SDM(A)	FSC	D FL-FLOP	64- 57
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133	54F825	*54F825L1M(A)	FSC	D FL-FLOP	63- 28
134♦	54F825	54F825SDM(A)	FSC	D FL-FLOP	63- 29
135♦	54F841	54F841DM(A)	FSC	10-BIT LCH	242- 70
136♦	54F841	*54F841L1M(A)	FSC	10-BIT LCH	242- 71
137♦	54F841	54F841SDM(A)	FSC	10-BIT LCH	242- 72
138♦	54F843	54F843DM(A)	FSC	9-BIT LCH	241- 70
139♦	54F843	*54F843L1M(A)	FSC	9-BIT LCH	241- 71
140♦	54F843	54F843SDM(A)	FSC	9-BIT LCH	241- 72
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142♦	54F845	*54F845L1M(A)	FSC	8-BIT LCH	234- 35
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148▼	54FCT161	IDT54FCT161DB	IDT	HEX CNTR	156- 10
149▼	54FCT161	*IDT54FCT161EB	IDT	HEX CNTR	156- 11
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163♦	54FCT182	*IDT54FCT182LB	IDT	PARITY GEN	225- 10
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173▼	54FCT193	*IDT54FCT193AEB	IDT	HEX CNTR	161- 6
174▼	54FCT193	*IDT54FCT193ALB	IDT	HEX CNTR	161- 7
175▼	54FCT193	IDT54FCT193DB	IDT	HEX CNTR	161- 8
176▼	54FCT193	*IDT54FCT193EB	IDT	HEX CNTR	161- 9
177▼	54FCT193	*IDT54FCT193LB	IDT	HEX CNTR	161- 10
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180▼	54FCT273	*IDT54FCT273ALB	IDT	D FL-FLOP	58- 32
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182▼	54FCT273	*IDT54FCT273EB	IDT	D FL-FLOP	58- 34
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186♦	54FCT373	*IDT54FCT373L	IDT	8-BIT LCH	234- 80
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198▼	54FCT521	*IDT54FCT521ALB	IDT	MAGN COMP	215- 74
199♦	54FCT521	IDT54FCT521DB	IDT	MAGN COMP	215- 98
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216▼	54FCT573	*IDT54FCT573ALB	IDT	8-BIT LCH	233-105
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75♦	54H21	S54H21F	MULB	AND GATE	82- 47
76♦	54H21	S54H21F	PHIN	AND GATE	82- 47
77♦	54H21	S54H21F	VALG	AND GATE	82- 47
78♦	54H21	*S54H21W	MULB	AND GATE	82- 48
79♦	54H21	*S54H21W	PHIN	AND GATE	82- 48
80♦	54H21	*S54H21W	VALG	AND GATE	82- 48
81♦	54H22	54H22DM	FSC	NAND GATE	104- 34
82♦	54H22	*54H22FM	FSC	NAND GATE	106- 79
83♦	54H22	S54H22F	MULB	NAND GATE	105- 30
84♦	54H22	S54H22F	PHIN	NAND GATE	105- 30
85♦	54H22	S54H22F	VALG	NAND GATE	105- 30
86♦	54H22	*S54H22W	MULB	NAND GATE	106- 91
87♦	54H22	*S54H22W	PHIN	NAND GATE	106- 91
88♦	54H22	*S54H22W	VALG	NAND GATE	106- 91
89♦	54H30	54H30DM	FSC	NAND GATE	109- 57
90♦	54H30	*54H30FM	FSC	NAND GATE	109- 58
91♦	54H30	DM54H30J	NSC	NAND GATE	109- 61
92♦	54H30	S54H30F	MULB	NAND GATE	109- 36
93♦	54H30	S54H30F	PHIN	NAND GATE	109- 36
94♦	54H30	S54H30F	VALG	NAND GATE	109- 36
95♦	54H30	*S54H30W	MULB	NAND GATE	109- 37
96♦	54H30	*S54H30W	PHIN	NAND GATE	109- 37
97♦	54H30	*S54H30W	VALG	NAND GATE	109- 37
98♦	54H40	DM54H40J	NSC	NAND GATE	106- 64
99♦	54H50	54H50DM	FSC	AND-OR-INV	85- 67
100♦	54H50	*54H50FM	FSC	AND-OR-INV	85- 68
101♦	54H50	DM54H50J	NSC	AND-OR-INV	85- 91
102♦	54H50	S54H50F	MULB	AND-OR-INV	86- 38
103♦	54H50	S54H50F	PHIN	AND-OR-INV	86- 38
104♦	54H50	S54H50F	VALG	AND-OR-INV	86- 38
105♦	54H50	*S54H50W	MULB	AND-OR-INV	86- 39
106♦	54H50	*S54H50W	PHIN	AND-OR-INV	86- 39
107♦	54H50	*S54H50W	VALG	AND-OR-INV	86- 39
108♦	54H51	54H51DM	FSC	AND-OR-INV	85- 69
109♦	54H51	*54H51FM	FSC	AND-OR-INV	85- 70
110♦	54H51	S54H51F	MULB	AND-OR-INV	86- 40
111♦	54H51	S54H51F	PHIN	AND-OR-INV	86- 40
112♦	54H51	S54H51F	VALG	AND-OR-INV	86- 40
113♦	54H51	*S54H51W	MULB	AND-OR-INV	86- 41
114♦	54H51	*S54H51W	PHIN	AND-OR-INV	86- 41
115♦	54H51	*S54H51W	VALG	AND-OR-INV	86- 41
116♦	54H52	54H52DM	FSC	AND-OR GTE	84- 89
117♦	54H52	*54H52FM	FSC	AND-OR GTE	84- 90
118♦	54H52	S54H52F	MULB	AND-OR GTE	84- 91
119♦	54H52	S54H52F	PHIN	AND-OR GTE	84- 91
120♦	54H52	S54H52F	VALG	AND-OR GTE	84- 91
121♦	54H52	*S54H52W	MULB	AND-OR GTE	84- 92
122♦	54H52	*S54H52W	PHIN	AND-OR GTE	84- 92
123♦	54H52	*S54H52W	VALG	AND-OR GTE	84- 92
124♦	54H53	54H53DM	FSC	AND-OR-INV	87- 69
125♦	54H53	*54H53FM	FSC	AND-OR-INV	87- 33
126♦	54H53	S54H53F	MULB	AND-OR-INV	87- 68
127♦	54H53	S54H53F	PHIN	AND-OR-INV	87- 68
128♦	54H53	S54H53F	VALG	AND-OR-INV	87- 68
129♦	54H53	*S54H53W	MULB	AND-OR-INV	87- 55
130♦	54H53	*S54H53W	PHIN	AND-OR-INV	87- 55
131♦	54H53	*S54H53W	VALG	AND-OR-INV	87- 55
132♦	54H54	54H54DM	FSC	AND-OR-INV	87- 34
133♦	54H54	*S54H54FM	FSC	AND-OR-INV	87- 35
134♦	54H54	S54H54F	MULB	AND-OR-INV	87- 56
135♦	54H54	S54H54F	PHIN	AND-OR-INV	87- 56
136♦	54H54	S54H54F	VALG	AND-OR-INV	87- 56
137♦	54H54	*S54H54W	MULB	AND-OR-INV	87- 57
138♦	54H54	*S54H54W	PHIN	AND-OR-INV	87- 57
139♦	54H54	*S54H54W	VALG	AND-OR-INV	87- 57
140♦	54H55	*S54H55FM	FSC	AND-OR-INV	89- 17
141♦	54H55	S54H55F	MULB	AND-OR-INV	89- 56
142♦	54H55	S54H55F	PHIN	AND-OR-INV	89- 56
143♦	54H55	S54H55F	VALG	AND-OR-INV	89- 56
144♦	54H55	*S54H55W	MULB	AND-OR-INV	89- 57
145♦	54H55	*S54H55W	PHIN	AND-OR-INV	89- 57
146♦	54H55	*S54H55W	VALG	AND-OR-INV	89- 57
147♦	54H60	*S54H60FM	FSC	AND GATE	81- 35
148♦	54H60	S54H60F	MULB	AND GATE	81- 75
149♦	54H60	S54H60F	PHIN	AND GATE	81- 75
150♦	54H60	S54H60F	VALG	AND GATE	81- 75
151♦	54H60	*S54H60W	MULB	AND GATE	81- 76
152♦	54H60	*S54H60W	PHIN	AND GATE	81- 76
153♦	54H60	*S54H60W	VALG	AND GATE	81- 76
154♦	54H61	54H61DM	FSC	AND GATE	79- 25
155♦	54H61	*54H61FM	FSC	AND GATE	79- 26
156♦	54H61	S54H61F	MULB	AND GATE	79-109
157♦	54H61	S54H61F	PHIN	AND GATE	79-109
158♦	54H61	S54H61F	VALG	AND GATE	79-109
159♦	54H61	*S54H61W	MULB	AND GATE	79-110
160♦	54H61	*S54H61W	PHIN	AND GATE	79-110
161♦	54H61	*S54H61W	VALG	AND GATE	79-110
162♦	54H62	*54H62FM	FSC	AND-OR GTE	84- 93
163♦	54H62	DM54H62J	NSC	AND-OR GTE	84- 94
164♦	54H62	S54H62F	MULB	AND-OR GTE	84- 95
165♦	54H62	S54H62F	PHIN	AND-OR GTE	84- 95
166♦	54H62	S54H62F	VALG	AND-OR GTE	84- 95
167♦	54H62	*S54H62W	MULB	AND-OR GTE	84- 96
168♦	54H62	*S54H62W	PHIN	AND-OR GTE	84- 96
169♦	54H62	*S54H62W	VALG	AND-OR GTE	84- 96
170	54H71	*54H71FM	FSC	JK FL-FLOP	65-100
171♦	54H71	S54H71F	MULB	JK FL-FLOP	65- 81
172♦	54H71	S54H71F	PHIN	JK FL-FLOP	65- 81
173♦	54H71	S54H71F	VALG	JK FL-FLOP	65- 81
174	54H71	*S54H71W	MULB	JK FL-FLOP	65- 82
175	54H71	*S54H71W	PHIN	JK FL-FLOP	65- 82
176	54H71	*S54H71W	VALG	JK FL-FLOP	65- 82
177♦	54H72	54H72DM	FSC	JK FL-FLOP	65-101
178♦	54H72	*54H72FM	FSC	JK FL-FLOP	65-102
179♦	54H72	S54H72F	MULB	JK FL-FLOP	65- 83
180♦	54H72	S54H72F	PHIN	JK FL-FLOP	65- 83
181♦	54H72	S54H72F	VALG	JK FL-FLOP	65- 83
182♦	54H72	*S54H72W	MULB	JK FL-FLOP	65- 84
183♦	54H72	*S54H72W	PHIN	JK FL-FLOP	65- 84
184♦	54H72	*S54H72W	VALG	JK FL-FLOP	65- 84
185♦	54H73	54H73DM	FSC	JK FL-FLOP	70- 16
186	54H73	*54H73FM	FSC	JK FL-FLOP	70- 17
187♦	54H73	S54H73F	MULB	JK FL-FLOP	69- 82
188♦	54H73	S54H73F	PHIN	JK FL-FLOP	69- 82
189♦	54H73	S54H73F	VALG	JK FL-FLOP	69- 82
190	54H73	*S54H73W	MULB	JK FL-FLOP	69- 83
191	54H73	*S54H73W	PHIN	JK FL-FLOP	69- 83
192	54H73	*S54H73W	VALG	JK FL-FLOP	69- 83
193♦	54H74	54H74DM	FSC	D FL-FLOP	52- 21
194	54H74	*54H74FM	FSC	D FL-FLOP	52- 22
195♦	54H74	DM54H74J	NSC	D FL-FLOP	50- 49
196♦	54H74	S54H74F	MULB	D FL-FLOP	52- 30
197♦	54H74	S54H74F	PHIN	D FL-FLOP	52- 30
198♦	54H74	S54H74F	VALG	D FL-FLOP	52- 30
199	54H74	*S54H74W	MULB	D FL-FLOP	52- 31
200	54H74	*S54H74W	PHIN	D FL-FLOP	52- 31
201	54H74	*S54H74W	VALG	D FL-FLOP	52- 31
202	54H76	*54H76FM	FSC	JK FL-FLOP	70- 18
203♦	54H76	S54H76F	MULB	JK FL-FLOP	69- 84
204♦	54H76	S54H76F	PHIN	JK FL-FLOP	69- 84
205♦	54H76	S54H76F	VALG	JK FL-FLOP	69- 84
206	54H76	*S54H76W	MULB	JK FL-FLOP	69- 85
207	54H76	*S54H76W	PHIN	JK FL-FLOP	69- 85
208	54H76	*S54H76W	VALG	JK FL-FLOP	69- 85
209	54H78	*54H78FM	FSC	JK FL-FLOP	70- 19
210♦	54H87	54H87DM	FSC	SPECIAL	245- 75
211	54H87	*54H87FM	FSC	SPECIAL	245- 76
212	54H101	*54H101FM	FSC	JK FL-FLOP	66- 35
213♦	54H101	S54H101F	MULB	JK FL-FLOP	66- 31
214♦	54H101	S54H101F	PHIN	JK FL-FLOP	66- 31
215♦	54H101	S54H101F	VALG	JK FL-FLOP	66- 31
216	54H101	*S54H101W	MULB	JK FL-FLOP	66- 32
217	54H101	*S54H101W	PHIN	JK FL-FLOP	66- 32
218	54H101	*S54H101W	VALG	JK FL-FLOP	66- 32
219♦	54H102	*54H102FM	FSC	JK FL-FLOP	66- 36
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3♦	54H102	*S54H102W	MULB	JK FL-FLOP	66- 34
4♦	54H102	*S54H102W	PHIN	JK FL-FLOP	66- 34
5♦	54H102	*S54H102W	VALG	JK FL-FLOP	66- 34
6♦	54H103	54H103DM	FSC	JK FL-FLOP	72- 70
7	54H103	*54H103FM	FSC	JK FL-FLOP	72- 71
8♦	54H103	S54H103F	MULB	JK FL-FLOP	71- 83
9♦	54H103	S54H103F	PHIN	JK FL-FLOP	71- 83
10♦	54H103	S54H103F	VALG	JK FL-FLOP	71- 83
11	54H103	*S54H103W	MULB	JK FL-FLOP	71- 84
12	54H103	*S54H103W	PHIN	JK FL-FLOP	71- 84
13	54H103	*S54H103W	VALG	JK FL-FLOP	71- 84
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16♦	54H106	S54H106F	MULB	JK FL-FLOP	71- 85
17♦	54H106	S54H106F	PHIN	JK FL-FLOP	71- 85
18♦	54H106	S54H106F	VALG	JK FL-FLOP	71- 85
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20	54H106	*S54H106W	PHIN	JK FL-FLOP	71- 86
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25♦	54H108	S54H108F	PHIN	JK FL-FLOP	71- 87
26♦	54H108	S54H108F	VALG	JK FL-FLOP	71- 87
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31♦	54HC00	M54HC00F1(A)	SGSI	NAND GATE	96- 36
32♦	54HC00	MC54HC00J	MOTA	NAND GATE	96- 68
33♦	54HC00	MM54HC00J(A)	NSC	NAND GATE	96- 87
34♦	54HC00	PC54HC00D(A)	MULB	NAND GATE	97- 12
35♦	54HC00	PC54HC00D(A)	PHIN	NAND GATE	97- 12
36♦	54HC00	PC54HC00D(A)	RTCF	NAND GATE	97- 12
37♦	54HC00	PC54HC00D(A)	VALG	NAND GATE	97- 12
38♦	54HC00	SN54HC00J	TII	NAND GATE	99- 34
39♦	54HC02	CD54HC02F	RCA	NOR GATE	113-104
40♦	54HC02	M54HC02F1(A)	SGSI	NOR GATE	112- 72
41♦	54HC02	MC54HC02J	MOTA	NOR GATE	112- 85
42♦	54HC02	PC54HC02D(A)	MULB	NOR GATE	112- 98
43♦	54HC02	PC54HC02D(A)	PHIN	NOR GATE	112- 98
44♦	54HC02	PC54HC02D(A)	RTCF	NOR GATE	112- 98
45♦	54HC02	PC54HC02D(A)	VALG	NOR GATE	112- 98
46♦	54HC02	SN54HC02J	TII	NOR GATE	114- 9
47♦	54HC03	CD54HC03F(A)	RCA	NAND GATE	99- 29
48♦	54HC03	M54HC03F1(A)	SGSI	NAND GATE	96- 37
49♦	54HC03	MC54HC03J(A)	MOTA	NAND GATE	96- 69
50♦	54HC03	PC54HC03D(A)	MULB	NAND GATE	97- 13
51♦	54HC03	PC54HC03D(A)	PHIN	NAND GATE	97- 13
52♦	54HC03	PC54HC03D(A)	RTCF	NAND GATE	97- 13
53♦	54HC03	PC54HC03D(A)	VALG	NAND GATE	97- 13
54▼	54HC03	SN54HC03J	TII	NAND GATE	99- 83
55♦	54HC08	CD54HC08F	RCA	AND GATE	77- 93
56♦	54HC08	M54HC08F1(A)	SGSI	AND GATE	76- 37
57♦	54HC08	MC54HC08BCAJ(A)	MOTA	AND GATE	76- 49
58♦	54HC08	MC54HC08BCAN(A)	MOTA	AND GATE	76- 50
59♦	54HC08	MC54HC08J(A)	MOTA	AND GATE	76- 51
60♦	54HC08	PC54HC08D(A)	MULB	AND GATE	76- 81
61♦	54HC08	PC54HC08D(A)	PHIN	AND GATE	76- 81
62♦	54HC08	PC54HC08D(A)	RTCF	AND GATE	76- 81
63♦	54HC08	PC54HC08D(A)	VALG	AND GATE	76- 81
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68♦	54HC10	MC54HC10J(A)	MOTA	NAND GATE	101- 73
69♦	54HC10	MM54HC10J(A)	NSC	NAND GATE	101- 85
70♦	54HC10	PC54HC10D(A)	MULB	NAND GATE	102- 64
71♦	54HC10	PC54HC10D(A)	PHIN	NAND GATE	102- 64
72♦	54HC10	PC54HC10D(A)	RTCF	NAND GATE	102- 64
73♦	54HC10	PC54HC10D(A)	VALG	NAND GATE	102- 64
74♦	54HC10	SN54HC10J	TII	NAND GATE	103- 20
75♦	54HC11	CD54HC11F	RCA	AND GATE	80- 74
76♦	54HC11	M54HC11F1(A)	SGSI	AND GATE	79- 70
77♦	54HC11	MC54HC11J(A)	MOTA	AND GATE	79- 84
78♦	54HC11	PC54HC11D(A)	MULB	AND GATE	79-103
79♦	54HC11	PC54HC11D(A)	PHIN	AND GATE	79-103
80♦	54HC11	PC54HC11D(A)	RTCF	AND GATE	79-103
81♦	54HC11	PC54HC11D(A)	VALG	AND GATE	79-103
82♦	54HC11	SN54HC11J	TII	AND GATE	80- 82
83♦	54HC20	CD54HC20F	RCA	NAND GATE	107- 25
84♦	54HC20	M54HC20F1(A)	SGSI	NAND GATE	104-101
85♦	54HC20	MC54HC20J(A)	MOTA	NAND GATE	107- 27
86♦	54HC20	MM54HC20J(A)	NSC	NAND GATE	106- 24
87♦	54HC20	PC54HC20D(A)	MULB	NAND GATE	105- 26
88♦	54HC20	PC54HC20D(A)	PHIN	NAND GATE	105- 26
89♦	54HC20	PC54HC20D(A)	RTCF	NAND GATE	105- 26
90♦	54HC20	PC54HC20D(A)	VALG	NAND GATE	105- 26
91♦	54HC20	SN54HC20J	TII	NAND GATE	107- 38
92♦	54HC21	CD54HC21F	RCA	AND GATE	82- 97
93♦	54HC21	M54HC21F1(A)	SGSI	AND GATE	81- 57
94♦	54HC21	PC54HC21D(A)	MULB	AND GATE	82- 4
95♦	54HC21	PC54HC21D(A)	PHIN	AND GATE	82- 4
96♦	54HC21	PC54HC21D(A)	RTCF	AND GATE	82- 4
97♦	54HC21	PC54HC21D(A)	VALG	AND GATE	82- 4
98♦	54HC21	SN54HC21J	TII	AND GATE	82-105
99♦	54HC27	CD54HC27F	RCA	NOR GATE	116- 38
100♦	54HC27	M54HC27F1(A)	SGSI	NOR GATE	115- 76
101♦	54HC27	MC54HC27J(A)	MOTA	NOR GATE	115- 85
102♦	54HC27	PC54HC27D(A)	MULB	NOR GATE	115- 95
103♦	54HC27	PC54HC27D(A)	PHIN	NOR GATE	115- 95
104♦	54HC27	PC54HC27D(A)	RTCF	NOR GATE	115- 95
105♦	54HC27	PC54HC27D(A)	VALG	NOR GATE	115- 95
106♦	54HC27	SN54HC27J	TII	NOR GATE	116- 44
107♦	54HC30	CD54HC30F(A)	RCA	NAND GATE	110- 45
108♦	54HC30	M54HC30F1(A)	SGSI	NAND GATE	109-104
109♦	54HC30	MC54HC30J(A)	MOTA	NAND GATE	109- 3
110♦	54HC30	MM54HC30J(A)	NSC	NAND GATE	109- 90
111♦	54HC30	PC54HC30D(A)	MULB	NAND GATE	109- 51
112♦	54HC30	PC54HC30D(A)	PHIN	NAND GATE	109- 51
113♦	54HC30	PC54HC30D(A)	RTCF	NAND GATE	109- 51
114♦	54HC30	PC54HC30D(A)	VALG	NAND GATE	109- 51
115♦	54HC30	SN54HC30J	TII	NAND GATE	110- 53
116♦	54HC32	CD54HC32F	RCA	OR GATE	121- 75
117♦	54HC32	M54HC32F1(A)	SGSI	OR GATE	120- 32
118♦	54HC32	MC54HC32J	MOTA	OR GATE	120- 44
119♦	54HC32	MM54HC32J	NSC	OR GATE	120- 61
120♦	54HC32	PC54HC32D(A)	MULB	OR GATE	120- 69
121♦	54HC32	PC54HC32D(A)	PHIN	OR GATE	120- 69
122♦	54HC32	PC54HC32D(A)	RTCF	OR GATE	120- 69
123♦	54HC32	PC54HC32D(A)	VALG	OR GATE	120- 69
124♦	54HC32	SN54HC32J	TII	OR GATE	121- 87
125♦	54HC36	SN54HC36J	TII	NOR GATE	114- 18
126	54HC42	CD54HC42F	RCA	DECODER	126- 55
127♦	54HC42	M54HC42F1(A)	SGSI	DECODER	127- 2
128♦	54HC42	MM54HC42J	NSC	DECODER	127- 32
129♦	54HC42	PC54HC42D(A)	MULB	DECODER	127- 51
130♦	54HC42	PC54HC42D(A)	PHIN	DECODER	127- 51
131♦	54HC42	PC54HC42D(A)	RTCF	DECODER	127- 51
132♦	54HC42	PC54HC42D(A)	VALG	DECODER	127- 51
133♦	54HC51	M54HC51F1(A)	SGSI	AND-OR-INV	88- 67
134♦	54HC51	MC54HC51J(A)	MOTA	AND-OR-INV	88- 70
135♦	54HC51	MM54HC51J(A)	NSC	AND-OR-INV	88- 73
136♦	54HC51	SN54HC51J	TII	AND-OR-INV	88- 63
137♦	54HC58	MC54HC58J(A)	MOTA	AND-OR GTE	84-110
138♦	54HC58	MM54HC58J(A)	NSC	AND-OR GTE	84-109
139♦	54HC73	CD54HC73F	RCA	JK FL-FLOP	73- 24
140♦	54HC73	M54HC73F1(A)	SGSI	JK FL-FLOP	73- 55
141♦	54HC73	MC54HC73J(A)	MOTA	JK FL-FLOP	70- 64
142♦	54HC73	MM54HC73J	NSC	JK FL-FLOP	68- 99
143♦	54HC73	PC54HC73D(A)	MULB	JK FL-FLOP	68- 36
144♦	54HC73	PC54HC73D(A)	PHIN	JK FL-FLOP	68- 36
145♦	54HC73	PC54HC73D(A)	RTCF	JK FL-FLOP	68- 36
146♦	54HC73	PC54HC73D(A)	VALG	JK FL-FLOP	68- 36
147♦	54HC74	CD54HC74F	RCA	D FL-FLOP	52- 50
148♦	54HC74	M54HC74F1(A)	SGSI	D FL-FLOP	52- 38
149♦	54HC74	MC54HC74J(A)	MOTA	D FL-FLOP	51-101
150♦	54HC74	MM54HC74J	NSC	D FL-FLOP	51- 40
151♦	54HC74	PC54HC74D(A)	MULB	D FL-FLOP	51- 35
152♦	54HC74	PC54HC74D(A)	PHIN	D FL-FLOP	51- 35
153♦	54HC74	PC54HC74D(A)	RTCF	D FL-FLOP	51- 35
154♦	54HC74	PC54HC74D(A)	VALG	D FL-FLOP	51- 35
155♦	54HC74	SN54HC74J	TII	D FL-FLOP	51- 43
156♦	54HC75	CD54HC75F(A)	RCA	2-BIT LCH	229- 85
157♦	54HC75	M54HC75F1(A)	SGSI	4-BIT LCH	231- 13
158♦	54HC75	MC54HC75J(A)	MOTA	2-BIT LCH	229- 70
159♦	54HC75	MM54HC75J	NSC	4-BIT LCH	231-104
160♦	54HC75	PC54HC75D(A)	MULB	4-BIT LCH	231-103
161♦	54HC75	PC54HC75D(A)	PHIN	4-BIT LCH	231-103
162♦	54HC75	PC54HC75D(A)	RTCF	4-BIT LCH	231-103
163♦	54HC75	PC54HC75D(A)	VALG	4-BIT LCH	231-103
164♦	54HC76	M54HC76F1(A)	SGSI	JK FL-FLOP	73- 18
165♦	54HC76	MC54HC76J(A)	MOTA	JK FL-FLOP	70- 65
166♦	54HC76	MM54HC76J	NSC	JK FL-FLOP	68- 56
167♦	54HC77	M54HC77F1(A)	SGSI	4-BIT LCH	231- 14
168♦	54HC85	CD54HC85F	RCA	MAGN COMP	217- 27
169♦	54HC85	M54HC85F1(A)	SGSI	MAGN COMP	217- 19
170♦	54HC85	MC54HC85J(A)	MOTA	MAGN COMP	216- 75
171♦	54HC85	MM54HC85J	NSC	MAGN COMP	217- 28
172♦	54HC85	PC54HC85D(A)	MULB	MAGN COMP	217- 43
173♦	54HC85	PC54HC85D(A)	PHIN	MAGN COMP	217- 43
174♦	54HC85	PC54HC85D(A)	RTCF	MAGN COMP	217- 43
175♦	54HC85	PC54HC85D(A)	VALG	MAGN COMP	217- 43
176♦	54HC86	CD54HC86F	RCA	EX-OR GATE	91- 62
177♦	54HC86	M54HC86F1(A)	SGSI	EX-OR GATE	92- 14
178♦	54HC86	MC54HC86J	MOTA	EX-OR GATE	92- 29
179♦	54HC86	MM54HC86J	NSC	EX-OR GATE	92- 46
180♦	54HC86	PC54HC86D(A)	MULB	EX-OR GATE	92- 66
181♦	54HC86	PC54HC86D(A)	PHIN	EX-OR GATE	92- 66
182♦	54HC86	PC54HC86D(A)	RTCF	EX-OR GATE	92- 66
183♦	54HC86	PC54HC86D(A)	VALG	EX-OR GATE	92- 66
184♦	54HC86	SN54HC86J	TII	EX-OR GATE	93-106
185♦	54HC93	CD54HC93F(A)	RCA	HEX CNTR	154- 17
186♦	54HC93	PC54HC93D(A)	MULB	HEX CNTR	158- 62
187♦	54HC93	PC54HC93D(A)	PHIN	HEX CNTR	158- 62
188♦	54HC93	PC54HC93D(A)	RTCF	HEX CNTR	158- 62
189♦	54HC93	PC54HC93D(A)	VALG	HEX CNTR	158- 62
190♦	54HC107	CD54HC107F	RCA	JK FL-FLOP	73- 25
191♦	54HC107	M54HC107F1(A)	SGSI	JK FL-FLOP	72- 88
192♦	54HC107	MC54HC107J(A)	MOTA	JK FL-FLOP	70- 66
193♦	54HC107	MM54HC107J	NSC	JK FL-FLOP	68- 57
194♦	54HC107	PC54HC107D(A)	MULB	JK FL-FLOP	68- 28
195♦	54HC107	PC54HC107D(A)	PHIN	JK FL-FLOP	68- 28
196♦	54HC107	PC54HC107D(A)	RTCF	JK FL-FLOP	68- 28
197♦	54HC107	PC54HC107D(A)	VALG	JK FL-FLOP	68- 28
198♦	54HC107	SN54HC107J	TII	JK FL-FLOP	68-100
199	54HC109	CD54HC109F	RCA	JK FL-FLOP	73- 26
200♦	54HC109	M54HC109F1(A)	SGSI	JK FL-FLOP	73- 19
201♦	54HC109	MC54HC109J(A)	MOTA	JK FL-FLOP	70- 67
202♦	54HC109	MM54HC109J	NSC	JK FL-FLOP	68- 58
203♦	54HC109	PC54HC109D(A)	MULB	JK FL-FLOP	68- 61
204♦	54HC109	PC54HC109D(A)	PHIN	JK FL-FLOP	68- 61
205♦	54HC109	PC54HC109D(A)	RTCF	JK FL-FLOP	68- 61
206♦	54HC109	PC54HC109D(A)	VALG	JK FL-FLOP	68- 61
207♦	54HC109	SN54HC109J	TII	JK FL-FLOP	68-101
208♦	54HC112	CD54HC112F	RCA	JK FL-FLOP	73- 27
209♦	54HC112	M54HC112F1(A)	SGSI	JK FL-FLOP	73- 23
210♦	54HC112	MC54HC112J(A)	MOTA	JK FL-FLOP	70- 68
211♦	54HC112	MM54HC112J	NSC	JK FL-FLOP	68- 59
212♦	54HC112	PC54HC112D(A)	MULB	JK FL-FLOP	73- 47
213♦	54HC112	PC54HC112D(A)	PHIN	JK FL-FLOP	73- 47
214♦	54HC112	PC54HC112D(A)	RTCF	JK FL-FLOP	73- 47
215♦	54HC112	PC54HC112D(A)	VALG	JK FL-FLOP	73- 47
216♦	54HC112	SN54HC112J	TII	JK FL-FLOP	68- 31
217♦	54HC113	M54HC113F1(A)	SGSI	JK FL-FLOP	73- 20
218♦	54HC113	MC54HC113J	MOTA	JK FL-FLOP	70- 69
219♦	54HC113	MM54HC113J	NSC	JK FL-FLOP	68- 60
220♦	54HC113	SN54HC113J	TII	JK FL-FLOP	68-102

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

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3▼	54HC123	M54HC123F1	SGSI	CLOCK/MV	190- 27
4♦	54HC123	MM54HC123J	NSC	CLOCK/MV	190- 87
5♦	54HC123	PC54HC123D(A)	MULB	CLOCK/MV	191- 4
6♦	54HC123	PC54HC123D(A)	PHIN	CLOCK/MV	191- 4
7♦	54HC123	PC54HC123D(A)	RTCF	CLOCK/MV	191- 4
8♦	54HC123	PC54HC123D(A)	VALG	CLOCK/MV	191- 4
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10♦	54HC133	MC54HC133J	MOTA	NAND GATE	111- 47
11♦	54HC133	MM54HC133J(A)	NSC	NAND GATE	111- 67
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13♦	54HC138	MC54HC138J(2A)	MOTA	DECODER	125- 26
14♦	54HC160	CD54HC160F	RCA	DEC CNTR	173- 99
15♦	54HC160	M54HC160F1(A)	SGSI	DEC CNTR	176- 1
16♦	54HC160	MC54HC160J(A)	MOTA	DEC CNTR	174- 87
17♦	54HC160	MM54HC160J	NSC	DEC CNTR	174- 23
18♦	54HC160	PC54HC160D(A)	MULB	DEC CNTR	175- 60
19♦	54HC160	PC54HC160D(A)	PHIN	DEC CNTR	175- 60
20♦	54HC160	PC54HC160D(A)	RTCF	DEC CNTR	175- 60
21♦	54HC160	PC54HC160D(A)	VALG	DEC CNTR	175- 60
22♦	54HC161	CD54HC161F	RCA	HEX CNTR	155- 94
23♦	54HC161	M54HC161F1(A)	SGSI	HEX CNTR	158- 39
24♦	54HC161	MC54HC161J(A)	MOTA	HEX CNTR	157- 10
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26♦	54HC161	PC54HC161D(A)	MULB	HEX CNTR	157- 92
27♦	54HC161	PC54HC161D(A)	PHIN	HEX CNTR	157- 92
28♦	54HC161	PC54HC161D(A)	RTCF	HEX CNTR	157- 92
29♦	54HC161	PC54HC161D(A)	VALG	HEX CNTR	157- 92
30♦	54HC161	SN54HC161J	TII	HEX CNTR	156- 53
31♦	54HC162	CD54HC162F	RCA	DEC CNTR	173-100
32♦	54HC162	M54HC162F1(A)	SGSI	DEC CNTR	176- 2
33♦	54HC162	MC54HC162J(A)	MOTA	DEC CNTR	174- 88
34♦	54HC162	MM54HC162J	NSC	DEC CNTR	174- 24
35♦	54HC162	PC54HC162D(A)	MULB	DEC CNTR	175- 61
36♦	54HC162	PC54HC162D(A)	PHIN	DEC CNTR	175- 61
37♦	54HC162	PC54HC162D(A)	RTCF	DEC CNTR	175- 61
38♦	54HC162	PC54HC162D(A)	VALG	DEC CNTR	175- 61
39♦	54HC163	CD54HC163F	RCA	HEX CNTR	155- 95
40♦	54HC163	M54HC163F1(A)	SGSI	HEX CNTR	158- 40
41♦	54HC163	MC54HC163J(A)	MOTA	HEX CNTR	157- 11
42♦	54HC163	MM54HC163J	NSC	HEX CNTR	156- 52
43♦	54HC163	PC54HC163D(A)	MULB	HEX CNTR	157- 93
44♦	54HC163	PC54HC163D(A)	PHIN	HEX CNTR	157- 93
45♦	54HC163	PC54HC163D(A)	RTCF	HEX CNTR	157- 93
46♦	54HC163	PC54HC163D(A)	VALG	HEX CNTR	157- 93
47♦	54HC173	CD54HC173F	RCA	D FL-FLOP	55- 57
48♦	54HC173	MC54HC173J	MOTA	D FL-FLOP	54-110
49♦	54HC173	MM54HC173J	NSC	D FL-FLOP	54- 48
50♦	54HC173	PC54HC173D(A)	MULB	D FL-FLOP	55- 53
51♦	54HC173	PC54HC173D(A)	PHIN	D FL-FLOP	55- 53
52♦	54HC173	PC54HC173D(A)	RTCF	D FL-FLOP	55- 53
53♦	54HC173	PC54HC173D(A)	VALG	D FL-FLOP	55- 53
54♦	54HC174	CD54HC174F	RCA	D FL-FLOP	56- 38
55♦	54HC174	M54HC174F1(A)	SGSI	D FL-FLOP	57- 5
56♦	54HC174	MC54HC174J(A)	MOTA	D FL-FLOP	56- 72
57♦	54HC174	MM54HC174J	NSC	D FL-FLOP	56- 26
58♦	54HC174	PC54HC174D(A)	MULB	D FL-FLOP	57- 10
59♦	54HC174	PC54HC174D(A)	PHIN	D FL-FLOP	57- 10
60♦	54HC174	PC54HC174D(A)	RTCF	D FL-FLOP	57- 10
61♦	54HC174	PC54HC174D(A)	VALG	D FL-FLOP	57- 10
62♦	54HC174	SN54HC174J	TII	D FL-FLOP	56- 35
63♦	54HC175	CD54HC175F	RCA	D FL-FLOP	54- 50
64♦	54HC175	M54HC175F1(A)	SGSI	D FL-FLOP	55- 68
65♦	54HC175	MC54HC175J(A)	MOTA	D FL-FLOP	54- 63
66♦	54HC175	MM54HC175J	NSC	D FL-FLOP	54- 54
67♦	54HC175	PC54HC175D(A)	MULB	D FL-FLOP	54- 41
68♦	54HC175	PC54HC175D(A)	PHIN	D FL-FLOP	54- 41
69♦	54HC175	PC54HC175D(A)	RTCF	D FL-FLOP	54- 41
70♦	54HC175	PC54HC175D(A)	VALG	D FL-FLOP	54- 41
71♦	54HC175	SN54HC175J	TII	D FL-FLOP	54- 49
72▼	54HC180	SN54HC180J	TII	PARITY GEN	227- 62
73	54HC181	CD54HC181F(A)	RCA	4-BIT ALU	221- 12
74▼	54HC181	M54HC181F1	SGSI	4-BIT ALU	220- 17
75♦	54HC181	MC54HC181J(A)	MOTA	4-BIT ALU	220- 24
76♦	54HC181	MM54HC181J(A)	NSC	4-BIT ALU	222- 85
77♦	54HC181	PC54HC181D(A)	MULB	4-BIT ALU	222- 7
78♦	54HC181	PC54HC181D(A)	PHIN	4-BIT ALU	222- 7
79♦	54HC181	PC54HC181D(A)	RTCF	4-BIT ALU	222- 7
80♦	54HC181	PC54HC181D(A)	VALG	4-BIT ALU	222- 7
81	54HC182	CD54HC182F(A)	RCA	PARITY GEN	225- 23
82▼	54HC182	M54HC182F1	SGSI	PARITY GEN	224- 6
83♦	54HC182	MC54HC182J(A)	MOTA	PARITY GEN	224- 10
84♦	54HC182	MM54HC182J(A)	NSC	PARITY GEN	225- 55
85♦	54HC182	PC54HC182D(A)	MULB	PARITY GEN	225- 43
86♦	54HC182	PC54HC182D(A)	PHIN	PARITY GEN	225- 43
87♦	54HC182	PC54HC182D(A)	RTCF	PARITY GEN	225- 43
88♦	54HC182	PC54HC182D(A)	VALG	PARITY GEN	225- 43
89♦	54HC190	CD54HC190F	RCA	DEC CNTR	178- 14
90▼	54HC190	M54HC190F1	SGSI	DEC CNTR	177- 22
91♦	54HC190	MC54HC190J(A)	MOTA	DEC CNTR	177- 39
92♦	54HC190	MM54HC190J(A)	NSC	DEC CNTR	178- 28
93♦	54HC190	PC54HC190D	MULB	DEC CNTR	180- 7
94♦	54HC190	SN54HC190J	TII	DEC CNTR	178- 26
95♦	54HC191	CD54HC191F	RCA	HEX CNTR	160- 95
96▼	54HC191	M54HC191F1	SGSI	HEX CNTR	159- 67
97♦	54HC191	MC54HC191J(A)	MOTA	HEX CNTR	159- 85
98♦	54HC191	MM54HC191J(A)	NSC	HEX CNTR	161- 26
99♦	54HC191	PC54HC191D(A)	MULB	HEX CNTR	163- 28
100♦	54HC191	PC54HC191D(A)	PHIN	HEX CNTR	163- 28
101♦	54HC191	PC54HC191D(A)	RTCF	HEX CNTR	163- 28
102♦	54HC191	PC54HC191D(A)	VALG	HEX CNTR	163- 28
103♦	54HC191	SN54HC191J	TII	HEX CNTR	161- 24
104♦	54HC192	CD54HC192F	RCA	DEC CNTR	178- 15
105▼	54HC192	M54HC192F1	SGSI	DEC CNTR	177- 23
106♦	54HC192	MC54HC192J(A)	MOTA	DEC CNTR	177- 40
107♦	54HC192	MM54HC192J	NSC	DEC CNTR	178- 20
108♦	54HC192	PC54HC192D(A)	MULB	DEC CNTR	180- 8
109♦	54HC192	PC54HC192D(A)	PHIN	DEC CNTR	180- 8
110♦	54HC192	PC54HC192D(A)	RTCF	DEC CNTR	180- 8
111♦	54HC192	PC54HC192D(A)	VALG	DEC CNTR	180- 8
112♦	54HC192	SN54HC192J	TII	DEC CNTR	178- 27
113♦	54HC193	CD54HC193F	RCA	HEX CNTR	160- 96
114▼	54HC193	M54HC193F1	SGSI	HEX CNTR	159- 68
115♦	54HC193	MC54HC193J	MOTA	HEX CNTR	159- 86
116♦	54HC193	MM54HC193J	NSC	HEX CNTR	161- 11
117♦	54HC193	PC54HC193D(A)	MULB	HEX CNTR	163- 29
118♦	54HC193	PC54HC193D(A)	PHIN	HEX CNTR	163- 29
119♦	54HC193	PC54HC193D(A)	RTCF	HEX CNTR	163- 29
120♦	54HC193	PC54HC193D(A)	VALG	HEX CNTR	163- 29
121♦	54HC193	SN54HC193J	TII	HEX CNTR	161- 25
122	54HC221	CD54HC221F	RCA	CLOCK/MV	189- 67
123▼	54HC221	M54HC221F1	SGSI	CLOCK/MV	190- 28
124♦	54HC221	MC54HC221J(A)	MOTA	CLOCK/MV	188- 74
125♦	54HC221	MM54HC221J	NSC	CLOCK/MV	190- 88
126♦	54HC221	PC54HC221D(A)	MULB	CLOCK/MV	191- 5
127♦	54HC221	PC54HC221D(A)	PHIN	CLOCK/MV	191- 5
128♦	54HC221	PC54HC221D(A)	RTCF	CLOCK/MV	191- 5
129♦	54HC221	PC54HC221D(A)	VALG	CLOCK/MV	191- 5
130♦	54HC259	CD54HC259F	RCA	8-BIT LCH	240- 18
131♦	54HC259	M54HC259F1(A)	SGSI	8-BIT LCH	237-100
132♦	54HC259	MC54HC259J(A)	MOTA	8-BIT LCH	233- 62
133♦	54HC259	PC54HC259D(A)	PHIN	8-BIT LCH	240- 70
134♦	54HC259	PC54HC259D(A)	RTCF	8-BIT LCH	240- 70
135♦	54HC259	PC54HC259D(A)	VALG	8-BIT LCH	240- 70
136♦	54HC266	M54HC266F1(A)	SGSI	EXNOR GATE	90- 20
137♦	54HC266	MC54HC266J	MOTA	EXNOR GATE	90- 89
138♦	54HC266	MM54HC266J	NSC	EXNOR GATE	90- 92
139♦	54HC273	CD54HC273F	RCA	D FL-FLOP	59- 33
140♦	54HC273	M54HC273F1(A)	SGSI	D FL-FLOP	62- 19
141♦	54HC273	MC54HC273J(A)	MOTA	D FL-FLOP	60-102
142♦	54HC273	MM54HC273J(A)	NSC	D FL-FLOP	59- 70
143♦	54HC273	SN54HC273J	TII	D FL-FLOP	59- 11
144♦	54HC279	M54HC279F1(A)	SGSI	LATCH	243- 37
145	54HC280	CD54HC280F	RCA	PARITY GEN	227- 25
146♦	54HC280	M54HC280F1(A)	SGSI	PARITY GEN	227- 22
147♦	54HC280	MC54HC280J(A)	MOTA	PARITY GEN	227- 2
148♦	54HC280	MM54HC280J	NSC	PARITY GEN	227- 5
149♦	54HC280	PC54HC280D(A)	MULB	PARITY GEN	227- 26
150♦	54HC280	PC54HC280D(A)	PHIN	PARITY GEN	227- 26
151♦	54HC280	PC54HC280D(A)	RTCF	PARITY GEN	227- 26
152♦	54HC280	PC54HC280D(A)	VALG	PARITY GEN	227- 26
153♦	54HC280	SN54HC280J	TII	PARITY GEN	227- 29
154	54HC283	CD54HC283F(A)	RCA	ADDER	200-100
155♦	54HC283	M54HC283F1(A)	SGSI	ADDER	200- 78
156♦	54HC283	MC54HC283J(A)	MOTA	ADDER	199- 46
157♦	54HC283	MM54HC283J(A)	NSC	ADDER	200- 70
158♦	54HC283	PC54HC283D(A)	MULB	ADDER	199- 58
159♦	54HC283	PC54HC283D(A)	PHIN	ADDER	199- 58
160♦	54HC283	PC54HC283D(A)	RTCF	ADDER	199- 58
161♦	54HC283	PC54HC283D(A)	VALG	ADDER	199- 58
162▼	54HC292	M54HC292F1	SGSI	FREQ DIVID	195- 72
163♦	54HC292	MC54HC292J(A)	MOTA	FREQ DIVID	195-100
164♦	54HC292	MM54HC292J(A)	NSC	FREQ DIVID	196- 45
165▼	54HC294	M54HC294F1	SGSI	FREQ DIVID	195- 73
166♦	54HC294	MC54HC294J(A)	MOTA	FREQ DIVID	195- 97
167♦	54HC373	CD54HC373F	RCA	8-BIT LCH	238- 22
168♦	54HC373	M54HC373F1(A)	SGSI	8-BIT LCH	238- 12
169♦	54HC373	MC54HC373J(A)	MOTA	8-BIT LCH	237- 74
170♦	54HC373	MM54HC373J	NSC	8-BIT LCH	240- 59
171♦	54HC373	SN54HC373J	TII	8-BIT LCH	240- 68
172♦	54HC374	CD54HC374F	RCA	D FL-FLOP	59- 34
173♦	54HC374	M54HC374F1(A)	SGSI	D FL-FLOP	62- 4
174♦	54HC374	MC54HC374J(A)	MOTA	D FL-FLOP	60-103
175♦	54HC374	MM54HC374J	NSC	D FL-FLOP	59-103
176♦	54HC374	SN54HC374J	TII	D FL-FLOP	59- 88
177♦	54HC375	M54HC375F1(A)	SGSI	4-BIT LCH	230-110
178♦	54HC377	CD54HC377F	RCA	D FL-FLOP	59- 35
179♦	54HC377	M54HC377F1(A)	SGSI	D FL-FLOP	62- 80
180♦	54HC378	SN54HC378J	TII	D FL-FLOP	56- 22
181♦	54HC379	SN54HC379J	TII	D FL-FLOP	54- 26
182♦	54HC386	M54HC386F1(A)	SGSI	EX-OR GATE	93- 70
183♦	54HC386	SN54HC386J	TII	EX-OR GATE	93-107
184♦	54HC390	CD54HC390F	RCA	DEC CNTR	182- 32
185♦	54HC390	M54HC390F1(A)	SGSI	DEC CNTR	182- 41
186♦	54HC390	MC54HC390J(A)	MOTA	DEC CNTR	182- 23
187♦	54HC390	MM54HC390J	NSC	DEC CNTR	181- 45
188♦	54HC390	PC54HC390D(A)	MULB	DEC CNTR	182- 34
189♦	54HC390	PC54HC390D(A)	PHIN	DEC CNTR	182- 34
190♦	54HC390	PC54HC390D(A)	RTCF	DEC CNTR	182- 34
191♦	54HC390	PC54HC390D(A)	VALG	DEC CNTR	182- 34
192♦	54HC393	CD54HC393F	RCA	HEX CNTR	165- 23
193♦	54HC393	M54HC393F1(A)	SGSI	HEX CNTR	165- 32
194♦	54HC393	MC54HC393J(A)	MOTA	HEX CNTR	165- 4
195♦	54HC393	MM54HC393J	NSC	HEX CNTR	164- 81
196♦	54HC393	PC54HC393D(A)	MULB	HEX CNTR	164- 82
197♦	54HC393	PC54HC393D(A)	PHIN	HEX CNTR	164- 82
198♦	54HC393	PC54HC393D(A)	RTCF	HEX CNTR	164- 82
199♦	54HC393	PC54HC393D(A)	VALG	HEX CNTR	164- 82
200♦	54HC393	SN54HC393J(A)	TII	HEX CNTR	164- 13
201	54HC423	CD54HC423F(A)	RCA	CLOCK/MV	189- 68
202▼	54HC423	M54HC423F1	SGSI	CLOCK/MV	190- 29
203♦	54HC423	MM54HC423J	NSC	CLOCK/MV	190- 89
204♦	54HC423	PC54HC423D(A)	MULB	CLOCK/MV	191- 6
205♦	54HC423	PC54HC423D(A)	PHIN	CLOCK/MV	191- 6
206♦	54HC423	PC54HC423D(A)	RTCF	CLOCK/MV	191- 6
207♦	54HC423	PC54HC423D(A)	VALG	CLOCK/MV	191- 6
208♦	54HC533	CD54HC533F	RCA	8-BIT LCH	240- 24
209♦	54HC533	M54HC533F1(A)	SGSI	8-BIT LCH	238- 13
210♦	54HC533	MC54HC533J(A)	MOTA	8-BIT LCH	237- 75
211♦	54HC533	MM54HC533J	NSC	8-BIT LCH	240- 60
212♦	54HC534	CD54HC534F	RCA	D FL-FLOP	59- 36
213♦	54HC534	M54HC534F1(A)	SGSI	D FL-FLOP	62- 5
214♦	54HC534	MC54HC534J(A)	MOTA	D FL-FLOP	60-104
215♦	54HC534	MM54HC534J	NSC	D FL-FLOP	59-104
216♦	54HC534	SN54HC534J(A)	TII	D FL-FLOP	59- 95
217♦	54HC563	CD54HC563F	RCA	8-BIT LCH	240- 25
218♦	54HC563	M54HC563F1(A)	SGSI	8-BIT LCH	238- 14
219♦	54HC563	MC54HC563J(A)	MOTA	8-BIT LCH	240- 34
220♦	54HC563	MM54HC563J	NSC	8-BIT LCH	239- 62

*Surface mount package style

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1♦	54HC564	CD54HC564F	RCA	D FL-FLOP	59- 37
2♦	54HC564	M54HC564F1(A)	SGSI	D FL-FLOP	62- 6
3♦	54HC564	MC54HC564J(A)	MOTA	D FL-FLOP	59- 64
4♦	54HC564	MM54HC564J	NSC	D FL-FLOP	59-105
5♦	54HC573	CD54HC573F	RCA	8-BIT LCH	240- 44
6♦	54HC573	M54HC573F1(A)	SGSI	8-BIT LCH	238- 15
7♦	54HC573	MC54HC573J(A)	MOTA	8-BIT LCH	240- 35
8♦	54HC573	MD54HC573RC	MITC	8-BIT LCH	238- 46
9♦	54HC573	MM54HC573J	NSC	8-BIT LCH	239- 63
10♦	54HC574	CD54HC574F	RCA	D FL-FLOP	59- 38
11♦	54HC574	M54HC574F1(A)	SGSI	D FL-FLOP	62- 7
12♦	54HC574	MC54HC574J(A)	MOTA	D FL-FLOP	59- 65
13♦	54HC574	MM54HC574J	NSC	D FL-FLOP	59-106
14	54HC583	CD54HC583F(A)	RCA	ADDER	199- 40
15♦	54HC583	PC54HC583D(A)	MULB	ADDER	199- 94
16♦	54HC583	PC54HC583D(A)	PHIN	ADDER	199- 94
17♦	54HC583	PC54HC583D(A)	RTCF	ADDER	199- 94
18♦	54HC583	PC54HC583D(A)	VALG	ADDER	199- 94
19▼	54HC590	M54HC590F1	SGSI	COUNTER	165- 60
20▼	54HC592	M54HC592F1	SGSI	COUNTER	168-102
21▼	54HC593	M54HC593F1	SGSI	COUNTER	168-103
22♦	54HC688	CD54HC688F	RCA	MAGN COMP	218-108
23♦	54HC688	M54HC688F1(A)	SGSI	MAGN COMP	218- 74
24♦	54HC688	MC54HC688J(A)	MOTA	MAGN COMP	219- 7
25♦	54HC688	MM54HC688J	NSC	MAGN COMP	218- 87
26▼	54HC690	M54HC690F1	SGSI	DEC CNTR	172- 44
27▼	54HC691	M54HC691F1	SGSI	HEX CNTR	154- 4
28▼	54HC692	M54HC692F1	SGSI	DEC CNTR	172- 45
29▼	54HC693	M54HC693F1	SGSI	HEX CNTR	154- 25
30▼	54HC696	M54HC696F1	SGSI	DEC CNTR	177- 24
31▼	54HC697	M54HC697F1	SGSI	HEX CNTR	159- 69
32▼	54HC698	M54HC698F1	SGSI	DEC CNTR	177- 25
33▼	54HC699	M54HC699F1	SGSI	HEX CNTR	159- 70
34♦	54HC4002	CD54HC4002F	RCA	NOR GATE	118- 16
35♦	54HC4002	M54HC4002F1(A)	SGSI	NOR GATE	118- 7
36♦	54HC4002	MC54HC4002J	MOTA	NOR GATE	118- 13
37♦	54HC4002	MM54HC4002J	NSC	NOR GATE	118- 28
38♦	54HC4002	PC54HC4002D(A)	MULB	NOR GATE	118- 29
39♦	54HC4002	PC54HC4002D(A)	PHIN	NOR GATE	118- 29
40♦	54HC4002	PC54HC4002D(A)	RTCF	NOR GATE	118- 29
41♦	54HC4002	PC54HC4002D(A)	VALG	NOR GATE	118- 29
42♦	54HC4002	SN54HC4002J	TII	NOR GATE	118- 34
43♦	54HC4017	CD54HC4017F	RCA	DEC CNTR	183- 41
44♦	54HC4017	M54HC4017F1(A)	SGSI	DEC CNTR	183- 76
45♦	54HC4017	MC54HC4017J(A)	MOTA	DEC CNTR	183- 69
46♦	54HC4017	MM54HC4017J	NSC	DEC CNTR	183- 32
47♦	54HC4017	PC54HC4017D(A)	MULB	DEC CNTR	183- 81
48♦	54HC4017	PC54HC4017D(A)	PHIN	DEC CNTR	183- 81
49♦	54HC4017	PC54HC4017D(A)	RTCF	DEC CNTR	183- 81
50♦	54HC4017	PC54HC4017D(A)	VALG	DEC CNTR	183- 81
51♦	54HC4020	CD54HC4020F	RCA	COUNTER	171- 60
52♦	54HC4020	M54HC4020F1(A)	SGSI	COUNTER	172- 6
53♦	54HC4020	MC54HC4020J(A)	MOTA	COUNTER	171-103
54♦	54HC4020	MM54HC4020J	NSC	COUNTER	171- 52
55♦	54HC4020	PC54HC4020D(A)	MULB	COUNTER	172- 7
56♦	54HC4020	PC54HC4020D(A)	PHIN	COUNTER	172- 7
57♦	54HC4020	PC54HC4020D(A)	RTCF	COUNTER	172- 7
58♦	54HC4020	PC54HC4020D(A)	VALG	COUNTER	172- 7
59♦	54HC4022	M54HC4022F1(A)	SGSI	OCTAL CNTR	185- 25
60♦	54HC4024	CD54HC4024F	RCA	COUNTER	168- 69
61♦	54HC4024	M54HC4024F1(A)	SGSI	COUNTER	168- 96
62♦	54HC4024	MC54HC4024J(A)	MOTA	COUNTER	168- 89
63♦	54HC4024	MM54HC4024J	NSC	COUNTER	168- 72
64♦	54HC4024	PC54HC4024D(A)	MULB	COUNTER	168- 97
65♦	54HC4024	PC54HC4024D(A)	PHIN	COUNTER	168- 97
66♦	54HC4024	PC54HC4024D(A)	RTCF	COUNTER	168- 97
67♦	54HC4024	PC54HC4024D(A)	VALG	COUNTER	168- 97
68♦	54HC4028	M54HC4028F1(A)	SGSI	DECODER	127- 3
69♦	54HC4040	CD54HC4040F	RCA	COUNTER	170- 43
70♦	54HC4040	M54HC4040F1(A)	SGSI	COUNTER	170- 70
71♦	54HC4040	MC54HC4040J(A)	MOTA	COUNTER	170- 63
72♦	54HC4040	PC54HC4040D(A)	MULB	COUNTER	170- 71
73♦	54HC4040	PC54HC4040D(A)	PHIN	COUNTER	170- 71
74♦	54HC4040	PC54HC4040D(A)	RTCF	COUNTER	170- 71
75♦	54HC4040	PC54HC4040D(A)	VALG	COUNTER	170- 71
76♦	54HC4059	CD54HC4059F	RCA	FREQ DIVID	195- 90
77♦	54HC4060	CD54HC4060F	RCA	COUNTER	171- 61
78♦	54HC4060	M54HC4060F1(A)	SGSI	COUNTER	172- 1
79♦	54HC4060	MM54HC4060J	NSC	COUNTER	171- 53
80♦	54HC4060	PC54HC4060D(A)	MULB	COUNTER	171- 70
81♦	54HC4060	PC54HC4060D(A)	PHIN	COUNTER	171- 70
82♦	54HC4060	PC54HC4060D(A)	RTCF	COUNTER	171- 70
83♦	54HC4060	PC54HC4060D(A)	VALG	COUNTER	171- 70
84♦	54HC4072	M54HC4072F1(A)	SGSI	OR GATE	124- 5
85♦	54HC4075	CD54HC4075F	RCA	OR GATE	123- 21
86♦	54HC4075	M54HC4075F1(A)	SGSI	OR GATE	122-110
87♦	54HC4075	MC54HC4075J	MOTA	OR GATE	123- 11
88♦	54HC4075	MM54HC4075J	NSC	OR GATE	123- 23
89♦	54HC4075	PC54HC4075D(A)	MULB	OR GATE	123- 26
90♦	54HC4075	PC54HC4075D(A)	PHIN	OR GATE	123- 26
91♦	54HC4075	PC54HC4075D(A)	RTCF	OR GATE	123- 26
92♦	54HC4075	PC54HC4075D(A)	VALG	OR GATE	123- 26
93♦	54HC4078	M54HC4078F1(A)	SGSI	NOR GATE	119- 45
94♦	54HC4078	MM54HC4078J	NSC	NOR GATE	119- 55
95♦	54HC4102	M54HC4102F1(A)	SGSI	COUNTER	166- 83
96♦	54HC4103	M54HC4103F1(A)	SGSI	COUNTER	166- 84
97♦	54HC4510	CD54HC4510F	RCA	DEC CNTR	178- 86
98♦	54HC4510	PC54HC4510D(A)	MULB	DEC CNTR	180- 22
99♦	54HC4510	PC54HC4510D(A)	PHIN	DEC CNTR	180- 22
100♦	54HC4510	PC54HC4510D(A)	RTCF	DEC CNTR	180- 22
101♦	54HC4510	PC54HC4510D(A)	VALG	DEC CNTR	180- 22
102♦	54HC4514	MM54HC4514J(A)	NSC	DECODER	125- 62
103♦	54HC4516	CD54HC4516F	RCA	HEX CNTR	163- 45
104♦	54HC4516	PC54HC4516D(A)	MULB	HEX CNTR	163- 46
105♦	54HC4516	PC54HC4516D(A)	PHIN	HEX CNTR	163- 46
106♦	54HC4516	PC54HC4516D(A)	RTCF	HEX CNTR	163- 46
107♦	54HC4516	PC54HC4516D(A)	VALG	HEX CNTR	163- 46
108♦	54HC4518	CD54HC4518F	RCA	DEC CNTR	181- 31
109▼	54HC4518	M54HC4518F1	SGSI	DEC CNTR	180- 94
110♦	54HC4518	PC54HC4518D(A)	MULB	DEC CNTR	181- 88
111♦	54HC4518	PC54HC4518D(A)	PHIN	DEC CNTR	181- 88
112♦	54HC4518	PC54HC4518D(A)	RTCF	DEC CNTR	181- 88
113♦	54HC4518	PC54HC4518D(A)	VALG	DEC CNTR	181- 88
114♦	54HC4520	CD54HC4520F	RCA	HEX CNTR	164- 60
115▼	54HC4520	M54HC4520F1(A)	SGSI	HEX CNTR	164- 3
116♦	54HC4520	PC54HC4520D(A)	MULB	HEX CNTR	165- 24
117♦	54HC4520	PC54HC4520D(A)	PHIN	HEX CNTR	165- 24
118♦	54HC4520	PC54HC4520D(A)	RTCF	HEX CNTR	165- 24
119♦	54HC4520	PC54HC4520D(A)	VALG	HEX CNTR	165- 24
120	54HC4538	CD54HC4538F	RCA	CLOCK/MV	189- 69
121▼	54HC4538	M54HC4538F1(A)	SGSI	CLOCK/MV	190- 30
122♦	54HC4538	MC54HC4538J(A)	MOTA	CLOCK/MV	190- 55
123♦	54HC4538	MM54HC4538J	NSC	CLOCK/MV	190- 90
124♦	54HC4538	PC54HC4538D(A)	MULB	CLOCK/MV	191- 7
125♦	54HC4538	PC54HC4538D(A)	PHIN	CLOCK/MV	191- 7
126♦	54HC4538	PC54HC4538D(A)	RTCF	CLOCK/MV	191- 7
127♦	54HC4538	PC54HC4538D(A)	VALG	CLOCK/MV	191- 7
128♦	54HC4560	MM54HC4560J(A)	NSC	ADDER	200- 79
129♦	54HC7266	CD54HC7266F	RCA	EXNOR GATE	90- 85
130♦	54HC7266	PC54HC7266D(A)	MULB	EXNOR GATE	90- 49
131♦	54HC7266	PC54HC7266D(A)	PHIN	EXNOR GATE	90- 49
132♦	54HC7266	PC54HC7266D(A)	VALG	EXNOR GATE	90- 49
133♦	54HC40102	CD54HC40102F	RCA	DEC CNTR	177- 13
134♦	54HC40102	PC54HC40102D(A)	MULB	DEC CNTR	177- 15
135♦	54HC40102	PC54HC40102D(A)	PHIN	DEC CNTR	177- 15
136♦	54HC40102	PC54HC40102D(A)	RTCF	DEC CNTR	177- 15
137♦	54HC40102	PC54HC40102D(A)	VALG	DEC CNTR	177- 15
138♦	54HC40103	CD54HC40103F	RCA	COUNTER	169- 40
139♦	54HC40103	PC54HC40103D(A)	MULB	COUNTER	169- 51
140♦	54HC40103	PC54HC40103D(A)	PHIN	COUNTER	169- 51
141♦	54HC40103	PC54HC40103D(A)	RTCF	COUNTER	169- 51
142♦	54HC40103	PC54HC40103D(A)	VALG	COUNTER	169- 51
143♦	54HCT00	CD54HCT00F(A)	RCA	NAND GATE	98- 90
144♦	54HCT00	MC54HCT00J(A)	MOTA	NAND GATE	96- 70
145♦	54HCT00	MM54HCT00J(A)	NSC	NAND GATE	96- 88
146♦	54HCT00	PC54HCT00D(A)	MULB	NAND GATE	97- 14
147♦	54HCT00	PC54HCT00D(A)	PHIN	NAND GATE	97- 14
148♦	54HCT00	PC54HCT00D(A)	RTCF	NAND GATE	97- 14
149♦	54HCT00	PC54HCT00D(A)	VALG	NAND GATE	97- 14
150♦	54HCT02	CD54HCT02F	RCA	NOR GATE	113-105
151♦	54HCT02	PC54HCT02D(A)	MULB	NOR GATE	112- 99
152♦	54HCT02	PC54HCT02D(A)	PHIN	NOR GATE	112- 99
153♦	54HCT02	PC54HCT02D(A)	RTCF	NOR GATE	112- 99
154♦	54HCT02	PC54HCT02D(A)	VALG	NOR GATE	112- 99
155♦	54HCT03	CD54HCT03F(A)	RCA	NAND GATE	99- 30
156♦	54HCT03	PC54HCT03D(A)	MULB	NAND GATE	97- 15
157♦	54HCT03	PC54HCT03D(A)	PHIN	NAND GATE	97- 15
158♦	54HCT03	PC54HCT03D(A)	RTCF	NAND GATE	97- 15
159♦	54HCT03	PC54HCT03D(A)	VALG	NAND GATE	97- 15
160♦	54HCT08	CD54HCT08F	RCA	AND GATE	77- 94
161♦	54HCT08	PC54HCT08D(A)	MULB	AND GATE	76- 82
162♦	54HCT08	PC54HCT08D(A)	PHIN	AND GATE	76- 82
163♦	54HCT08	PC54HCT08D(A)	RTCF	AND GATE	76- 82
164♦	54HCT08	PC54HCT08D(A)	VALG	AND GATE	76- 82
165♦	54HCT10	CD54HCT10F	RCA	NAND GATE	103- 17
166♦	54HCT10	PC54HCT10D(A)	MULB	NAND GATE	102- 70
167♦	54HCT10	PC54HCT10D(A)	PHIN	NAND GATE	102- 70
168♦	54HCT10	PC54HCT10D(A)	RTCF	NAND GATE	102- 70
169♦	54HCT10	PC54HCT10D(A)	VALG	NAND GATE	102- 70
170♦	54HCT11	CD54HCT11F	RCA	AND GATE	80- 75
171♦	54HCT11	PC54HCT11D(A)	MULB	AND GATE	79-104
172♦	54HCT11	PC54HCT11D(A)	PHIN	AND GATE	79-104
173♦	54HCT11	PC54HCT11D(A)	RTCF	AND GATE	79-104
174♦	54HCT11	PC54HCT11D(A)	VALG	AND GATE	79-104
175♦	54HCT20	CD54HCT20F	RCA	NAND GATE	107- 26
176♦	54HCT20	PC54HCT20D(A)	MULB	NAND GATE	105- 27
177♦	54HCT20	PC54HCT20D(A)	PHIN	NAND GATE	105- 27
178♦	54HCT20	PC54HCT20D(A)	RTCF	NAND GATE	105- 27
179♦	54HCT20	PC54HCT20D(A)	VALG	NAND GATE	105- 27
180♦	54HCT21	CD54HCT21F	RCA	AND GATE	82- 98
181♦	54HCT21	PC54HCT21D(A)	MULB	AND GATE	82- 19
182♦	54HCT21	PC54HCT21D(A)	PHIN	AND GATE	82- 19
183♦	54HCT21	PC54HCT21D(A)	RTCF	AND GATE	82- 19
184♦	54HCT21	PC54HCT21D(A)	VALG	AND GATE	82- 19
185♦	54HCT27	CD54HCT27F	RCA	NOR GATE	116- 39
186♦	54HCT27	PC54HCT27D(A)	MULB	NOR GATE	115- 96
187♦	54HCT27	PC54HCT27D(A)	PHIN	NOR GATE	115- 96
188♦	54HCT27	PC54HCT27D(A)	RTCF	NOR GATE	115- 96
189♦	54HCT27	PC54HCT27D(A)	VALG	NOR GATE	115- 96
190♦	54HCT30	CD54HCT30F(A)	RCA	NAND GATE	110- 46
191♦	54HCT30	PC54HCT30D(A)	MULB	NAND GATE	109- 66
192♦	54HCT30	PC54HCT30D(A)	PHIN	NAND GATE	109- 66
193♦	54HCT30	PC54HCT30D(A)	RTCF	NAND GATE	109- 66
194♦	54HCT30	PC54HCT30D(A)	VALG	NAND GATE	109- 66
195♦	54HCT32	CD54HCT32F	RCA	OR GATE	121- 76
196♦	54HCT32	PC54HCT32D(A)	MULB	OR GATE	120- 70
197♦	54HCT32	PC54HCT32D(A)	PHIN	OR GATE	120- 70
198♦	54HCT32	PC54HCT32D(A)	RTCF	OR GATE	120- 70
199♦	54HCT32	PC54HCT32D(A)	VALG	OR GATE	120- 70
200	54HCT42	CD54HCT42F	RCA	DECODER	126- 56
201♦	54HCT42	PC54HCT42D(A)	MULB	DECODER	127- 52
202♦	54HCT42	PC54HCT42D(A)	PHIN	DECODER	127- 52
203♦	54HCT42	PC54HCT42D(A)	RTCF	DECODER	127- 52
204♦	54HCT42	PC54HCT42D(A)	VALG	DECODER	127- 52
205♦	54HCT73	CD54HCT73F	RCA	JK FL-FLOP	73- 28
206♦	54HCT73	PC54HCT73D(A)	MULB	JK FL-FLOP	68- 15
207♦	54HCT73	PC54HCT73D(A)	PHIN	JK FL-FLOP	68- 15
208♦	54HCT73	PC54HCT73D(A)	RTCF	JK FL-FLOP	68- 15
209♦	54HCT73	PC54HCT73D(A)	VALG	JK FL-FLOP	68- 15
210♦	54HCT74	CD54HCT74F(A)	RCA	D FL-FLOP	52- 51
211♦	54HCT74	MM54HCT74J(A)	NSC	D FL-FLOP	51- 28
212♦	54HCT74	PC54HCT74D(A)	MULB	D FL-FLOP	51- 25
213♦	54HCT74	PC54HCT74D(A)	PHIN	D FL-FLOP	51- 25
214♦	54HCT74	PC54HCT74D(A)	RTCF	D FL-FLOP	51- 25
215♦	54HCT74	PC54HCT74D(A)	VALG	D FL-FLOP	51- 25
216♦	54HCT75	CD54HCT75F(A)	RCA	2-BIT LCH	229- 98
217♦	54HCT75	PC54HCT75D(A)	MULB	4-BIT LCH	231-110
218♦	54HCT75	PC54HCT75D(A)	PHIN	4-BIT LCH	231-110
219♦	54HCT75	PC54HCT75D(A)	RTCF	4-BIT LCH	231-110
220♦	54HCT75	PC54HCT75D(A)	VALG	4-BIT LCH	231-110

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1♦	54HCT85	CD54HCT85F	RCA	MAGN COMP	217- 32
2♦	54HCT85	PC54HCT85D(A)	MULB	MAGN COMP	217- 44
3♦	54HCT85	PC54HCT85D(A)	PHIN	MAGN COMP	217- 44
4♦	54HCT85	PC54HCT85D(A)	RTCF	MAGN COMP	217- 44
5♦	54HCT85	PC54HCT85D(A)	VALG	MAGN COMP	217- 44
6♦	54HCT86	CD54HCT86F	RCA	EX-OR GATE	91- 63
7♦	54HCT86	PC54HCT86D(A)	MULB	EX-OR GATE	92- 67
8♦	54HCT86	PC54HCT86D(A)	PHIN	EX-OR GATE	92- 67
9♦	54HCT86	PC54HCT86D(A)	RTCF	EX-OR GATE	92- 67
10♦	54HCT86	PC54HCT86D(A)	VALG	EX-OR GATE	92- 67
11♦	54HCT93	CD54HCT93F(A)	RCA	HEX CNTR	154- 18
12♦	54HCT93	PC54HCT93D(A)	MULB	HEX CNTR	158- 47
13♦	54HCT93	PC54HCT93D(A)	PHIN	HEX CNTR	158- 47
14♦	54HCT93	PC54HCT93D(A)	RTCF	HEX CNTR	158- 47
15♦	54HCT93	PC54HCT93D(A)	VALG	HEX CNTR	158- 47
16♦	54HCT107	CD54HCT107F	RCA	JK FL-FLOP	73- 29
17♦	54HCT107	PC54HCT107D(A)	MULB	JK FL-FLOP	67-108
18♦	54HCT107	PC54HCT107D(A)	PHIN	JK FL-FLOP	67-108
19♦	54HCT107	PC54HCT107D(A)	RTCF	JK FL-FLOP	67-108
20♦	54HCT107	PC54HCT107D(A)	VALG	JK FL-FLOP	67-108
21	54HCT109	CD54HCT109F	RCA	JK FL-FLOP	73- 30
22♦	54HCT109	MM54HCT109J(A)	NSC	JK FL-FLOP	68- 35
23♦	54HCT109	PC54HCT109D(A)	MULB	JK FL-FLOP	68- 37
24♦	54HCT109	PC54HCT109D(A)	PHIN	JK FL-FLOP	68- 37
25♦	54HCT109	PC54HCT109D(A)	RTCF	JK FL-FLOP	68- 37
26♦	54HCT109	PC54HCT109D(A)	VALG	JK FL-FLOP	68- 37
27♦	54HCT112	CD54HCT112F	RCA	JK FL-FLOP	73- 31
28♦	54HCT112	PC54HCT112D(A)	MULB	JK FL-FLOP	72- 97
29♦	54HCT112	PC54HCT112D(A)	PHIN	JK FL-FLOP	72- 97
30♦	54HCT112	PC54HCT112D(A)	RTCF	JK FL-FLOP	72- 97
31♦	54HCT112	PC54HCT112D(A)	VALG	JK FL-FLOP	72- 97
32	54HCT123	CD54HCT123F	RCA	CLOCK/MV	189- 70
33♦	54HCT123	PC54HCT123D(A)	MULB	CLOCK/MV	191- 8
34♦	54HCT123	PC54HCT123D(A)	PHIN	CLOCK/MV	191- 8
35♦	54HCT123	PC54HCT123D(A)	RTCF	CLOCK/MV	191- 8
36♦	54HCT123	PC54HCT123D(A)	VALG	CLOCK/MV	191- 8
37♦	54HCT154	CD54HCT154F(2)	RCA	DECODER	125- 72
38♦	54HCT160	CD54HCT160F	RCA	DEC CNTR	173-101
39♦	54HCT160	PC54HCT160D(A)	MULB	DEC CNTR	175- 62
40♦	54HCT160	PC54HCT160D(A)	PHIN	DEC CNTR	175- 62
41♦	54HCT160	PC54HCT160D(A)	RTCF	DEC CNTR	175- 62
42♦	54HCT160	PC54HCT160D(A)	VALG	DEC CNTR	175- 62
43♦	54HCT161	CD54HCT161F	RCA	HEX CNTR	155- 96
44♦	54HCT161	PC54HCT161D(A)	MULB	HEX CNTR	157- 94
45♦	54HCT161	PC54HCT161D(A)	PHIN	HEX CNTR	157- 94
46♦	54HCT161	PC54HCT161D(A)	RTCF	HEX CNTR	157- 94
47♦	54HCT161	PC54HCT161D(A)	VALG	HEX CNTR	157- 94
48♦	54HCT162	CD54HCT162F	RCA	DEC CNTR	173-102
49♦	54HCT162	PC54HCT162D(A)	MULB	DEC CNTR	175- 63
50♦	54HCT162	PC54HCT162D(A)	PHIN	DEC CNTR	175- 63
51♦	54HCT162	PC54HCT162D(A)	RTCF	DEC CNTR	175- 63
52♦	54HCT162	PC54HCT162D(A)	VALG	DEC CNTR	175- 63
53♦	54HCT163	CD54HCT163F	RCA	HEX CNTR	155- 97
54♦	54HCT163	PC54HCT163D(A)	MULB	HEX CNTR	157- 95
55♦	54HCT163	PC54HCT163D(A)	PHIN	HEX CNTR	157- 95
56♦	54HCT163	PC54HCT163D(A)	RTCF	HEX CNTR	157- 95
57♦	54HCT163	PC54HCT163D(A)	VALG	HEX CNTR	157- 95
58♦	54HCT173	CD54HCT173F	RCA	D FL-FLOP	55- 58
59♦	54HCT173	PC54HCT173D(A)	MULB	D FL-FLOP	55- 45
60♦	54HCT173	PC54HCT173D(A)	PHIN	D FL-FLOP	55- 45
61♦	54HCT173	PC54HCT173D(A)	RTCF	D FL-FLOP	55- 45
62♦	54HCT173	PC54HCT173D(A)	VALG	D FL-FLOP	55- 45
63♦	54HCT174	CD54HCT174F	RCA	D FL-FLOP	56- 39
64♦	54HCT174	PC54HCT174D(A)	MULB	D FL-FLOP	57- 6
65♦	54HCT174	PC54HCT174D(A)	PHIN	D FL-FLOP	57- 6
66♦	54HCT174	PC54HCT174D(A)	RTCF	D FL-FLOP	57- 6
67♦	54HCT174	PC54HCT174D(A)	VALG	D FL-FLOP	57- 6
68♦	54HCT175	CD54HCT175F	RCA	D FL-FLOP	54- 51
69♦	54HCT175	PC54HCT175D(A)	MULB	D FL-FLOP	54- 27
70♦	54HCT175	PC54HCT175D(A)	PHIN	D FL-FLOP	54- 27
71♦	54HCT175	PC54HCT175D(A)	RTCF	D FL-FLOP	54- 27
72♦	54HCT175	PC54HCT175D(A)	VALG	D FL-FLOP	54- 27
73	54HCT181	CD54HCT181F(A)	RCA	4-BIT ALU	221- 13
74♦	54HCT181	PC54HCT181D(A)	MULB	4-BIT ALU	222- 8
75♦	54HCT181	PC54HCT181D(A)	PHIN	4-BIT ALU	222- 8
76♦	54HCT181	PC54HCT181D(A)	RTCF	4-BIT ALU	222- 8
77♦	54HCT181	PC54HCT181D(A)	VALG	4-BIT ALU	222- 8
78	54HCT182	CD54HCT182F(A)	RCA	PARITY GEN	225- 24
79♦	54HCT182	PC54HCT182D(A)	MULB	PARITY GEN	225- 44
80♦	54HCT182	PC54HCT182D(A)	PHIN	PARITY GEN	225- 44
81♦	54HCT182	PC54HCT182D(A)	RTCF	PARITY GEN	225- 44
82♦	54HCT182	PC54HCT182D(A)	VALG	PARITY GEN	225- 44
83♦	54HCT190	CD54HCT190F	RCA	DEC CNTR	178- 16
84♦	54HCT190	PC54HCT190D(A)	MULB	DEC CNTR	180- 9
85♦	54HCT190	PC54HCT190D(A)	PHIN	DEC CNTR	180- 9
86♦	54HCT190	PC54HCT190D(A)	RTCF	DEC CNTR	180- 9
87♦	54HCT190	PC54HCT190D(A)	VALG	DEC CNTR	180- 9
88♦	54HCT191	CD54HCT191F	RCA	HEX CNTR	160- 97
89♦	54HCT191	PC54HCT191D(A)	MULB	HEX CNTR	163- 30
90♦	54HCT191	PC54HCT191D(A)	PHIN	HEX CNTR	163- 30
91♦	54HCT191	PC54HCT191D(A)	RTCF	HEX CNTR	163- 30
92♦	54HCT191	PC54HCT191D(A)	VALG	HEX CNTR	163- 30
93♦	54HCT192	CD54HCT192F	RCA	DEC CNTR	178- 17
94♦	54HCT192	PC54HCT192D(A)	MULB	DEC CNTR	180- 10
95♦	54HCT192	PC54HCT192D(A)	PHIN	DEC CNTR	180- 10
96♦	54HCT192	PC54HCT192D(A)	RTCF	DEC CNTR	180- 10
97♦	54HCT192	PC54HCT192D(A)	VALG	DEC CNTR	180- 10
98♦	54HCT193	CD54HCT193F	RCA	HEX CNTR	160- 98
99♦	54HCT193	PC54HCT193D(A)	MULB	HEX CNTR	163- 31
100♦	54HCT193	PC54HCT193D(A)	PHIN	HEX CNTR	163- 31
101♦	54HCT193	PC54HCT193D(A)	RTCF	HEX CNTR	163- 31
102♦	54HCT193	PC54HCT193D(A)	VALG	HEX CNTR	163- 31
103	54HCT221	CD54HCT221F	RCA	CLOCK/MV	189- 71
104♦	54HCT221	PC54HCT221D(A)	MULB	CLOCK/MV	191- 9
105♦	54HCT221	PC54HCT221D(A)	PHIN	CLOCK/MV	191- 9
106♦	54HCT221	PC54HCT221D(A)	RTCF	CLOCK/MV	191- 9
107♦	54HCT221	PC54HCT221D(A)	VALG	CLOCK/MV	191- 9
108♦	54HCT259	CD54HCT259F	RCA	8-BIT LCH	240- 19
109♦	54HCT259	PC54HCT259D(A)	PHIN	8-BIT LCH	240- 74
110♦	54HCT259	PC54HCT259D(A)	RTCF	8-BIT LCH	240- 74
111♦	54HCT259	PC54HCT259D(A)	VALG	8-BIT LCH	240- 74
112♦	54HCT273	54HCT273C(A)	STX	D FL-FLOP	57- 69
113♦	54HCT273	54HCT273D(A)	STX	D FL-FLOP	57- 70
114♦	54HCT273	CD54HCT273F	RCA	D FL-FLOP	58-102
115	54HCT280	CD54HCT280F	RCA	PARITY GEN	227- 34
116♦	54HCT280	PC54HCT280D(A)	MULB	PARITY GEN	227- 35
117♦	54HCT280	PC54HCT280D(A)	PHIN	PARITY GEN	227- 35
118♦	54HCT280	PC54HCT280D(A)	RTCF	PARITY GEN	227- 35
119♦	54HCT280	PC54HCT280D(A)	VALG	PARITY GEN	227- 35
120	54HCT283	CD54HCT283F(A)	RCA	ADDER	200-101
121♦	54HCT283	PC54HCT283D(A)	MULB	ADDER	199- 65
122♦	54HCT283	PC54HCT283D(A)	PHIN	ADDER	199- 65
123♦	54HCT283	PC54HCT283D(A)	RTCF	ADDER	199- 65
124♦	54HCT283	PC54HCT283D(A)	VALG	ADDER	199- 65
125♦	54HCT373	54HCT373	AEIL	8-BIT LCH	233- 47
126♦	54HCT373	54HCT373C	STX	8-BIT LCH	239-106
127♦	54HCT373	54HCT373D	STX	8-BIT LCH	239-107
128♦	54HCT373	CD54HCT373F	RCA	8-BIT LCH	238- 82
129▼	54HCT373	M54HCT373F1	SGSI	8-BIT LCH	233- 55
130♦	54HCT373	MC54HCT373J(A)	MOTA	8-BIT LCH	233- 63
131♦	54HCT373	MD54HCT373RC	MITC	8-BIT LCH	238- 47
132♦	54HCT373	MM54HCT373J(A)	NSC	8-BIT LCH	240- 75
133♦	54HCT373	MV54HCT373	PLSB	8-BIT LCH	239- 72
134▼	54HCT373	SN54HCT373J(A)	TII	8-BIT LCH	240- 80
135♦	54HCT374	54HCT374	AEIL	D FL-FLOP	57- 71
136♦	54HCT374	54HCT374C	STX	D FL-FLOP	59- 12
137♦	54HCT374	54HCT374D	STX	D FL-FLOP	59- 13
138♦	54HCT374	CD54HCT374F	RCA	D FL-FLOP	59- 39
139▼	54HCT374	M54HCT374F1	SGSI	D FL-FLOP	58- 13
140♦	54HCT374	MC54HCT374J	MOTA	D FL-FLOP	58- 17
141♦	54HCT374	MD54HCT374RC	MITC	D FL-FLOP	58- 20
142♦	54HCT374	MM54HCT374J(A)	NSC	D FL-FLOP	59- 71
143▼	54HCT374	SN54HCT374J(A)	TII	D FL-FLOP	59- 96
144♦	54HCT377	CD54HCT377F	RCA	D FL-FLOP	58-103
145♦	54HCT390	54HCT390C(A)	STX	DEC CNTR	181-110
146♦	54HCT390	54HCT390D(A)	STX	DEC CNTR	182- 1
147♦	54HCT390	CD54HCT390F	RCA	DEC CNTR	182- 33
148♦	54HCT390	PC54HCT390D(A)	MULB	DEC CNTR	182- 35
149♦	54HCT390	PC54HCT390D(A)	PHIN	DEC CNTR	182- 35
150♦	54HCT390	PC54HCT390D(A)	RTCF	DEC CNTR	182- 35
151♦	54HCT390	PC54HCT390D(A)	VALG	DEC CNTR	182- 35
152♦	54HCT393	54HCT393C(A)	STX	HEX CNTR	164- 7
153♦	54HCT393	54HCT393D(A)	STX	HEX CNTR	164- 8
154♦	54HCT393	CD54HCT393F	RCA	HEX CNTR	165- 30
155♦	54HCT393	PC54HCT393D(A)	MULB	HEX CNTR	164- 64
156♦	54HCT393	PC54HCT393D(A)	PHIN	HEX CNTR	164- 64
157♦	54HCT393	PC54HCT393D(A)	RTCF	HEX CNTR	164- 64
158♦	54HCT393	PC54HCT393D(A)	VALG	HEX CNTR	164- 64
159	54HCT423	CD54HCT423F(A)	RCA	CLOCK/MV	189- 72
160♦	54HCT423	PC54HCT423D(A)	MULB	CLOCK/MV	191- 10
161♦	54HCT423	PC54HCT423D(A)	PHIN	CLOCK/MV	191- 10
162♦	54HCT423	PC54HCT423D(A)	RTCF	CLOCK/MV	191- 10
163♦	54HCT423	PC54HCT423D(A)	VALG	CLOCK/MV	191- 10
164♦	54HCT533	54HCT533C	STX	8-BIT LCH	239-108
165♦	54HCT533	54HCT533D	STX	8-BIT LCH	239-109
166♦	54HCT533	CD54HCT533F	RCA	8-BIT LCH	240- 45
167♦	54HCT534	54HCT534	AEIL	D FL-FLOP	57- 72
168♦	54HCT534	54HCT534C	STX	D FL-FLOP	59- 14
169♦	54HCT534	54HCT534D	STX	D FL-FLOP	59- 15
170♦	54HCT534	CD54HCT534F	RCA	D FL-FLOP	58-104
171♦	54HCT563	54HCT563	AEIL	8-BIT LCH	233- 48
172♦	54HCT563	54HCT563C	STX	8-BIT LCH	239-110
173♦	54HCT563	54HCT563D	STX	8-BIT LCH	240- 1
174♦	54HCT563	CD54HCT563F	RCA	8-BIT LCH	240- 46
175♦	54HCT563	M54HCT563F1(A)	SGSI	8-BIT LCH	238- 96
176♦	54HCT564	54HCT564	AEIL	D FL-FLOP	57- 73
177♦	54HCT564	54HCT564C	STX	D FL-FLOP	59- 16
178♦	54HCT564	54HCT564D	STX	D FL-FLOP	59- 17
179♦	54HCT564	CD54HCT564F	RCA	D FL-FLOP	58-105
180♦	54HCT564	M54HCT564F1(A)	SGSI	D FL-FLOP	61- 81
181♦	54HCT573	54HCT573	AEIL	8-BIT LCH	233- 49
182♦	54HCT573	54HCT573C	STX	8-BIT LCH	240- 2
183♦	54HCT573	54HCT573D	STX	8-BIT LCH	240- 3
184♦	54HCT573	CD54HCT573F	RCA	8-BIT LCH	240- 63
185♦	54HCT573	M54HCT573F1(A)	SGSI	8-BIT LCH	238- 97
186♦	54HCT573	MD54HCT573RC	MITC	8-BIT LCH	238- 48
187♦	54HCT573	MV54HCT573	PLSB	8-BIT LCH	239- 73
188♦	54HCT574	54HCT574	AEIL	D FL-FLOP	57- 74
189♦	54HCT574	54HCT574C	STX	D FL-FLOP	59- 18
190♦	54HCT574	54HCT574D	STX	D FL-FLOP	59- 19
191♦	54HCT574	CD54HCT574F	RCA	D FL-FLOP	59- 40
192♦	54HCT574	M54HCT574F1(A)	SGSI	D FL-FLOP	61- 82
193♦	54HCT574	MD54HCT574PC	MITC	D FL-FLOP	58- 21
194♦	54HCT574	MD54HCT574RC	MITC	D FL-FLOP	58- 22
195	54HCT583	CD54HCT583F(A)	RCA	ADDER	199- 41
196♦	54HCT583	PC54HCT583D(A)	MULB	ADDER	199-105
197♦	54HCT583	PC54HCT583D(A)	PHIN	ADDER	199-105
198♦	54HCT583	PC54HCT583D(A)	RTCF	ADDER	199-105
199♦	54HCT583	PC54HCT583D(A)	VALG	ADDER	199-105
200♦	54HCT688	CD54HCT688F	RCA	MAGN COMP	218-109
201♦	54HCT688	MM54HCT688J(A)	NSC	MAGN COMP	218-110
202♦	54HCT4002	CD54HCT4002F	RCA	NOR GATE	118- 17
203♦	54HCT4002	PC54HCT4002D(A)	MULB	NOR GATE	118- 60
204♦	54HCT4002	PC54HCT4002D(A)	PHIN	NOR GATE	118- 60
205♦	54HCT4002	PC54HCT4002D(A)	RTCF	NOR GATE	118- 60
206♦	54HCT4002	PC54HCT4002D(A)	VALG	NOR GATE	118- 60
207♦	54HCT4017	CD54HCT4017F	RCA	DEC CNTR	183- 31
208♦	54HCT4017	PC54HCT4017D(A)	MULB	DEC CNTR	183- 79
209♦	54HCT4017	PC54HCT4017D(A)	PHIN	DEC CNTR	183- 79
210♦	54HCT4017	PC54HCT4017D(A)	RTCF	DEC CNTR	183- 79
211♦	54HCT4017	PC54HCT4017D(A)	VALG	DEC CNTR	183- 79
212♦	54HCT4020	CD54HCT4020F	RCA	COUNTER	171- 45
213♦	54HCT4020	PC54HCT4020D(A)	MULB	COUNTER	171-108
214♦	54HCT4020	PC54HCT4020D(A)	PHIN	COUNTER	171-108
215♦	54HCT4020	PC54HCT4020D(A)	RTCF	COUNTER	171-108
216♦	54HCT4020	PC54HCT4020D(A)	VALG	COUNTER	171-108
217♦	54HCT4024	CD54HCT4024F	RCA	COUNTER	168- 61
218♦	54HCT4024	PC54HCT4024D(A)	PHIN	COUNTER	168- 94
219♦	54HCT4024	PC54HCT4024D(A)	RTCF	COUNTER	168- 94
220♦	54HCT4024	PC54HCT4024D(A)	VALG	COUNTER	168- 94

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3♦	54HCT4040	PC54HCT4040D(A)	PHIN	COUNTER	170- 68
4♦	54HCT4040	PC54HCT4040D(A)	RTCF	COUNTER	170- 68
5♦	54HCT4040	PC54HCT4040D(A)	VALG	COUNTER	170- 68
6♦	54HCT4059	CD54HCT4059F	RCA	FREQ DIVID	195- 91
7♦	54HCT4060	CD54HCT4060F	RCA	COUNTER	171- 62
8♦	54HCT4060	PC54HCT4060D(A)	MULB	COUNTER	171- 71
9♦	54HCT4060	PC54HCT4060D(A)	PHIN	COUNTER	171- 71
10♦	54HCT4060	PC54HCT4060D(A)	RTCF	COUNTER	171- 71
11♦	54HCT4060	PC54HCT4060D(A)	VALG	COUNTER	171- 71
12♦	54HCT4075	CD54HCT4075F	RCA	OR GATE	123- 22
13♦	54HCT4075	PC54HCT4075D(A)	MULB	OR GATE	123- 32
14♦	54HCT4075	PC54HCT4075D(A)	PHIN	OR GATE	123- 32
15♦	54HCT4075	PC54HCT4075D(A)	RTCF	OR GATE	123- 32
16♦	54HCT4075	PC54HCT4075D(A)	VALG	OR GATE	123- 32
17♦	54HCT4510	CD54HCT4510F	RCA	DEC CNTR	178- 57
18♦	54HCT4510	PC54HCT4510D(A)	MULB	DEC CNTR	180- 23
19♦	54HCT4510	PC54HCT4510D(A)	PHIN	DEC CNTR	180- 23
20♦	54HCT4510	PC54HCT4510D(A)	RTCF	DEC CNTR	180- 23
21♦	54HCT4510	PC54HCT4510D(A)	VALG	DEC CNTR	180- 23
22♦	54HCT4516	CD54HCT4516F	RCA	HEX CNTR	161- 72
23♦	54HCT4516	PC54HCT4516D(A)	MULB	HEX CNTR	163- 47
24♦	54HCT4516	PC54HCT4516D(A)	PHIN	HEX CNTR	163- 47
25♦	54HCT4516	PC54HCT4516D(A)	RTCF	HEX CNTR	163- 47
26♦	54HCT4516	PC54HCT4516D(A)	VALG	HEX CNTR	163- 47
27♦	54HCT4518	CD54HCT4518F	RCA	DEC CNTR	181- 32
28♦	54HCT4518	PC54HCT4518D(A)	MULB	DEC CNTR	181- 89
29♦	54HCT4518	PC54HCT4518D(A)	PHIN	DEC CNTR	181- 89
30♦	54HCT4518	PC54HCT4518D(A)	RTCF	DEC CNTR	181- 89
31♦	54HCT4518	PC54HCT4518D(A)	VALG	DEC CNTR	181- 89
32♦	54HCT4520	CD54HCT4520F	RCA	HEX CNTR	164- 61
33♦	54HCT4520	PC54HCT4520D(A)	MULB	HEX CNTR	165- 25
34♦	54HCT4520	PC54HCT4520D(A)	PHIN	HEX CNTR	165- 25
35♦	54HCT4520	PC54HCT4520D(A)	RTCF	HEX CNTR	165- 25
36♦	54HCT4520	PC54HCT4520D(A)	VALG	HEX CNTR	165- 25
37	54HCT4538	CD54HCT4538F	RCA	CLOCK/MV	189- 73
38♦	54HCT4538	PC54HCT4538D(A)	MULB	CLOCK/MV	191- 11
39♦	54HCT4538	PC54HCT4538D(A)	PHIN	CLOCK/MV	191- 11
40♦	54HCT4538	PC54HCT4538D(A)	RTCF	CLOCK/MV	191- 11
41♦	54HCT4538	PC54HCT4538D(A)	VALG	CLOCK/MV	191- 11
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43♦	54HCT40102	CD54HCT40102F	RCA	DEC CNTR	177- 12
44♦	54HCT40102	PC54HCT40102D(A)	MULB	DEC CNTR	177- 14
45♦	54HCT40102	PC54HCT40102D(A)	PHIN	DEC CNTR	177- 14
46♦	54HCT40102	PC54HCT40102D(A)	RTCF	DEC CNTR	177- 14
47♦	54HCT40102	PC54HCT40102D(A)	VALG	DEC CNTR	177- 14
48♦	54HCT40103	CD54HCT40103F	RCA	COUNTER	169- 39
49♦	54HCT40103	PC54HCT40103D(A)	MULB	COUNTER	169- 49
50♦	54HCT40103	PC54HCT40103D(A)	PHIN	COUNTER	169- 49
51♦	54HCT40103	PC54HCT40103D(A)	RTCF	COUNTER	169- 49
52♦	54HCT40103	PC54HCT40103D(A)	VALG	COUNTER	169- 49
53♦	54L00	DM54L00J	NSC	NAND GATE	95- 98
54♦	54L00	*DM54L00W	NSC	NAND GATE	100- 55
55♦	54L01	DM54L01J	NSC	NAND GATE	100- 85
56♦	54L02	DM54L02J	NSC	NOR GATE	112- 59
57♦	54L02	*DM54L02W	NSC	NOR GATE	114- 66
58♦	54L03	DM54L03J	NSC	NAND GATE	95- 99
59♦	54L08	DM54L08J	NSC	AND GATE	78- 73
60♦	54L10	DM54L10J	NSC	NAND GATE	101- 44
61♦	54L10	*DM54L10W	NSC	NAND GATE	103- 81
62♦	54L11	DM54L11J	NSC	AND GATE	81- 5
63♦	54L20	DM54L20J	NSC	NAND GATE	108- 4
64♦	54L20	*DM54L20W	NSC	NAND GATE	107- 84
65♦	54L26	DM54L26J	NSC	NAND GATE	100- 86
66♦	54L30	DM54L30J	NSC	NAND GATE	110- 71
67♦	54L42	DM54L42AJ	NSC	DECODER	126- 73
68♦	54L42	*DM54L42AW	NSC	DECODER	126- 74
69♦	54L51	DM54L51J	NSC	AND-OR-INV	88-104
70♦	54L54	DM54L54J	NSC	AND-OR-INV	88- 21
71♦	54L54	*DM54L54W	NSC	AND-OR-INV	87- 94
72♦	54L55	DM54L55J	NSC	AND-OR-INV	89- 21
73♦	54L55	*DM54L55W	NSC	AND-OR-INV	89- 22
74♦	54L71	DM54L71J	NSC	RS FL-FLOP	75- 38
75♦	54L71	DM54L71W	NSC	RS FL-FLOP	75- 39
76♦	54L72	DM54L72J	NSC	JK FL-FLOP	64-101
77♦	54L72	*DM54L72W	NSC	JK FL-FLOP	64-102
78♦	54L73	DM54L73J	NSC	JK FL-FLOP	67- 85
79	54L73	*DM54L73W	NSC	JK FL-FLOP	67- 86
80♦	54L74	DM54L74J	NSC	D FL-FLOP	51- 10
81	54L74	*DM54L74W	NSC	D FL-FLOP	51- 11
82♦	54L75	DM54L75AJ	NSC	4-BIT LCH	232- 68
83	54L75	*DM54L75AW	NSC	4-BIT LCH	232- 49
84♦	54L78	DM54L78J	NSC	JK FL-FLOP	67- 87
85♦	54L78	*DM54L78W	NSC	JK FL-FLOP	67- 88
86♦	54L85	DM54L85J	NSC	MAGN COMP	217- 53
87	54L85	*DM54L85W	NSC	MAGN COMP	217- 54
88♦	54L86	DM54L86J	NSC	EX-OR GATE	91- 87
89♦	54L86	*DM54L86W	NSC	EX-OR GATE	94- 25
90♦	54L90	DM54L90J	NSC	DEC CNTR	173- 33
91♦	54L90	*DM54L90W	NSC	DEC CNTR	173- 34
92♦	54L93	DM54L93J	NSC	HEX CNTR	155- 55
93♦	54L93	*DM54L93W	NSC	HEX CNTR	155- 56
94	54L154	*DM54L154AF	NSC	DECODER	125- 84
95♦	54L154	DM54L154AJ	NSC	DECODER	125- 85
96♦	54L192	DM54L192J	NSC	DEC CNTR	178- 6
97♦	54L192	*DM54L192W	NSC	COUNTER	166- 32
98♦	54L193	DM54L193J	NSC	HEX CNTR	160- 89
99♦	54L193	*DM54L193W	NSC	COUNTER	166- 33
100♦	54LS00	54LS00DM	FSC	NAND GATE	95- 52
101♦	54LS00	*54LS00FM	FSC	NAND GATE	97-105
102♦	54LS00	DM54LS00J	NSC	NAND GATE	95-100
103♦	54LS00	S54LS00F	MULB	NAND GATE	97- 23
104♦	54LS00	S54LS00F	PHIN	NAND GATE	97- 23
105♦	54LS00	S54LS00F	RTCF	NAND GATE	97- 23
106♦	54LS00	S54LS00F	SIC	NAND GATE	97- 23
107♦	54LS00	S54LS00F	VALG	NAND GATE	97- 23
108♦	54LS00	*S54LS00G	MULB	NAND GATE	98- 75
109♦	54LS00	*S54LS00G	PHIN	NAND GATE	98- 75
110♦	54LS00	*S54LS00G	RTCF	NAND GATE	98- 75

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111♦	54LS00	*S54LS00G	SIC	NAND GATE	98- 75
112♦	54LS00	*S54LS00G	VALG	NAND GATE	98- 75
113♦	54LS00	*S54LS00W	MULB	NAND GATE	98- 76
114♦	54LS00	*S54LS00W	PHIN	NAND GATE	98- 76
115♦	54LS00	*S54LS00W	RTCF	NAND GATE	98- 76
116♦	54LS00	*S54LS00W	SIC	NAND GATE	98- 76
117♦	54LS00	*S54LS00W	VALG	NAND GATE	98- 76
118♦	54LS00	SN54LS00J	MOTA	NAND GATE	97- 65
119♦	54LS00	SN54LS00J	TII	NAND GATE	97- 65
120♦	54LS00	T54LS00D2	SGSI	NAND GATE	97- 88
121♦	54LS01	DM54LS01J	NSC	NAND GATE	100- 5
122♦	54LS01	S54LS01F	MULB	NAND GATE	99- 63
123♦	54LS01	S54LS01F	PHIN	NAND GATE	99- 63
124♦	54LS01	S54LS01F	RTCF	NAND GATE	99- 63
125♦	54LS01	S54LS01F	VALG	NAND GATE	99- 63
126♦	54LS01	*S54LS01W	MULB	NAND GATE	99- 64
127♦	54LS01	*S54LS01W	PHIN	NAND GATE	99- 64
128♦	54LS01	*S54LS01W	RTCF	NAND GATE	99- 64
129♦	54LS01	*S54LS01W	VALG	NAND GATE	99- 64
130♦	54LS01	SN54LS01J	MOTA	NAND GATE	99- 69
131♦	54LS01	SN54LS01J	TII	NAND GATE	99- 69
132▼	54LS01	SN54LS01N	MOTA	NAND GATE	99- 70
133♦	54LS02	54LS02DM	FSC	NOR GATE	112- 46
134♦	54LS02	*54LS02FM	FSC	NOR GATE	113- 50
135♦	54LS02	DM54LS02J	NSC	NOR GATE	112- 60
136♦	54LS02	S54LS02F	MULB	NOR GATE	112-103
137♦	54LS02	S54LS02F	PHIN	NOR GATE	112-103
138♦	54LS02	S54LS02F	RTCF	NOR GATE	112-103
139♦	54LS02	S54LS02F	SIC	NOR GATE	112-103
140♦	54LS02	S54LS02F	VALG	NOR GATE	112-103
141♦	54LS02	*S54LS02G	MULB	NOR GATE	113- 81
142♦	54LS02	*S54LS02G	PHIN	NOR GATE	113- 81
143♦	54LS02	*S54LS02G	RTCF	NOR GATE	113- 81
144♦	54LS02	*S54LS02G	SIC	NOR GATE	113- 81
145♦	54LS02	*S54LS02G	VALG	NOR GATE	113- 81
146♦	54LS02	*S54LS02W	MULB	NOR GATE	113- 82
147♦	54LS02	*S54LS02W	PHIN	NOR GATE	113- 82
148♦	54LS02	*S54LS02W	RTCF	NOR GATE	113- 82
149♦	54LS02	*S54LS02W	SIC	NOR GATE	113- 82
150♦	54LS02	*S54LS02W	VALG	NOR GATE	113- 82
151♦	54LS02	SN54LS02J	MOTA	NOR GATE	112-110
152♦	54LS02	SN54LS02J	TII	NOR GATE	112-110
153▼	54LS02	SN54LS02N	MOTA	NOR GATE	113- 1
154♦	54LS02	T54LS02D2	SGSI	NOR GATE	113- 9
155♦	54LS03	54LS03DM	FSC	NAND GATE	95- 53
156♦	54LS03	*54LS03FM	FSC	NAND GATE	98- 71
157♦	54LS03	DM54LS03J	NSC	NAND GATE	95-101
158♦	54LS03	S54LS03F	MULB	NAND GATE	97- 24
159♦	54LS03	S54LS03F	PHIN	NAND GATE	97- 24
160♦	54LS03	S54LS03F	RTCF	NAND GATE	97- 24
161♦	54LS03	S54LS03F	VALG	NAND GATE	97- 24
162♦	54LS03	*S54LS03W	MULB	NAND GATE	99- 65
163♦	54LS03	*S54LS03W	PHIN	NAND GATE	99- 65
164♦	54LS03	*S54LS03W	RTCF	NAND GATE	99- 65
165♦	54LS03	*S54LS03W	VALG	NAND GATE	99- 65
166♦	54LS03	SN54LS03J	MOTA	NAND GATE	97- 66
167♦	54LS03	SN54LS03J	TII	NAND GATE	97- 66
168▼	54LS03	SN54LS03N	MOTA	NAND GATE	97- 67
169♦	54LS03	T54LS03D2	SGSI	NAND GATE	97- 89
170♦	54LS08	54LS08DM	FSC	AND GATE	76- 8
171♦	54LS08	*54LS08FM	FSC	AND GATE	77- 42
172♦	54LS08	DM54LS08J	NSC	AND GATE	76- 25
173♦	54LS08	S54LS08F	MULB	AND GATE	76- 88
174♦	54LS08	S54LS08F	PHIN	AND GATE	76- 88
175♦	54LS08	S54LS08F	RTCF	AND GATE	76- 88
176♦	54LS08	S54LS08F	SIC	AND GATE	76- 88
177♦	54LS08	S54LS08F	VALG	AND GATE	76- 88
178♦	54LS08	*S54LS08G	MULB	AND GATE	76- 89
179♦	54LS08	*S54LS08G	PHIN	AND GATE	76- 89
180♦	54LS08	*S54LS08G	RTCF	AND GATE	76- 89
181♦	54LS08	*S54LS08G	SIC	AND GATE	76- 89
182♦	54LS08	*S54LS08G	VALG	AND GATE	76- 89
183♦	54LS08	*S54LS08W	MULB	AND GATE	77- 92
184♦	54LS08	*S54LS08W	PHIN	AND GATE	77- 92
185♦	54LS08	*S54LS08W	RTCF	AND GATE	77- 92
186♦	54LS08	*S54LS08W	SIC	AND GATE	77- 92
187♦	54LS08	*S54LS08W	VALG	AND GATE	77- 92
188♦	54LS08	SN54LS08J	MOTA	AND GATE	76- 99
189♦	54LS08	SN54LS08J	TII	AND GATE	76- 99
190▼	54LS08	SN54LS08N	MOTA	AND GATE	76-100
191♦	54LS08	T54LS08D2	SGSI	AND GATE	76-110
192♦	54LS09	*54LS09FM	FSC	AND GATE	77- 60
193♦	54LS09	DM54LS09J	NSC	AND GATE	77-107
194♦	54LS09	S54LS09F	MULB	AND GATE	78- 36
195♦	54LS09	S54LS09F	PHIN	AND GATE	78- 36
196♦	54LS09	S54LS09F	RTCF	AND GATE	78- 36
197♦	54LS09	S54LS09F	VALG	AND GATE	78- 36
198♦	54LS09	*S54LS09W	MULB	AND GATE	78- 37
199♦	54LS09	*S54LS09W	PHIN	AND GATE	78- 37
200♦	54LS09	*S54LS09W	RTCF	AND GATE	78- 37
201♦	54LS09	*S54LS09W	VALG	AND GATE	78- 37
202♦	54LS09	SN54LS09J	MOTA	AND GATE	78- 38
203♦	54LS09	SN54LS09J	TII	AND GATE	78- 38
204▼	54LS09	SN54LS09N	MOTA	AND GATE	78- 39
205♦	54LS09	T54LS09D2	SGSI	AND GATE	77- 62
206♦	54LS10	54LS10DM	FSC	NAND GATE	101- 19
207♦	54LS10	*54LS10FM	FSC	NAND GATE	102- 51
208♦	54LS10	DM54LS10J	NSC	NAND GATE	102- 96
209♦	54LS10	S54LS10F	MULB	NAND GATE	101-110
210♦	54LS10	S54LS10F	PHIN	NAND GATE	101-110
211♦	54LS10	S54LS10F	RTCF	NAND GATE	101-110
212♦	54LS10	S54LS10F	SIC	NAND GATE	101-110
213♦	54LS10	S54LS10F	VALG	NAND GATE	101-110
214♦	54LS10	*S54LS10G	MULB	NAND GATE	102-102
215♦	54LS10	*S54LS10G	PHIN	NAND GATE	102-102
216♦	54LS10	*S54LS10G	RTCF	NAND GATE	102-102
217♦	54LS10	*S54LS10G	SIC	NAND GATE	102-102
218♦	54LS10	*S54LS10G	VALG	NAND GATE	102-102
219♦	54LS10	*S54LS10W	MULB	NAND GATE	102-103
220♦	54LS10	*S54LS10W	PHIN	NAND GATE	102-103

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LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	54LS10	*S54LS10W	RTCF	NAND GATE	102-103
2♦	54LS10	*S54LS10W	SIC	NAND GATE	102-103
3♦	54LS10	*S54LS10W	VALG	NAND GATE	102-103
4♦	54LS10	SN54LS10J	MOTA	NAND GATE	102- 19
5♦	54LS10	SN54LS10J	TII	NAND GATE	102- 19
6▼	54LS10	SN54LS10N	MOTA	NAND GATE	102- 20
7♦	54LS10	T54LS10D2	SGSI	NAND GATE	102- 36
8♦	54LS11	54LS11DM	FSC	AND GATE	79- 27
9♦	54LS11	*54LS11FM	FSC	AND GATE	80- 45
10♦	54LS11	DM54LS11J	NSC	AND GATE	79- 51
11♦	54LS11	S54LS11F	MULB	AND GATE	80- 1
12♦	54LS11	S54LS11F	PHIN	AND GATE	80- 1
13♦	54LS11	S54LS11F	RTCF	AND GATE	80- 1
14♦	54LS11	S54LS11F	VALG	AND GATE	80- 1
15♦	54LS11	*S54LS11W	MULB	AND GATE	80- 65
16♦	54LS11	*S54LS11W	PHIN	AND GATE	80- 65
17♦	54LS11	*S54LS11W	RTCF	AND GATE	80- 65
18♦	54LS11	*S54LS11W	VALG	AND GATE	80- 65
19♦	54LS11	SN54LS11J	MOTA	AND GATE	80- 8
20♦	54LS11	SN54LS11J	TII	AND GATE	80- 8
21▼	54LS11	SN54LS11N	MOTA	AND GATE	80- 9
22♦	54LS11	T54LS11D2	SGSI	AND GATE	80- 25
23♦	54LS12	DM54LS12J	NSC	NAND GATE	101- 45
24♦	54LS12	S54LS12F	MULB	NAND GATE	102- 1
25♦	54LS12	S54LS12F	PHIN	NAND GATE	102- 1
26♦	54LS12	S54LS12F	VALG	NAND GATE	102- 1
27♦	54LS12	*S54LS12W	MULB	NAND GATE	103- 25
28♦	54LS12	*S54LS12W	PHIN	NAND GATE	103- 25
29♦	54LS12	*S54LS12W	VALG	NAND GATE	103- 25
30♦	54LS12	SN54LS12J	MOTA	NAND GATE	102- 21
31♦	54LS12	SN54LS12J	TII	NAND GATE	102- 21
32▼	54LS12	SN54LS12N	MOTA	NAND GATE	102- 22
33♦	54LS15	*54LS15FM	FSC	AND GATE	80- 56
34♦	54LS15	DM54LS15J	NSC	AND GATE	79- 52
35♦	54LS15	S54LS15F	MULB	AND GATE	80- 2
36♦	54LS15	S54LS15F	PHIN	AND GATE	80- 2
37♦	54LS15	S54LS15F	VALG	AND GATE	80- 2
38♦	54LS15	*S54LS15W	MULB	AND GATE	80- 90
39♦	54LS15	*S54LS15W	PHIN	AND GATE	80- 90
40♦	54LS15	*S54LS15W	VALG	AND GATE	80- 90
41♦	54LS15	SN54LS15J	MOTA	AND GATE	80- 10
42♦	54LS15	SN54LS15J	TII	AND GATE	80- 10
43▼	54LS15	SN54LS15N	MOTA	AND GATE	80- 11
44♦	54LS15	T54LS15D2	SGSI	AND GATE	80- 26
45♦	54LS20	54LS20DM	FSC	NAND GATE	104- 35
46♦	54LS20	DM54LS20J	NSC	NAND GATE	104- 76
47♦	54LS20	S54LS20F	MULB	NAND GATE	106- 92
48♦	54LS20	S54LS20F	PHIN	NAND GATE	106- 92
49♦	54LS20	S54LS20F	RTCF	NAND GATE	106- 92
50♦	54LS20	S54LS20F	SIC	NAND GATE	106- 92
51♦	54LS20	S54LS20F	VALG	NAND GATE	106- 92
52♦	54LS20	*S54LS20G	MULB	NAND GATE	106- 93
53♦	54LS20	*S54LS20G	PHIN	NAND GATE	106- 93
54♦	54LS20	*S54LS20G	RTCF	NAND GATE	106- 93
55♦	54LS20	*S54LS20G	SIC	NAND GATE	106- 93
56♦	54LS20	*S54LS20G	VALG	NAND GATE	106- 93
57♦	54LS20	*S54LS20W	MULB	NAND GATE	106- 94
58♦	54LS20	*S54LS20W	PHIN	NAND GATE	106- 94
59♦	54LS20	*S54LS20W	RTCF	NAND GATE	106- 94
60♦	54LS20	*S54LS20W	SIC	NAND GATE	106- 94
61♦	54LS20	*S54LS20W	VALG	NAND GATE	106- 94
62♦	54LS20	SN54LS20J	MOTA	NAND GATE	106- 98
63♦	54LS20	SN54LS20J	TII	NAND GATE	106- 98
64▼	54LS20	SN54LS20N	MOTA	NAND GATE	106- 99
65♦	54LS20	T54LS20D2	SGSI	NAND GATE	106- 18
66♦	54LS21	54LS21DM	FSC	AND GATE	82- 13
67♦	54LS21	*54LS21FM	FSC	AND GATE	82- 14
68♦	54LS21	DM54LS21J	NSC	AND GATE	82- 56
69♦	54LS21	S54LS21F	MULB	AND GATE	82- 72
70♦	54LS21	S54LS21F	PHIN	AND GATE	82- 72
71♦	54LS21	S54LS21F	RTCF	AND GATE	82- 72
72♦	54LS21	S54LS21F	VALG	AND GATE	82- 72
73♦	54LS21	*S54LS21W	MULB	AND GATE	82- 73
74♦	54LS21	*S54LS21W	PHIN	AND GATE	82- 73
75♦	54LS21	*S54LS21W	RTCF	AND GATE	82- 73
76♦	54LS21	*S54LS21W	VALG	AND GATE	82- 73
77♦	54LS21	SN54LS21J	MOTA	AND GATE	82- 74
78♦	54LS21	SN54LS21J	TII	AND GATE	82- 74
79▼	54LS21	SN54LS21N	MOTA	AND GATE	82- 75
80♦	54LS21	T54LS21D2	SGSI	AND GATE	79- 8
81♦	54LS22	*54LS22FM	FSC	NAND GATE	106- 78
82♦	54LS22	DM54LS22J	NSC	NAND GATE	104- 77
83♦	54LS22	S54LS22F	MULB	NAND GATE	105- 31
84♦	54LS22	S54LS22F	PHIN	NAND GATE	105- 31
85♦	54LS22	S54LS22F	VALG	NAND GATE	105- 31
86♦	54LS22	*S54LS22W	MULB	NAND GATE	107- 36
87♦	54LS22	*S54LS22W	PHIN	NAND GATE	107- 36
88♦	54LS22	*S54LS22W	VALG	NAND GATE	107- 36
89♦	54LS22	SN54LS22J	MOTA	NAND GATE	105- 41
90♦	54LS22	SN54LS22J	TII	NAND GATE	105- 41
91▼	54LS22	SN54LS22N	MOTA	NAND GATE	105- 42
92♦	54LS22	*SN54LS22W	TII	NAND GATE	107- 37
93♦	54LS22	T54LS22D2	SGSI	NAND GATE	105- 50
94♦	54LS26	54LS26DM	FSC	NAND GATE	95- 54
95♦	54LS26	*54LS26FM	FSC	NAND GATE	98-101
96♦	54LS26	DM54LS26J	NSC	NAND GATE	95-102
97♦	54LS26	S54LS26F	MULB	NAND GATE	97- 25
98♦	54LS26	S54LS26F	PHIN	NAND GATE	97- 25
99♦	54LS26	S54LS26F	RTCF	NAND GATE	97- 25
100♦	54LS26	S54LS26F	VALG	NAND GATE	97- 25
101♦	54LS26	*S54LS26W	MULB	NAND GATE	99- 66
102♦	54LS26	*S54LS26W	PHIN	NAND GATE	99- 66
103♦	54LS26	*S54LS26W	RTCF	NAND GATE	99- 66
104♦	54LS26	*S54LS26W	VALG	NAND GATE	99- 66
105♦	54LS26	T54LS26D2	SGSI	NAND GATE	97- 90
106♦	54LS27	54LS27DM	FSC	NOR GATE	115- 58
107♦	54LS27	*54LS27FM	FSC	NOR GATE	116- 10
108♦	54LS27	DM54LS27J	NSC	NOR GATE	115- 66
109♦	54LS27	S54LS27F	MULB	NOR GATE	115-101
110♦	54LS27	S54LS27F	PHIN	NOR GATE	115-101
111♦	54LS27	S54LS27F	VALG	NOR GATE	115-101
112♦	54LS27	*S54LS27W	MULB	NOR GATE	116- 21
113♦	54LS27	*S54LS27W	PHIN	NOR GATE	116- 21
114♦	54LS27	*S54LS27W	VALG	NOR GATE	116- 21
115♦	54LS27	SN54LS27J	MOTA	NOR GATE	115-105
116♦	54LS27	SN54LS27J	TII	NOR GATE	115-105
117▼	54LS27	SN54LS27N	MOTA	NOR GATE	115-106
118♦	54LS27	T54LS27D2	SGSI	NOR GATE	116- 1
119♦	54LS30	54LS30DM	FSC	NAND GATE	109- 38
120♦	54LS30	*54LS30FM	FSC	NAND GATE	109- 39
121♦	54LS30	DM54LS30J	NSC	NAND GATE	109-108
122♦	54LS30	S54LS30F	MULB	NAND GATE	110- 9
123♦	54LS30	S54LS30F	PHIN	NAND GATE	110- 9
124♦	54LS30	S54LS30F	RTCF	NAND GATE	110- 9
125♦	54LS30	S54LS30F	SIC	NAND GATE	110- 9
126♦	54LS30	S54LS30F	VALG	NAND GATE	110- 9
127♦	54LS30	*S54LS30W	MULB	NAND GATE	110- 10
128♦	54LS30	*S54LS30W	PHIN	NAND GATE	110- 10
129♦	54LS30	*S54LS30W	RTCF	NAND GATE	110- 10
130♦	54LS30	*S54LS30W	SIC	NAND GATE	110- 10
131♦	54LS30	*S54LS30W	VALG	NAND GATE	110- 10
132♦	54LS30	SN54LS30J	MOTA	NAND GATE	110- 11
133♦	54LS30	SN54LS30J	TII	NAND GATE	110- 11
134▼	54LS30	SN54LS30N	MOTA	NAND GATE	110- 12
135♦	54LS30	T54LS30D2	SGSI	NAND GATE	109- 42
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137♦	54LS32	*54LS32FM	FSC	OR GATE	121- 39
138♦	54LS32	DM54LS32J	NSC	OR GATE	120- 20
139♦	54LS32	S54LS32F	MULB	OR GATE	120- 73
140♦	54LS32	S54LS32F	PHIN	OR GATE	120- 73
141♦	54LS32	S54LS32F	RTCF	OR GATE	120- 73
142♦	54LS32	S54LS32F	SIC	OR GATE	120- 73
143♦	54LS32	S54LS32F	VALG	OR GATE	120- 73
144♦	54LS32	*S54LS32G	MULB	OR GATE	121- 72
145♦	54LS32	*S54LS32G	PHIN	OR GATE	121- 72
146♦	54LS32	*S54LS32G	RTCF	OR GATE	121- 72
147♦	54LS32	*S54LS32G	SIC	OR GATE	121- 72
148♦	54LS32	*S54LS32G	VALG	OR GATE	121- 72
149♦	54LS32	*S54LS32W	MULB	OR GATE	121- 73
150♦	54LS32	*S54LS32W	PHIN	OR GATE	121- 73
151♦	54LS32	*S54LS32W	RTCF	OR GATE	121- 73
152♦	54LS32	*S54LS32W	SIC	OR GATE	121- 73
153♦	54LS32	*S54LS32W	VALG	OR GATE	121- 73
154♦	54LS32	SN54LS32J	MOTA	OR GATE	120- 76
155♦	54LS32	SN54LS32J	TII	OR GATE	120- 76
156▼	54LS32	SN54LS32N	MOTA	OR GATE	120- 77
157♦	54LS32	T54LS32D2	SGSI	OR GATE	120- 86
158♦	54LS33	*54LS33FM	FSC	NOR GATE	113- 98
159♦	54LS42	54LS42DM	FSC	DECODER	126- 27
160	54LS42	*54LS42FM	FSC	DECODER	126- 28
161♦	54LS42	DM54LS42AJ	NSC	DECODER	126- 75
162♦	54LS42	S54LS42F(2)	MULB	DECODER	127- 59
163♦	54LS42	S54LS42F(2)	PHIN	DECODER	127- 59
164♦	54LS42	S54LS42F(2)	RTCF	DECODER	127- 59
165♦	54LS42	S54LS42F(2)	SIC	DECODER	127- 59
166♦	54LS42	S54LS42F(2)	VALG	DECODER	127- 59
167	54LS42	*S54LS42G	MULB	DECODER	127- 60
168	54LS42	*S54LS42G	PHIN	DECODER	127- 60
169	54LS42	*S54LS42G	RTCF	DECODER	127- 60
170	54LS42	*S54LS42G	SIC	DECODER	127- 60
171	54LS42	*S54LS42G	VALG	DECODER	127- 60
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173	54LS42	*S54LS42W(2)	PHIN	DECODER	127- 61
174	54LS42	*S54LS42W(2)	RTCF	DECODER	127- 61
175	54LS42	*S54LS42W(2)	SIC	DECODER	127- 61
176	54LS42	*S54LS42W(2)	VALG	DECODER	127- 61
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178♦	54LS51	*54LS51FM	FSC	AND-OR-INV	88- 64
179♦	54LS51	DM54LS51J	NSC	AND-OR-INV	88- 92
180♦	54LS51	S54LS51F	MULB	AND-OR-INV	85- 35
181♦	54LS51	S54LS51F	PHIN	AND-OR-INV	85- 35
182♦	54LS51	S54LS51F	RTCF	AND-OR-INV	85- 35
183♦	54LS51	S54LS51F	SIC	AND-OR-INV	85- 35
184♦	54LS51	S54LS51F	VALG	AND-OR-INV	85- 35
185♦	54LS51	*S54LS51W	MULB	AND-OR-INV	88- 76
186♦	54LS51	*S54LS51W	PHIN	AND-OR-INV	88- 76
187♦	54LS51	*S54LS51W	RTCF	AND-OR-INV	88- 76
188♦	54LS51	*S54LS51W	SIC	AND-OR-INV	88- 76
189♦	54LS51	*S54LS51W	VALG	AND-OR-INV	88- 76
190♦	54LS51	SN54LS51J	MOTA	AND-OR-INV	88- 77
191♦	54LS51	SN54LS51J	TII	AND-OR-INV	88- 77
192▼	54LS51	SN54LS51N	MOTA	AND-OR-INV	88- 78
193♦	54LS51	*SN54LS51W	TII	AND-OR-INV	88- 79
194♦	54LS51	T54LS51D2	SGSI	AND-OR-INV	88- 86
195♦	54LS54	54LS54DM	FSC	AND-OR-INV	88- 3
196♦	54LS54	*54LS54FM	FSC	AND-OR-INV	87- 93
197♦	54LS54	DM54LS54J	NSC	AND-OR-INV	88- 19
198♦	54LS54	S54LS54F	MULB	AND-OR-INV	88- 17
199♦	54LS54	S54LS54F	PHIN	AND-OR-INV	88- 17
200♦	54LS54	S54LS54F	RTCF	AND-OR-INV	88- 17
201♦	54LS54	S54LS54F	VALG	AND-OR-INV	88- 17
202♦	54LS54	*S54LS54W	MULB	AND-OR-INV	87-107
203♦	54LS54	*S54LS54W	PHIN	AND-OR-INV	87-107
204♦	54LS54	*S54LS54W	RTCF	AND-OR-INV	87-107
205♦	54LS54	*S54LS54W	VALG	AND-OR-INV	87-107
206♦	54LS54	*SN54LS54FK	TII	AND-OR-INV	88- 18
207♦	54LS54	SN54LS54J	MOTA	AND-OR-INV	87-108
208♦	54LS54	SN54LS54J	TII	AND-OR-INV	87-108
209▼	54LS54	SN54LS54N	MOTA	AND-OR-INV	87-109
210♦	54LS54	T54LS54D2	SGSI	AND-OR-INV	88- 6
211♦	54LS55	*54LS55FM	FSC	AND-OR-INV	89- 18
212♦	54LS55	DM54LS55J	NSC	AND-OR-INV	89- 69
213♦	54LS55	S54LS55F	MULB	AND-OR-INV	89- 58
214♦	54LS55	S54LS55F	PHIN	AND-OR-INV	89- 58
215♦	54LS55	S54LS55F	VALG	AND-OR-INV	89- 58
216♦	54LS55	*S54LS55W	MULB	AND-OR-INV	89- 59
217♦	54LS55	*S54LS55W	PHIN	AND-OR-INV	89- 59
218♦	54LS55	*S54LS55W	VALG	AND-OR-INV	89- 59
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3♦	54LS73	S54LS73F	MULB	JK FL-FLOP	70-104
4♦	54LS73	S54LS73F	PHIN	JK FL-FLOP	70-104
5♦	54LS73	S54LS73F	RTCF	JK FL-FLOP	70-104
6♦	54LS73	S54LS73F	SIC	JK FL-FLOP	70-104
7♦	54LS73	S54LS73F	VALG	JK FL-FLOP	70-104
8	54LS73	*S54LS73W	MULB	JK FL-FLOP	70-105
9	54LS73	*S54LS73W	PHIN	JK FL-FLOP	70-105
10	54LS73	*S54LS73W	RTCF	JK FL-FLOP	70-105
11	54LS73	*S54LS73W	SIC	JK FL-FLOP	70-105
12	54LS73	*S54LS73W	VALG	JK FL-FLOP	70-105
13♦	54LS73	SN54LS73AJ	MOTA	JK FL-FLOP	72- 27
14♦	54LS73	SN54LS73AJ	TII	JK FL-FLOP	72- 27
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20♦	54LS74	S54LS74AF	PHIN	D FL-FLOP	51- 73
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30	54LS74	*S54LS74AW	PHIN	D FL-FLOP	51- 75
31	54LS74	*S54LS74AW	RTCF	D FL-FLOP	51- 75
32	54LS74	*S54LS74AW	SIC	D FL-FLOP	51- 75
33	54LS74	*S54LS74AW	VALG	D FL-FLOP	51- 75
34♦	54LS74	S54LS74F	MULB	D FL-FLOP	51- 76
35♦	54LS74	S54LS74F	PHIN	D FL-FLOP	51- 76
36♦	54LS74	S54LS74F	RTCF	D FL-FLOP	51- 76
37♦	54LS74	S54LS74F	SIC	D FL-FLOP	51- 76
38♦	54LS74	S54LS74F	VALG	D FL-FLOP	51- 76
39	54LS74	*S54LS74W	MULB	D FL-FLOP	51- 77
40	54LS74	*S54LS74W	PHIN	D FL-FLOP	51- 77
41	54LS74	*S54LS74W	RTCF	D FL-FLOP	51- 77
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43	54LS74	*S54LS74W	VALG	D FL-FLOP	51- 77
44♦	54LS74	SN54LS74AJ	MOTA	D FL-FLOP	52- 10
45♦	54LS74	SN54LS74AJ	TII	D FL-FLOP	52- 10
46▼	54LS74	SN54LS74AN	MOTA	D FL-FLOP	52- 11
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50♦	54LS75	S54LS75F	PHIN	2-BIT LCH	229- 75
51♦	54LS75	S54LS75F	RTCF	2-BIT LCH	229- 75
52♦	54LS75	S54LS75F	SIC	2-BIT LCH	229- 75
53♦	54LS75	S54LS75F	VALG	2-BIT LCH	229- 75
54♦	54LS75	*S54LS75W	MULB	2-BIT LCH	229- 76
55♦	54LS75	*S54LS75W	PHIN	2-BIT LCH	229- 76
56♦	54LS75	*S54LS75W	RTCF	2-BIT LCH	229- 76
57♦	54LS75	*S54LS75W	SIC	2-BIT LCH	229- 76
58♦	54LS75	*S54LS75W	VALG	2-BIT LCH	229- 76
59♦	54LS75	SN54LS75J	MOTA	4-BIT LCH	231- 50
60♦	54LS75	SN54LS75J	TII	4-BIT LCH	231- 50
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63	54LS76	*54LS76FM	FSC	JK FL-FLOP	70- 21
64♦	54LS76	DM54LS76AJ	NSC	JK FL-FLOP	71-103
65♦	54LS76	S54LS76F	MULB	JK FL-FLOP	70-106
66♦	54LS76	S54LS76F	PHIN	JK FL-FLOP	70-106
67♦	54LS76	S54LS76F	RTCF	JK FL-FLOP	70-106
68♦	54LS76	S54LS76F	SIC	JK FL-FLOP	70-106
69♦	54LS76	S54LS76F	VALG	JK FL-FLOP	70-106
70	54LS76	*S54LS76W	MULB	JK FL-FLOP	70-107
71	54LS76	*S54LS76W	PHIN	JK FL-FLOP	70-107
72	54LS76	*S54LS76W	RTCF	JK FL-FLOP	70-107
73	54LS76	*S54LS76W	SIC	JK FL-FLOP	70-107
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76♦	54LS76	SN54LS76AJ	TII	JK FL-FLOP	72- 29
77▼	54LS76	SN54LS76AN	MOTA	JK FL-FLOP	72- 30
78	54LS77	*DM54LS77W	NSC	4-BIT LCH	231- 25
79	54LS77	*S54LS77W	MULB	2-BIT LCH	229- 77
80	54LS77	*S54LS77W	PHIN	2-BIT LCH	229- 77
81	54LS77	*S54LS77W	SIC	2-BIT LCH	229- 77
82	54LS77	*S54LS77W	VALG	2-BIT LCH	229- 77
83♦	54LS77	SN54LS77J	MOTA	4-BIT LCH	231- 52
84♦	54LS77	SN54LS77J	TII	4-BIT LCH	231- 52
85▼	54LS77	SN54LS77N	MOTA	4-BIT LCH	231- 53
86♦	54LS78	54LS78DM	FSC	JK FL-FLOP	70- 22
87	54LS78	*54LS78FM	FSC	JK FL-FLOP	70- 23
88♦	54LS78	DM54LS78AJ	NSC	JK FL-FLOP	71-104
89♦	54LS78	S54LS78F	MULB	JK FL-FLOP	70-108
90♦	54LS78	S54LS78F	PHIN	JK FL-FLOP	70-108
91♦	54LS78	S54LS78F	VALG	JK FL-FLOP	70-108
92	54LS78	*S54LS78W	MULB	JK FL-FLOP	70-109
93	54LS78	*S54LS78W	PHIN	JK FL-FLOP	70-109
94	54LS78	*S54LS78W	VALG	JK FL-FLOP	70-109
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96♦	54LS78	SN54LS78AJ	TII	JK FL-FLOP	72- 31
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103♦	54LS83	S54LS83AF	PHIN	ADDER	200- 30
104♦	54LS83	S54LS83AF	RTCF	ADDER	200- 30
105♦	54LS83	S54LS83AF	SIC	ADDER	200- 30
106♦	54LS83	S54LS83AF	VALG	ADDER	200- 30
107	54LS83	*S54LS83AW	MULB	ADDER	200- 31
108	54LS83	*S54LS83AW	PHIN	ADDER	200- 31
109	54LS83	*S54LS83AW	RTCF	ADDER	200- 31
110	54LS83	*S54LS83AW	SIC	ADDER	200- 31
111	54LS83	*S54LS83AW	VALG	ADDER	200- 31
112♦	54LS83	S54LS83F	MULB	ADDER	200- 32
113♦	54LS83	S54LS83F	PHIN	ADDER	200- 32
114♦	54LS83	S54LS83F	SIC	ADDER	200- 32
115	54LS83	*S54LS83W	MULB	ADDER	200- 33
116	54LS83	*S54LS83W	PHIN	ADDER	200- 33
117	54LS83	*S54LS83W	SIC	ADDER	200- 33
118♦	54LS83	SN54LS83AJ	MOTA	ADDER	200- 39
119♦	54LS83	SN54LS83AJ	TII	ADDER	200- 39
120▼	54LS83	SN54LS83AN	MOTA	ADDER	200- 40
121♦	54LS83	T54LS83D2	SGSI	ADDER	200- 53
122♦	54LS85	54LS85DM	FSC	MAGN COMP	216- 94
123	54LS85	*54LS85FM	FSC	MAGN COMP	216- 95
124♦	54LS85	DM54LS85J	NSC	MAGN COMP	216-109
125	54LS85	*DM54LS85W	NSC	MAGN COMP	216- 73
126♦	54LS85	S54LS85F	MULB	MAGN COMP	217- 11
127♦	54LS85	S54LS85F	PHIN	MAGN COMP	217- 11
128♦	54LS85	S54LS85F	RTCF	MAGN COMP	217- 11
129♦	54LS85	S54LS85F	SIC	MAGN COMP	217- 11
130♦	54LS85	S54LS85F	VALG	MAGN COMP	217- 11
131	54LS85	*S54LS85G	MULB	MAGN COMP	217- 12
132	54LS85	*S54LS85G	PHIN	MAGN COMP	217- 12
133	54LS85	*S54LS85G	RTCF	MAGN COMP	217- 12
134	54LS85	*S54LS85G	SIC	MAGN COMP	217- 12
135	54LS85	*S54LS85G	VALG	MAGN COMP	217- 12
136	54LS85	*S54LS85W	MULB	MAGN COMP	217- 13
137	54LS85	*S54LS85W	PHIN	MAGN COMP	217- 13
138	54LS85	*S54LS85W	RTCF	MAGN COMP	217- 13
139	54LS85	*S54LS85W	SIC	MAGN COMP	217- 13
140	54LS85	*S54LS85W	VALG	MAGN COMP	217- 13
141♦	54LS85	SN54LS85J	MOTA	MAGN COMP	217- 14
142♦	54LS85	SN54LS85J	TII	MAGN COMP	217- 14
143▼	54LS85	SN54LS85N	MOTA	MAGN COMP	217- 15
144♦	54LS86	DM54LS86J	NSC	EX-OR GATE	91- 88
145♦	54LS86	S54LS86F	MULB	EX-OR GATE	93- 99
146♦	54LS86	S54LS86F	PHIN	EX-OR GATE	93- 99
147♦	54LS86	S54LS86F	RTCF	EX-OR GATE	93- 99
148♦	54LS86	S54LS86F	SIC	EX-OR GATE	93- 99
149♦	54LS86	S54LS86F	VALG	EX-OR GATE	93- 99
150♦	54LS86	*S54LS86G	MULB	EX-OR GATE	93-100
151♦	54LS86	*S54LS86G	PHIN	EX-OR GATE	93-100
152♦	54LS86	*S54LS86G	RTCF	EX-OR GATE	93-100
153♦	54LS86	*S54LS86G	SIC	EX-OR GATE	93-100
154♦	54LS86	*S54LS86G	VALG	EX-OR GATE	93-100
155♦	54LS86	*S54LS86W	MULB	EX-OR GATE	93-101
156♦	54LS86	*S54LS86W	PHIN	EX-OR GATE	93-101
157♦	54LS86	*S54LS86W	RTCF	EX-OR GATE	93-101
158♦	54LS86	*S54LS86W	SIC	EX-OR GATE	93-101
159♦	54LS86	*S54LS86W	VALG	EX-OR GATE	93-101
160♦	54LS86	*SN54LS86AJ	TII	EX-OR GATE	92- 77
161♦	54LS86	SN54LS86J	MOTA	EX-OR GATE	93-108
162♦	54LS86	T54LS86D2	SGSI	EX-OR GATE	93- 57
163♦	54LS90	*54LS90FM	FSC	DEC CNTR	174-103
164♦	54LS90	DM54LS90J	NSC	DEC CNTR	175- 80
165♦	54LS90	*DM54LS90W	NSC	DEC CNTR	175- 81
166♦	54LS90	S54LS90F	MULB	DEC CNTR	175- 17
167♦	54LS90	S54LS90F	PHIN	DEC CNTR	175- 17
168♦	54LS90	S54LS90F	RTCF	DEC CNTR	175- 17
169♦	54LS90	S54LS90F	SIC	DEC CNTR	175- 17
170♦	54LS90	S54LS90F	VALG	DEC CNTR	175- 17
171♦	54LS90	*S54LS90W	MULB	DEC CNTR	175- 18
172♦	54LS90	*S54LS90W	PHIN	DEC CNTR	175- 18
173♦	54LS90	*S54LS90W	RTCF	DEC CNTR	175- 18
174♦	54LS90	*S54LS90W	SIC	DEC CNTR	175- 18
175♦	54LS90	*S54LS90W	VALG	DEC CNTR	175- 18
176♦	54LS90	SN54LS90J	MOTA	DEC CNTR	175- 92
177♦	54LS90	SN54LS90J	TII	DEC CNTR	175- 92
178▼	54LS90	SN54LS90N	MOTA	DEC CNTR	175- 93
179♦	54LS92	*54LS92FM	FSC	COUNTER	167- 87
180♦	54LS92	DM54LS92J	NSC	COUNTER	167- 99
181♦	54LS92	*DM54LS92W	NSC	COUNTER	167-100
182♦	54LS92	S54LS92F	MULB	COUNTER	167- 97
183♦	54LS92	S54LS92F	PHIN	COUNTER	167- 97
184♦	54LS92	S54LS92F	RTCF	COUNTER	167- 97
185♦	54LS92	S54LS92F	SIC	COUNTER	167- 97
186♦	54LS92	S54LS92F	VALG	COUNTER	167- 97
187♦	54LS92	*S54LS92W	MULB	COUNTER	167- 98
188♦	54LS92	*S54LS92W	PHIN	COUNTER	167- 98
189♦	54LS92	*S54LS92W	RTCF	COUNTER	167- 98
190♦	54LS92	*S54LS92W	SIC	COUNTER	167- 98
191♦	54LS92	*S54LS92W	VALG	COUNTER	167- 98
192♦	54LS92	SN54LS92J	MOTA	COUNTER	167-106
193♦	54LS92	SN54LS92J	TII	COUNTER	167-106
194▼	54LS92	SN54LS92N	MOTA	COUNTER	167-107
195♦	54LS93	54LS93DM	FSC	HEX CNTR	157- 22
196♦	54LS93	*54LS93FM	FSC	HEX CNTR	157- 23
197♦	54LS93	DM54LS93J	NSC	HEX CNTR	158- 2
198♦	54LS93	*DM54LS93W	NSC	HEX CNTR	158- 3
199♦	54LS93	S54LS93F	MULB	HEX CNTR	157- 55
200♦	54LS93	S54LS93F	PHIN	HEX CNTR	157- 55
201♦	54LS93	S54LS93F	RTCF	HEX CNTR	157- 55
202♦	54LS93	S54LS93F	SIC	HEX CNTR	157- 55
203♦	54LS93	S54LS93F	VALG	HEX CNTR	157- 55
204♦	54LS93	*S54LS93W	MULB	HEX CNTR	157- 56
205♦	54LS93	*S54LS93W	PHIN	HEX CNTR	157- 56
206♦	54LS93	*S54LS93W	RTCF	HEX CNTR	157- 56
207♦	54LS93	*S54LS93W	SIC	HEX CNTR	157- 56
208♦	54LS93	*S54LS93W	VALG	HEX CNTR	157- 56
209♦	54LS93	SN54LS93J	MOTA	HEX CNTR	158- 16
210♦	54LS93	SN54LS93J	TII	HEX CNTR	158- 16
211▼	54LS93	SN54LS93N	MOTA	HEX CNTR	158- 17
212♦	54LS107	54LS107DM	FSC	JK FL-FLOP	70- 24
213	54LS107	*54LS107FM	FSC	JK FL-FLOP	70- 25
214♦	54LS107	DM54LS107AJ	NSC	JK FL-FLOP	71-105
215♦	54LS107	S54LS107F	MULB	JK FL-FLOP	70-110
216♦	54LS107	S54LS107F	PHIN	JK FL-FLOP	70-110
217♦	54LS107	S54LS107F	RTCF	JK FL-FLOP	70-110
218♦	54LS107	S54LS107F	SIC	JK FL-FLOP	70-110
219♦	54LS107	S54LS107F	VALG	JK FL-FLOP	70-110
220	54LS107	*S54LS107W	MULB	JK FL-FLOP	71- 1

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LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1	54LS107	*S54LS107W	PHIN	JK FL-FLOP	71- 1
2	54LS107	*S54LS107W	RTCF	JK FL-FLOP	71- 1
3	54LS107	*S54LS107W	SIC	JK FL-FLOP	71- 1
4	54LS107	*S54LS107W	VALG	JK FL-FLOP	71- 1
5♦	54LS107	SN54LS107AJ	MOTA	JK FL-FLOP	72- 33
6♦	54LS107	SN54LS107AJ	TII	JK FL-FLOP	72- 33
7▼	54LS107	SN54LS107AN	MOTA	JK FL-FLOP	72- 34
8♦	54LS109	54LS109DM	FSC	JK FL-FLOP	71- 90
9♦	54LS109	*54LS109FM	FSC	JK FL-FLOP	71- 91
10♦	54LS109	DM54LS109AJ	NSC	JK FL-FLOP	71- 29
11♦	54LS109	S54LS109AF	MULB	JK FL-FLOP	69- 86
12♦	54LS109	S54LS109AF	PHIN	JK FL-FLOP	69- 86
13♦	54LS109	S54LS109AF	RTCF	JK FL-FLOP	69- 86
14♦	54LS109	S54LS109AF	VALG	JK FL-FLOP	69- 86
15	54LS109	*S54LS109AW	MULB	JK FL-FLOP	69- 87
16	54LS109	*S54LS109AW	PHIN	JK FL-FLOP	69- 87
17	54LS109	*S54LS109AW	RTCF	JK FL-FLOP	69- 87
18	54LS109	*S54LS109AW	SIC	JK FL-FLOP	69- 87
19	54LS109	*S54LS109AW	VALG	JK FL-FLOP	69- 87
20♦	54LS109	S54LS109F	MULB	JK FL-FLOP	69- 88
21♦	54LS109	S54LS109F	PHIN	JK FL-FLOP	69- 88
22♦	54LS109	S54LS109F	SIC	JK FL-FLOP	69- 88
23♦	54LS109	S54LS109F	VALG	JK FL-FLOP	69- 88
24	54LS109	*S54LS109G	MULB	JK FL-FLOP	69- 89
25	54LS109	*S54LS109G	PHIN	JK FL-FLOP	69- 89
26	54LS109	*S54LS109G	RTCF	JK FL-FLOP	69- 89
27	54LS109	*S54LS109G	SIC	JK FL-FLOP	69- 89
28	54LS109	*S54LS109G	VALG	JK FL-FLOP	69- 89
29	54LS109	*S54LS109W	MULB	JK FL-FLOP	69- 90
30	54LS109	*S54LS109W	PHIN	JK FL-FLOP	69- 90
31	54LS109	*S54LS109W	SIC	JK FL-FLOP	69- 90
32	54LS109	*S54LS109W	VALG	JK FL-FLOP	69- 90
33♦	54LS109	SN54LS109AJ	MOTA	JK FL-FLOP	71- 34
34♦	54LS109	SN54LS109AJ	TII	JK FL-FLOP	71- 34
35▼	54LS109	SN54LS109AN	MOTA	JK FL-FLOP	71- 35
36♦	54LS109	T54LS109D2	SGSI	JK FL-FLOP	67- 8
37♦	54LS112	54LS112DM	FSC	JK FL-FLOP	71- 92
38♦	54LS112	*54LS112FM	FSC	JK FL-FLOP	71- 93
39♦	54LS112	DM54LS112AJ	NSC	JK FL-FLOP	71-106
40♦	54LS112	S54LS112F	MULB	JK FL-FLOP	71- 2
41♦	54LS112	S54LS112F	PHIN	JK FL-FLOP	71- 2
42♦	54LS112	S54LS112F	RTCF	JK FL-FLOP	71- 2
43♦	54LS112	S54LS112F	SIC	JK FL-FLOP	71- 2
44♦	54LS112	S54LS112F	VALG	JK FL-FLOP	71- 2
45	54LS112	*S54LS112G	MULB	JK FL-FLOP	71- 3
46	54LS112	*S54LS112G	PHIN	JK FL-FLOP	71- 3
47	54LS112	*S54LS112G	RTCF	JK FL-FLOP	71- 3
48	54LS112	*S54LS112G	SIC	JK FL-FLOP	71- 3
49	54LS112	*S54LS112G	VALG	JK FL-FLOP	71- 3
50	54LS112	*S54LS112W	MULB	JK FL-FLOP	71- 4
51	54LS112	*S54LS112W	PHIN	JK FL-FLOP	71- 4
52	54LS112	*S54LS112W	RTCF	JK FL-FLOP	71- 4
53	54LS112	*S54LS112W	SIC	JK FL-FLOP	71- 4
54	54LS112	*S54LS112W	VALG	JK FL-FLOP	71- 4
55♦	54LS112	SN54LS112AJ	MOTA	JK FL-FLOP	72- 35
56▼	54LS112	SN54LS112AN	MOTA	JK FL-FLOP	72- 36
57♦	54LS112	T54LS112D2	SGSI	JK FL-FLOP	67- 9
58♦	54LS113	*54LS113FM	FSC	JK FL-FLOP	71- 94
59♦	54LS113	DM54LS113AJ	NSC	JK FL-FLOP	71-107
60♦	54LS113	S54LS113F	MULB	JK FL-FLOP	71- 5
61♦	54LS113	S54LS113F	PHIN	JK FL-FLOP	71- 5
62♦	54LS113	S54LS113F	RTCF	JK FL-FLOP	71- 5
63♦	54LS113	S54LS113F	SIC	JK FL-FLOP	71- 5
64♦	54LS113	S54LS113F	VALG	JK FL-FLOP	71- 5
65	54LS113	*S54LS113W	MULB	JK FL-FLOP	71- 6
66	54LS113	*S54LS113W	PHIN	JK FL-FLOP	71- 6
67	54LS113	*S54LS113W	RTCF	JK FL-FLOP	71- 6
68	54LS113	*S54LS113W	SIC	JK FL-FLOP	71- 6
69	54LS113	*S54LS113W	VALG	JK FL-FLOP	71- 6
70♦	54LS113	SN54LS113AJ	MOTA	JK FL-FLOP	72- 37
71▼	54LS113	SN54LS113AN	MOTA	JK FL-FLOP	72- 38
72♦	54LS113	T54LS113D2	SGSI	JK FL-FLOP	72- 62
73♦	54LS114	*54LS114FM	FSC	JK FL-FLOP	71- 95
74♦	54LS114	DM54LS114AJ	NSC	JK FL-FLOP	71-108
75♦	54LS114	S54LS114F	MULB	JK FL-FLOP	71- 7
76♦	54LS114	S54LS114F	PHIN	JK FL-FLOP	71- 7
77♦	54LS114	S54LS114F	VALG	JK FL-FLOP	71- 7
78	54LS114	*S54LS114W	MULB	JK FL-FLOP	71- 8
79	54LS114	*S54LS114W	PHIN	JK FL-FLOP	71- 8
80	54LS114	*S54LS114W	VALG	JK FL-FLOP	71- 8
81♦	54LS114	SN54LS114AJ	MOTA	JK FL-FLOP	72- 39
82▼	54LS114	SN54LS114AN	MOTA	JK FL-FLOP	72- 40
83♦	54LS114	T54LS114D2	SGSI	JK FL-FLOP	72- 63
84♦	54LS122	SN54LS122J	MOTA	CLOCK/MV	189- 3
85♦	54LS122	SN54LS122J	TII	CLOCK/MV	189- 3
86▼	54LS122	SN54LS122N	MOTA	CLOCK/MV	189- 4
87♦	54LS123	S54LS123AF	MULB	CLOCK/MV	191- 36
88♦	54LS123	S54LS123AF	PHIN	CLOCK/MV	191- 36
89♦	54LS123	S54LS123AF	SIC	CLOCK/MV	191- 36
90♦	54LS123	S54LS123AF	VALG	CLOCK/MV	191- 36
91	54LS123	*S54LS123AW	MULB	CLOCK/MV	191- 37
92	54LS123	*S54LS123AW	PHIN	CLOCK/MV	191- 37
93	54LS123	*S54LS123AW	SIC	CLOCK/MV	191- 37
94	54LS123	*S54LS123AW	VALG	CLOCK/MV	191- 37
95♦	54LS123	SN54LS123J	MOTA	CLOCK/MV	191- 52
96♦	54LS123	SN54LS123J	TII	CLOCK/MV	191- 52
97▼	54LS123	SN54LS123N	MOTA	CLOCK/MV	191- 53
98♦	54LS132	SN54LS132J	MOTA	NAND GATE	97- 68
99♦	54LS133	54LS133DM	FSC	NAND GATE	111- 70
100♦	54LS133	*54LS133FM	FSC	NAND GATE	111- 71
101♦	54LS133	SN54LS133J	MOTA	NAND GATE	111- 86
102▼	54LS133	SN54LS133N	MOTA	NAND GATE	111- 87
103♦	54LS136	54LS136DM	FSC	EX-OR GATE	91- 42
104♦	54LS136	*54LS136FM	FSC	EX-OR GATE	93- 62
105♦	54LS136	DM54LS136J	NSC	EX-OR GATE	91- 89
106♦	54LS136	S54LS136F	MULB	EX-OR GATE	92- 70
107♦	54LS136	S54LS136F	PHIN	EX-OR GATE	92- 70
108♦	54LS136	S54LS136F	SIC	EX-OR GATE	92- 70
109♦	54LS136	S54LS136F	VALG	EX-OR GATE	92- 70
110♦	54LS136	*S54LS136W	MULB	EX-OR GATE	93-102
111♦	54LS136	*S54LS136W	PHIN	EX-OR GATE	93-102
112♦	54LS136	*S54LS136W	SIC	EX-OR GATE	93-102
113♦	54LS136	*S54LS136W	VALG	EX-OR GATE	93-102
114♦	54LS136	SN54LS136J	MOTA	EX-OR GATE	92- 78
115♦	54LS136	SN54LS136J	TII	EX-OR GATE	92- 78
116♦	54LS136	T54LS136D2	SGSI	EX-OR GATE	92- 91
117♦	54LS138	S54LS138F(2)	MULB	DECODER	125- 41
118	54LS138	*S54LS138W(2)	MULB	DECODER	125- 42
119♦	54LS156	S54LS156F(2)	MULB	DECODER	126- 14
120	54LS156	*S54LS156W(2)	MULB	DECODER	126- 15
121♦	54LS160	*54LS160FM	FSC	DEC CNTR	172- 35
122♦	54LS160	DM54LS160AJ	NSC	DEC CNTR	175- 1
123♦	54LS160	DM54LS160AW	NSC	DEC CNTR	172- 40
124♦	54LS160	S54LS160AF	MULB	DEC CNTR	174- 61
125♦	54LS160	S54LS160AF	PHIN	DEC CNTR	174- 61
126♦	54LS160	S54LS160AF	RTCF	DEC CNTR	174- 61
127♦	54LS160	S54LS160AF	SIC	DEC CNTR	174- 61
128♦	54LS160	S54LS160AF	VALG	DEC CNTR	174- 61
129♦	54LS160	*S54LS160AW	MULB	DEC CNTR	174- 62
130♦	54LS160	*S54LS160AW	PHIN	DEC CNTR	174- 62
131♦	54LS160	*S54LS160AW	RTCF	DEC CNTR	174- 62
132♦	54LS160	*S54LS160AW	SIC	DEC CNTR	174- 62
133♦	54LS160	*S54LS160AW	VALG	DEC CNTR	174- 62
134♦	54LS160	SN54LS160AJ	MOTA	DEC CNTR	175- 21
135♦	54LS160	SN54LS160AJ	TII	DEC CNTR	175- 21
136▼	54LS160	SN54LS160AN	MOTA	DEC CNTR	175- 22
137♦	54LS161	54LS161DM	FSC	HEX CNTR	154- 8
138♦	54LS161	*54LS161FM	FSC	HEX CNTR	154- 9
139♦	54LS161	DM54LS161AJ	NSC	HEX CNTR	157- 36
140♦	54LS161	*DM54LS161AW	NSC	HEX CNTR	157- 37
141♦	54LS161	S54LS161AF	MULB	HEX CNTR	156- 94
142♦	54LS161	S54LS161AF	PHIN	HEX CNTR	156- 94
143♦	54LS161	S54LS161AF	RTCF	HEX CNTR	156- 94
144♦	54LS161	S54LS161AF	SIC	HEX CNTR	156- 94
145♦	54LS161	S54LS161AF	VALG	HEX CNTR	156- 94
146♦	54LS161	*S54LS161AG	MULB	HEX CNTR	156- 95
147♦	54LS161	*S54LS161AG	PHIN	HEX CNTR	156- 95
148♦	54LS161	*S54LS161AG	RTCF	HEX CNTR	156- 95
149♦	54LS161	*S54LS161AG	SIC	HEX CNTR	156- 95
150♦	54LS161	*S54LS161AG	VALG	HEX CNTR	156- 95
151♦	54LS161	*S54LS161AW	MULB	HEX CNTR	156- 96
152♦	54LS161	*S54LS161AW	PHIN	HEX CNTR	156- 96
153♦	54LS161	*S54LS161AW	RTCF	HEX CNTR	156- 96
154♦	54LS161	*S54LS161AW	SIC	HEX CNTR	156- 96
155♦	54LS161	*S54LS161AW	VALG	HEX CNTR	156- 96
156♦	54LS161	SN54LS161AJ	MOTA	HEX CNTR	157- 59
157♦	54LS161	SN54LS161AJ	TII	HEX CNTR	157- 59
158▼	54LS161	SN54LS161AN	MOTA	HEX CNTR	157- 60
159♦	54LS162	*54LS162FM	FSC	DEC CNTR	172- 36
160♦	54LS162	DM54LS162AJ	NSC	DEC CNTR	175- 2
161♦	54LS162	DM54LS162AW	NSC	DEC CNTR	172- 41
162♦	54LS162	S54LS162AF	MULB	DEC CNTR	174- 63
163♦	54LS162	S54LS162AF	PHIN	DEC CNTR	174- 63
164♦	54LS162	S54LS162AF	RTCF	DEC CNTR	174- 63
165♦	54LS162	S54LS162AF	SIC	DEC CNTR	174- 63
166♦	54LS162	S54LS162AF	VALG	DEC CNTR	174- 63
167♦	54LS162	*S54LS162AW	MULB	DEC CNTR	174- 64
168♦	54LS162	*S54LS162AW	PHIN	DEC CNTR	174- 64
169♦	54LS162	*S54LS162AW	RTCF	DEC CNTR	174- 64
170♦	54LS162	*S54LS162AW	SIC	DEC CNTR	174- 64
171♦	54LS162	*S54LS162AW	VALG	DEC CNTR	174- 64
172♦	54LS162	SN54LS162AJ	MOTA	DEC CNTR	175- 23
173♦	54LS162	SN54LS162AJ	TII	DEC CNTR	175- 23
174▼	54LS162	SN54LS162AN	MOTA	DEC CNTR	175- 24
175♦	54LS163	54LS163DM	FSC	HEX CNTR	154- 10
176♦	54LS163	*54LS163FM	FSC	HEX CNTR	154- 11
177♦	54LS163	DM54LS163AJ	NSC	HEX CNTR	157- 38
178♦	54LS163	*DM54LS163AW	NSC	HEX CNTR	157- 39
179♦	54LS163	S54LS163AF	MULB	HEX CNTR	156- 97
180♦	54LS163	S54LS163AF	PHIN	HEX CNTR	156- 97
181♦	54LS163	S54LS163AF	RTCF	HEX CNTR	156- 97
182♦	54LS163	S54LS163AF	SIC	HEX CNTR	156- 97
183♦	54LS163	S54LS163AF	VALG	HEX CNTR	156- 97
184♦	54LS163	*S54LS163AG	MULB	HEX CNTR	156- 98
185♦	54LS163	*S54LS163AG	PHIN	HEX CNTR	156- 98
186♦	54LS163	*S54LS163AG	RTCF	HEX CNTR	156- 98
187♦	54LS163	*S54LS163AG	SIC	HEX CNTR	156- 98
188♦	54LS163	*S54LS163AG	VALG	HEX CNTR	156- 98
189♦	54LS163	*S54LS163AW	MULB	HEX CNTR	156- 99
190♦	54LS163	*S54LS163AW	PHIN	HEX CNTR	156- 99
191♦	54LS163	*S54LS163AW	RTCF	HEX CNTR	156- 99
192♦	54LS163	*S54LS163AW	SIC	HEX CNTR	156- 99
193♦	54LS163	*S54LS163AW	VALG	HEX CNTR	156- 99
194♦	54LS163	SN54LS163AJ	MOTA	HEX CNTR	157- 61
195♦	54LS163	SN54LS163AJ	TII	HEX CNTR	157- 61
196▼	54LS163	SN54LS163AN	MOTA	HEX CNTR	157- 62
197♦	54LS168	54LS168DM	FSC	DEC CNTR	178- 92
198♦	54LS168	*54LS168FM	FSC	DEC CNTR	178- 93
199♦	54LS168	DM54LS168AJ	NSC	DEC CNTR	179- 76
200♦	54LS168	S54LS168AF	MULB	DEC CNTR	179- 21
201♦	54LS168	S54LS168AF	PHIN	DEC CNTR	179- 21
202♦	54LS168	S54LS168AF	RTCF	DEC CNTR	179- 21
203♦	54LS168	S54LS168AF	SIC	DEC CNTR	179- 21
204♦	54LS168	S54LS168AF	VALG	DEC CNTR	179- 21
205♦	54LS168	*S54LS168AW	MULB	DEC CNTR	179- 22
206♦	54LS168	*S54LS168AW	PHIN	DEC CNTR	179- 22
207♦	54LS168	*S54LS168AW	RTCF	DEC CNTR	179- 22
208♦	54LS168	*S54LS168AW	SIC	DEC CNTR	179- 22
209♦	54LS168	*S54LS168AW	VALG	DEC CNTR	179- 22
210♦	54LS168	SN54LS168AJ	MOTA	DEC CNTR	179- 85
211▼	54LS168	SN54LS168AN	MOTA	DEC CNTR	179- 86
212♦	54LS168	SN54LS168J	MOTA	DEC CNTR	179- 30
213♦	54LS169	54LS169DM	FSC	HEX CNTR	161-102
214♦	54LS169	*54LS169FM	FSC	HEX CNTR	161-103
215♦	54LS169	DM54LS169AJ	NSC	HEX CNTR	162- 86
216♦	54LS169	S54LS169AF	MULB	HEX CNTR	162- 28
217♦	54LS169	S54LS169AF	PHIN	HEX CNTR	162- 28
218♦	54LS169	S54LS169AF	RTCF	HEX CNTR	162- 28
219♦	54LS169	S54LS169AF	SIC	HEX CNTR	162- 28
220♦	54LS169	S54LS169AF	VALG	HEX CNTR	162- 28

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2♦	54LS169	*S54LS169AW	PHIN	HEX CNTR	162- 29
3♦	54LS169	*S54LS169AW	RTCF	HEX CNTR	162- 29
4♦	54LS169	*S54LS169AW	SIC	HEX CNTR	162- 29
5♦	54LS169	*S54LS169AW	VALG	HEX CNTR	162- 29
6♦	54LS169	SN54LS169AJ	MOTA	HEX CNTR	162- 97
7▼	54LS169	SN54LS169AN	MOTA	HEX CNTR	162- 98
8♦	54LS169	SN54LS169J	MOTA	HEX CNTR	162- 38
9♦	54LS173	S54LS173F	MULB	D FL-FLOP	55- 8
10♦	54LS173	S54LS173F	PHIN	D FL-FLOP	55- 8
11♦	54LS173	S54LS173F	RTCF	D FL-FLOP	55- 8
12♦	54LS173	S54LS173F	SIC	D FL-FLOP	55- 8
13♦	54LS173	S54LS173F	VALG	D FL-FLOP	55- 8
14	54LS173	*S54LS173G	MULB	D FL-FLOP	55- 9
15	54LS173	*S54LS173G	PHIN	D FL-FLOP	55- 9
16	54LS173	*S54LS173G	RTCF	D FL-FLOP	55- 9
17	54LS173	*S54LS173G	VALG	D FL-FLOP	55- 9
18	54LS173	*S54LS173W	MULB	D FL-FLOP	55- 10
19	54LS173	*S54LS173W	PHIN	D FL-FLOP	55- 10
20	54LS173	*S54LS173W	RTCF	D FL-FLOP	55- 10
21	54LS173	*S54LS173W	SIC	D FL-FLOP	55- 10
22	54LS173	*S54LS173W	VALG	D FL-FLOP	55- 10
23♦	54LS173	SN54LS173AJ(1)	TII	D FL-FLOP	55- 47
24♦	54LS174	DM54LS174J	NSC	D FL-FLOP	56- 87
25	54LS174	*DM54LS174W	NSC	D FL-FLOP	56- 88
26♦	54LS174	S54LS174F	MULB	D FL-FLOP	56- 78
27♦	54LS174	S54LS174F	PHIN	D FL-FLOP	56- 78
28♦	54LS174	S54LS174F	RTCF	D FL-FLOP	56- 78
29♦	54LS174	S54LS174F	SIC	D FL-FLOP	56- 78
30♦	54LS174	S54LS174F	VALG	D FL-FLOP	56- 78
31	54LS174	*S54LS174G	MULB	D FL-FLOP	56- 79
32	54LS174	*S54LS174G	PHIN	D FL-FLOP	56- 79
33	54LS174	*S54LS174G	RTCF	D FL-FLOP	56- 79
34	54LS174	*S54LS174G	VALG	D FL-FLOP	56- 79
35	54LS174	*S54LS174W	MULB	D FL-FLOP	56- 80
36	54LS174	*S54LS174W	PHIN	D FL-FLOP	56- 80
37	54LS174	*S54LS174W	RTCF	D FL-FLOP	56- 80
38	54LS174	*S54LS174W	SIC	D FL-FLOP	56- 80
39	54LS174	*S54LS174W	VALG	D FL-FLOP	56- 80
40♦	54LS174	SN54LS174J	MOTA	D FL-FLOP	56- 99
41▼	54LS174	SN54LS174N	MOTA	D FL-FLOP	56-100
42♦	54LS175	54LS175DM	FSC	D FL-FLOP	53-101
43	54LS175	*54LS175FM	FSC	D FL-FLOP	53-102
44♦	54LS175	DM54LS175J	NSC	D FL-FLOP	55- 20
45♦	54LS175	*DM54LS175W	NSC	D FL-FLOP	55- 21
46♦	54LS175	S54LS175F	MULB	D FL-FLOP	55- 11
47♦	54LS175	S54LS175F	PHIN	D FL-FLOP	55- 11
48♦	54LS175	S54LS175F	RTCF	D FL-FLOP	55- 11
49♦	54LS175	S54LS175F	SIC	D FL-FLOP	55- 11
50♦	54LS175	S54LS175F	VALG	D FL-FLOP	55- 11
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52	54LS175	*S54LS175G	PHIN	D FL-FLOP	55- 12
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54	54LS175	*S54LS175G	SIC	D FL-FLOP	55- 12
55	54LS175	*S54LS175G	VALG	D FL-FLOP	55- 12
56	54LS175	*S54LS175W	MULB	D FL-FLOP	55- 13
57	54LS175	*S54LS175W	PHIN	D FL-FLOP	55- 13
58	54LS175	*S54LS175W	RTCF	D FL-FLOP	55- 13
59	54LS175	*S54LS175W	SIC	D FL-FLOP	55- 13
60	54LS175	*S54LS175W	VALG	D FL-FLOP	55- 13
61♦	54LS175	SN54LS175J	MOTA	D FL-FLOP	55- 26
62▼	54LS175	SN54LS175N(2)	MOTA	D FL-FLOP	55- 27
63	54LS181	*54LS181FM	FSC	4-BIT ALU	222- 72
64♦	54LS181	S54LS181F	MULB	4-BIT ALU	222- 79
65♦	54LS181	S54LS181F	PHIN	4-BIT ALU	222- 79
66♦	54LS181	S54LS181F	RTCF	4-BIT ALU	222- 79
67♦	54LS181	S54LS181F	SIC	4-BIT ALU	222- 79
68♦	54LS181	S54LS181F	VALG	4-BIT ALU	222- 79
69♦	54LS181	S54LS181N	MULB	4-BIT ALU	222- 53
70♦	54LS181	S54LS181N	PHIN	4-BIT ALU	222- 53
71♦	54LS181	S54LS181N	SIC	4-BIT ALU	222- 53
72	54LS181	*S54LS181Q	MULB	4-BIT ALU	222- 54
73	54LS181	*S54LS181Q	PHIN	4-BIT ALU	222- 54
74	54LS181	*S54LS181W	MULB	4-BIT ALU	222- 80
75	54LS181	*S54LS181W	PHIN	4-BIT ALU	222- 80
76	54LS181	*S54LS181W	RTCF	4-BIT ALU	222- 80
77	54LS181	*S54LS181W	SIC	4-BIT ALU	222- 80
78	54LS181	*S54LS181W	VALG	4-BIT ALU	222- 80
79♦	54LS181	SN54LS181J	MOTA	4-BIT ALU	222- 81
80♦	54LS181	SN54LS181J	TII	4-BIT ALU	222- 81
81▼	54LS181	SN54LS181N	MOTA	4-BIT ALU	222- 82
82♦	54LS182	SN54LS182J	MOTA	PARITY GEN	225- 39
83▼	54LS182	SN54LS182N	MOTA	PARITY GEN	225- 40
84♦	54LS183	SN54LS183J	MOTA	ADDER	198-102
85♦	54LS183	SN54LS183J	TII	ADDER	198-102
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87♦	54LS190	*54LS190FM	FSC	DEC CNTR	178- 50
88♦	54LS190	DM54LS190J	NSC	DEC CNTR	178-102
89♦	54LS190	*DM54LS190W	NSC	DEC CNTR	178-103
90♦	54LS190	S54LS190F	MULB	DEC CNTR	178- 71
91♦	54LS190	S54LS190F	PHIN	DEC CNTR	178- 71
92♦	54LS190	S54LS190F	SIC	DEC CNTR	178- 71
93♦	54LS190	S54LS190F	VALG	DEC CNTR	178- 71
94♦	54LS190	*S54LS190W	MULB	DEC CNTR	178- 72
95♦	54LS190	*S54LS190W	PHIN	DEC CNTR	178- 72
96♦	54LS190	*S54LS190W	SIC	DEC CNTR	178- 72
97♦	54LS190	*S54LS190W	VALG	DEC CNTR	178- 72
98♦	54LS190	SN54LS190J	MOTA	DEC CNTR	179- 31
99♦	54LS190	SN54LS190J	TII	DEC CNTR	179- 31
100▼	54LS190	SN54LS190N	MOTA	DEC CNTR	179- 32
101♦	54LS191	54LS191DM	FSC	HEX CNTR	163- 7
102♦	54LS191	*54LS191FM	FSC	HEX CNTR	163- 8
103♦	54LS191	DM54LS191J	NSC	HEX CNTR	162- 3
104♦	54LS191	*DM54LS191W	NSC	HEX CNTR	156- 67
105♦	54LS191	S54LS191F	MULB	HEX CNTR	161- 82
106♦	54LS191	S54LS191F	PHIN	HEX CNTR	161- 82
107♦	54LS191	S54LS191F	RTCF	HEX CNTR	161- 82
108♦	54LS191	S54LS191F	SIC	HEX CNTR	161- 82
109♦	54LS191	S54LS191F	VALG	HEX CNTR	161- 82
110♦	54LS191	*S54LS191W	MULB	HEX CNTR	161- 83
111♦	54LS191	*S54LS191W	PHIN	HEX CNTR	161- 83
112♦	54LS191	*S54LS191W	RTCF	HEX CNTR	161- 83
113♦	54LS191	*S54LS191W	SIC	HEX CNTR	161- 83
114♦	54LS191	*S54LS191W	VALG	HEX CNTR	161- 83
115♦	54LS191	SN54LS191J	MOTA	HEX CNTR	162- 39
116♦	54LS191	SN54LS191J	TII	HEX CNTR	162- 39
117▼	54LS191	SN54LS191N	MOTA	HEX CNTR	162- 40
118♦	54LS192	54LS192DM	FSC	DEC CNTR	179-107
119♦	54LS192	*54LS192FM	FSC	DEC CNTR	179-108
120♦	54LS192	DM54LS192J	NSC	DEC CNTR	179- 77
121♦	54LS192	*DM54LS192W	NSC	DEC CNTR	179- 78
122♦	54LS192	S54LS192F	MULB	DEC CNTR	179- 23
123♦	54LS192	S54LS192F	PHIN	DEC CNTR	179- 23
124♦	54LS192	S54LS192F	RTCF	DEC CNTR	179- 23
125♦	54LS192	S54LS192F	SIC	DEC CNTR	179- 23
126♦	54LS192	S54LS192F	VALG	DEC CNTR	179- 23
127♦	54LS192	*S54LS192W	MULB	DEC CNTR	179- 24
128♦	54LS192	*S54LS192W	PHIN	DEC CNTR	179- 24
129♦	54LS192	*S54LS192W	RTCF	DEC CNTR	179- 24
130♦	54LS192	*S54LS192W	SIC	DEC CNTR	179- 24
131♦	54LS192	*S54LS192W	VALG	DEC CNTR	179- 24
132♦	54LS192	SN54LS192J	MOTA	DEC CNTR	179- 87
133♦	54LS192	SN54LS192J	TII	DEC CNTR	179- 87
134▼	54LS192	SN54LS192N	MOTA	DEC CNTR	179- 88
135♦	54LS193	54LS193DM	FSC	HEX CNTR	163- 19
136♦	54LS193	*54LS193FM	FSC	HEX CNTR	163- 20
137♦	54LS193	DM54LS193J	NSC	HEX CNTR	162- 87
138♦	54LS193	*DM54LS193W	NSC	HEX CNTR	162- 88
139♦	54LS193	S54LS193F	MULB	HEX CNTR	162- 30
140♦	54LS193	S54LS193F	PHIN	HEX CNTR	162- 30
141♦	54LS193	S54LS193F	RTCF	HEX CNTR	162- 30
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143♦	54LS193	S54LS193F	VALG	HEX CNTR	162- 30
144♦	54LS193	*S54LS193G	MULB	HEX CNTR	162- 31
145♦	54LS193	*S54LS193G	PHIN	HEX CNTR	162- 31
146♦	54LS193	*S54LS193G	RTCF	HEX CNTR	162- 31
147♦	54LS193	*S54LS193G	SIC	HEX CNTR	162- 31
148♦	54LS193	*S54LS193G	VALG	HEX CNTR	162- 31
149♦	54LS193	*S54LS193W	MULB	HEX CNTR	162- 32
150♦	54LS193	*S54LS193W	PHIN	HEX CNTR	162- 32
151♦	54LS193	*S54LS193W	RTCF	HEX CNTR	162- 32
152♦	54LS193	*S54LS193W	SIC	HEX CNTR	162- 32
153♦	54LS193	*S54LS193W	VALG	HEX CNTR	162- 32
154♦	54LS193	SN54LS193J	MOTA	HEX CNTR	162- 99
155♦	54LS193	SN54LS193J	TII	HEX CNTR	162- 99
156▼	54LS193	SN54LS193N	MOTA	HEX CNTR	162-100
157♦	54LS196	*54LS196FM	FSC	DEC CNTR	176- 18
158♦	54LS196	DM54LS196J	NSC	DEC CNTR	175- 54
159♦	54LS196	*DM54LS196W	NSC	DEC CNTR	175- 55
1ɔ0♦	54LS196	S54LS196F	MULB	DEC CNTR	174-101
161♦	54LS196	S54LS196F	PHIN	DEC CNTR	174-101
162♦	54LS196	S54LS196F	SIC	DEC CNTR	174-101
163♦	54LS196	S54LS196F	VALG	DEC CNTR	174-101
164♦	54LS196	*S54LS196W	MULB	DEC CNTR	174-102
165♦	54LS196	*S54LS196W	PHIN	DEC CNTR	174-102
166♦	54LS196	*S54LS196W	SIC	DEC CNTR	174-102
167♦	54LS196	*S54LS196W	VALG	DEC CNTR	174-102
168♦	54LS196	SN54LS196J	MOTA	DEC CNTR	175- 70
169♦	54LS196	SN54LS196J	TII	DEC CNTR	175- 70
170♦	54LS197	DM54LS197J	NSC	HEX CNTR	157- 86
171♦	54LS197	*DM54LS197W	NSC	HEX CNTR	157- 87
172♦	54LS197	S54LS197F	MULB	HEX CNTR	157- 18
173♦	54LS197	S54LS197F	PHIN	HEX CNTR	157- 18
174♦	54LS197	S54LS197F	RTCF	HEX CNTR	157- 18
175♦	54LS197	S54LS197F	SIC	HEX CNTR	157- 18
176♦	54LS197	S54LS197F	VALG	HEX CNTR	157- 18
177♦	54LS197	*S54LS197W	MULB	HEX CNTR	157- 19
178♦	54LS197	*S54LS197W	PHIN	HEX CNTR	157- 19
179♦	54LS197	*S54LS197W	RTCF	HEX CNTR	157- 19
180♦	54LS197	*S54LS197W	SIC	HEX CNTR	157- 19
181♦	54LS197	*S54LS197W	VALG	HEX CNTR	157- 19
182♦	54LS197	SN54LS197J	MOTA	HEX CNTR	157-102
183♦	54LS197	SN54LS197J	TII	HEX CNTR	157-102
184♦	54LS221	S54LS221F	MULB	CLOCK/MV	191- 38
185♦	54LS221	S54LS221F	PHIN	CLOCK/MV	191- 38
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187♦	54LS221	S54LS221F	VALG	CLOCK/MV	191- 38
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190	54LS221	*S54LS221W	SIC	CLOCK/MV	191- 39
191	54LS221	*S54LS221W	VALG	CLOCK/MV	191- 39
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194▼	54LS221	SN54LS221N	MOTA	CLOCK/MV	191- 55
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196	54LS256	*54LS256FM	FSC	4-BIT LCH	231- 19
197♦	54LS256	S54LS256F	MULB	4-BIT LCH	231- 81
198♦	54LS256	S54LS256F	PHIN	4-BIT LCH	231- 81
199♦	54LS256	S54LS256F	RTCF	4-BIT LCH	231- 81
200♦	54LS256	S54LS256F	SIC	4-BIT LCH	231- 81
201♦	54LS256	S54LS256F	VALG	4-BIT LCH	231- 81
202♦	54LS256	*S54LS256W	MULB	4-BIT LCH	231- 82
203♦	54LS256	*S54LS256W	PHIN	4-BIT LCH	231- 82
204♦	54LS256	*S54LS256W	RTCF	4-BIT LCH	231- 82
205♦	54LS256	*S54LS256W	SIC	4-BIT LCH	231- 82
206♦	54LS256	*S54LS256W	VALG	4-BIT LCH	231- 82
207♦	54LS256	SN54LS256J	MOTA	4-BIT LCH	231- 54
208▼	54LS256	SN54LS256N	MOTA	4-BIT LCH	231- 55
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211♦	54LS259	DM54LS259J	NSC	8-BIT LCH	238- 84
212♦	54LS259	*DM54LS259W	NSC	8-BIT LCH	239- 29
213♦	54LS259	S54LS259F	MULB	8-BIT LCH	238- 55
214♦	54LS259	S54LS259F	PHIN	8-BIT LCH	238- 55
215♦	54LS259	S54LS259F	RTCF	8-BIT LCH	238- 55
216♦	54LS259	S54LS259F	SIC	8-BIT LCH	238- 55
217♦	54LS259	S54LS259F	VALG	8-BIT LCH	238- 55
218♦	54LS259	*S54LS259W	MULB	8-BIT LCH	238- 56
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16♦	54LS260	*S54LS260W	SIC	NOR GATE	119- 35
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32♦	54LS266	S54LS266F	RTCF	EXNOR GATE	90- 51
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34♦	54LS266	S54LS266F	VALG	EXNOR GATE	90- 51
35♦	54LS266	*S54LS266G	MULB	EXNOR GATE	90- 93
36♦	54LS266	*S54LS266G	PHIN	EXNOR GATE	90- 93
37♦	54LS266	*S54LS266G	RTCF	EXNOR GATE	90- 93
38♦	54LS266	*S54LS266G	VALG	EXNOR GATE	90- 93
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40♦	54LS266	*S54LS266W	PHIN	EXNOR GATE	90- 94
41♦	54LS266	*S54LS266W	RTCF	EXNOR GATE	90- 94
42♦	54LS266	*S54LS266W	SIC	EXNOR GATE	90- 94
43♦	54LS266	*S54LS266W	VALG	EXNOR GATE	90- 94
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49♦	54LS273	S54LS273F	PHIN	D FL-FLOP	61- 5
50♦	54LS273	S54LS273F	RTCF	D FL-FLOP	61- 5
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56	54LS273	*S54LS273G	SIC	D FL-FLOP	61- 6
57	54LS273	*S54LS273G	VALG	D FL-FLOP	61- 6
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65♦	54LS279	S54LS279F	PHIN	4-BIT LCH	243- 60
66♦	54LS279	S54LS279F	RTCF	4-BIT LCH	243- 60
67♦	54LS279	S54LS279F	SIC	4-BIT LCH	243- 60
68♦	54LS279	S54LS279F	VALG	4-BIT LCH	243- 60
69♦	54LS279	*S54LS279W	MULB	4-BIT LCH	243- 61
70♦	54LS279	*S54LS279W	PHIN	4-BIT LCH	243- 61
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72♦	54LS279	*S54LS279W	SIC	4-BIT LCH	243- 61
73♦	54LS279	*S54LS279W	VALG	4-BIT LCH	243- 61
74♦	54LS279	SN54LS279AJ	TII	4-BIT LCH	243- 64
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76▼	54LS279	SN54LS279N	MOTA	4-BIT LCH	243- 66
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81	54LS283	*54LS283FM	FSC	ADDER	200- 2
82♦	54LS283	54LS283J	FSC	ADDER	200- 3
83	54LS283	*54LS283W	FSC	ADDER	200- 4
84♦	54LS283	DM54LS283J	NSC	ADDER	200- 63
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86♦	54LS283	S54LS283F	MULB	ADDER	200- 34
87♦	54LS283	S54LS283F	PHIN	ADDER	200- 34
88♦	54LS283	S54LS283F	RTCF	ADDER	200- 34
89♦	54LS283	S54LS283F	SIC	ADDER	200- 34
90♦	54LS283	S54LS283F	VALG	ADDER	200- 34
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95	54LS283	*S54LS283G	VALG	ADDER	200- 35
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100	54LS283	*S54LS283W	VALG	ADDER	200- 36
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106♦	54LS290	*54LS290FM	FSC	DEC CNTR	176- 4
107♦	54LS290	DM54LS290J	NSC	DEC CNTR	175- 82
108♦	54LS290	*DM54LS290W	NSC	DEC CNTR	175- 83
109♦	54LS290	S54LS290F	MULB	DEC CNTR	175- 19
110♦	54LS290	S54LS290F	PHIN	DEC CNTR	175- 19
111♦	54LS290	S54LS290F	RTCF	DEC CNTR	175- 19
112♦	54LS290	S54LS290F	SIC	DEC CNTR	175- 19
113♦	54LS290	S54LS290F	VALG	DEC CNTR	175- 19
114♦	54LS290	*S54LS290W	MULB	DEC CNTR	175- 20
115♦	54LS290	*S54LS290W	PHIN	DEC CNTR	175- 20
116♦	54LS290	*S54LS290W	RTCF	DEC CNTR	175- 20
117♦	54LS290	*S54LS290W	SIC	DEC CNTR	175- 20
118♦	54LS290	*S54LS290W	VALG	DEC CNTR	175- 20
119♦	54LS290	SN54LS290J	MOTA	DEC CNTR	175- 94
120♦	54LS290	SN54LS290J	TII	DEC CNTR	175- 94
121▼	54LS290	SN54LS290N	MOTA	DEC CNTR	175- 95
122♦	54LS293	54LS293DM	FSC	HEX CNTR	158- 41
123♦	54LS293	*54LS293FM	FSC	HEX CNTR	158- 42
124♦	54LS293	DM54LS293J	NSC	HEX CNTR	158- 4
125♦	54LS293	*DM54LS293W	NSC	HEX CNTR	158- 5
126♦	54LS293	S54LS293F	MULB	HEX CNTR	157- 57
127♦	54LS293	S54LS293F	PHIN	HEX CNTR	157- 57
128♦	54LS293	S54LS293F	RTCF	HEX CNTR	157- 57
129♦	54LS293	S54LS293F	SIC	HEX CNTR	157- 57
130♦	54LS293	S54LS293F	VALG	HEX CNTR	157- 57
131♦	54LS293	*S54LS293W	MULB	HEX CNTR	157- 58
132♦	54LS293	*S54LS293W	PHIN	HEX CNTR	157- 58
133♦	54LS293	*S54LS293W	RTCF	HEX CNTR	157- 58
134♦	54LS293	*S54LS293W	SIC	HEX CNTR	157- 58
135♦	54LS293	*S54LS293W	VALG	HEX CNTR	157- 58
136♦	54LS293	SN54LS293J	MOTA	HEX CNTR	158- 18
137♦	54LS293	SN54LS293J	TII	HEX CNTR	158- 18
138▼	54LS293	SN54LS293N	MOTA	HEX CNTR	158- 19
139	54LS297	*SN54LS297FK	TII	SPECIAL	247- 52
140♦	54LS320	SN54LS320J	TII	CLOCK/MV	192-106
141♦	54LS321	SN54LS321J	TII	CLOCK/MV	192-107
142♦	54LS363	S54LS363F	MULB	8-BIT LCH	237-107
143♦	54LS363	S54LS363F	PHIN	8-BIT LCH	237-107
144♦	54LS363	S54LS363F	RTCF	8-BIT LCH	237-107
145♦	54LS363	S54LS363F	SIC	8-BIT LCH	237-107
146♦	54LS363	S54LS363F	VALG	8-BIT LCH	237-107
147♦	54LS363	*S54LS363G	MULB	8-BIT LCH	237-108
148♦	54LS363	*S54LS363G	PHIN	8-BIT LCH	237-108
149♦	54LS363	*S54LS363G	RTCF	8-BIT LCH	237-108
150♦	54LS363	*S54LS363G	VALG	8-BIT LCH	237-108
151♦	54LS364	S54LS364F	MULB	D FL-FLOP	61- 66
152♦	54LS364	S54LS364F	PHIN	D FL-FLOP	61- 66
153♦	54LS364	S54LS364F	RTCF	D FL-FLOP	61- 66
154♦	54LS364	S54LS364F	SIC	D FL-FLOP	61- 66
155♦	54LS364	S54LS364F	VALG	D FL-FLOP	61- 66
156	54LS364	*S54LS364G	MULB	D FL-FLOP	61- 67
157	54LS364	*S54LS364G	PHIN	D FL-FLOP	61- 67
158	54LS364	*S54LS364G	RTCF	D FL-FLOP	61- 67
159	54LS364	*S54LS364G	SIC	D FL-FLOP	61- 67
160	54LS364	*S54LS364G	VALG	D FL-FLOP	61- 67
161♦	54LS373	54LS373DM	FSC	3-BIT LCH	229-108
162♦	54LS373	*54LS373FM	FSC	3-BIT LCH	229-109
163♦	54LS373	DM54LS373J	NSC	8-BIT LCH	240- 28
164♦	54LS373	DM54LS373W	NSC	8-BIT LCH	236- 83
165♦	54LS373	S54LS373F	MULB	8-BIT LCH	236- 93
166♦	54LS373	S54LS373F	PHIN	8-BIT LCH	236- 93
167♦	54LS373	S54LS373F	RTCF	8-BIT LCH	236- 93
168♦	54LS373	S54LS373F	SIC	8-BIT LCH	236- 93
169♦	54LS373	S54LS373F	VALG	8-BIT LCH	236- 93
170	54LS373	*S54LS373G	MULB	8-BIT LCH	236- 94
171	54LS373	*S54LS373G	PHIN	8-BIT LCH	236- 94
172	54LS373	*S54LS373G	RTCF	8-BIT LCH	236- 94
173	54LS373	*S54LS373G	SIC	8-BIT LCH	236- 94
174	54LS373	*S54LS373G	VALG	8-BIT LCH	236- 94
175▼	54LS373	SN54LS373J	MMI	8-BIT LCH	236- 95
176▼	54LS373	SN54LS373J	MOTA	8-BIT LCH	236- 95
177▼	54LS373	SN54LS373J	TII	8-BIT LCH	236- 95
178♦	54LS373	*SN54LS373L	MMI	8-BIT LCH	238- 35
179▼	54LS373	SN54LS373N	MOTA	8-BIT LCH	236- 96
180	54LS373	*SN54LS373W	MMI	8-BIT LCH	239- 6
181♦	54LS374	54LS374DM	FSC	D FL-FLOP	61- 30
182	54LS374	*54LS374FM	FSC	D FL-FLOP	61- 31
183♦	54LS374	DM54LS374J	NSC	D FL-FLOP	59- 48
184♦	54LS374	DM54LS374W	NSC	8-BIT LCH	238- 2
185♦	54LS374	S54LS374F	MULB	D FL-FLOP	61- 68
186♦	54LS374	S54LS374F	PHIN	D FL-FLOP	61- 68
187♦	54LS374	S54LS374F	RTCF	D FL-FLOP	61- 68
188♦	54LS374	S54LS374F	SIC	D FL-FLOP	61- 68
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190	54LS374	*S54LS374G	MULB	D FL-FLOP	61- 69
191	54LS374	*S54LS374G	PHIN	D FL-FLOP	61- 69
192	54LS374	*S54LS374G	RTCF	D FL-FLOP	61- 69
193	54LS374	*S54LS374G	SIC	D FL-FLOP	61- 69
194	54LS374	*S54LS374G	VALG	D FL-FLOP	61- 69
195▼	54LS374	SN54LS374J	MMI	D FL-FLOP	62- 23
196▼	54LS374	SN54LS374J	MOTA	D FL-FLOP	62- 23
197▼	54LS374	SN54LS374J	TII	D FL-FLOP	62- 23
198▼	54LS374	*SN54LS374L	MMI	D FL-FLOP	62- 24
199▼	54LS374	SN54LS374N	MOTA	D FL-FLOP	62- 25
200▼	54LS374	*SN54LS374W	MMI	D FL-FLOP	62- 26
201▼	54LS374	*SN54LS374W	MOTA	D FL-FLOP	62- 26
202♦	54LS375	54LS375DM	FSC	2-BIT LCH	229- 24
203	54LS375	*54LS375FM	FSC	2-BIT LCH	229- 25
204♦	54LS375	S54LS375F	MULB	4-BIT LCH	231- 42
205♦	54LS375	S54LS375F	PHIN	4-BIT LCH	231- 42
206♦	54LS375	S54LS375F	RTCF	4-BIT LCH	231- 42
207♦	54LS375	S54LS375F	SIC	4-BIT LCH	231- 42
208♦	54LS375	S54LS375F	VALG	4-BIT LCH	231- 42
209♦	54LS375	*S54LS375G	MULB	4-BIT LCH	231- 43
210♦	54LS375	*S54LS375G	PHIN	4-BIT LCH	231- 43
211♦	54LS375	*S54LS375G	RTCF	4-BIT LCH	231- 43
212♦	54LS375	*S54LS375G	SIC	4-BIT LCH	231- 43
213♦	54LS375	*S54LS375G	VALG	4-BIT LCH	231- 43
214♦	54LS375	*S54LS375W	MULB	4-BIT LCH	231- 44
215♦	54LS375	*S54LS375W	PHIN	4-BIT LCH	231- 44
216♦	54LS375	*S54LS375W	RTCF	4-BIT LCH	231- 44
217♦	54LS375	*S54LS375W	SIC	4-BIT LCH	231- 44
218♦	54LS375	*S54LS375W	VALG	4-BIT LCH	231- 44
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16♦	54LS378	S54LS378F	RTCF	D FL-FLOP	56- 81
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20	54LS378	*S54LS378W	PHIN	D FL-FLOP	56- 82
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28♦	54LS379	SN54LS379J	TII	D FL-FLOP	55- 28
29♦	54LS379	SN54LS379N	MOTA	D FL-FLOP	55- 29
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48♦	54LS386	S54LS386F	PHIN	EX-OR GATE	92- 71
49♦	54LS386	*S54LS386W	MULB	EX-OR GATE	93-103
50♦	54LS386	*S54LS386W	PHIN	EX-OR GATE	93-103
51♦	54LS386	SN54LS386AJ	TII	EX-OR GATE	93-109
52♦	54LS386	SN54LS386J	MOTA	EX-OR GATE	92- 79
53▼	54LS386	SN54LS386N	MOTA	EX-OR GATE	92- 80
54♦	54LS390	54LS390DM	FSC	DEC CNTR	182- 5
55♦	54LS390	*54LS390FM	FSC	DEC CNTR	182- 6
56♦	54LS390	DM54LS390J	NSC	DEC CNTR	181- 65
57♦	54LS390	*DM54LS390W	NSC	DEC CNTR	182- 26
58♦	54LS390	S54LS390F	MULB	DEC CNTR	182- 11
59♦	54LS390	S54LS390F	PHIN	DEC CNTR	182- 11
60♦	54LS390	S54LS390F	RTCF	DEC CNTR	182- 11
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67♦	54LS390	SN54LS390J	TII	DEC CNTR	182- 27
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71♦	54LS393	DM54LS393J	NSC	HEX CNTR	165- 9
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73♦	54LS393	S54LS393F	MULB	HEX CNTR	164-101
74♦	54LS393	S54LS393F	PHIN	HEX CNTR	164-101
75♦	54LS393	S54LS393F	RTCF	HEX CNTR	164-101
76♦	54LS393	S54LS393F	SIC	HEX CNTR	164-101
77♦	54LS393	S54LS393F	VALG	HEX CNTR	164-101
78♦	54LS393	*S54LS393W	MULB	HEX CNTR	164-102
79♦	54LS393	*S54LS393W	PHIN	HEX CNTR	164-102
80♦	54LS393	*S54LS393W	RTCF	HEX CNTR	164-102
81♦	54LS393	*S54LS393W	SIC	HEX CNTR	164-102
82♦	54LS393	*S54LS393W	VALG	HEX CNTR	164-102
83♦	54LS393	SN54LS393J	MOTA	HEX CNTR	165- 12
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87	54LS460	*SN54LS460F	MMI	MAGN COMP	219- 27
88♦	54LS460	SN54LS460JS	MMI	MAGN COMP	219- 28
89♦	54LS461	DM54LS461J	NSC	COUNTER	169- 3
90♦	54LS461	*SN54LS461F	MMI	COUNTER	169- 5
91♦	54LS461	SN54LS461JS	MMI	COUNTER	169- 6
92♦	54LS469	DM54LS469J	NSC	COUNTER	169- 4
93♦	54LS469	SN54LS469AJS	MMI	COUNTER	169- 58
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95♦	54LS469	*SN54LS469A28L	MMI	COUNTER	169- 60
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99♦	54LS490	*54LS490FM	FSC	DEC CNTR	181- 85
100♦	54LS490	S54LS490F	MULB	DEC CNTR	181- 72
101♦	54LS490	S54LS490F	PHIN	DEC CNTR	181- 72
102♦	54LS490	S54LS490F	RTCF	DEC CNTR	181- 72
103♦	54LS490	S54LS490F	SIC	DEC CNTR	181- 72
104♦	54LS490	S54LS490F	VALG	DEC CNTR	181- 72
105♦	54LS490	*S54LS490W	MULB	DEC CNTR	181- 73
106♦	54LS490	*S54LS490W	PHIN	DEC CNTR	181- 73
107♦	54LS490	*S54LS490W	RTCF	DEC CNTR	181- 73
108♦	54LS490	*S54LS490W	SIC	DEC CNTR	181- 73
109♦	54LS490	*S54LS490W	VALG	DEC CNTR	181- 73
110♦	54LS490	SN54LS490J	MOTA	DEC CNTR	181- 74
111♦	54LS490	SN54LS490J	TII	DEC CNTR	181- 74
112▼	54LS490	SN54LS490N	MOTA	DEC CNTR	181- 75
113♦	54LS491	DM54LS491J	NSC	COUNTER	169- 90
114♦	54LS491	SN54LS491AJS	MMI	COUNTER	169- 82
115♦	54LS491	*SN54LS491AW	MMI	COUNTER	169- 83
116♦	54LS491	*SN54LS491A28L	MMI	COUNTER	169- 84
117♦	54LS491	*SN54LS491F(A)	MMI	COUNTER	169- 91
118♦	54LS491	SN54LS491JS	MMI	COUNTER	169- 92
119♦	54LS533	54LS533DM	FSC	3-BIT LCH	230- 5
120♦	54LS533	*54LS533FM	FSC	3-BIT LCH	230- 6
121♦	54LS533	SN54LS533J	MMI	8-BIT LCH	237- 80
122♦	54LS533	*SN54LS533L	MMI	8-BIT LCH	238- 36
123♦	54LS533	*SN54LS533W	MMI	8-BIT LCH	237- 81
124♦	54LS534	54LS534DM	FSC	D FL-FLOP	61- 32
125	54LS534	*54LS534FM	FSC	D FL-FLOP	61- 33
126♦	54LS534	SN54LS534J	MMI	D FL-FLOP	62- 27
127♦	54LS534	*SN54LS534L	MMI	D FL-FLOP	62- 28
128♦	54LS534	*SN54LS534W	MMI	D FL-FLOP	62- 29
129♦	54LS563	54LS563DC	FSC	3-BIT LCH	229-110
130♦	54LS563	54LS563DM	FSC	3-BIT LCH	230- 1
131♦	54LS563	*54LS563FM	FSC	3-BIT LCH	230- 2
132♦	54LS563	54LS563PC	FSC	3-BIT LCH	230- 3
133♦	54LS564	54LS564DM	FSC	D FL-FLOP	61- 34
134	54LS564	*54LS564FM	FSC	D FL-FLOP	61- 35
135♦	54LS568	S54LS568AF	MULB	DEC CNTR	179-106
136♦	54LS568	S54LS568AF	PHIN	DEC CNTR	179-106
137♦	54LS568	S54LS568AF	RTCF	DEC CNTR	179-106
138♦	54LS568	S54LS568AF	SIC	DEC CNTR	179-106
139♦	54LS568	S54LS568AF	VALG	DEC CNTR	179-106
140♦	54LS568	S54LS568F	MULB	DEC CNTR	179- 25
141♦	54LS568	S54LS568F	PHIN	DEC CNTR	179- 25
142♦	54LS568	S54LS568F	SIC	DEC CNTR	179- 25
143♦	54LS568	S54LS568F	VALG	DEC CNTR	179- 25
144♦	54LS568	SN54LS568J	MOTA	DEC CNTR	179- 33
145▼	54LS568	SN54LS568N	MOTA	DEC CNTR	179- 34
146♦	54LS569	S54LS569AF	MULB	HEX CNTR	163- 14
147♦	54LS569	S54LS569AF	PHIN	HEX CNTR	163- 14
148♦	54LS569	S54LS569AF	RTCF	HEX CNTR	163- 14
149♦	54LS569	S54LS569AF	SIC	HEX CNTR	163- 14
150♦	54LS569	S54LS569AF	VALG	HEX CNTR	163- 14
151♦	54LS569	S54LS569F	MULB	HEX CNTR	162- 33
152♦	54LS569	S54LS569F	PHIN	HEX CNTR	162- 33
153♦	54LS569	S54LS569F	SIC	HEX CNTR	162- 33
154♦	54LS569	S54LS569F	VALG	HEX CNTR	162- 33
155♦	54LS569	SN54LS569J	MOTA	HEX CNTR	162- 41
156▼	54LS569	SN54LS569N	MOTA	HEX CNTR	162- 42
157♦	54LS573	54LS573DM	FSC	3-BIT LCH	230- 7
158♦	54LS573	*54LS573FM	FSC	3-BIT LCH	230- 8
159♦	54LS574	54LS574DM	FSC	D FL-FLOP	61- 36
160	54LS574	*54LS574FM	FSC	D FL-FLOP	61- 37
161♦	54LS590	SN54LS590J	TII	COUNTER	168- 6
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163♦	54LS593	SN54LS593J	TII	COUNTER	169- 14
164	54LS604	SN54LS604J	MOTA	8-BIT LCH	237- 24
165▼	54LS604	SN54LS604N	MOTA	8-BIT LCH	237- 25
166	54LS605	SN54LS605J	MOTA	8-BIT LCH	233- 77
167▼	54LS605	SN54LS605N	MOTA	8-BIT LCH	233- 78
168	54LS606	SN54LS606J	MOTA	8-BIT LCH	237- 26
169▼	54LS606	SN54LS606N	MOTA	8-BIT LCH	237- 27
170	54LS607	SN54LS607J	MOTA	8-BIT LCH	233- 79
171▼	54LS607	SN54LS607N	MOTA	8-BIT LCH	233- 80
172▼	54LS624	SN54LS624J	TII	CLOCK/MV	191-102
173▼	54LS626	SN54LS626J	TII	CLOCK/MV	191-109
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179▼	54LS668	SN54LS668N	MOTA	DEC CNTR	179- 90
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190♦	54LS684	SN54LS684J	MOTA	MAGN COMP	218- 58
191♦	54LS684	SN54LS684J	TII	MAGN COMP	218- 58
192▼	54LS684	SN54LS684N	MOTA	MAGN COMP	218- 59
193♦	54LS685	SN54LS685J	MOTA	MAGN COMP	218- 90
194▼	54LS685	SN54LS685N	MOTA	MAGN COMP	218- 91
195♦	54LS686	SN54LS686J	MOTA	MAGN COMP	218- 60
196▼	54LS686	SN54LS686N	MOTA	MAGN COMP	218- 61
197♦	54LS687	SN54LS687J	MOTA	MAGN COMP	218- 69
198▼	54LS687	SN54LS687N	MOTA	MAGN COMP	218- 70
199♦	54LS688	SN54LS688J	MOTA	MAGN COMP	218- 42
200♦	54LS688	SN54LS688J	TII	MAGN COMP	218- 42
201▼	54LS688	SN54LS688N	MOTA	MAGN COMP	218- 43
202♦	54LS689	SN54LS689J	MOTA	MAGN COMP	218- 76
203♦	54LS689	SN54LS689J	TII	MAGN COMP	218- 76
204▼	54LS689	SN54LS689N	MOTA	MAGN COMP	218- 77
205♦	54LS691	SN54LS691J	TII	HEX CNTR	156- 34
206♦	54LS693	SN54LS693J	TII	HEX CNTR	156- 35
207♦	54LS696	SN54LS696J	TII	DEC CNTR	178- 75
208♦	54LS697	SN54LS697J	TII	HEX CNTR	161- 87
209♦	54LS699	SN54LS699J	TII	HEX CNTR	161- 88
210♦	54LS716	SN54LS716J	MOTA	DEC CNTR	172- 52
211▼	54LS716	SN54LS716N	MOTA	DEC CNTR	172- 53
212♦	54LS718	SN54LS718J	MOTA	DEC CNTR	172- 54
213▼	54LS718	SN54LS718N	MOTA	DEC CNTR	172- 55
214▼	54PCT273	P54PCT273DM	PSC	D FL-FLOP	64- 48
215▼	54PCT273	*P54PCT273LM	PSC	D FL-FLOP	64- 49
216▼	54PCT273	P54PCT273PM	PSC	D FL-FLOP	64- 50
217▼	54PCT373	P54PCT373DM	PSC	8-BIT LCH	234- 68
218▼	54PCT373	*P54PCT373LM	PSC	8-BIT LCH	234- 69
219▼	54PCT373	P54PCT373PM	PSC	8-BIT LCH	234- 70
220▼	54PCT533	P54PCT533DM	PSC	8-BIT LCH	234- 71

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LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1▼	54PCT533	*P54PCT533LM	PSC	8-BIT LCH	234- 72
2▼	54PCT533	P54PCT533PM	PSC	8-BIT LCH	234- 73
3♦	54S00	54S00DM	FSC	NAND GATE	95- 55
4♦	54S00	*54S00FM	FSC	NAND GATE	97-102
5♦	54S00	DM54S00J	NSC	NAND GATE	98- 25
6♦	54S00	S54S00F	MULB	NAND GATE	97- 26
7♦	54S00	S54S00F	PHIN	NAND GATE	97- 26
8♦	54S00	S54S00F	RTCF	NAND GATE	97- 26
9♦	54S00	S54S00F	SIC	NAND GATE	97- 26
10♦	54S00	S54S00F	VALG	NAND GATE	97- 26
11♦	54S00	*S54S00W	MULB	NAND GATE	97-107
12♦	54S00	*S54S00W	PHIN	NAND GATE	97-107
13♦	54S00	*S54S00W	RTCF	NAND GATE	97-107
14♦	54S00	*S54S00W	SIC	NAND GATE	97-107
15♦	54S00	*S54S00W	VALG	NAND GATE	97-107
16♦	54S00	SN54S00J	TII	NAND GATE	97- 69
17♦	54S02	DM54S02J	NSC	NOR GATE	113- 65
18♦	54S02	S54S02F	MULB	NOR GATE	112-104
19♦	54S02	S54S02F	PHIN	NOR GATE	112-104
20♦	54S02	S54S02F	RTCF	NOR GATE	112-104
21♦	54S02	S54S02F	SIC	NOR GATE	112-104
22♦	54S02	S54S02F	VALG	NOR GATE	112-104
23♦	54S02	*S54S02W	MULB	NOR GATE	113- 52
24♦	54S02	*S54S02W	PHIN	NOR GATE	113- 52
25♦	54S02	*S54S02W	RTCF	NOR GATE	113- 52
26♦	54S02	*S54S02W	SIC	NOR GATE	113- 52
27♦	54S02	*S54S02W	VALG	NOR GATE	113- 52
28♦	54S02	SN54S02J	TII	NOR GATE	113- 53
29♦	54S03	54S03DM	FSC	NAND GATE	95- 56
30♦	54S03	DM54S03J	NSC	NAND GATE	98- 59
31♦	54S03	S54S03F	MULB	NAND GATE	97- 27
32♦	54S03	S54S03F	PHIN	NAND GATE	97- 27
33♦	54S03	*S54S03W	MULB	NAND GATE	98- 24
34♦	54S03	*S54S03W	PHIN	NAND GATE	98- 24
35♦	54S03	*S54S03W	SIC	NAND GATE	98- 24
36♦	54S03	SN54S03J	TII	NAND GATE	97- 70
37♦	54S08	DM54S08J	NSC	AND GATE	77- 56
38♦	54S08	S54S08F	MULB	AND GATE	76- 90
39♦	54S08	S54S08F	PHIN	AND GATE	76- 90
40♦	54S08	S54S08F	RTCF	AND GATE	76- 90
41♦	54S08	S54S08F	SIC	AND GATE	76- 90
42♦	54S08	S54S08F	VALG	AND GATE	76- 90
43♦	54S08	*S54S08W	MULB	AND GATE	77- 41
44♦	54S08	*S54S08W	PHIN	AND GATE	77- 41
45♦	54S08	*S54S08W	RTCF	AND GATE	77- 41
46♦	54S08	*S54S08W	SIC	AND GATE	77- 41
47♦	54S08	*S54S08W	VALG	AND GATE	77- 41
48♦	54S08	SN54S08J	TII	AND GATE	76-101
49♦	54S09	*54S09FM	FSC	AND GATE	77- 48
50♦	54S09	DM54S09J	NSC	AND GATE	77- 75
51♦	54S09	S54S09F	MULB	AND GATE	77- 51
52♦	54S09	S54S09F	PHIN	AND GATE	77- 51
53♦	54S09	S54S09F	SIC	AND GATE	77- 51
54♦	54S09	S54S09F	VALG	AND GATE	77- 51
55♦	54S09	*S54S09W	MULB	AND GATE	77- 52
56♦	54S09	*S54S09W	PHIN	AND GATE	77- 52
57♦	54S09	*S54S09W	VALG	AND GATE	77- 52
58♦	54S09	SN54S09J	TII	AND GATE	77- 53
59♦	54S10	54S10DM	FSC	NAND GATE	101- 20
60♦	54S10	*54S10FM	FSC	NAND GATE	102- 41
61♦	54S10	DM54S10J	NSC	NAND GATE	102- 63
62♦	54S10	S54S10F	MULB	NAND GATE	102- 2
63♦	54S10	S54S10F	PHIN	NAND GATE	102- 2
64♦	54S10	S54S10F	RTCF	NAND GATE	102- 2
65♦	54S10	S54S10F	SIC	NAND GATE	102- 2
66♦	54S10	S54S10F	VALG	NAND GATE	102- 2
67♦	54S10	*S54S10W	MULB	NAND GATE	102- 48
68♦	54S10	*S54S10W	PHIN	NAND GATE	102- 48
69♦	54S10	*S54S10W	SIC	NAND GATE	102- 48
70♦	54S10	*S54S10W	VALG	NAND GATE	102- 48
71♦	54S10	SN54S10J	TII	NAND GATE	102- 23
72♦	54S11	54S11DM	FSC	AND GATE	79- 28
73♦	54S11	*54S11FM	FSC	AND GATE	80- 34
74♦	54S11	DM54S11J	NSC	AND GATE	80- 50
75♦	54S11	S54S11F	MULB	AND GATE	80- 3
76♦	54S11	S54S11F	PHIN	AND GATE	80- 3
77♦	54S11	S54S11F	RTCF	AND GATE	80- 3
78♦	54S11	S54S11F	SIC	AND GATE	80- 3
79♦	54S11	S54S11F	VALG	AND GATE	80- 3
80♦	54S11	*S54S11W	MULB	AND GATE	80- 44
81♦	54S11	*S54S11W	PHIN	AND GATE	80- 44
82♦	54S11	*S54S11W	RTCF	AND GATE	80- 44
83♦	54S11	*S54S11W	SIC	AND GATE	80- 44
84♦	54S11	*S54S11W	VALG	AND GATE	80- 44
85♦	54S11	SN54S11J	TII	AND GATE	80- 12
86♦	54S15	54S15DM	FSC	AND GATE	79- 29
87♦	54S15	*54S15FM	FSC	AND GATE	80- 46
88♦	54S15	DM54S15J	NSC	AND GATE	80- 57
89♦	54S15	S54S15F	MULB	AND GATE	80- 4
90♦	54S15	S54S15F	PHIN	AND GATE	80- 4
91♦	54S15	S54S15F	VALG	AND GATE	80- 4
92♦	54S15	*S54S15W	MULB	AND GATE	80- 49
93♦	54S15	*S54S15W	PHIN	AND GATE	80- 49
94♦	54S15	*S54S15W	VALG	AND GATE	80- 49
95♦	54S20	54S20DM	FSC	NAND GATE	104- 36
96♦	54S20	*54S20FM	FSC	NAND GATE	105- 66
97♦	54S20	DM54S20J	NSC	NAND GATE	106- 23
98♦	54S20	S54S20F	MULB	NAND GATE	105- 77
99♦	54S20	S54S20F	PHIN	NAND GATE	105- 77
100♦	54S20	S54S20F	RTCF	NAND GATE	105- 77
101♦	54S20	S54S20F	SIC	NAND GATE	105- 77
102♦	54S20	S54S20F	VALG	NAND GATE	105- 77
103♦	54S20	*S54S20W	MULB	NAND GATE	105- 78
104♦	54S20	*S54S20W	PHIN	NAND GATE	105- 78
105♦	54S20	*S54S20W	RTCF	NAND GATE	105- 78
106♦	54S20	*S54S20W	SIC	NAND GATE	105- 78
107♦	54S20	*S54S20W	VALG	NAND GATE	105- 78
108♦	54S20	SN54S20J	TII	NAND GATE	105- 79
109♦	54S22	54S22DM	FSC	NAND GATE	104- 37
110♦	54S22	*54S22FM	FSC	NAND GATE	106- 21
111♦	54S22	DM54S22J	NSC	NAND GATE	106- 59
112♦	54S22	S54S22F	MULB	NAND GATE	105- 32
113♦	54S22	S54S22F	PHIN	NAND GATE	105- 32
114♦	54S22	S54S22F	VALG	NAND GATE	105- 32
115♦	54S22	*S54S22W	MULB	NAND GATE	106- 22
116♦	54S22	*S54S22W	PHIN	NAND GATE	106- 22
117♦	54S22	*S54S22W	VALG	NAND GATE	106- 22
118♦	54S22	SN54S22J	TII	NAND GATE	105- 43
119♦	54S30	54S30DM	FSC	NAND GATE	110- 17
120♦	54S30	*54S30FM	FSC	NAND GATE	110- 18
121♦	54S30	DM54S30J	NSC	NAND GATE	109- 47
122♦	54S30	SN54S30J	TII	NAND GATE	109- 17
123♦	54S32	54S32DM	FSC	OR GATE	120- 8
124♦	54S32	*54S32FM	FSC	OR GATE	121- 52
125♦	54S32	DM54S32J	NSC	OR GATE	121- 45
126♦	54S32	S54S32F	MULB	OR GATE	120- 74
127♦	54S32	S54S32F	PHIN	OR GATE	120- 74
128♦	54S32	S54S32F	VALG	OR GATE	120- 74
129♦	54S32	*S54S32W	MULB	OR GATE	121- 40
130♦	54S32	*S54S32W	PHIN	OR GATE	121- 40
131♦	54S32	*S54S32W	VALG	OR GATE	121- 40
132♦	54S32	SN54S32J	TII	OR GATE	120- 78
133♦	54S40	DM54S40J	NSC	NAND GATE	106- 28
134▼	54S40	SN54S40J	TII	NAND GATE	105- 65
135♦	54S51	54S51DM	FSC	AND-OR-INV	85- 71
136♦	54S51	*54S51FM	FSC	AND-OR-INV	85- 72
137♦	54S51	DM54S51J	NSC	AND-OR-INV	86- 75
138♦	54S51	S54S51F	MULB	AND-OR-INV	86- 42
139♦	54S51	S54S51F	PHIN	AND-OR-INV	86- 42
140♦	54S51	S54S51F	RTCF	AND-OR-INV	86- 42
141♦	54S51	S54S51F	SIC	AND-OR-INV	86- 42
142♦	54S51	S54S51F	VALG	AND-OR-INV	86- 42
143♦	54S51	*S54S51W	MULB	AND-OR-INV	86- 43
144♦	54S51	*S54S51W	PHIN	AND-OR-INV	86- 43
145♦	54S51	*S54S51W	RTCF	AND-OR-INV	86- 43
146♦	54S51	*S54S51W	SIC	AND-OR-INV	86- 43
147♦	54S51	*S54S51W	VALG	AND-OR-INV	86- 43
148♦	54S51	SN54S51J	TII	AND-OR-INV	86- 66
149♦	54S64	54S64DM	FSC	AND-OR-INV	88- 29
150♦	54S64	*54S64FM	FSC	AND-OR-INV	88- 24
151♦	54S64	DM54S64J	NSC	AND-OR-INV	88- 51
152♦	54S64	S54S64F	MULB	AND-OR-INV	88- 37
153♦	54S64	S54S64F	PHIN	AND-OR-INV	88- 37
154♦	54S64	S54S64F	VALG	AND-OR-INV	88- 37
155♦	54S64	*S54S64W	MULB	AND-OR-INV	88- 26
156♦	54S64	*S54S64W	PHIN	AND-OR-INV	88- 26
157♦	54S64	*S54S64W	VALG	AND-OR-INV	88- 26
158♦	54S64	SN54S64J	TII	AND-OR-INV	88- 38
159♦	54S64	*SN54S64W	TII	AND-OR-INV	88- 27
160♦	54S65	*54S65FM	FSC	AND-OR-INV	88- 28
161♦	54S65	DM54S65J	NSC	AND-OR-INV	88- 59
162♦	54S65	S54S65F	MULB	AND-OR-INV	88- 55
163♦	54S65	S54S65F	PHIN	AND-OR-INV	88- 55
164♦	54S65	S54S65F	VALG	AND-OR-INV	88- 55
165♦	54S65	*S54S65W	MULB	AND-OR-INV	88- 56
166♦	54S65	*S54S65W	PHIN	AND-OR-INV	88- 56
167♦	54S65	*S54S65W	VALG	AND-OR-INV	88- 56
168♦	54S65	SN54S65J	TII	AND-OR-INV	88- 57
169♦	54S74	54S74DM	FSC	D FL-FLOP	52- 93
170	54S74	*54S74FM	FSC	D FL-FLOP	52- 94
171♦	54S74	DM54S74J	NSC	D FL-FLOP	52- 97
172	54S74	*S54S74W	MULB	D FL-FLOP	52- 65
173	54S74	*S54S74W	PHIN	D FL-FLOP	52- 65
174	54S74	*S54S74W	RTCF	D FL-FLOP	52- 65
175	54S74	*S54S74W	SIC	D FL-FLOP	52- 65
176	54S74	*S54S74W	VALG	D FL-FLOP	52- 65
177♦	54S74	SN54S74J	TII	D FL-FLOP	52-100
178♦	54S85	S54S85F	MULB	MAGN COMP	216- 64
179♦	54S85	S54S85F	PHIN	MAGN COMP	216- 64
180♦	54S85	S54S85F	RTCF	MAGN COMP	216- 64
181♦	54S85	S54S85F	SIC	MAGN COMP	216- 64
182♦	54S85	S54S85F	VALG	MAGN COMP	216- 64
183	54S85	*S54S85W	MULB	MAGN COMP	216- 65
184	54S85	*S54S85W	PHIN	MAGN COMP	216- 65
185	54S85	*S54S85W	RTCF	MAGN COMP	216- 65
186	54S85	*S54S85W	SIC	MAGN COMP	216- 65
187	54S85	*S54S85W	VALG	MAGN COMP	216- 65
188♦	54S85	SN54S85J	TII	MAGN COMP	216- 66
189♦	54S86	54S86DM	FSC	EX-OR GATE	93- 71
190♦	54S86	*54S86FM	FSC	EX-OR GATE	93- 72
191♦	54S86	DM54S86J	NSC	EX-OR GATE	93- 40
192♦	54S86	S54S86F	MULB	EX-OR GATE	93- 29
193♦	54S86	S54S86F	PHIN	EX-OR GATE	93- 29
194♦	54S86	S54S86F	RTCF	EX-OR GATE	93- 29
195♦	54S86	S54S86F	SIC	EX-OR GATE	93- 29
196♦	54S86	S54S86F	VALG	EX-OR GATE	93- 29
197♦	54S86	*S54S86W	MULB	EX-OR GATE	93- 30
198♦	54S86	*S54S86W	PHIN	EX-OR GATE	93- 30
199♦	54S86	*S54S86W	RTCF	EX-OR GATE	93- 30
200♦	54S86	*S54S86W	SIC	EX-OR GATE	93- 30
201♦	54S86	*S54S86W	VALG	EX-OR GATE	93- 30
202♦	54S86	SN54S86J	TII	EX-OR GATE	93- 31
203♦	54S109	54S109DM	FSC	JK FL-FLOP	73- 60
204	54S109	*54S109FM	FSC	JK FL-FLOP	73- 61
205♦	54S112	54S112DM	FSC	JK FL-FLOP	74- 4
206	54S112	*54S112FM	FSC	JK FL-FLOP	74- 5
207♦	54S112	DM54S112J	NSC	JK FL-FLOP	74- 26
208♦	54S112	S54S112F	MULB	JK FL-FLOP	73- 91
209♦	54S112	S54S112F	PHIN	JK FL-FLOP	73- 91
210♦	54S112	S54S112F	RTCF	JK FL-FLOP	73- 91
211♦	54S112	S54S112F	SIC	JK FL-FLOP	73- 91
212♦	54S112	S54S112F	VALG	JK FL-FLOP	73- 91
213	54S112	*S54S112W	MULB	JK FL-FLOP	73- 92
214	54S112	*S54S112W	PHIN	JK FL-FLOP	73- 92
215	54S112	*S54S112W	RTCF	JK FL-FLOP	73- 92
216	54S112	*S54S112W	SIC	JK FL-FLOP	73- 92
217	54S112	*S54S112W	VALG	JK FL-FLOP	73- 92
218♦	54S112	SN54S112J	TII	JK FL-FLOP	74- 45
219	54S113	*54S113FM	FSC	JK FL-FLOP	74- 6
220♦	54S113	DM54S113J	NSC	JK FL-FLOP	74- 27

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1♦	54S113	S54S113F	MULB	JK FL-FLOP	73- 93
2♦	54S113	S54S113F	PHIN	JK FL-FLOP	73- 93
3♦	54S113	S54S113F	RTCF	JK FL-FLOP	73- 93
4♦	54S113	S54S113F	SIC	JK FL-FLOP	73- 93
5♦	54S113	S54S113F	VALG	JK FL-FLOP	73- 93
6	54S113	*S54S113W	MULB	JK FL-FLOP	71- 9
7	54S113	*S54S113W	PHIN	JK FL-FLOP	71- 9
8	54S113	*S54S113W	RTCF	JK FL-FLOP	71- 9
9	54S113	*S54S113W	SIC	JK FL-FLOP	71- 9
10	54S113	*S54S113W	VALG	JK FL-FLOP	71- 9
11♦	54S113	SN54S113J	TII	JK FL-FLOP	74- 46
12	54S114	*54S114FM	FSC	JK FL-FLOP	74- 7
13♦	54S114	DM54S114J	NSC	JK FL-FLOP	74- 28
14♦	54S114	S54S114F	MULB	JK FL-FLOP	73- 94
15♦	54S114	S54S114F	PHIN	JK FL-FLOP	73- 94
16♦	54S114	S54S114F	VALG	JK FL-FLOP	73- 94
17	54S114	*S54S114W	MULB	JK FL-FLOP	73- 95
18	54S114	*S54S114W	PHIN	JK FL-FLOP	73- 95
19	54S114	*S54S114W	VALG	JK FL-FLOP	73- 95
20♦	54S114	SN54S114J	TII	JK FL-FLOP	74- 47
21♦	54S124	SN54S124J	TII	CLOCK/MV	192- 12
22♦	54S133	54S133DM	FSC	NAND GATE	111- 50
23♦	54S133	*54S133FM	FSC	NAND GATE	111- 51
24♦	54S133	S54S133F	MULB	NAND GATE	111- 58
25♦	54S133	S54S133F	PHIN	NAND GATE	111- 58
26♦	54S133	S54S133F	RTCF	NAND GATE	111- 58
27♦	54S133	S54S133F	SIC	NAND GATE	111- 58
28♦	54S133	S54S133F	VALG	NAND GATE	111- 58
29♦	54S133	*S54S133W	MULB	NAND GATE	111- 59
30♦	54S133	*S54S133W	PHIN	NAND GATE	111- 59
31♦	54S133	*S54S133W	RTCF	NAND GATE	111- 59
32♦	54S133	*S54S133W	SIC	NAND GATE	111- 59
33♦	54S133	*S54S133W	VALG	NAND GATE	111- 59
34♦	54S133	SN54S133J	TII	NAND GATE	111- 60
35♦	54S134	*54S134FM	FSC	NAND GATE	111- 37
36♦	54S134	DM54S134J	NSC	NAND GATE	111- 46
37♦	54S134	S54S134F	MULB	NAND GATE	111- 42
38♦	54S134	S54S134F	PHIN	NAND GATE	111- 42
39♦	54S134	S54S134F	SIC	NAND GATE	111- 42
40♦	54S134	S54S134F	VALG	NAND GATE	111- 42
41♦	54S134	*S54S134W	MULB	NAND GATE	111- 64
42♦	54S134	*S54S134W	PHIN	NAND GATE	111- 64
43♦	54S134	*S54S134W	SIC	NAND GATE	111- 64
44♦	54S134	*S54S134W	VALG	NAND GATE	111- 64
45♦	54S134	SN54S134J	TII	NAND GATE	111- 43
46♦	54S135	*54S135FM	FSC	MULTI-GATE	94- 80
47♦	54S135	DM54S135J	NSC	MULTI-GATE	94- 84
48♦	54S135	S54S135F	MULB	MULTI-GATE	94- 82
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138♦	65Z14	65Z14A150	SPR	TIME DELAY	151- 67
139♦	65Z14	65Z14A200	SPR	TIME DELAY	151- 68
140♦	65Z16	65Z16A025	SPR	TIME DELAY	151- 69
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145♦	65Z16	65Z16A150	SPR	TIME DELAY	151- 74
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148	66	DDU66-6	DDD	TIME DELAY	147- 7
149	66	DDU66-8	DDD	TIME DELAY	147- 10
150♦	66	DDU66C4	DDD	TIME DELAY	141- 42
151♦	66	DDU66C6	DDD	TIME DELAY	141- 43
152♦	66	DDU66C8	DDD	TIME DELAY	141- 44
153	66	DDU66F4	DDD	TIME DELAY	147- 67
154	66	DDU66F6	DDD	TIME DELAY	147- 70
155	66	DDU66F8	DDD	TIME DELAY	147- 73
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158	66-6	DDU66-6A	DDD	TIME DELAY	147- 8
159	66-6	DDU66-6B	DDD	TIME DELAY	147- 9
160	66-8	DDU66-8A	DDD	TIME DELAY	147- 11
161	66-8	DDU66-8B	DDD	TIME DELAY	147- 12
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167	66-12	DDU66-12B	DDD	TIME DELAY	147- 18
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169	66-16	DDU66-16A	DDD	TIME DELAY	147- 20
170	66-16	DDU66-16B	DDD	TIME DELAY	147- 21
171	66-20	DDU66-20	DDD	TIME DELAY	147- 22
172	66-20	DDU66-20A	DDD	TIME DELAY	147- 23
173	66-20	DDU66-20B	DDD	TIME DELAY	147- 24
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176	66-25	DDU66-25B	DDD	TIME DELAY	147- 27
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179	66-30	DDU66-30B	DDD	TIME DELAY	147- 30
180	66-35	DDU66-35	DDD	TIME DELAY	147- 31
181	66-35	DDU66-35A	DDD	TIME DELAY	147- 32
182	66-35	DDU66-35B	DDD	TIME DELAY	147- 33
183	66-40	DDU66-40	DDD	TIME DELAY	147- 34
184	66-40	DDU66-40A	DDD	TIME DELAY	147- 35
185	66-40	DDU66-40B	DDD	TIME DELAY	147- 36
186	66-45	DDU66-45	DDD	TIME DELAY	147- 37
187	66-45	DDU66-45A	DDD	TIME DELAY	147- 38
188	66-45	DDU66-45B	DDD	TIME DELAY	147- 39
189	66-50	DDU66-50	DDD	TIME DELAY	147- 40
190	66-50	DDU66-50A	DDD	TIME DELAY	147- 41
191	66-50	DDU66-50B	DDD	TIME DELAY	147- 42
192	66-60	DDU66-60	DDD	TIME DELAY	147- 43
193	66-60	DDU66-60A	DDD	TIME DELAY	147- 44
194	66-60	DDU66-60B	DDD	TIME DELAY	147- 45
195	66-75	DDU66-75	DDD	TIME DELAY	147- 46
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199	66-100	DDU66-100A	DDD	TIME DELAY	147- 50
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205	66-150	DDU66-150A	DDD	TIME DELAY	147- 56
206	66-150	DDU66-150B	DDD	TIME DELAY	147- 57
207	66-175	DDU66-175	DDD	TIME DELAY	147- 58
208	66-175	DDU66-175A	DDD	TIME DELAY	147- 59
209	66-175	DDU66-175B	DDD	TIME DELAY	147- 60
210	66-200	DDU66-200	DDD	TIME DELAY	147- 61
211	66-200	DDU66-200A	DDD	TIME DELAY	147- 62
212	66-200	DDU66-200B	DDD	TIME DELAY	147- 63
213	66-250	DDU66-250	DDD	TIME DELAY	147- 64
214	66-250	DDU66-250A	DDD	TIME DELAY	147- 65
215	66-250	DDU66-250B	DDD	TIME DELAY	147- 66
216♦	66C10	DDU66C10	DDD	TIME DELAY	141- 45
217♦	66C12	DDU66C12	DDD	TIME DELAY	141- 46
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58♦	66F125	DDU66F125A	DDD	TIME DELAY	148- 5
59	66F125	DDU66F125B	DDD	TIME DELAY	148- 6
60	66F150	DDU66F150	DDD	TIME DELAY	148- 7
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63	66F175	DDU66F175	DDD	TIME DELAY	148- 10
64♦	66F175	DDU66F175A	DDD	TIME DELAY	148- 11
65	66F175	DDU66F175B	DDD	TIME DELAY	148- 12
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67♦	66F200	DDU66F200A	DDD	TIME DELAY	148- 14
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69	66F250	DDU66F250	DDD	TIME DELAY	148- 16
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79♦	67C7016	67C7016-55N	MMI	MULTIPLIER	208- 36
80♦	67C7016	*67C7016-55NL	MMI	MULTIPLIER	208- 37
81♦	67C7017	67C7017-35J	MMI	MULTIPLIER	206- 89
82♦	67C7017	67C7017-35N	MMI	MULTIPLIER	206- 90
83♦	67C7017	*67C7017-35NL	MMI	MULTIPLIER	206- 91
84♦	67C7017	67C7017-45J	MMI	MULTIPLIER	207- 47
85	67C7017	*67C7017-45L	MMI	MULTIPLIER	207- 48
86♦	67C7017	67C7017-45N	MMI	MULTIPLIER	207- 49
87♦	67C7017	*67C7017-45NL	MMI	MULTIPLIER	207- 50
88♦	67C7017	67C7017-55J	MMI	MULTIPLIER	208- 38
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90♦	67C7017	*67C7017-55NL	MMI	MULTIPLIER	208- 40
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98♦	70	*N8H70J	PHIN	NAND GATE	102- 55
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103♦	70	S8H70A	PHIN	NAND GATE	101-107
104♦	70	*S8H70J	MULB	NAND GATE	102- 59
105♦	70	*S8H70J	PHIN	NAND GATE	102- 59
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110	70A5151	70A5151	ESAN	TIME DELAY	144- 40
111	70A5175	70A5175	ESAN	TIME DELAY	144- 41
112	70A5200	70A5200	ESAN	TIME DELAY	144- 42
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114	70A5250	70A5250	ESAN	TIME DELAY	144- 44
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117	70A5400	70A5400	ESAN	TIME DELAY	144- 47
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120	70A5750	70A5750	ESAN	TIME DELAY	144- 50
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122♦	71	*RG71CK	RTN	AND-OR-INV	86- 18
123♦	71	RG71DC	RTN	AND-OR-INV	86- 19
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125♦	72	*RG72CJ	RTN	AND-OR-INV	86- 20
126♦	72	*RG72CK	RTN	AND-OR-INV	86- 21
127♦	72	RG72DC	RTN	AND-OR-INV	86- 22
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129▼	073	*EPA073-30	PCA	TIME DELAY	140- 29
130▼	073	*EPA073-35	PCA	TIME DELAY	140- 30
131▼	073	*EPA073-40	PCA	TIME DELAY	140- 31
132▼	073	*EPA073-45	PCA	TIME DELAY	140- 32
133▼	073	*EPA073-50	PCA	TIME DELAY	140- 33
134▼	073	*EPA073-60	PCA	TIME DELAY	140- 34
135▼	073	*EPA073-75	PCA	TIME DELAY	140- 35
136▼	073	*EPA073-100	PCA	TIME DELAY	140- 36
137▼	073	*EPA073-125	PCA	TIME DELAY	140- 37
138▼	073	*EPA073-150	PCA	TIME DELAY	140- 38
139▼	073	*EPA073-175	PCA	TIME DELAY	140- 39
140▼	073	*EPA073-200	PCA	TIME DELAY	140- 40
141▼	073	*EPA073-225	PCA	TIME DELAY	140- 41
142▼	073	*EPA073-250	PCA	TIME DELAY	140- 42
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144▼	073	*EPA073-350	PCA	TIME DELAY	140- 44
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151▼	073	*EPA073-550	PCA	TIME DELAY	140- 51
152▼	073	*EPA073-600	PCA	TIME DELAY	140- 52
153▼	073	*EPA073-650	PCA	TIME DELAY	140- 53
154▼	073	*EPA073-700	PCA	TIME DELAY	140- 54
155▼	073	*EPA073-750	PCA	TIME DELAY	140- 55
156▼	073	*EPA073-800	PCA	TIME DELAY	140- 56
157▼	073	*EPA073-850	PCA	TIME DELAY	140- 57
158▼	073	*EPA073-900	PCA	TIME DELAY	140- 58
159▼	073	*EPA073-950	PCA	TIME DELAY	140- 59
160▼	073	*EPA073-1000	PCA	TIME DELAY	140- 60
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162♦	73	*RG73CK	RTN	AND-OR-INV	86- 24
163♦	73	RG73DC	RTN	AND-OR-INV	86- 25
164♦	74AC00	74AC00DC(A)	FSC	NAND GATE	98- 30
165♦	74AC00	74AC00PC(A)	FSC	NAND GATE	98- 31
166♦	74AC00	*74AC00SC(A)	FSC	NAND GATE	98- 32
167▼	74AC00	CD74AC00E(A)	RCA	NAND GATE	98- 2
168▼	74AC00	*CD74AC00M(A)	RCA	NAND GATE	98- 3
169♦	74AC74	74AC74DC(A)	FSC	D FL-FLOP	52-110
170♦	74AC74	74AC74PC(A)	FSC	D FL-FLOP	53- 1
171♦	74AC74	*74AC74SC(A)	FSC	D FL-FLOP	53- 2
172▼	74AC74	CD74AC74E(A)	RCA	D FL-FLOP	52- 60
173▼	74AC74	*CD74AC74M(A)	RCA	D FL-FLOP	52- 61
174♦	74AC109	74AC109DC(A)	FSC	JK FL-FLOP	73- 62
175♦	74AC109	74AC109PC(A)	FSC	JK FL-FLOP	73- 63
176♦	74AC109	*74AC109SC(A)	FSC	JK FL-FLOP	73- 64
177▼	74AC283	CD74AC283E(A)	RCA	ADDER	199- 71
178▼	74AC283	CD74AC283M(A)	RCA	ADDER	199- 72
179♦	74AC373	74AC373DC(A)	FSC	8-BIT LCH	236- 15
180♦	74AC373	74AC373PC(A)	FSC	8-BIT LCH	236- 16
181♦	74AC373	*74AC373SG(A)	FSC	8-BIT LCH	236- 17
182▼	74AC373	CD74AC373E(A)	RCA	8-BIT LCH	234- 54
183▼	74AC373	*CD74AC373M(A)	RCA	8-BIT LCH	234- 55
184♦	74AC374	74AC374DC(A)	FSC	D FL-FLOP	63-100
185♦	74AC374	74AC374PC(A)	FSC	D FL-FLOP	63-101
186♦	74AC374	*74AC374SC(A)	FSC	D FL-FLOP	63-102
187▼	74AC374	CD74AC374E(A)	RCA	D FL-FLOP	61- 79
188▼	74AC374	*CD74AC374M(A)	RCA	D FL-FLOP	61- 80
189♦	74ACT00	74ACT00DC(A)	FSC	NAND GATE	98- 33
190♦	74ACT00	74ACT00PC(A)	FSC	NAND GATE	98- 34
191♦	74ACT00	*74ACT00SC(A)	FSC	NAND GATE	98- 35
192♦	74ACT74	74ACT74DC(A)	FSC	D FL-FLOP	53- 3
193♦	74ACT74	74ACT74PC(A)	FSC	D FL-FLOP	53- 4
194♦	74ACT74	*74ACT74SC(A)	FSC	D FL-FLOP	53- 5
195♦	74ACT109	74ACT109DC(A)	FSC	JK FL-FLOP	73- 65
196♦	74ACT109	74ACT109PC(A)	FSC	JK FL-FLOP	73- 66
197♦	74ACT109	*74ACT109SC(A)	FSC	JK FL-FLOP	73- 67
198▼	74ACT283	CD74ACT283E(A)	RCA	ADDER	199- 73
199▼	74ACT283	CD74ACT283M(A)	RCA	ADDER	199- 74
200♦	74ACT373	74ACT373DC(A)	FSC	8-BIT LCH	236- 18
201♦	74ACT373	74ACT373PC(A)	FSC	8-BIT LCH	236- 19
202♦	74ACT373	*74ACT373SG(A)	FSC	8-BIT LCH	236- 20
203♦	74ACT373	V74ACT373D	VTC	8-BIT LCH	236- 39
204♦	74ACT373	*V74ACT373DL	VTC	8-BIT LCH	236- 40
205♦	74ACT373	V74ACT373P	VTC	8-BIT LCH	236- 41
206♦	74ACT373	*V74ACT373PK	VTC	8-BIT LCH	236- 42
207♦	74ACT373	*V74ACT373PO	VTC	8-BIT LCH	236- 43
208♦	74ACT374	74ACT374DC(A)	FSC	D FL-FLOP	63-103
209♦	74ACT374	74ACT374PC(A)	FSC	D FL-FLOP	63-104
210♦	74ACT374	*74ACT374SC(A)	FSC	D FL-FLOP	63-105
211♦	74ACT374	V74ACT374D	VTC	D FL-FLOP	62- 61
212♦	74ACT374	*V74ACT374DL	VTC	D FL-FLOP	62- 62
213♦	74ACT374	V74ACT374P	VTC	D FL-FLOP	62- 63
214♦	74ACT374	*V74ACT374PK	VTC	D FL-FLOP	62- 64
215♦	74ACT374	*V74ACT374PO	VTC	D FL-FLOP	62- 65
216♦	74ACT533	V74ACT533D	VTC	8-BIT LCH	236- 44
217♦	74ACT533	*V74ACT533DL	VTC	8-BIT LCH	236- 45
218♦	74ACT533	V74ACT533P	VTC	8-BIT LCH	236- 46
219♦	74ACT533	*V74ACT533PK	VTC	8-BIT LCH	236- 47
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2♦	74ACT563	*V74ACT563DL	VTC	8-BIT LCH	236- 50
3♦	74ACT563	V74ACT563P	VTC	8-BIT LCH	236- 51
4♦	74ACT563	*V74ACT563PK	VTC	8-BIT LCH	236- 52
5♦	74ACT563	*V74ACT563PO	VTC	8-BIT LCH	236- 53
6♦	74ACT564	V74ACT564D	VTC	D FL-FLOP	62- 66
7♦	74ACT564	*V74ACT564DL	VTC	D FL-FLOP	62- 67
8♦	74ACT564	V74ACT564P	VTC	D FL-FLOP	62- 68
9♦	74ACT564	*V74ACT564PK	VTC	D FL-FLOP	62- 69
10♦	74ACT564	*V74ACT564PO	VTC	D FL-FLOP	62- 70
11♦	74ACT573	V74ACT573D	VTC	8-BIT LCH	235- 73
12♦	74ACT573	*V74ACT573DL	VTC	8-BIT LCH	235- 74
13♦	74ACT573	V74ACT573P	VTC	8-BIT LCH	235- 75
14♦	74ACT573	*V74ACT573PK	VTC	8-BIT LCH	235- 76
15♦	74ACT573	*V74ACT573PO	VTC	8-BIT LCH	235- 77
16♦	74ACT574	V74ACT574D	VTC	8-BIT LCH	235- 78
17♦	74ACT574	*V74ACT574DL	VTC	8-BIT LCH	235- 79
18♦	74ACT574	V74ACT574P	VTC	8-BIT LCH	235- 80
19♦	74ACT574	*V74ACT574PK	VTC	8-BIT LCH	235- 81
20♦	74ACT574	*V74ACT574PO	VTC	8-BIT LCH	235- 82
21♦	74ACT575	V74ACT575D	VTC	D FL-FLOP	62- 71
22♦	74ACT575	*V74ACT575DL	VTC	D FL-FLOP	62- 72
23♦	74ACT575	V74ACT575P	VTC	D FL-FLOP	62- 73
24♦	74ACT575	*V74ACT575PK	VTC	D FL-FLOP	62- 74
25♦	74ACT575	*V74ACT575PO	VTC	D FL-FLOP	62- 75
26♦	74ACT576	V74ACT576D	VTC	D FL-FLOP	62-108
27♦	74ACT576	*V74ACT576DL	VTC	D FL-FLOP	62-109
28♦	74ACT576	V74ACT576P	VTC	D FL-FLOP	62-110
29♦	74ACT576	*V74ACT576PK	VTC	D FL-FLOP	63- 1
30♦	74ACT576	*V74ACT576PO	VTC	D FL-FLOP	63- 2
31♦	74ACT577	V74ACT577D	VTC	D FL-FLOP	62- 82
32♦	74ACT577	*V74ACT577DL	VTC	D FL-FLOP	62- 83
33♦	74ACT577	V74ACT577P	VTC	D FL-FLOP	62- 84
34♦	74ACT577	*V74ACT577PK	VTC	D FL-FLOP	62- 85
35♦	74ACT577	*V74ACT577PO	VTC	D FL-FLOP	62- 86
36♦	74ACT580	V74ACT580D	VTC	8-BIT LCH	236- 6
37♦	74ACT580	*V74ACT580DL	VTC	8-BIT LCH	236- 7
38♦	74ACT580	V74ACT580P	VTC	8-BIT LCH	236- 8
39♦	74ACT580	*V74ACT580PK	VTC	8-BIT LCH	236- 9
40♦	74ACT580	*V74ACT580PO	VTC	8-BIT LCH	236- 10
41♦	74ACT793	74ACT793J	MMI	8-BIT LCH	239- 48
42♦	74ACT793	74ACT793N	MMI	8-BIT LCH	239- 49
43♦	74ACT794	74ACT794J	MMI	8-BIT LCH	239- 50
44♦	74ACT794	74ACT794N	MMI	8-BIT LCH	239- 51
45♦	74ACT821	V74ACT821D	VTC	D FL-FLOP	49- 89
46♦	74ACT821	*V74ACT821DL	VTC	D FL-FLOP	49- 90
47♦	74ACT821	V74ACT821P	VTC	D FL-FLOP	49- 91
48♦	74ACT821	*V74ACT821PK	VTC	D FL-FLOP	49- 92
49♦	74ACT821	*V74ACT821PO	VTC	D FL-FLOP	49- 93
50♦	74ACT822	V74ACT822D	VTC	D FL-FLOP	49- 94
51♦	74ACT822	*V74ACT822DL	VTC	D FL-FLOP	49- 95
52♦	74ACT822	V74ACT822P	VTC	D FL-FLOP	49- 96
53♦	74ACT822	*V74ACT822PK	VTC	D FL-FLOP	49- 97
54♦	74ACT822	*V74ACT822PO	VTC	D FL-FLOP	49- 98
55♦	74ACT823	V74ACT823D	VTC	D FL-FLOP	49- 99
56♦	74ACT823	*V74ACT823DL	VTC	D FL-FLOP	49-100
57♦	74ACT823	V74ACT823P	VTC	D FL-FLOP	49-101
58♦	74ACT823	*V74ACT823PK	VTC	D FL-FLOP	49-102
59♦	74ACT823	*V74ACT823PO	VTC	D FL-FLOP	49-103
60♦	74ACT824	V74ACT824D	VTC	D FL-FLOP	49-104
61♦	74ACT824	*V74ACT824DL	VTC	D FL-FLOP	49-105
62♦	74ACT824	V74ACT824P	VTC	D FL-FLOP	49-106
63♦	74ACT824	*V74ACT824PK	VTC	D FL-FLOP	49-107
64♦	74ACT824	*V74ACT824PO	VTC	D FL-FLOP	49-108
65♦	74ACT825	V74ACT825D	VTC	D FL-FLOP	49-109
66♦	74ACT825	*V74ACT825DL	VTC	D FL-FLOP	49-110
67♦	74ACT825	V74ACT825P	VTC	D FL-FLOP	50- 1
68♦	74ACT825	*V74ACT825PK	VTC	D FL-FLOP	50- 2
69♦	74ACT825	*V74ACT825PO	VTC	D FL-FLOP	50- 3
70♦	74ACT826	V74ACT826D	VTC	D FL-FLOP	50- 4
71♦	74ACT826	*V74ACT826DL	VTC	D FL-FLOP	50- 5
72♦	74ACT826	V74ACT826P	VTC	D FL-FLOP	50- 6
73♦	74ACT826	*V74ACT826PK	VTC	D FL-FLOP	50- 7
74♦	74ACT826	*V74ACT826PO	VTC	D FL-FLOP	50- 8
75♦	74ACT841	V74ACT841D	VTC	10-BIT LCH	243- 1
76♦	74ACT841	*V74ACT841DL	VTC	10-BIT LCH	243- 2
77♦	74ACT841	V74ACT841P	VTC	10-BIT LCH	243- 3
78♦	74ACT841	*V74ACT841PK	VTC	10-BIT LCH	243- 4
79♦	74ACT841	*V74ACT841PO	VTC	10-BIT LCH	243- 5
80♦	74ACT842	V74ACT842D	VTC	10-BIT LCH	243- 6
81♦	74ACT842	*V74ACT842DL	VTC	10-BIT LCH	243- 7
82♦	74ACT842	V74ACT842P	VTC	10-BIT LCH	243- 8
83♦	74ACT842	*V74ACT842PK	VTC	10-BIT LCH	243- 9
84♦	74ACT842	*V74ACT842PO	VTC	10-BIT LCH	243- 10
85♦	74ACT843	V74ACT843D	VTC	9-BIT LCH	242- 1
86♦	74ACT843	*V74ACT843DL	VTC	9-BIT LCH	242- 2
87♦	74ACT843	V74ACT843P	VTC	9-BIT LCH	242- 3
88♦	74ACT843	*V74ACT843PK	VTC	9-BIT LCH	242- 4
89♦	74ACT843	*V74ACT843PO	VTC	9-BIT LCH	242- 5
90♦	74ACT844	V74ACT844D	VTC	9-BIT LCH	242- 6
91♦	74ACT844	*V74ACT844DL	VTC	9-BIT LCH	242- 7
92♦	74ACT844	V74ACT844P	VTC	9-BIT LCH	242- 8
93♦	74ACT844	*V74ACT844PK	VTC	9-BIT LCH	242- 9
94♦	74ACT844	V74ACT844PO	VTC	9-BIT LCH	242- 10
95♦	74ACT845	V74ACT845D	VTC	9-BIT LCH	242- 11
96♦	74ACT845	*V74ACT845DL	VTC	9-BIT LCH	242- 12
97♦	74ACT845	V74ACT845P	VTC	9-BIT LCH	242- 13
98♦	74ACT845	*V74ACT845PK	VTC	9-BIT LCH	242- 14
99♦	74ACT845	*V74ACT845PO	VTC	9-BIT LCH	242- 15
100♦	74ACT846	V74ACT846D	VTC	9-BIT LCH	242- 16
101♦	74ACT846	*V74ACT846DL	VTC	9-BIT LCH	242- 17
102♦	74ACT846	V74ACT846P	VTC	9-BIT LCH	242- 18
103♦	74ACT846	*V74ACT846PK	VTC	9-BIT LCH	242- 19
104♦	74ACT846	*V74ACT846PO	VTC	9-BIT LCH	242- 20
105♦	74ACT874	V74ACT874D	VTC	D FL-FLOP	63- 3
106♦	74ACT874	*V74ACT874DL	VTC	D FL-FLOP	52- 70
107♦	74ACT874	V74ACT874P	VTC	D FL-FLOP	63- 4
108♦	74ACT874	*V74ACT874PK	VTC	D FL-FLOP	52- 71
109♦	74ACT874	*V74ACT874PO	VTC	D FL-FLOP	63- 5
110♦	74ACT876	V74ACT876D	VTC	D FL-FLOP	63- 6
111♦	74ACT876	*V74ACT876DL	VTC	D FL-FLOP	52- 72
112♦	74ACT876	V74ACT876P	VTC	D FL-FLOP	63- 7
113♦	74ACT876	*V74ACT876PK	VTC	D FL-FLOP	52- 73
114♦	74ACT876	*V74ACT876PO	VTC	D FL-FLOP	63- 8
115♦	74ACT878	V74ACT878D	VTC	D FL-FLOP	63- 9
116♦	74ACT878	*V74ACT878DL	VTC	D FL-FLOP	52- 74
117♦	74ACT878	V74ACT878P	VTC	D FL-FLOP	63- 10
118♦	74ACT878	*V74ACT878PK	VTC	D FL-FLOP	52- 75
119♦	74ACT878	*V74ACT878PO	VTC	D FL-FLOP	63- 11
120♦	74ACT879	V74ACT879D	VTC	D FL-FLOP	63- 12
121♦	74ACT879	*V74ACT879DL	VTC	D FL-FLOP	52- 76
122♦	74ACT879	V74ACT879P	VTC	D FL-FLOP	63- 13
123♦	74ACT879	*V74ACT879PK	VTC	D FL-FLOP	52- 77
124♦	74ACT879	*V74ACT879PO	VTC	D FL-FLOP	63- 14
125♦	74ACT880	V74ACT880D	VTC	4-BIT LCH	230- 87
126♦	74ACT880	*V74ACT880DL	VTC	4-BIT LCH	230- 88
127♦	74ACT880	V74ACT880P	VTC	4-BIT LCH	230- 89
128♦	74ACT880	*V74ACT880PK	VTC	4-BIT LCH	230- 90
129♦	74ACT880	*V74ACT880PO	VTC	4-BIT LCH	230- 91
130▼	74AHCT161	IDT74AHCT161D	IDT	HEX CNTR	155- 81
131▼	74AHCT161	*IDT74AHCT161L	IDT	HEX CNTR	155- 82
132▼	74AHCT163	IDT74AHCT163D	IDT	HEX CNTR	156- 44
133▼	74AHCT163	*IDT74AHCT163L	IDT	HEX CNTR	156- 45
134♦	74AHCT182	IDT74AHCT182D	IDT	PARITY GEN	224- 60
135♦	74AHCT182	*IDT74AHCT182L	IDT	PARITY GEN	224- 61
136▼	74AHCT191	IDT74AHCT191D	IDT	HEX CNTR	161- 41
137▼	74AHCT191	*IDT74AHCT191L	IDT	HEX CNTR	161- 42
138▼	74AHCT193	IDT74AHCT193D	IDT	HEX CNTR	161- 43
139▼	74AHCT193	*IDT74AHCT193L	IDT	HEX CNTR	161- 44
140♦	74AHCT273	IDT74AHCT273D	IDT	D FL-FLOP	58- 5
141♦	74AHCT273	*IDT74AHCT273L	IDT	D FL-FLOP	58- 6
142♦	74AHCT373	IDT74AHCT373D	IDT	8-BIT LCH	236- 72
143♦	74AHCT373	*IDT74AHCT373L	IDT	8-BIT LCH	236- 73
144♦	74AHCT374	IDT74AHCT374D	IDT	D FL-FLOP	58- 7
145♦	74AHCT374	*IDT74AHCT374L	IDT	D FL-FLOP	58- 8
146♦	74AHCT377	IDT74AHCT377D	IDT	D FL-FLOP	58- 9
147♦	74AHCT377	*IDT74AHCT377L	IDT	D FL-FLOP	58- 10
148♦	74AHCT521	IDT74AHCT521D	IDT	MAGN COMP	215- 64
149	74AHCT521	*IDT74AHCT521L	IDT	MAGN COMP	215- 65
150♦	74AHCT533	IDT74AHCT533D	IDT	8-BIT LCH	237- 11
151♦	74AHCT533	*IDT74AHCT533L	IDT	8-BIT LCH	237- 12
152♦	74AHCT534	IDT74AHCT534D	IDT	D FL-FLOP	58- 11
153♦	74AHCT534	*IDT74AHCT534L	IDT	D FL-FLOP	58- 12
154▼	74AHCT573	IDT74AHCT573D	IDT	8-BIT LCH	235-107
155▼	74AHCT573	*IDT74AHCT573J	IDT	8-BIT LCH	235-108
156▼	74AHCT573	*IDT74AHCT573L	IDT	8-BIT LCH	235-109
157▼	74AHCT573	IDT74AHCT573P	IDT	8-BIT LCH	235-110
158▼	74AHCT573	*IDT74AHCT573SO	IDT	8-BIT LCH	236- 1
159♦	74ALS00	DM74ALS00AJ	NSC	NAND GATE	95-103
160♦	74ALS00	DM74ALS00AN	NSC	NAND GATE	95-104
161♦	74ALS00	M74ALS00AP	MITA	NAND GATE	96- 38
162♦	74ALS00	M74ALS00AP	MITJ	NAND GATE	96- 38
163▼	74ALS00	*SN74ALS00AD	TII	NAND GATE	98- 62
164♦	74ALS00	SN74ALS00AN	TII	NAND GATE	98- 63
165♦	74ALS01	DM74ALS01J	NSC	NAND GATE	100- 43
166♦	74ALS01	DM74ALS01N	NSC	NAND GATE	100- 44
167♦	74ALS01	M74ALS01P	MITA	NAND GATE	100- 47
168♦	74ALS01	M74ALS01P	MITJ	NAND GATE	100- 47
169▼	74ALS01	*SN74ALS01D	TII	NAND GATE	100- 45
170♦	74ALS01	SN74ALS01N	TII	NAND GATE	100- 46
171♦	74ALS02	DM74ALS02J	NSC	NOR GATE	112- 61
172♦	74ALS02	DM74ALS02N	NSC	NOR GATE	112- 62
173♦	74ALS02	M74ALS02P	MITA	NOR GATE	112- 73
174♦	74ALS02	M74ALS02P	MITJ	NOR GATE	112- 73
175▼	74ALS02	*SN74ALS02D	TII	NOR GATE	113- 74
176♦	74ALS02	*SN74ALS02FN	TII	NOR GATE	113- 75
177♦	74ALS02	SN74ALS02N	TII	NOR GATE	113- 76
178♦	74ALS03	DM74ALS03AJ	NSC	NAND GATE	95-105
179♦	74ALS03	DM74ALS03AN	NSC	NAND GATE	95-106
180♦	74ALS03	M74ALS03AP	MITA	NAND GATE	96- 39
181♦	74ALS03	M74ALS03AP	MITJ	NAND GATE	96- 39
182▼	74ALS03	*SN74ALS03BD	TII	NAND GATE	100- 39
183▼	74ALS03	SN74ALS03BN	TII	NAND GATE	100- 40
184♦	74ALS08	DM74ALS08J	NSC	AND GATE	76- 26
185♦	74ALS08	DM74ALS08N	NSC	AND GATE	76- 27
186♦	74ALS08	M74ALS08P	MITA	AND GATE	76- 38
187♦	74ALS08	M74ALS08P	MITJ	AND GATE	76- 38
188▼	74ALS08	*SN74ALS08D	TII	AND GATE	77- 65
189♦	74ALS08	SN74ALS08N	TII	AND GATE	77- 66
190♦	74ALS09	DM74ALS09J	NSC	AND GATE	78- 59
191♦	74ALS09	DM74ALS09N	NSC	AND GATE	78- 60
192♦	74ALS09	M74ALS09P	MITA	AND GATE	78- 63
193♦	74ALS09	M74ALS09P	MITJ	AND GATE	78- 63
194▼	74ALS09	*SN74ALS09D	TII	AND GATE	78- 61
195♦	74ALS09	SN74ALS09N	TII	AND GATE	78- 62
196♦	74ALS10	DM74ALS10AJ	NSC	NAND GATE	102- 87
197♦	74ALS10	DM74ALS10AN	NSC	NAND GATE	102- 88
198♦	74ALS10	M74ALS10AP	MITJ	NAND GATE	102- 89
199♦	74ALS10	M74ALS10P	MITA	NAND GATE	101- 61
200▼	74ALS10	*SN74ALS10AD	TII	NAND GATE	102- 90
201♦	74ALS10	SN74ALS10AN	TII	NAND GATE	102- 91
202♦	74ALS11	DM74ALS11AJ	NSC	AND GATE	79- 53
203♦	74ALS11	DM74ALS11AN	NSC	AND GATE	79- 54
204♦	74ALS11	M74ALS11AP	MITJ	AND GATE	80- 58
205♦	74ALS11	M74ALS11P	MITA	AND GATE	79- 71
206▼	74ALS11	*SN74ALS11AD	TII	AND GATE	80- 59
207♦	74ALS11	SN74ALS11AN	TII	AND GATE	80- 60
208♦	74ALS12	DM74ALS12AJ	NSC	NAND GATE	101- 46
209♦	74ALS12	DM74ALS12AN	NSC	NAND GATE	101- 47
210♦	74ALS12	M74ALS12AP	MITJ	NAND GATE	103- 74
211♦	74ALS12	M74ALS12P	MITA	NAND GATE	101- 62
212▼	74ALS12	*SN74ALS12AD	TII	NAND GATE	103- 75
213♦	74ALS12	SN74ALS12AN	TII	NAND GATE	103- 76
214♦	74ALS12	SN74ALS12J	MOTA	NAND GATE	102- 24
215♦	74ALS15	DM74ALS15J	NSC	AND GATE	79- 55
216♦	74ALS15	DM74ALS15N	NSC	AND GATE	79- 56
217♦	74ALS15	M74ALS15AP	MITJ	AND GATE	80-101
218♦	74ALS15	M74ALS15P	MITA	AND GATE	79- 72
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4♦	74ALS20	M74ALS20AP	MITJ	NAND GATE	106- 66
5▼	74ALS20	*SN74ALS20AD	TII	NAND GATE	106- 62
6♦	74ALS20	SN74ALS20AN	TII	NAND GATE	106- 63
7♦	74ALS21	DM74ALS21J	NSC	AND GATE	82- 86
8♦	74ALS21	DM74ALS21N	NSC	AND GATE	82- 87
9♦	74ALS21	M74ALS21P	MITA	AND GATE	82- 92
10♦	74ALS21	M74ALS21P	MITJ	AND GATE	82- 92
11▼	74ALS21	*SN74ALS21AD	TII	AND GATE	82- 54
12▼	74ALS21	SN74ALS21AN	TII	AND GATE	82- 55
13♦	74ALS22	DM74ALS22BJ	NSC	NAND GATE	104- 80
14♦	74ALS22	DM74ALS22BN	NSC	NAND GATE	104- 81
15♦	74ALS22	M74ALS22AP	MITA	NAND GATE	104-102
16♦	74ALS22	M74ALS22AP	MITJ	NAND GATE	104-102
17▼	74ALS22	*SN74ALS22BD	TII	NAND GATE	107- 58
18▼	74ALS22	SN74ALS22BN	TII	NAND GATE	107- 59
19♦	74ALS27	DM74ALS27J	NSC	NOR GATE	115- 67
20♦	74ALS27	DM74ALS27N	NSC	NOR GATE	115- 68
21♦	74ALS27	M74ALS27P	MITA	NOR GATE	115- 77
22♦	74ALS27	M74ALS27P	MITJ	NOR GATE	115- 77
23▼	74ALS27	*SN74ALS27D	TII	NOR GATE	116- 23
24♦	74ALS27	SN74ALS27N	TII	NOR GATE	116- 24
25♦	74ALS30	DM74ALS30AJ	NSC	NAND GATE	109- 62
26♦	74ALS30	DM74ALS30AN	NSC	NAND GATE	109- 63
27♦	74ALS30	M74ALS30AP	MITJ	NAND GATE	109- 65
28♦	74ALS30	M74ALS30P	MITA	NAND GATE	110- 16
29▼	74ALS30	*SN74ALS30AD	TII	NAND GATE	109- 80
30♦	74ALS30	SN74ALS30AN	TII	NAND GATE	109- 81
31♦	74ALS32	DM74ALS32J	NSC	OR GATE	120- 21
32♦	74ALS32	DM74ALS32N	NSC	OR GATE	120- 22
33♦	74ALS32	M74ALS32P	MITA	OR GATE	120- 33
34♦	74ALS32	M74ALS32P	MITJ	OR GATE	120- 33
35▼	74ALS32	*SN74ALS32D	TII	OR GATE	121- 50
36♦	74ALS32	SN74ALS32N	TII	OR GATE	121- 51
37♦	74ALS74	DM74ALS74AJ	NSC	D FL-FLOP	52- 15
38♦	74ALS74	DM74ALS74AN	NSC	D FL-FLOP	52- 16
39♦	74ALS74	M74ALS74AP	MITJ	D FL-FLOP	52- 17
40♦	74ALS74	M74ALS74P	MITA	D FL-FLOP	52- 18
41▼	74ALS74	*SN74ALS74AD	TII	D FL-FLOP	52- 19
42♦	74ALS74	SN74ALS74AN	TII	D FL-FLOP	52- 20
43♦	74ALS86	DM74ALS86J	NSC	EX-OR GATE	91- 90
44♦	74ALS86	DM74ALS86N	NSC	EX-OR GATE	91- 91
45▼	74ALS86	SN74ALS86D	TII	EX-OR GATE	93- 55
46♦	74ALS86	SN74ALS86N	TII	EX-OR GATE	93- 56
47♦	74ALS109	DM74ALS109AJ	NSC	JK FL-FLOP	71- 41
48♦	74ALS109	DM74ALS109AN	NSC	JK FL-FLOP	71- 42
49♦	74ALS109	M74ALS109AP	MITJ	JK FL-FLOP	71- 43
50♦	74ALS109	M74ALS109P	MITA	JK FL-FLOP	71- 89
51▼	74ALS109	*SN74ALS109AD	TII	JK FL-FLOP	71- 46
52♦	74ALS109	SN74ALS109AN	TII	JK FL-FLOP	71- 47
53♦	74ALS112	DM74ALS112AJ	NSC	JK FL-FLOP	70- 31
54♦	74ALS112	DM74ALS112AN	NSC	JK FL-FLOP	70- 32
55♦	74ALS112	M74ALS112AP	MITA	JK FL-FLOP	70- 46
56♦	74ALS112	M74ALS112AP	MITJ	JK FL-FLOP	70- 46
57▼	74ALS112	*SN74ALS112AD	TII	JK FL-FLOP	71- 17
58♦	74ALS112	SN74ALS112AN	TII	JK FL-FLOP	71- 18
59♦	74ALS113	DM74ALS113AJ	NSC	JK FL-FLOP	70- 33
60♦	74ALS113	DM74ALS113AN	NSC	JK FL-FLOP	70- 34
61♦	74ALS113	M74ALS113AP	MITA	JK FL-FLOP	71- 44
62♦	74ALS113	M74ALS113AP	MITJ	JK FL-FLOP	71- 44
63▼	74ALS113	*SN74ALS113AD	TII	JK FL-FLOP	71- 19
64♦	74ALS113	SN74ALS113AN	TII	JK FL-FLOP	71- 20
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78▼	74ALS136	*SN74ALS136D	TII	EX-OR GATE	94- 22
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81♦	74ALS160	DM74ALS160AN	NSC	DEC CNTR	174- 80
82♦	74ALS160	M74ALS160AP	MITA	DEC CNTR	176- 15
83♦	74ALS160	M74ALS160AP	MITJ	DEC CNTR	176- 15
84▼	74ALS160	*SN74ALS160BD	TII	DEC CNTR	175- 71
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89♦	74ALS161	M74ALS161AP	MITJ	HEX CNTR	158- 54
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91▼	74ALS161	SN74ALS161BN	TII	HEX CNTR	157-104
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93♦	74ALS162	DM74ALS162AN	NSC	DEC CNTR	174- 82
94♦	74ALS162	M74ALS162AP	MITA	DEC CNTR	175- 59
95♦	74ALS162	M74ALS162AP	MITJ	DEC CNTR	175- 59
96▼	74ALS162	*SN74ALS162BD	TII	DEC CNTR	175- 73
97▼	74ALS162	SN74ALS162BN	TII	DEC CNTR	175- 74
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99♦	74ALS163	DM74ALS163AN	NSC	HEX CNTR	157- 9
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125♦	74ALS190	M74ALS190P	MITA	DEC CNTR	178- 84
126♦	74ALS190	M74ALS190P	MITJ	DEC CNTR	178- 84
127▼	74ALS190	*SN74ALS190D	TII	DEC CNTR	179- 35
128♦	74ALS190	SN74ALS190N	TII	DEC CNTR	179- 36
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132♦	74ALS191	M74ALS191P	MITJ	HEX CNTR	162- 57
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134♦	74ALS191	SN74ALS191N	TII	HEX CNTR	162- 81
135♦	74ALS192	DM74ALS192J	NSC	DEC CNTR	178-106
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137♦	74ALS192	M74ALS192P	MITA	DEC CNTR	178- 85
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181♦	74ALS521	DM74ALS521J	NSC	MAGN COMP	215-108
182♦	74ALS521	DM74ALS521N	NSC	MAGN COMP	215-109
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184♦	74ALS521	SN74ALS521N	TII	MAGN COMP	216- 3
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194♦	74ALS528	SN74ALS528N	TII	MAGN COMP	216- 40
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96▼	74ALS842	*SN74ALS842DW	TII	10-BIT LCH	243- 21
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104▼	74ALS844	*SN74ALS844DW	TII	9-BIT LCH	242- 45
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107▼	74ALS845	SN74ALS845-1NT	TII	8-BIT LCH	236-105
108▼	74ALS845	*SN74ALS845DW	TII	8-BIT LCH	236-106
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117♦	74ALS873	M74ALS873P	MITJ	8-BIT LCH	237- 72
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119▼	74ALS873	*SN74ALS873BFN	TII	4-BIT LCH	230- 82
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127▼	74ALS874	*SN74ALS874BFN	TII	D FL-FLOP	51-109
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130♦	74ALS876	M74ALS876P	MITA	D FL-FLOP	60-101
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133▼	74ALS876	*SN74ALS876AFN	TII	D FL-FLOP	51-110
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136♦	74ALS878	M74ALS878P	MITJ	D FL-FLOP	51- 99
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138▼	74ALS878	*SN74ALS878AFN	TII	D FL-FLOP	52- 2
139▼	74ALS878	SN74ALS878ANT	TII	D FL-FLOP	52- 3
140♦	74ALS879	M74ALS879P	MITA	D FL-FLOP	51-100
141♦	74ALS879	M74ALS879P	MITJ	D FL-FLOP	51-100
142▼	74ALS879	*SN74ALS879ADW	TII	D FL-FLOP	51- 85
143▼	74ALS879	*SN74ALS879AFN	TII	D FL-FLOP	51- 86
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146♦	74ALS880	DM74ALS880N	NSC	4-BIT LCH	230- 80
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149▼	74ALS880	*SN74ALS880ADW	TII	4-BIT LCH	230-105
150▼	74ALS880	*SN74ALS880AFN	TII	4-BIT LCH	230-106
151▼	74ALS880	SN74ALS880ANT	TII	4-BIT LCH	230-107
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153♦	74ALS990	SN74ALS990N	TII	8-BIT LCH	237- 68
154▼	74ALS991	*SN74ALS991DW	TII	8-BIT LCH	237- 34
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156♦	74ALS992	*SN74ALS992FN	TII	9-BIT LCH	242- 30
157♦	74ALS992	SN74ALS992NT	TII	9-BIT LCH	242- 31
158▼	74ALS993	*SN74ALS993DW	TII	9-BIT LCH	242- 47
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163▼	74ALS996	SN74ALS996-1NT	TII	8-BIT LCH	238- 8
164♦	74ALS996	SN74ALS996NT	TII	8-BIT LCH	238- 9
165▼	74ALS29806	SN74ALS29806NT	TII	MAGN COMP	215- 48
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197♦	74AS27	SN74AS27N	TII	NOR GATE	116- 8
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155♦	74AS873	SN74AS873NT	TII	4-BIT LCH	230- 49
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198♦	74C30	MM74C30N	NSC	NAND GATE	110- 90
199♦	74C32	MM74C32N	NSC	OR GATE	120- 62
200♦	74C42	MM74C42N(2)	NSC	DECODER	127- 33
201♦	74C73	MM74C73N	NSC	JK FL-FLOP	67- 41
202♦	74C74	MM74C74N	NSC	D FL-FLOP	50- 61
203♦	74C76	MM74C76N	NSC	JK FL-FLOP	67- 42
204♦	74C83	MM74C83N	NSC	ADDER	201- 18
205♦	74C85	MM74C85N	NSC	MAGN COMP	216- 51
206♦	74C86	MM74C86N	NSC	EX-OR GATE	92- 47
207♦	74C90	MM74C90N	NSC	DEC CNTR	172- 61
208♦	74C93	MM74C93N	NSC	HEX CNTR	154- 36
209♦	74C107	MM74C107N	NSC	JK FL-FLOP	67- 43
210♦	74C160	MM74C160N	NSC	DEC CNTR	172- 67
211♦	74C161	MM74C161N	NSC	HEX CNTR	154- 42
212♦	74C162	MM74C162N	NSC	DEC CNTR	172- 68
213♦	74C163	MM74C163N	NSC	HEX CNTR	154- 43
214	74C173	MM74C173N(1)	NSC	D FL-FLOP	54- 18
215	74C174	MM74C174N(1)	NSC	D FL-FLOP	56- 12
216	74C175	MM74C175N(1)	NSC	D FL-FLOP	54- 9
217♦	74C192	MM74C192N	NSC	DEC CNTR	177- 60
218♦	74C193	MM74C193N	NSC	HEX CNTR	159-103
219♦	74C221	MM74C221N	NSC	CLOCK/MV	190- 91
220	74C373	MM74C373N	NSC	8-BIT LCH	233- 68

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IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1▼	74C945	*MM74C945CQH	MXM	DEC CNTR	184- 29
2▼	74C945	MM74C945N	MXM	DEC CNTR	184- 30
3▼	74C947	*MM74C947CQH	MXM	DEC CNTR	184- 31
4▼	74C947	MM74C947N	MXM	DEC CNTR	184- 32
5♦	74F00	74F00DC	FSC	NAND GATE	95- 57
6♦	74F00	*74F00L1C	FSC	NAND GATE	97-109
7♦	74F00	74F00PC	FSC	NAND GATE	95- 58
8♦	74F00	*74F00QC	FSC	NAND GATE	97-110
9♦	74F00	*74F00SC	FSC	NAND GATE	98- 1
10♦	74F00	MC74F00J	MOTA	NAND GATE	96- 71
11♦	74F00	MC74F00N	MOTA	NAND GATE	96- 72
12♦	74F00	*N74F00D	MULB	NAND GATE	98- 5
13♦	74F00	*N74F00D	PHIN	NAND GATE	98- 5
14♦	74F00	*N74F00D	RTCF	NAND GATE	98- 5
15♦	74F00	*N74F00D	SIC	NAND GATE	98- 5
16♦	74F00	*N74F00D	VALG	NAND GATE	98- 5
17♦	74F00	N74F00F	VALG	NAND GATE	96- 95
18♦	74F00	N74F00N	MULB	NAND GATE	98- 6
19♦	74F00	N74F00N	PHIN	NAND GATE	98- 6
20♦	74F00	N74F00N	RTCF	NAND GATE	98- 6
21♦	74F00	N74F00N	SIC	NAND GATE	98- 6
22♦	74F00	N74F00N	VALG	NAND GATE	98- 6
23♦	74F02	74F02DC	FSC	NOR GATE	112- 47
24♦	74F02	*74F02L1C	FSC	NOR GATE	113- 54
25♦	74F02	74F02PC	FSC	NOR GATE	112- 48
26♦	74F02	*74F02QC	FSC	NOR GATE	113- 55
27♦	74F02	*74F02SC	FSC	NOR GATE	113- 56
28♦	74F02	MC74F02J	MOTA	NOR GATE	112- 86
29♦	74F02	MC74F02N	MOTA	NOR GATE	112- 87
30♦	74F02	*N74F02D	MULB	NOR GATE	113- 61
31♦	74F02	*N74F02D	PHIN	NOR GATE	113- 61
32♦	74F02	*N74F02D	RTCF	NOR GATE	113- 61
33♦	74F02	*N74F02D	SIC	NOR GATE	113- 61
34♦	74F02	*N74F02D	VALG	NOR GATE	113- 61
35♦	74F02	N74F02N	MULB	NOR GATE	113- 62
36♦	74F02	N74F02N	PHIN	NOR GATE	113- 62
37♦	74F02	N74F02N	RTCF	NOR GATE	113- 62
38♦	74F02	N74F02N	SIC	NOR GATE	113- 62
39♦	74F02	N74F02N	VALG	NOR GATE	113- 62
40♦	74F08	74F08DC	FSC	AND GATE	76- 9
41♦	74F08	*74F08L1C	FSC	AND GATE	76- 10
42♦	74F08	74F08PC	FSC	AND GATE	76- 11
43♦	74F08	*74F08QC	FSC	AND GATE	76- 12
44♦	74F08	*74F08SC	FSC	AND GATE	77- 36
45♦	74F08	MC74F08J	MOTA	AND GATE	76- 52
46♦	74F08	MC74F08N	MOTA	AND GATE	76- 53
47♦	74F08	*N74F08D	MULB	AND GATE	77- 38
48♦	74F08	*N74F08D	PHIN	AND GATE	77- 38
49♦	74F08	*N74F08D	RTCF	AND GATE	77- 38
50♦	74F08	*N74F08D	SIC	AND GATE	77- 38
51♦	74F08	*N74F08D	VALG	AND GATE	77- 38
52♦	74F08	N74F08N	MULB	AND GATE	77- 39
53♦	74F08	N74F08N	PHIN	AND GATE	77- 39
54♦	74F08	N74F08N	RTCF	AND GATE	77- 39
55♦	74F08	N74F08N	SIC	AND GATE	77- 39
56♦	74F08	N74F08N	VALG	AND GATE	77- 39
57♦	74F10	74F10DC	FSC	NAND GATE	101- 21
58♦	74F10	*74F10L1C	FSC	NAND GATE	102- 52
59♦	74F10	74F10PC	FSC	NAND GATE	101- 22
60♦	74F10	*74F10QC	FSC	NAND GATE	102- 53
61♦	74F10	*74F10SC	FSC	NAND GATE	102- 54
62♦	74F10	MC74F10J	MOTA	NAND GATE	101- 74
63♦	74F10	MC74F10N	MOTA	NAND GATE	101- 75
64♦	74F10	*N74F10D	MULB	NAND GATE	102- 56
65♦	74F10	*N74F10D	PHIN	NAND GATE	102- 56
66♦	74F10	*N74F10D	RTCF	NAND GATE	102- 56
67♦	74F10	*N74F10D	SIC	NAND GATE	102- 56
68♦	74F10	*N74F10D	VALG	NAND GATE	102- 56
69♦	74F10	N74F10F	VALG	NAND GATE	102- 57
70♦	74F10	N74F10N	MULB	NAND GATE	102- 58
71♦	74F10	N74F10N	PHIN	NAND GATE	102- 58
72♦	74F10	N74F10N	RTCF	NAND GATE	102- 58
73♦	74F10	N74F10N	SIC	NAND GATE	102- 58
74♦	74F10	N74F10N	VALG	NAND GATE	102- 58
75♦	74F11	74F11DC	FSC	AND GATE	79- 30
76♦	74F11	*74F11L1C	FSC	AND GATE	79- 31
77♦	74F11	74F11PC	FSC	AND GATE	79- 32
78♦	74F11	*74F11QC	FSC	AND GATE	79- 33
79♦	74F11	*74F11SC	FSC	AND GATE	80- 37
80♦	74F11	MC74F11J(A)	MOTA	AND GATE	79- 85
81♦	74F11	MC74F11N(A)	MOTA	AND GATE	79- 86
82♦	74F11	*N74F11D	MULB	AND GATE	80- 40
83♦	74F11	*N74F11D	PHIN	AND GATE	80- 40
84♦	74F11	*N74F11D	RTCF	AND GATE	80- 40
85♦	74F11	*N74F11D	SIC	AND GATE	80- 40
86♦	74F11	*N74F11D	VALG	AND GATE	80- 40
87♦	74F11	N74F11F	VALG	AND GATE	80- 35
88♦	74F11	N74F11N	MULB	AND GATE	80- 41
89♦	74F11	N74F11N	PHIN	AND GATE	80- 41
90♦	74F11	N74F11N	RTCF	AND GATE	80- 41
91♦	74F11	N74F11N	SIC	AND GATE	80- 41
92♦	74F11	N74F11N	VALG	AND GATE	80- 41
93♦	74F20	74F20DC	FSC	NAND GATE	105- 85
94♦	74F20	*74F20L1C	FSC	NAND GATE	105- 86
95♦	74F20	74F20PC	FSC	NAND GATE	105- 87
96♦	74F20	*74F20QC	FSC	NAND GATE	105- 88
97♦	74F20	*74F20SC	FSC	NAND GATE	105- 89
98♦	74F20	MC74F20J	MOTA	NAND GATE	105- 72
99♦	74F20	MC74F20N	MOTA	NAND GATE	105- 73
100♦	74F20	*N74F20D	MULB	NAND GATE	105- 95
101♦	74F20	*N74F20D	PHIN	NAND GATE	105- 95
102♦	74F20	*N74F20D	RTCF	NAND GATE	105- 95
103♦	74F20	*N74F20D	SIC	NAND GATE	105- 95
104♦	74F20	*N74F20D	VALG	NAND GATE	105- 95
105♦	74F20	N74F20F	VALG	NAND GATE	105- 96
106♦	74F20	N74F20N	MULB	NAND GATE	105- 97
107♦	74F20	N74F20N	PHIN	NAND GATE	105- 97
108♦	74F20	N74F20N	RTCF	NAND GATE	105- 97
109♦	74F20	N74F20N	SIC	NAND GATE	105- 97
110♦	74F20	N74F20N	VALG	NAND GATE	105- 97
111▼	74F21	MC74F21	MOTA	AND GATE	82- 53
112▼	74F27	N74F27D	PHIN	NOR GATE	116- 5
113▼	74F27	N74F27N	PHIN	NOR GATE	116- 6
114▼	74F30	N74F30D	PHIN	NAND GATE	109- 11
115▼	74F30	N74F30N	PHIN	NAND GATE	109- 12
116♦	74F32	74F32DC	FSC	OR GATE	120- 9
117♦	74F32	*74F32L1C	FSC	OR GATE	121- 34
118♦	74F32	74F32PC	FSC	OR GATE	120- 10
119♦	74F32	*74F32QC	FSC	OR GATE	121- 35
120♦	74F32	*74F32SC	FSC	OR GATE	121- 36
121♦	74F32	MC74F32J	MOTA	OR GATE	120- 45
122♦	74F32	MC74F32N	MOTA	OR GATE	120- 46
123♦	74F32	*N74F32D	MULB	OR GATE	121- 37
124♦	74F32	*N74F32D	PHIN	OR GATE	121- 37
125♦	74F32	*N74F32D	RTCF	OR GATE	121- 37
126♦	74F32	*N74F32D	SIC	OR GATE	121- 37
127♦	74F32	*N74F32D	VALG	OR GATE	121- 37
128♦	74F32	N74F32N	MULB	OR GATE	121- 38
129♦	74F32	N74F32N	PHIN	OR GATE	121- 38
130♦	74F32	N74F32N	RTCF	OR GATE	121- 38
131♦	74F32	N74F32N	SIC	OR GATE	121- 38
132♦	74F32	N74F32N	VALG	OR GATE	121- 38
133▼	74F40	N74F40D	PHIN	NAND GATE	106- 14
134▼	74F40	N74F40N	PHIN	NAND GATE	106- 15
135▼	74F51	N74F51D	PHIN	AND-OR-INV	85- 36
136▼	74F51	N74F51N	PHIN	AND-OR-INV	85- 37
137♦	74F64	74F64DC	FSC	AND-OR-INV	88- 46
138♦	74F64	*74F64L1C	FSC	AND-OR-INV	88- 47
139♦	74F64	74F64PC	FSC	AND-OR-INV	88- 48
140♦	74F64	*74F64QC	FSC	AND-OR-INV	88- 49
141♦	74F64	*74F64SC	FSC	AND-OR-INV	88- 50
142♦	74F64	MC74F64J	MOTA	AND-OR-INV	88- 41
143♦	74F64	MC74F64N	MOTA	AND-OR-INV	88- 42
144♦	74F64	*N74F64D	MULB	AND-OR-INV	88- 44
145♦	74F64	*N74F64D	PHIN	AND-OR-INV	88- 44
146♦	74F64	*N74F64D	RTCF	AND-OR-INV	88- 44
147♦	74F64	*N74F64D	SIC	AND-OR-INV	88- 44
148♦	74F64	*N74F64D	VALG	AND-OR-INV	88- 44
149♦	74F64	N74F64F	VALG	AND-OR-INV	88- 43
150♦	74F64	N74F64N	MULB	AND-OR-INV	88- 45
151♦	74F64	N74F64N	PHIN	AND-OR-INV	88- 45
152♦	74F64	N74F64N	RTCF	AND-OR-INV	88- 45
153♦	74F64	N74F64N	SIC	AND-OR-INV	88- 45
154♦	74F64	N74F64N	VALG	AND-OR-INV	88- 45
155♦	74F74	74F74DC	FSC	D FL-FLOP	53- 6
156	74F74	*74F74L1C	FSC	D FL-FLOP	53- 7
157♦	74F74	74F74PC	FSC	D FL-FLOP	53- 8
158	74F74	*74F74QC	FSC	D FL-FLOP	53- 9
159	74F74	*74F74SC	FSC	D FL-FLOP	53- 10
160♦	74F74	MC74F74J	MOTA	D FL-FLOP	53- 16
161♦	74F74	MC74F74N	MOTA	D FL-FLOP	53- 17
162▼	74F74	*N74F74D	MULB	D FL-FLOP	53- 18
163▼	74F74	*N74F74D	PHIN	D FL-FLOP	53- 18
164▼	74F74	*N74F74D	RTCF	D FL-FLOP	53- 18
165▼	74F74	*N74F74D	SIC	D FL-FLOP	53- 18
166▼	74F74	*N74F74D	VALG	D FL-FLOP	53- 18
167♦	74F74	N74F74F	VALG	D FL-FLOP	53- 19
168♦	74F74	N74F74N	MULB	D FL-FLOP	53- 20
169♦	74F74	N74F74N	PHIN	D FL-FLOP	53- 20
170♦	74F74	N74F74N	RTCF	D FL-FLOP	53- 20
171♦	74F74	N74F74N	SIC	D FL-FLOP	53- 20
172♦	74F74	N74F74N	VALG	D FL-FLOP	53- 20
173♦	74F85	74F85DC(A)	FSC	MAGN COMP	216- 54
174	74F85	*74F85L1C(A)	FSC	MAGN COMP	216- 55
175♦	74F85	74F85PC(A)	FSC	MAGN COMP	216- 56
176	74F85	*74F85QC(A)	FSC	MAGN COMP	216- 57
177	74F85	*74F85SC(A)	FSC	MAGN COMP	216- 58
178▼	74F85	*N74F85D(A)	MULB	MAGN COMP	216- 59
179▼	74F85	*N74F85D(A)	PHIN	MAGN COMP	216- 59
180▼	74F85	*N74F85D(A)	RTCF	MAGN COMP	216- 59
181▼	74F85	*N74F85D(A)	SIC	MAGN COMP	216- 59
182▼	74F85	*N74F85D(A)	VALG	MAGN COMP	216- 59
183♦	74F85	N74F85N(A)	MULB	MAGN COMP	216- 60
184♦	74F85	N74F85N(A)	PHIN	MAGN COMP	216- 60
185♦	74F85	N74F85N(A)	RTCF	MAGN COMP	216- 60
186♦	74F85	N74F85N(A)	SIC	MAGN COMP	216- 60
187♦	74F85	N74F85N(A)	VALG	MAGN COMP	216- 60
188♦	74F86	74F86DC	FSC	EX-OR GATE	91- 44
189♦	74F86	*74F86L1C	FSC	EX-OR GATE	93- 16
190♦	74F86	74F86PC	FSC	EX-OR GATE	91- 45
191♦	74F86	*74F86QC	FSC	EX-OR GATE	93- 17
192♦	74F86	*74F86SC	FSC	EX-OR GATE	93- 18
193♦	74F86	MC74F86J	MOTA	EX-OR GATE	93- 14
194♦	74F86	MC74F86N	MOTA	EX-OR GATE	93- 15
195♦	74F86	*N74F86D	MULB	EX-OR GATE	93- 11
196♦	74F86	*N74F86D	PHIN	EX-OR GATE	93- 11
197♦	74F86	*N74F86D	RTCF	EX-OR GATE	93- 11
198♦	74F86	*N74F86D	SIC	EX-OR GATE	93- 11
199♦	74F86	*N74F86D	VALG	EX-OR GATE	93- 11
200♦	74F86	N74F86F	VALG	EX-OR GATE	93- 10
201♦	74F86	N74F86N	MULB	EX-OR GATE	93- 19
202♦	74F86	N74F86N	PHIN	EX-OR GATE	93- 19
203♦	74F86	N74F86N	RTCF	EX-OR GATE	93- 19
204♦	74F86	N74F86N	SIC	EX-OR GATE	93- 19
205♦	74F86	N74F86N	VALG	EX-OR GATE	93- 19
206♦	74F109	74F109DC	FSC	JK FL-FLOP	74- 8
207	74F109	*74F109L1C	FSC	JK FL-FLOP	74- 9
208♦	74F109	74F109PC	FSC	JK FL-FLOP	74- 10
209	74F109	*74F109QC	FSC	JK FL-FLOP	74- 11
210	74F109	*74F109SC	FSC	JK FL-FLOP	74- 12
211♦	74F109	MC74F109J	MOTA	JK FL-FLOP	74- 37
212♦	74F109	MC74F109N	MOTA	JK FL-FLOP	74- 38
213♦	74F109	*N74F109D	MULB	JK FL-FLOP	74- 39
214♦	74F109	*N74F109D	PHIN	JK FL-FLOP	74- 39
215♦	74F109	*N74F109D	RTCF	JK FL-FLOP	74- 39
216♦	74F109	*N74F109D	SIC	JK FL-FLOP	74- 39
217♦	74F109	*N74F109D	VALG	JK FL-FLOP	74- 39
218♦	74F109	N74F109F	VALG	JK FL-FLOP	74- 40
219♦	74F109	N74F109N	MULB	JK FL-FLOP	74- 41
220♦	74F109	N74F109N	PHIN	JK FL-FLOP	74- 41

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LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	74F109	N74F109N	RTCF	JK FL-FLOP	74- 41
2♦	74F109	N74F109N	SIC	JK FL-FLOP	74- 41
3♦	74F109	N74F109N	VALG	JK FL-FLOP	74- 41
4♦	74F112	74F112DC	FSC	JK FL-FLOP	74- 56
5	74F112	*74F112L1C	FSC	JK FL-FLOP	74- 57
6♦	74F112	74F112PC	FSC	JK FL-FLOP	74- 58
7	74F112	*74F112QC	FSC	JK FL-FLOP	74- 59
8	74F112	*74F112SC	FSC	JK FL-FLOP	74- 60
9♦	74F112	MC74F112J	MOTA	JK FL-FLOP	74- 65
10♦	74F112	MC74F112N	MOTA	JK FL-FLOP	74- 66
11♦	74F112	*N74F112D(A)	MULB	JK FL-FLOP	74- 69
12♦	74F112	*N74F112D(A)	PHIN	JK FL-FLOP	74- 69
13♦	74F112	*N74F112D(A)	RTCF	JK FL-FLOP	74- 69
14♦	74F112	*N74F112D(A)	SIC	JK FL-FLOP	74- 69
15♦	74F112	*N74F112D(A)	VALG	JK FL-FLOP	74- 69
16♦	74F112	N74F112N(A)	MULB	JK FL-FLOP	74- 70
17♦	74F112	N74F112N(A)	PHIN	JK FL-FLOP	74- 70
18♦	74F112	N74F112N(A)	RTCF	JK FL-FLOP	74- 70
19♦	74F112	N74F112N(A)	SIC	JK FL-FLOP	74- 70
20♦	74F112	N74F112N(A)	VALG	JK FL-FLOP	74- 70
21♦	74F113	74F113DC	FSC	JK FL-FLOP	74- 13
22	74F113	*74F113L1C	FSC	JK FL-FLOP	74- 14
23♦	74F113	74F113PC	FSC	JK FL-FLOP	74- 15
24	74F113	*74F113QC	FSC	JK FL-FLOP	74- 16
25	74F113	*74F113SC	FSC	JK FL-FLOP	74- 17
26♦	74F113	MC74F113J	MOTA	JK FL-FLOP	74- 67
27♦	74F113	MC74F113N	MOTA	JK FL-FLOP	74- 68
28♦	74F113	*N74F113D(A)	MULB	JK FL-FLOP	74- 42
29♦	74F113	*N74F113D(A)	PHIN	JK FL-FLOP	74- 42
30♦	74F113	*N74F113D(A)	RTCF	JK FL-FLOP	74- 42
31♦	74F113	*N74F113D(A)	SIC	JK FL-FLOP	74- 42
32♦	74F113	*N74F113D(A)	VALG	JK FL-FLOP	74- 42
33♦	74F113	N74F113N(A)	MULB	JK FL-FLOP	74- 43
34♦	74F113	N74F113N(A)	PHIN	JK FL-FLOP	74- 43
35♦	74F113	N74F113N(A)	RTCF	JK FL-FLOP	74- 43
36♦	74F113	N74F113N(A)	SIC	JK FL-FLOP	74- 43
37♦	74F113	N74F113N(A)	VALG	JK FL-FLOP	74- 43
38♦	74F114	74F114DC	FSC	JK FL-FLOP	74- 18
39	74F114	*74F114L1C	FSC	JK FL-FLOP	74- 19
40♦	74F114	74F114PC	FSC	JK FL-FLOP	74- 20
41	74F114	*74F114QC	FSC	JK FL-FLOP	74- 21
42	74F114	*74F114SC	FSC	JK FL-FLOP	74- 22
43♦	74F114	MC74F114J	MOTA	JK FL-FLOP	73-105
44♦	74F114	MC74F114N	MOTA	JK FL-FLOP	73-106
45♦	74F114	*N74F114D(A)	MULB	JK FL-FLOP	74- 44
46♦	74F114	*N74F114D(A)	PHIN	JK FL-FLOP	74- 44
47♦	74F114	*N74F114D(A)	RTCF	JK FL-FLOP	74- 44
48♦	74F114	*N74F114D(A)	SIC	JK FL-FLOP	74- 44
49♦	74F114	*N74F114D(A)	VALG	JK FL-FLOP	74- 44
50♦	74F114	N74F114N(A)	MULB	JK FL-FLOP	73- 98
51♦	74F114	N74F114N(A)	PHIN	JK FL-FLOP	73- 98
52♦	74F114	N74F114N(A)	RTCF	JK FL-FLOP	73- 98
53♦	74F114	N74F114N(A)	SIC	JK FL-FLOP	73- 98
54♦	74F114	N74F114N(A)	VALG	JK FL-FLOP	73- 98
55♦	74F138	MC74F138J(2A)	MOTA	DECODER	125- 27
56♦	74F138	MC74F138N(2A)	MOTA	DECODER	125- 28
57♦	74F160	74F160ADC	FSC	DEC CNTR	176- 65
58♦	74F160	*74F160AL1C	FSC	DEC CNTR	176- 66
59♦	74F160	74F160APC	FSC	DEC CNTR	176- 67
60♦	74F160	*74F160AQC	FSC	DEC CNTR	176- 68
61♦	74F160	*74F160ASC	FSC	DEC CNTR	176- 69
62♦	74F160	74F160DC	FSC	DEC CNTR	176- 70
63♦	74F160	74F160PC	FSC	DEC CNTR	176- 71
64♦	74F160	MC74F160AJ	MOTA	DEC CNTR	176- 83
65♦	74F160	MC74F160AN	MOTA	DEC CNTR	176- 84
66♦	74F160	*N74F160AD(A)	MULB	DEC CNTR	176- 87
67♦	74F160	*N74F160AD(A)	PHIN	DEC CNTR	176- 87
68♦	74F160	*N74F160AD(A)	RTCF	DEC CNTR	176- 87
69♦	74F160	*N74F160AD(A)	SIC	DEC CNTR	176- 87
70♦	74F160	*N74F160AD(A)	VALG	DEC CNTR	176- 87
71♦	74F160	N74F160AN(A)	MULB	DEC CNTR	176- 88
72♦	74F160	N74F160AN(A)	PHIN	DEC CNTR	176- 88
73♦	74F160	N74F160AN(A)	RTCF	DEC CNTR	176- 88
74♦	74F160	N74F160AN(A)	SIC	DEC CNTR	176- 88
75♦	74F160	N74F160AN(A)	VALG	DEC CNTR	176- 88
76♦	74F161	74F161ADC	FSC	HEX CNTR	158-106
77♦	74F161	*74F161AL1C	FSC	HEX CNTR	158-107
78♦	74F161	74F161APC	FSC	HEX CNTR	158-108
79♦	74F161	*74F161AQC	FSC	HEX CNTR	158-109
80♦	74F161	*74F161ASC	FSC	HEX CNTR	158-110
81♦	74F161	74F161DC	FSC	HEX CNTR	159- 1
82♦	74F161	74F161PC	FSC	HEX CNTR	159- 2
83♦	74F161	MC74F161AJ	MOTA	HEX CNTR	159- 14
84♦	74F161	MC74F161AN	MOTA	HEX CNTR	159- 15
85♦	74F161	*N74F161AD(A)	MULB	HEX CNTR	159- 18
86♦	74F161	*N74F161AD(A)	PHIN	HEX CNTR	159- 18
87♦	74F161	*N74F161AD(A)	RTCF	HEX CNTR	159- 18
88♦	74F161	*N74F161AD(A)	SIC	HEX CNTR	159- 18
89♦	74F161	*N74F161AD(A)	VALG	HEX CNTR	159- 18
90♦	74F161	N74F161AN(A)	MULB	HEX CNTR	159- 19
91♦	74F161	N74F161AN(A)	PHIN	HEX CNTR	159- 19
92♦	74F161	N74F161AN(A)	RTCF	HEX CNTR	159- 19
93♦	74F161	N74F161AN(A)	SIC	HEX CNTR	159- 19
94♦	74F161	N74F161AN(A)	VALG	HEX CNTR	159- 19
95♦	74F162	74F162ADC	FSC	DEC CNTR	176- 72
96♦	74F162	*74F162AL1C	FSC	DEC CNTR	176- 73
97♦	74F162	74F162APC	FSC	DEC CNTR	176- 74
98♦	74F162	*74F162AQC	FSC	DEC CNTR	176- 75
99♦	74F162	*74F162ASC	FSC	DEC CNTR	176- 76
100♦	74F162	74F162DC	FSC	DEC CNTR	176- 77
101♦	74F162	74F162PC	FSC	DEC CNTR	176- 78
102♦	74F162	MC74F162AJ	MOTA	DEC CNTR	176- 85
103♦	74F162	MC74F162AN	MOTA	DEC CNTR	176- 86
104♦	74F162	*N74F162AD(A)	MULB	DEC CNTR	176- 89
105♦	74F162	*N74F162AD(A)	PHIN	DEC CNTR	176- 89
106♦	74F162	*N74F162AD(A)	RTCF	DEC CNTR	176- 89
107♦	74F162	*N74F162AD(A)	SIC	DEC CNTR	176- 89
108♦	74F162	*N74F162AD(A)	VALG	DEC CNTR	176- 89
109♦	74F162	N74F162AN(A)	MULB	DEC CNTR	176- 90
110♦	74F162	N74F162AN(A)	PHIN	DEC CNTR	176- 90
111♦	74F162	N74F162AN(A)	RTCF	DEC CNTR	176- 90
112♦	74F162	N74F162AN(A)	SIC	DEC CNTR	176- 90
113♦	74F162	N74F162AN(A)	VALG	DEC CNTR	176- 90
114♦	74F163	74F163ADC	FSC	HEX CNTR	159- 3
115♦	74F163	*74F163AL1C	FSC	HEX CNTR	159- 4
116♦	74F163	74F163APC	FSC	HEX CNTR	159- 5
117♦	74F163	*74F163AQC	FSC	HEX CNTR	159- 6
118♦	74F163	*74F163ASC	FSC	HEX CNTR	159- 7
119♦	74F163	74F163DC	FSC	HEX CNTR	159- 8
120♦	74F163	74F163PC	FSC	HEX CNTR	159- 9
121♦	74F163	MC74F163AJ	MOTA	HEX CNTR	159- 16
122♦	74F163	MC74F163AN	MOTA	HEX CNTR	159- 17
123♦	74F163	*N74F163AD(A)	MULB	HEX CNTR	159- 20
124♦	74F163	*N74F163AD(A)	PHIN	HEX CNTR	159- 20
125♦	74F163	*N74F163AD(A)	RTCF	HEX CNTR	159- 20
126♦	74F163	*N74F163AD(A)	SIC	HEX CNTR	159- 20
127♦	74F163	*N74F163AD(A)	VALG	HEX CNTR	159- 20
128♦	74F163	N74F163AN(A)	MULB	HEX CNTR	159- 21
129♦	74F163	N74F163AN(A)	PHIN	HEX CNTR	159- 21
130♦	74F163	N74F163AN(A)	RTCF	HEX CNTR	159- 21
131♦	74F163	N74F163AN(A)	SIC	HEX CNTR	159- 21
132♦	74F163	N74F163AN(A)	VALG	HEX CNTR	159- 21
133♦	74F168	74F168DC	FSC	DEC CNTR	180- 47
134♦	74F168	*74F168L1C	FSC	DEC CNTR	180- 48
135♦	74F168	74F168PC	FSC	DEC CNTR	180- 49
136♦	74F168	*74F168QC	FSC	DEC CNTR	180- 50
137♦	74F168	*74F168SC	FSC	DEC CNTR	180- 51
138♦	74F168	*N74F168D(A)	MULB	DEC CNTR	180- 39
139♦	74F168	*N74F168D(A)	PHIN	DEC CNTR	180- 39
140♦	74F168	*N74F168D(A)	RTCF	DEC CNTR	180- 39
141♦	74F168	*N74F168D(A)	SIC	DEC CNTR	180- 39
142♦	74F168	*N74F168D(A)	VALG	DEC CNTR	180- 39
143♦	74F168	N74F168N(A)	MULB	DEC CNTR	180- 40
144♦	74F168	N74F168N(A)	PHIN	DEC CNTR	180- 40
145♦	74F168	N74F168N(A)	RTCF	DEC CNTR	180- 40
146♦	74F168	N74F168N(A)	SIC	DEC CNTR	180- 40
147♦	74F168	N74F168N(A)	VALG	DEC CNTR	180- 40
148♦	74F169	74F169DC	FSC	HEX CNTR	163- 74
149♦	74F169	*74F169L1C	FSC	HEX CNTR	163- 75
150♦	74F169	74F169PC	FSC	HEX CNTR	163- 76
151♦	74F169	*74F169QC	FSC	HEX CNTR	163- 77
152♦	74F169	*74F169SC	FSC	HEX CNTR	163- 78
153♦	74F169	*N74F169D(A)	MULB	HEX CNTR	163- 64
154♦	74F169	*N74F169D(A)	PHIN	HEX CNTR	163- 64
155♦	74F169	*N74F169D(A)	RTCF	HEX CNTR	163- 64
156♦	74F169	*N74F169D(A)	SIC	HEX CNTR	163- 64
157♦	74F169	*N74F169D(A)	VALG	HEX CNTR	163- 64
158♦	74F169	N74F169N(A)	MULB	HEX CNTR	163- 65
159♦	74F169	N74F169N(A)	PHIN	HEX CNTR	163- 65
160♦	74F169	N74F169N(A)	RTCF	HEX CNTR	163- 65
161♦	74F169	N74F169N(A)	SIC	HEX CNTR	163- 65
162♦	74F169	N74F169N(A)	VALG	HEX CNTR	163- 65
163♦	74F174	74F174DC	FSC	D FL-FLOP	57- 48
164	74F174	*74F174L1C	FSC	D FL-FLOP	57- 49
165♦	74F174	74F174PC	FSC	D FL-FLOP	57- 50
166	74F174	*74F174QC	FSC	D FL-FLOP	57- 51
167	74F174	*74F174SC	FSC	D FL-FLOP	57- 52
168♦	74F174	MC74F174J	MOTA	D FL-FLOP	57- 55
169♦	74F174	MC74F174N	MOTA	D FL-FLOP	57- 56
170♦	74F174	*N74F174D(A)	MULB	D FL-FLOP	57- 29
171♦	74F174	*N74F174D(A)	PHIN	D FL-FLOP	57- 29
172♦	74F174	*N74F174D(A)	RTCF	D FL-FLOP	57- 29
173♦	74F174	*N74F174D(A)	SIC	D FL-FLOP	57- 29
174♦	74F174	*N74F174D(A)	VALG	D FL-FLOP	57- 29
175♦	74F174	N74F174N(A)	MULB	D FL-FLOP	57- 30
176♦	74F174	N74F174N(A)	PHIN	D FL-FLOP	57- 30
177♦	74F174	N74F174N(A)	RTCF	D FL-FLOP	57- 30
178♦	74F174	N74F174N(A)	SIC	D FL-FLOP	57- 30
179♦	74F174	N74F174N(A)	VALG	D FL-FLOP	57- 30
180♦	74F175	74F175DC	FSC	D FL-FLOP	55-102
181	74F175	*74F175L1C	FSC	D FL-FLOP	55- 93
182♦	74F175	74F175PC	FSC	D FL-FLOP	55-103
183	74F175	*74F175QC	FSC	D FL-FLOP	55- 94
184	74F175	*74F175SC	FSC	D FL-FLOP	55- 95
185♦	74F175	MC74F175J	MOTA	D FL-FLOP	55- 98
186♦	74F175	MC74F175N	MOTA	D FL-FLOP	55- 99
187♦	74F175	*N74F175D(A)	MULB	D FL-FLOP	55- 79
188♦	74F175	*N74F175D(A)	PHIN	D FL-FLOP	55- 79
189♦	74F175	*N74F175D(A)	RTCF	D FL-FLOP	55- 79
190♦	74F175	*N74F175D(A)	SIC	D FL-FLOP	55- 79
191♦	74F175	*N74F175D(A)	VALG	D FL-FLOP	55- 79
192♦	74F175	N74F175N(A)	MULB	D FL-FLOP	55- 80
193♦	74F175	N74F175N(A)	PHIN	D FL-FLOP	55- 80
194♦	74F175	N74F175N(A)	RTCF	D FL-FLOP	55- 80
195♦	74F175	N74F175N(A)	SIC	D FL-FLOP	55- 80
196♦	74F175	N74F175N(A)	VALG	D FL-FLOP	55- 80
197♦	74F181	74F181DC	FSC	4-BIT ALU	221- 48
198	74F181	*74F181L1C	FSC	4-BIT ALU	221- 49
199♦	74F181	74F181PC	FSC	4-BIT ALU	221- 50
200	74F181	*74F181QC	FSC	4-BIT ALU	221- 51
201	74F181	*74F181SC	FSC	4-BIT ALU	221- 52
202♦	74F181	MC74F181J	MOTA	4-BIT ALU	221- 34
203♦	74F181	MC74F181N	MOTA	4-BIT ALU	221- 35
204♦	74F181	*N74F181D(A)	MULB	4-BIT ALU	220- 79
205♦	74F181	*N74F181D(A)	PHIN	4-BIT ALU	220- 79
206♦	74F181	*N74F181D(A)	RTCF	4-BIT ALU	220- 79
207♦	74F181	*N74F181D(A)	SIC	4-BIT ALU	220- 79
208♦	74F181	*N74F181D(A)	VALG	4-BIT ALU	220- 79
209♦	74F181	N74F181N(A)	MULB	4-BIT ALU	220- 80
210♦	74F181	N74F181N(A)	PHIN	4-BIT ALU	220- 80
211♦	74F181	N74F181N(A)	RTCF	4-BIT ALU	220- 80
212♦	74F181	N74F181N(A)	SIC	4-BIT ALU	220- 80
213♦	74F181	N74F181N(A)	VALG	4-BIT ALU	220- 80
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215	74F182	*74F182L1C	FSC	PARITY GEN	224- 80
216♦	74F182	74F182PC	FSC	PARITY GEN	224- 81
217	74F182	*74F182QC	FSC	PARITY GEN	224- 82
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2♦	74F182	*N74F182D(A)	PHIN	PARITY GEN	225- 6
3♦	74F182	*N74F182D(A)	RTCF	PARITY GEN	225- 6
4♦	74F182	*N74F182D(A)	SIC	PARITY GEN	225- 6
5♦	74F182	*N74F182D(A)	VALG	PARITY GEN	225- 6
6♦	74F182	N74F182N(A)	MULB	PARITY GEN	225- 7
7♦	74F182	N74F182N(A)	PHIN	PARITY GEN	225- 7
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9♦	74F182	N74F182N(A)	SIC	PARITY GEN	225- 7
10♦	74F182	N74F182N(A)	VALG	PARITY GEN	225- 7
11♦	74F190	74F190DC	FSC	DEC CNTR	180- 63
12♦	74F190	*74F190L1C	FSC	DEC CNTR	180- 64
13♦	74F190	74F190PC	FSC	DEC CNTR	180- 65
14♦	74F190	*74F190QC	FSC	DEC CNTR	180- 66
15♦	74F190	*74F190SC	FSC	DEC CNTR	180- 67
16♦	74F190	MC74F190J	MOTA	DEC CNTR	180- 41
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18♦	74F190	*N74F190D(A)	MULB	DEC CNTR	180- 77
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21♦	74F190	*N74F190D(A)	SIC	DEC CNTR	180- 77
22♦	74F190	*N74F190D(A)	VALG	DEC CNTR	180- 77
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24♦	74F190	N74F190N(A)	PHIN	DEC CNTR	180- 78
25♦	74F190	N74F190N(A)	RTCF	DEC CNTR	180- 78
26♦	74F190	N74F190N(A)	SIC	DEC CNTR	180- 78
27♦	74F190	N74F190N(A)	VALG	DEC CNTR	180- 78
28♦	74F191	74F191DC	FSC	HEX CNTR	163- 88
29♦	74F191	*74F191L1C	FSC	HEX CNTR	163- 89
30♦	74F191	74F191PC	FSC	HEX CNTR	163- 90
31♦	74F191	*74F191QC	FSC	HEX CNTR	163- 91
32♦	74F191	*74F191SC	FSC	HEX CNTR	163- 92
33♦	74F191	MC74F191J	MOTA	HEX CNTR	163- 68
34♦	74F191	MC74F191N	MOTA	HEX CNTR	163- 69
35♦	74F191	*N74F191D(A)	MULB	HEX CNTR	163-102
36♦	74F191	*N74F191D(A)	PHIN	HEX CNTR	163-102
37♦	74F191	*N74F191D(A)	RTCF	HEX CNTR	163-102
38♦	74F191	*N74F191D(A)	SIC	HEX CNTR	163-102
39♦	74F191	*N74F191D(A)	VALG	HEX CNTR	163-102
40♦	74F191	N74F191N(A)	MULB	HEX CNTR	163-103
41♦	74F191	N74F191N(A)	PHIN	HEX CNTR	163-103
42♦	74F191	N74F191N(A)	RTCF	HEX CNTR	163-103
43♦	74F191	N74F191N(A)	SIC	HEX CNTR	163-103
44♦	74F191	N74F191N(A)	VALG	HEX CNTR	163-103
45♦	74F192	74F192DC	FSC	DEC CNTR	180- 68
46♦	74F192	*74F192L1C	FSC	DEC CNTR	180- 69
47♦	74F192	74F192PC	FSC	DEC CNTR	180- 70
48♦	74F192	*74F192QC	FSC	DEC CNTR	180- 71
49♦	74F192	*74F192SC	FSC	DEC CNTR	180- 72
50♦	74F192	MC74F192J	MOTA	DEC CNTR	180- 75
51♦	74F192	MC74F192N	MOTA	DEC CNTR	180- 76
52♦	74F192	*N74F192D(A)	MULB	DEC CNTR	177- 46
53♦	74F192	*N74F192D(A)	PHIN	DEC CNTR	177- 46
54♦	74F192	*N74F192D(A)	RTCF	DEC CNTR	177- 46
55♦	74F192	*N74F192D(A)	SIC	DEC CNTR	177- 46
56♦	74F192	*N74F192D(A)	VALG	DEC CNTR	177- 46
57♦	74F192	N74F192N(A)	MULB	DEC CNTR	177- 47
58♦	74F192	N74F192N(A)	PHIN	DEC CNTR	177- 47
59♦	74F192	N74F192N(A)	RTCF	DEC CNTR	177- 47
60♦	74F192	N74F192N(A)	SIC	DEC CNTR	177- 47
61♦	74F192	N74F192N(A)	VALG	DEC CNTR	177- 47
62♦	74F193	74F193DC	FSC	HEX CNTR	163- 93
63♦	74F193	*74F193L1C	FSC	HEX CNTR	163- 94
64♦	74F193	74F193PC	FSC	HEX CNTR	163- 95
65♦	74F193	*74F193QC	FSC	HEX CNTR	163- 96
66♦	74F193	*74F193SC	FSC	HEX CNTR	163- 97
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68♦	74F193	MC74F193N	MOTA	HEX CNTR	163-101
69♦	74F193	*N74F193D(A)	MULB	HEX CNTR	163-104
70♦	74F193	*N74F193D(A)	PHIN	HEX CNTR	163-104
71♦	74F193	*N74F193D(A)	RTCF	HEX CNTR	163-104
72♦	74F193	*N74F193D(A)	SIC	HEX CNTR	163-104
73♦	74F193	*N74F193D(A)	VALG	HEX CNTR	163-104
74♦	74F193	N74F193N(A)	MULB	HEX CNTR	163-105
75♦	74F193	N74F193N(A)	PHIN	HEX CNTR	163-105
76♦	74F193	N74F193N(A)	RTCF	HEX CNTR	163-105
77♦	74F193	N74F193N(A)	SIC	HEX CNTR	163-105
78♦	74F193	N74F193N(A)	VALG	HEX CNTR	163-105
79♦	74F256	74F256DC(A)	FSC	4-BIT LCH	230- 53
80♦	74F256	*74F256L1C(A)	FSC	4-BIT LCH	230- 54
81♦	74F256	74F256PC(A)	FSC	4-BIT LCH	230- 55
82♦	74F256	*74F256QC(A)	FSC	4-BIT LCH	230- 56
83♦	74F256	*74F256SC(A)	FSC	4-BIT LCH	230- 57
84♦	74F256	*N74F256D(A)	MULB	2-BIT LCH	229- 30
85♦	74F256	*N74F256D(A)	PHIN	2-BIT LCH	229- 30
86♦	74F256	*N74F256D(A)	RTCF	2-BIT LCH	229- 30
87♦	74F256	*N74F256D(A)	SIC	2-BIT LCH	229- 30
88♦	74F256	*N74F256D(A)	VALG	2-BIT LCH	229- 30
89♦	74F256	N74F256N(A)	MULB	2-BIT LCH	229- 31
90♦	74F256	N74F256N(A)	PHIN	2-BIT LCH	229- 31
91♦	74F256	N74F256N(A)	RTCF	2-BIT LCH	229- 31
92♦	74F256	N74F256N(A)	SIC	2-BIT LCH	229- 31
93♦	74F256	N74F256N(A)	VALG	2-BIT LCH	229- 31
94♦	74F259	74F259DC(A)	FSC	8-BIT LCH	234- 87
95♦	74F259	*74F259L1C(A)	FSC	8-BIT LCH	234- 88
96♦	74F259	74F259PC(A)	FSC	8-BIT LCH	234- 89
97♦	74F259	*74F259QC(A)	FSC	8-BIT LCH	234- 90
98♦	74F259	*74F259SC(A)	FSC	8-BIT LCH	234- 91
99♦	74F259	*N74F259D(A)	MULB	LATCH	229- 6
100♦	74F259	*N74F259D(A)	PHIN	LATCH	229- 6
101♦	74F259	*N74F259D(A)	RTCF	LATCH	229- 6
102♦	74F259	*N74F259D(A)	SIC	LATCH	229- 6
103♦	74F259	*N74F259D(A)	VALG	LATCH	229- 6
104♦	74F259	N74F259N(A)	MULB	LATCH	229- 7
105♦	74F259	N74F259N(A)	PHIN	LATCH	229- 7
106♦	74F259	N74F259N(A)	RTCF	LATCH	229- 7
107♦	74F259	N74F259N(A)	SIC	LATCH	229- 7
108♦	74F259	N74F259N(A)	VALG	LATCH	229- 7
109▼	74F260	*N74F260D	PHIN	NOR GATE	119- 14
110♦	74F260	N74F260N	PHIN	NOR GATE	119- 25
111♦	74F269	74F269DC(A)	FSC	COUNTER	166- 98
112♦	74F269	*74F269L1C(A)	FSC	COUNTER	166- 99
113♦	74F269	74F269PC(A)	FSC	COUNTER	166-100
114♦	74F269	*74F269QC(A)	FSC	COUNTER	166-101
115♦	74F269	*74F269SC(A)	FSC	COUNTER	166-102
116♦	74F269	74F269SPC(A)	FSC	COUNTER	166-103
117♦	74F269	*N74F269D(A)	MULB	COUNTER	169- 74
118♦	74F269	*N74F269D(A)	PHIN	COUNTER	169- 74
119♦	74F269	*N74F269D(A)	RTCF	COUNTER	169- 74
120♦	74F269	*N74F269D(A)	SIC	COUNTER	169- 74
121♦	74F269	*N74F269D(A)	VALG	COUNTER	169- 74
122♦	74F269	N74F269N(A)	MULB	COUNTER	169- 75
123♦	74F269	N74F269N(A)	PHIN	COUNTER	169- 75
124♦	74F269	N74F269N(A)	RTCF	COUNTER	169- 75
125♦	74F269	N74F269N(A)	SIC	COUNTER	169- 75
126♦	74F269	N74F269N(A)	VALG	COUNTER	169- 75
127♦	74F273	74F273DC(A)	FSC	D FL-FLOP	63- 30
128	74F273	*74F273L1C(A)	FSC	D FL-FLOP	63- 31
129♦	74F273	74F273PC(A)	FSC	D FL-FLOP	63- 32
130	74F273	*74F273QC(A)	FSC	D FL-FLOP	63- 33
131	74F273	*74F273SC(A)	FSC	D FL-FLOP	63- 34
132♦	74F273	*N74F273D(A)	MULB	D FL-FLOP	64- 46
133♦	74F273	*N74F273D(A)	PHIN	D FL-FLOP	64- 46
134♦	74F273	*N74F273D(A)	RTCF	D FL-FLOP	64- 46
135♦	74F273	*N74F273D(A)	SIC	D FL-FLOP	64- 46
136♦	74F273	*N74F273D(A)	VALG	D FL-FLOP	64- 46
137♦	74F273	N74F273N(A)	MULB	D FL-FLOP	64- 47
138♦	74F273	N74F273N(A)	PHIN	D FL-FLOP	64- 47
139♦	74F273	N74F273N(A)	RTCF	D FL-FLOP	64- 47
140♦	74F273	N74F273N(A)	SIC	D FL-FLOP	64- 47
141♦	74F273	N74F273N(A)	VALG	D FL-FLOP	64- 47
142♦	74F280	74F280DC	FSC	PARITY GEN	226- 67
143	74F280	*74F280L1C	FSC	PARITY GEN	226- 68
144♦	74F280	74F280PC	FSC	PARITY GEN	226- 69
145	74F280	*74F280QC	FSC	PARITY GEN	226- 70
146	74F280	*74F280SC	FSC	PARITY GEN	226- 71
147♦	74F280	MC74F280J	MOTA	PARITY GEN	226- 58
148♦	74F280	MC74F280N	MOTA	PARITY GEN	226- 59
149▼	74F280	*N74F280AD(A)	MULB	PARITY GEN	226- 48
150▼	74F280	*N74F280AD(A)	PHIN	PARITY GEN	226- 48
151▼	74F280	*N74F280AD(A)	RTCF	PARITY GEN	226- 48
152▼	74F280	*N74F280AD(A)	SIC	PARITY GEN	226- 48
153▼	74F280	*N74F280AD(A)	VALG	PARITY GEN	226- 48
154♦	74F280	N74F280AN(A)	MULB	PARITY GEN	226- 49
155♦	74F280	N74F280AN(A)	PHIN	PARITY GEN	226- 49
156♦	74F280	N74F280AN(A)	RTCF	PARITY GEN	226- 49
157♦	74F280	N74F280AN(A)	SIC	PARITY GEN	226- 49
158♦	74F280	N74F280AN(A)	VALG	PARITY GEN	226- 49
159▼	74F280	*N74F280D(A)	MULB	PARITY GEN	226- 50
160▼	74F280	*N74F280D(A)	PHIN	PARITY GEN	226- 50
161▼	74F280	*N74F280D(A)	RTCF	PARITY GEN	226- 50
162▼	74F280	*N74F280D(A)	SIC	PARITY GEN	226- 50
163▼	74F280	*N74F280D(A)	VALG	PARITY GEN	226- 50
164▼	74F280	N74F280N(A)	MULB	PARITY GEN	226- 51
165▼	74F280	N74F280N(A)	PHIN	PARITY GEN	226- 51
166▼	74F280	N74F280N(A)	RTCF	PARITY GEN	226- 51
167▼	74F280	N74F280N(A)	SIC	PARITY GEN	226- 51
168▼	74F280	N74F280N(A)	VALG	PARITY GEN	226- 51
169♦	74F283	74F283DC	FSC	ADDER	199- 61
170	74F283	*74F283L1C	FSC	ADDER	199- 51
171♦	74F283	74F283PC	FSC	ADDER	199- 62
172	74F283	*74F283QC	FSC	ADDER	199- 52
173	74F283	*74F283SC	FSC	ADDER	199- 53
174♦	74F283	MC74F283J	MOTA	ADDER	199- 54
175♦	74F283	MC74F283N	MOTA	ADDER	199- 55
176♦	74F283	*N74F283D(A)	MULB	ADDER	199- 56
177♦	74F283	*N74F283D(A)	PHIN	ADDER	199- 56
178♦	74F283	*N74F283D(A)	RTCF	ADDER	199- 56
179♦	74F283	*N74F283D(A)	SIC	ADDER	199- 56
180♦	74F283	*N74F283D(A)	VALG	ADDER	199- 56
181♦	74F283	N74F283N(A)	MULB	ADDER	199- 57
182♦	74F283	N74F283N(A)	PHIN	ADDER	199- 57
183♦	74F283	N74F283N(A)	RTCF	ADDER	199- 57
184♦	74F283	N74F283N(A)	SIC	ADDER	199- 57
185♦	74F283	N74F283N(A)	VALG	ADDER	199- 57
186♦	74F373	74F373DC	FSC	8-BIT LCH	234- 37
187♦	74F373	*74F373L1C	FSC	8-BIT LCH	234- 38
188♦	74F373	74F373PC	FSC	8-BIT LCH	234- 39
189♦	74F373	*74F373QC	FSC	8-BIT LCH	234- 40
190♦	74F373	*74F373SC	FSC	8-BIT LCH	234- 41
191♦	74F373	MC74F373J	MOTA	8-BIT LCH	235- 88
192♦	74F373	MC74F373N	MOTA	8-BIT LCH	235- 89
193♦	74F373	*N74F373D	MULB	LATCH	229- 4
194♦	74F373	*N74F373D	PHIN	LATCH	229- 4
195♦	74F373	*N74F373D	RTCF	LATCH	229- 4
196♦	74F373	*N74F373D	SIC	LATCH	229- 4
197♦	74F373	*N74F373D	VALG	LATCH	229- 4
198♦	74F373	N74F373F	VALG	8-BIT LCH	235- 46
199♦	74F373	N74F373N	MULB	LATCH	229- 5
200♦	74F373	N74F373N	PHIN	LATCH	229- 5
201♦	74F373	N74F373N	RTCF	LATCH	229- 5
202♦	74F373	N74F373N	SIC	LATCH	229- 5
203♦	74F373	N74F373N	VALG	LATCH	229- 5
204♦	74F374	74F374DC	FSC	D FL-FLOP	64- 41
205	74F374	*74F374L1C	FSC	D FL-FLOP	64- 42
206♦	74F374	74F374PC	FSC	D FL-FLOP	64- 43
207	74F374	*74F374QC	FSC	D FL-FLOP	64- 44
208	74F374	*74F374SC	FSC	D FL-FLOP	64- 45
209♦	74F374	MC74F374J	MOTA	D FL-FLOP	63- 75
210♦	74F374	MC74F374N	MOTA	D FL-FLOP	63- 76
211♦	74F374	*N74F374D	MULB	D FL-FLOP	58- 25
212♦	74F374	*N74F374D	PHIN	D FL-FLOP	58- 25
213♦	74F374	*N74F374D	RTCF	D FL-FLOP	58- 25
214♦	74F374	*N74F374D	SIC	D FL-FLOP	58- 25
215♦	74F374	*N74F374D	VALG	D FL-FLOP	58- 25
216♦	74F374	N74F374F	VALG	D FL-FLOP	63- 79
217♦	74F374	N74F374N	MULB	D FL-FLOP	58- 26
218♦	74F374	N74F374N	PHIN	D FL-FLOP	58- 26
219♦	74F374	N74F374N	RTCF	D FL-FLOP	58- 26
220♦	74F374	N74F374N	SIC	D FL-FLOP	58- 26

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LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	74F374	N74F374N	VALG	D FL-FLOP	58- 26
2♦	74F377	74F377DC(A)	FSC	D FL-FLOP	63- 35
3	74F377	*74F377L1C(A)	FSC	D FL-FLOP	63- 36
4♦	74F377	74F377PC(A)	FSC	D FL-FLOP	63- 37
5	74F377	*74F377QC(A)	FSC	D FL-FLOP	63- 38
6	74F377	*74F377SC(A)	FSC	D FL-FLOP	63- 39
7♦	74F377	*N74F377D(A)	MULB	D FL-FLOP	63- 95
8♦	74F377	*N74F377D(A)	PHIN	D FL-FLOP	63- 95
9♦	74F377	*N74F377D(A)	RTCF	D FL-FLOP	63- 95
10♦	74F377	*N74F377D(A)	SIC	D FL-FLOP	63- 95
11♦	74F377	*N74F377D(A)	VALG	D FL-FLOP	63- 95
12♦	74F377	N74F377N(A)	MULB	D FL-FLOP	58- 27
13♦	74F377	N74F377N(A)	PHIN	D FL-FLOP	58- 27
14♦	74F377	N74F377N(A)	RTCF	D FL-FLOP	58- 27
15♦	74F377	N74F377N(A)	SIC	D FL-FLOP	58- 27
16♦	74F377	N74F377N(A)	VALG	D FL-FLOP	58- 27
17♦	74F378	74F378DC	FSC	D FL-FLOP	57- 23
18	74F378	*74F378L1C	FSC	D FL-FLOP	57- 24
19♦	74F378	74F378PC	FSC	D FL-FLOP	57- 25
20	74F378	*74F378QC	FSC	D FL-FLOP	57- 26
21	74F378	*74F378SC	FSC	D FL-FLOP	57- 27
22♦	74F378	*N74F378D(A)	MULB	D FL-FLOP	57- 31
23♦	74F378	*N74F378D(A)	PHIN	D FL-FLOP	57- 31
24♦	74F378	*N74F378D(A)	RTCF	D FL-FLOP	57- 31
25♦	74F378	*N74F378D(A)	SIC	D FL-FLOP	57- 31
26♦	74F378	*N74F378D(A)	VALG	D FL-FLOP	57- 31
27♦	74F378	N74F378N(A)	MULB	D FL-FLOP	57- 32
28♦	74F378	N74F378N(A)	PHIN	D FL-FLOP	57- 32
29♦	74F378	N74F378N(A)	RTCF	D FL-FLOP	57- 32
30♦	74F378	N74F378N(A)	SIC	D FL-FLOP	57- 32
31♦	74F378	N74F378N(A)	VALG	D FL-FLOP	57- 32
32♦	74F379	74F379DC	FSC	D FL-FLOP	55- 73
33	74F379	*74F379L1C	FSC	D FL-FLOP	55- 74
34♦	74F379	74F379PC	FSC	D FL-FLOP	55- 75
35	74F379	*74F379QC	FSC	D FL-FLOP	55- 76
36	74F379	*74F379SC	FSC	D FL-FLOP	55- 77
37♦	74F381	74F381DC	FSC	4-BIT ALU	220- 81
38	74F381	*74F381L1C	FSC	4-BIT ALU	220- 82
39♦	74F381	74F381PC	FSC	4-BIT ALU	220- 83
40	74F381	*74F381QC	FSC	4-BIT ALU	220- 84
41	74F381	*74F381SC	FSC	4-BIT ALU	220- 85
42♦	74F381	MC74F381J	MOTA	4-BIT ALU	220- 73
43♦	74F381	MC74F381N	MOTA	4-BIT ALU	220- 74
44♦	74F381	*N74F381D(A)	MULB	4-BIT ALU	220- 65
45♦	74F381	*N74F381D(A)	PHIN	4-BIT ALU	220- 65
46♦	74F381	*N74F381D(A)	RTCF	4-BIT ALU	220- 65
47♦	74F381	*N74F381D(A)	SIC	4-BIT ALU	220- 65
48♦	74F381	*N74F381D(A)	VALG	4-BIT ALU	220- 65
49♦	74F381	N74F381N(A)	MULB	4-BIT ALU	220- 66
50♦	74F381	N74F381N(A)	PHIN	4-BIT ALU	220- 66
51♦	74F381	N74F381N(A)	RTCF	4-BIT ALU	220- 66
52♦	74F381	N74F381N(A)	SIC	4-BIT ALU	220- 66
53♦	74F381	N74F381N(A)	VALG	4-BIT ALU	220- 66
54♦	74F382	74F382DC	FSC	4-BIT ALU	220- 86
55	74F382	*74F382L1C	FSC	4-BIT ALU	220- 87
56♦	74F382	74F382PC	FSC	4-BIT ALU	220- 88
57	74F382	*74F382QC	FSC	4-BIT ALU	220- 89
58	74F382	*74F382SC	FSC	4-BIT ALU	220- 90
59♦	74F382	*N74F382D(A)	MULB	4-BIT ALU	220- 69
60♦	74F382	*N74F382D(A)	PHIN	4-BIT ALU	220- 69
61♦	74F382	*N74F382D(A)	RTCF	4-BIT ALU	220- 69
62♦	74F382	*N74F382D(A)	SIC	4-BIT ALU	220- 69
63♦	74F382	*N74F382D(A)	VALG	4-BIT ALU	220- 69
64♦	74F382	N74F382N(A)	MULB	4-BIT ALU	220- 70
65♦	74F382	N74F382N(A)	PHIN	4-BIT ALU	220- 70
66♦	74F382	N74F382N(A)	RTCF	4-BIT ALU	220- 70
67♦	74F382	N74F382N(A)	SIC	4-BIT ALU	220- 70
68♦	74F382	N74F382N(A)	VALG	4-BIT ALU	220- 70
69♦	74F384	74F384DC	FSC	MULTIPLIER	202- 67
70	74F384	*74F384L1C	FSC	MULTIPLIER	202- 68
71♦	74F384	74F384PC	FSC	MULTIPLIER	202- 69
72	74F384	*74F384QC	FSC	MULTIPLIER	202- 70
73	74F384	*74F384SC	FSC	MULTIPLIER	202- 71
74♦	74F384	*N74F384D(A)	MULB	MULTIPLIER	202- 61
75♦	74F384	*N74F384D(A)	PHIN	MULTIPLIER	202- 61
76♦	74F384	*N74F384D(A)	RTCF	MULTIPLIER	202- 61
77♦	74F384	*N74F384D(A)	SIC	MULTIPLIER	202- 61
78♦	74F384	*N74F384D(A)	VALG	MULTIPLIER	202- 61
79♦	74F384	N74F384N(A)	MULB	MULTIPLIER	202- 62
80♦	74F384	N74F384N(A)	PHIN	MULTIPLIER	202- 62
81♦	74F384	N74F384N(A)	RTCF	MULTIPLIER	202- 62
82♦	74F384	N74F384N(A)	SIC	MULTIPLIER	202- 62
83♦	74F384	N74F384N(A)	VALG	MULTIPLIER	202- 62
84♦	74F385	74F385DC	FSC	ADDER	198- 32
85	74F385	*74F385L1C	FSC	ADDER	198- 33
86♦	74F385	74F385PC	FSC	ADDER	198- 34
87	74F385	*74F385QC	FSC	ADDER	198- 35
88	74F385	*74F385SC	FSC	ADDER	198- 36
89♦	74F385	*N74F385D(A)	MULB	ADDER	198- 37
90♦	74F385	*N74F385D(A)	PHIN	ADDER	198- 37
91♦	74F385	*N74F385D(A)	RTCF	ADDER	198- 37
92♦	74F385	*N74F385D(A)	SIC	ADDER	198- 37
93♦	74F385	*N74F385D(A)	VALG	ADDER	198- 37
94♦	74F385	N74F385N(A)	MULB	ADDER	198- 38
95♦	74F385	N74F385N(A)	PHIN	ADDER	198- 38
96♦	74F385	N74F385N(A)	RTCF	ADDER	198- 38
97♦	74F385	N74F385N(A)	SIC	ADDER	198- 38
98♦	74F385	N74F385N(A)	VALG	ADDER	198- 38
99♦	74F412	74F412DC	FSC	8-BIT LCH	234-106
100♦	74F412	*74F412L1C	FSC	8-BIT LCH	234-107
101♦	74F412	74F412PC	FSC	8-BIT LCH	234-108
102♦	74F412	*74F412QC	FSC	8-BIT LCH	234-109
103♦	74F412	*74F412SC	FSC	8-BIT LCH	234-110
104♦	74F412	N74F412D(A)	MULB	8-BIT LCH	235- 5
105♦	74F412	N74F412D(A)	PHIN	8-BIT LCH	235- 5
106♦	74F412	N74F412D(A)	RTCF	8-BIT LCH	235- 5
107♦	74F412	N74F412D(A)	SIC	8-BIT LCH	235- 5
108♦	74F412	N74F412D(A)	VALG	8-BIT LCH	235- 5
109♦	74F412	N74F412N(A)	MULB	8-BIT LCH	235- 6
110♦	74F412	N74F412N(A)	PHIN	8-BIT LCH	235- 6
111♦	74F412	N74F412N(A)	RTCF	8-BIT LCH	235- 6
112♦	74F412	N74F412N(A)	SIC	8-BIT LCH	235- 6
113♦	74F412	N74F412N(A)	VALG	8-BIT LCH	235- 6
114♦	74F418	74F418DC(A)	FSC	SPECIAL	245- 43
115	74F418	*74F418L1C(A)	FSC	SPECIAL	245- 44
116♦	74F418	74F418PC(A)	FSC	SPECIAL	245- 45
117	74F418	*74F418QC(A)	FSC	SPECIAL	245- 46
118♦	74F418	74F418SC(A)	FSC	SPECIAL	245- 47
119♦	74F420	74F420DC(A)	FSC	SPECIAL	245- 48
120	74F420	*74F420L1C(A)	FSC	SPECIAL	245- 49
121♦	74F420	74F420PC(A)	FSC	SPECIAL	245- 50
122	74F420	*74F420QC(A)	FSC	SPECIAL	245- 51
123♦	74F420	74F420SC(A)	FSC	SPECIAL	245- 52
124♦	74F432	*74F432L1C	FSC	8-BIT LCH	235- 50
125♦	74F432	74F432PC	FSC	8-BIT LCH	235- 51
126♦	74F432	*74F432QC	FSC	8-BIT LCH	235- 52
127♦	74F432	*74F432SC	FSC	8-BIT LCH	235- 53
128♦	74F432	74F432SDC	FSC	8-BIT LCH	235- 54
129♦	74F432	74F432SPC	FSC	8-BIT LCH	235- 55
130▼	74F432	*N74F432D(A)	FSC	8-BIT LCH	235- 62
131▼	74F432	*N74F432D(A)	PHIN	8-BIT LCH	235- 62
132▼	74F432	N74F432N(A)	FSC	8-BIT LCH	235- 63
133▼	74F432	N74F432N(A)	PHIN	8-BIT LCH	235- 63
134♦	74F521	74F521DC	FSC	MAGN COMP	215- 81
135	74F521	*74F521L1C	FSC	MAGN COMP	215- 82
136♦	74F521	74F521PC	FSC	MAGN COMP	215- 83
137	74F521	*74F521QC	FSC	MAGN COMP	215- 84
138	74F521	*74F521SC	FSC	MAGN COMP	215- 85
139♦	74F521	MC74F521J	MOTA	MAGN COMP	215- 77
140♦	74F521	MC74F521N	MOTA	MAGN COMP	215- 78
141♦	74F521	*N74F521D	MULB	MAGN COMP	215- 91
142♦	74F521	*N74F521D	PHIN	MAGN COMP	215- 91
143♦	74F521	*N74F521D	RTCF	MAGN COMP	215- 91
144♦	74F521	*N74F521D	SIC	MAGN COMP	215- 91
145♦	74F521	*N74F521D	VALG	MAGN COMP	215- 91
146♦	74F521	N74F521F	VALG	MAGN COMP	215- 79
147♦	74F521	N74F521N	MULB	MAGN COMP	215- 92
148♦	74F521	N74F521N	PHIN	MAGN COMP	215- 92
149♦	74F521	N74F521N	RTCF	MAGN COMP	215- 92
150♦	74F521	N74F521N	SIC	MAGN COMP	215- 92
151♦	74F521	N74F521N	VALG	MAGN COMP	215- 92
152♦	74F524	74F524DC	FSC	MAGN COMP	218- 36
153	74F524	*74F524L1C	FSC	MAGN COMP	216- 6
154♦	74F524	74F524PC	FSC	MAGN COMP	218- 37
155	74F524	*74F524QC	FSC	MAGN COMP	218- 38
156	74F524	*74F524SC	FSC	MAGN COMP	218- 39
157♦	74F524	*N74F524D(A)	MULB	MAGN COMP	218- 25
158♦	74F524	*N74F524D(A)	PHIN	MAGN COMP	218- 25
159♦	74F524	*N74F524D(A)	RTCF	MAGN COMP	218- 25
160♦	74F524	*N74F524D(A)	SIC	MAGN COMP	218- 25
161♦	74F524	*N74F524D(A)	VALG	MAGN COMP	218- 25
162♦	74F524	N74F524N(A)	MULB	MAGN COMP	218- 26
163♦	74F524	N74F524N(A)	PHIN	MAGN COMP	218- 26
164♦	74F524	N74F524N(A)	RTCF	MAGN COMP	218- 26
165♦	74F524	N74F524N(A)	SIC	MAGN COMP	218- 26
166♦	74F524	N74F524N(A)	VALG	MAGN COMP	218- 26
167♦	74F525	74F525DC(A)	FSC	COUNTER	166- 88
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169♦	74F525	74F525PC(A)	FSC	COUNTER	166- 90
170♦	74F525	*74F525QC(A)	FSC	COUNTER	166- 91
171♦	74F525	*74F525SC(A)	FSC	COUNTER	166- 92
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173♦	74F533	*74F533L1C	FSC	8-BIT LCH	235- 10
174♦	74F533	74F533PC	FSC	8-BIT LCH	234-105
175♦	74F533	*74F533QC	FSC	8-BIT LCH	235- 11
176♦	74F533	*74F533SC	FSC	8-BIT LCH	235- 12
177♦	74F533	MC74F533J	MOTA	8-BIT LCH	235- 44
178♦	74F533	MC74F533N	MOTA	8-BIT LCH	235- 45
179♦	74F533	*N74F533D	MULB	8-BIT LCH	235- 29
180♦	74F533	*N74F533D	PHIN	8-BIT LCH	235- 29
181♦	74F533	*N74F533D	RTCF	8-BIT LCH	235- 29
182♦	74F533	*N74F533D	SIC	8-BIT LCH	235- 29
183♦	74F533	*N74F533D	VALG	8-BIT LCH	235- 29
184♦	74F533	N74F533F	VALG	8-BIT LCH	234- 97
185♦	74F533	N74F533N	MULB	8-BIT LCH	235- 30
186♦	74F533	N74F533N	PHIN	8-BIT LCH	235- 30
187♦	74F533	N74F533N	RTCF	8-BIT LCH	235- 30
188♦	74F533	N74F533N	SIC	8-BIT LCH	235- 30
189♦	74F533	N74F533N	VALG	8-BIT LCH	235- 30
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191	74F534	*74F534L1C	FSC	D FL-FLOP	63- 41
192♦	74F534	74F534PC	FSC	D FL-FLOP	63- 94
193	74F534	*74F534QC	FSC	D FL-FLOP	63- 42
194	74F534	*74F534SC	FSC	D FL-FLOP	63- 43
195♦	74F534	MC74F534J(A)	MOTA	D FL-FLOP	63- 77
196♦	74F534	MC74F534N	MOTA	D FL-FLOP	63- 78
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200♦	74F534	*N74F534D	SIC	D FL-FLOP	58- 28
201♦	74F534	*N74F534D	VALG	D FL-FLOP	58- 28
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205▼	74F534	N74F534N	SIC	D FL-FLOP	58- 29
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209♦	74F557	74F557PC(A)	FSC	MULTIPLIER	203- 32
210♦	74F558	74F558DC(A)	FSC	MULTIPLIER	203- 33
211	74F558	*74F558L1C(A)	FSC	MULTIPLIER	203- 34
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213	74F558	*74F558QC(A)	FSC	MULTIPLIER	203- 36
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215♦	74F563	*74F563L1C(A)	FSC	8-BIT LCH	234- 10
216♦	74F563	74F563PC(A)	FSC	8-BIT LCH	234- 11
217♦	74F563	*74F563QC(A)	FSC	8-BIT LCH	234- 12
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85♦	74F630	N74F630N(A)	PHIN	PARITY GEN	228- 38
86♦	74F630	N74F630N(A)	RTCF	PARITY GEN	228- 38
87♦	74F630	N74F630N(A)	SIC	PARITY GEN	228- 38
88♦	74F630	N74F630N(A)	VALG	PARITY GEN	228- 38
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90♦	74F631	*N74F631D(A)	PHIN	PARITY GEN	228- 39
91♦	74F631	*N74F631D(A)	RTCF	PARITY GEN	228- 39
92♦	74F631	*N74F631D(A)	SIC	PARITY GEN	228- 39
93♦	74F631	*N74F631D(A)	VALG	PARITY GEN	228- 39
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97♦	74F631	N74F631N(A)	SIC	PARITY GEN	228- 40
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106♦	74F779	*N74F779D	MULB	COUNTER	169- 77
107♦	74F779	*N74F779D	PHIN	COUNTER	169- 77
108♦	74F779	*N74F779D	RTCF	COUNTER	169- 77
109♦	74F779	*N74F779D	SIC	COUNTER	169- 77
110♦	74F779	*N74F779D	VALG	COUNTER	169- 77
111♦	74F779	N74F779N	MULB	COUNTER	169- 78
112♦	74F779	N74F779N	PHIN	COUNTER	169- 78
113♦	74F779	N74F779N	RTCF	COUNTER	169- 78
114♦	74F779	N74F779N	SIC	COUNTER	169- 78
115♦	74F779	N74F779N	VALG	COUNTER	169- 78
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118♦	74F784	74F784PC	FSC	MULTIPLIER	202- 98
119	74F784	*74F784QC	FSC	MULTIPLIER	202- 99
120♦	74F784	*74F784SC	FSC	MULTIPLIER	202-100
121♦	74F784	*N74F784D(A)	MULB	MULTIPLIER	202- 65
122♦	74F784	*N74F784D(A)	PHIN	MULTIPLIER	202- 65
123♦	74F784	*N74F784D(A)	RTCF	MULTIPLIER	202- 65
124♦	74F784	*N74F784D(A)	SIC	MULTIPLIER	202- 65
125♦	74F784	*N74F784D(A)	VALG	MULTIPLIER	202- 65
126♦	74F784	N74F784N(A)	MULB	MULTIPLIER	202- 66
127♦	74F784	N74F784N(A)	PHIN	MULTIPLIER	202- 66
128♦	74F784	N74F784N(A)	RTCF	MULTIPLIER	202- 66
129♦	74F784	N74F784N(A)	SIC	MULTIPLIER	202- 66
130♦	74F784	N74F784N(A)	VALG	MULTIPLIER	202- 66
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133♦	74F821	74F821PC(A)	FSC	D FL-FLOP	64- 70
134	74F821	*74F821QC(A)	FSC	D FL-FLOP	64- 71
135	74F821	*74F821SC(A)	FSC	D FL-FLOP	64- 72
136♦	74F821	74F821SDC(A)	FSC	D FL-FLOP	64- 73
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144♦	74F823	74F823PC(A)	FSC	D FL-FLOP	64- 60
145	74F823	*74F823QC(A)	FSC	D FL-FLOP	64- 61
146	74F823	*74F823SC(A)	FSC	D FL-FLOP	64- 62
147♦	74F823	74F823SDC(A)	FSC	D FL-FLOP	64- 63
148♦	74F823	74F823SPC(A)	FSC	D FL-FLOP	64- 64
149▼	74F823	*N74F823D(A)	PHIN	9-BIT LCH	241- 50
150▼	74F823	N74F823N(A)	PHIN	9-BIT LCH	241- 51
151▼	74F824	*N74F824D(A)	PHIN	9-BIT LCH	241- 52
152▼	74F824	N74F824N(A)	PHIN	9-BIT LCH	241- 53
153♦	74F825	74F825DC(A)	FSC	D FL-FLOP	63- 54
154	74F825	*74F825L1C(A)	FSC	D FL-FLOP	63- 55
155♦	74F825	74F825PC(A)	FSC	D FL-FLOP	63- 56
156	74F825	*74F825QC(A)	FSC	D FL-FLOP	63- 57
157	74F825	*74F825SC(A)	FSC	D FL-FLOP	63- 58
158♦	74F825	74F825SDC(A)	FSC	D FL-FLOP	63- 59
159♦	74F825	74F825SPC(A)	FSC	D FL-FLOP	63- 60
160▼	74F825	*N74F825D(A)	PHIN	8-BIT LCH	233- 69
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162▼	74F826	*N74F826D(A)	PHIN	8-BIT LCH	233- 71
163▼	74F826	N74F826N(A)	PHIN	8-BIT LCH	233- 72
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165♦	74F841	*74F841L1C(A)	FSC	10-BIT LCH	242- 74
166♦	74F841	74F841PC(A)	FSC	10-BIT LCH	242- 75
167♦	74F841	*74F841QC(A)	FSC	10-BIT LCH	242- 76
168♦	74F841	*74F841SC(A)	FSC	10-BIT LCH	242- 77
169♦	74F841	74F841SDC(A)	FSC	10-BIT LCH	242- 78
170♦	74F841	74F841SPC(A)	FSC	10-BIT LCH	242- 79
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177♦	74F843	74F843PC(A)	FSC	9-BIT LCH	241- 75
178♦	74F843	*74F843QC(A)	FSC	9-BIT LCH	241- 76
179♦	74F843	*74F843SC(A)	FSC	9-BIT LCH	241- 77
180♦	74F843	74F843SDC(A)	FSC	9-BIT LCH	241- 78
181♦	74F843	74F843SPC(A)	FSC	9-BIT LCH	241- 79
182▼	74F843	*N74F843D(A)	PHIN	9-BIT LCH	241- 54
183▼	74F843	N74F843N(A)	PHIN	9-BIT LCH	241- 55
184▼	74F844	*N74F844D(A)	PHIN	9-BIT LCH	241- 56
185▼	74F844	N74F844N(A)	PHIN	9-BIT LCH	241- 57
186♦	74F845	74F845DC(A)	FSC	8-BIT LCH	234- 47
187♦	74F845	*74F845L1C(A)	FSC	8-BIT LCH	234- 48
188♦	74F845	74F845PC(A)	FSC	8-BIT LCH	234- 49
189♦	74F845	*74F845QC(A)	FSC	8-BIT LCH	234- 50
190♦	74F845	*74F845SC(A)	FSC	8-BIT LCH	234- 51
191♦	74F845	74F845SDC(A)	FSC	8-BIT LCH	234- 52
192♦	74F845	74F845SPC(A)	FSC	8-BIT LCH	234- 53
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211▼	74FCT163	IDT74FCT163D	IDT	HEX CNTR	156- 49
212▼	74FCT163	*IDT74FCT163L	IDT	HEX CNTR	156- 50
213▼	74FCT182	IDT74FCT182AD	IDT	PARITY GEN	224- 45
214▼	74FCT182	*IDT74FCT182AJ	IDT	PARITY GEN	224- 46
215▼	74FCT182	*IDT74FCT182AL	IDT	PARITY GEN	224- 47
216▼	74FCT182	IDT74FCT182AP	IDT	PARITY GEN	224- 48
217▼	74FCT182	*IDT74FCT182ASO	IDT	PARITY GEN	224- 49
218♦	74FCT182	IDT74FCT182D	IDT	PARITY GEN	224- 63
219▼	74FCT182	*IDT74FCT182J	IDT	PARITY GEN	224- 64
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4▼	74FCT191	IDT74FCT191AD	IDT	HEX CNTR	161- 46
5▼	74FCT191	*IDT74FCT191AL	IDT	HEX CNTR	161- 47
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8▼	74FCT193	*IDT74FCT193A	IDT	HEX CNTR	161- 50
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10▼	74FCT193	*IDT74FCT193AL	IDT	HEX CNTR	161- 52
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15▼	74FCT273	*IDT74FCT273AL	IDT	D FL-FLOP	58- 56
16▼	74FCT273	IDT74FCT273AP	IDT	D FL-FLOP	58- 57
17▼	74FCT273	*IDT74FCT273ASO	IDT	D FL-FLOP	58- 58
18♦	74FCT273	IDT74FCT273D	IDT	D FL-FLOP	58- 59
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20♦	74FCT273	*IDT74FCT273L	IDT	D FL-FLOP	58- 61
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30▼	74FCT377	IDT74FCT377AP	IDT	D FL-FLOP	58- 67
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33▼	74FCT377	*IDT74FCT377J	IDT	D FL-FLOP	58- 70
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39▼	74FCT521	*IDT74FCT521AL	IDT	MAGN COMP	215- 69
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43▼	74FCT521	*IDT74FCT521J	IDT	MAGN COMP	215- 87
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49▼	74FCT533	*IDT74FCT533AL	IDT	8-BIT LCH	233- 92
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51▼	74FCT533	*IDT74FCT533ASO	IDT	8-BIT LCH	233- 94
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53▼	74FCT533	*IDT74FCT533J	IDT	8-BIT LCH	235- 21
54♦	74FCT533	*IDT74FCT533L	IDT	8-BIT LCH	235- 22
55▼	74FCT533	IDT74FCT533P	IDT	8-BIT LCH	235- 23
56▼	74FCT533	*IDT74FCT533SO	IDT	8-BIT LCH	235- 24
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69▼	74FCT573	*IDT74FCT573AL	IDT	8-BIT LCH	233- 97
70▼	74FCT573	IDT74FCT573AP	IDT	8-BIT LCH	233- 98
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74▼	74FCT573	*IDT74FCT573L	IDT	8-BIT LCH	234- 60
75▼	74FCT573	IDT74FCT573P	IDT	8-BIT LCH	234- 61
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78▼	74FCT574	*IDT74FCT574AJ	IDT	D FL-FLOP	58- 85
79▼	74FCT574	*IDT74FCT574AL	IDT	D FL-FLOP	58- 86
80▼	74FCT574	IDT74FCT574AP	IDT	D FL-FLOP	58- 87
81▼	74FCT574	*IDT74FCT574ASO	IDT	D FL-FLOP	58- 88
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83▼	74FCT574	*IDT74FCT574J	IDT	D FL-FLOP	58- 90
84▼	74FCT574	*IDT74FCT574L	IDT	D FL-FLOP	58- 91
85▼	74FCT574	IDT74FCT574P	IDT	D FL-FLOP	58- 92
86▼	74FCT574	*IDT74FCT574SO	IDT	D FL-FLOP	58- 93
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88▼	74FCT841	*IDT74FCT841BJ	IDT	10-BIT LCH	242- 59
89▼	74FCT841	*IDT74FCT841BL	IDT	10-BIT LCH	242- 60
90▼	74FCT841	IDT74FCT841BP	IDT	10-BIT LCH	242- 61
91▼	74FCT842	IDT74FCT842BD	IDT	10-BIT LCH	242- 62
92▼	74FCT842	*IDT74FCT842BJ	IDT	10-BIT LCH	242- 63
93▼	74FCT842	*IDT74FCT842BL	IDT	10-BIT LCH	242- 64
94▼	74FCT842	IDT74FCT842BP	IDT	10-BIT LCH	242- 65
95▼	74FCT843	IDT74FCT843BD	IDT	9-BIT LCH	241- 58
96▼	74FCT843	*IDT74FCT843BJ	IDT	9-BIT LCH	241- 59
97▼	74FCT843	*IDT74FCT843BL	IDT	9-BIT LCH	241- 60
98▼	74FCT843	IDT74FCT843BP	IDT	9-BIT LCH	241- 61
99▼	74FCT844	IDT74FCT844BD	IDT	9-BIT LCH	241- 62
100▼	74FCT844	*IDT74FCT844BJ	IDT	9-BIT LCH	241- 63
101▼	74FCT844	*IDT74FCT844BL	IDT	9-BIT LCH	241- 64
102▼	74FCT844	IDT74FCT844BP	IDT	9-BIT LCH	241- 65
103▼	74FCT845	IDT74FCT845BD	IDT	8-BIT LCH	233-110
104▼	74FCT845	*IDT74FCT845BJ	IDT	8-BIT LCH	234- 1
105▼	74FCT845	*IDT74FCT845BL	IDT	8-BIT LCH	234- 2
106▼	74FCT845	IDT74FCT845BP	IDT	8-BIT LCH	234- 3
107▼	74FCT846	IDT74FCT846BD	IDT	8-BIT LCH	234- 4
108▼	74FCT846	*IDT74FCT846BJ	IDT	8-BIT LCH	234- 5
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115♦	74H00	N74H00F	MULB	NAND GATE	96- 97
116♦	74H00	N74H00F	PHIN	NAND GATE	96- 97
117♦	74H00	N74H00F	VALG	NAND GATE	96- 97
118♦	74H00	N74H00N	MULB	NAND GATE	96- 98
119♦	74H00	N74H00N	PHIN	NAND GATE	96- 98
120♦	74H00	N74H00N	VALG	NAND GATE	96- 98
121♦	74H00	SN74H00N	TII	NAND GATE	97- 71
122♦	74H01	74H01DC	FSC	NAND GATE	95- 61
123♦	74H01	74H01PC	FSC	NAND GATE	95- 62
124♦	74H01	DM74H01J	NSC	NAND GATE	95-110
125♦	74H01	DM74H01N	NSC	NAND GATE	96- 1
126♦	74H01	N74H01F	MULB	NAND GATE	96- 99
127♦	74H01	N74H01F	PHIN	NAND GATE	96- 99
128♦	74H01	N74H01F	VALG	NAND GATE	96- 99
129♦	74H01	N74H01N	MULB	NAND GATE	96-100
130♦	74H01	N74H01N	PHIN	NAND GATE	96-100
131♦	74H01	N74H01N	VALG	NAND GATE	96-100
132♦	74H08	DM74H08N	NSC	AND GATE	76- 30
133♦	74H08	N74H08F	MULB	AND GATE	76- 69
134♦	74H08	N74H08F	PHIN	AND GATE	76- 69
135♦	74H08	N74H08F	VALG	AND GATE	76- 69
136♦	74H08	N74H08N	MULB	AND GATE	76- 70
137♦	74H08	N74H08N	PHIN	AND GATE	76- 70
138♦	74H08	N74H08N	VALG	AND GATE	76- 70
139♦	74H10	74H10DC	FSC	NAND GATE	101- 23
140♦	74H10	74H10PC	FSC	NAND GATE	101- 24
141♦	74H10	DM74H10N	NSC	NAND GATE	101- 48
142♦	74H10	N74H10F	MULB	NAND GATE	101- 90
143♦	74H10	N74H10F	PHIN	NAND GATE	101- 90
144♦	74H10	N74H10F	VALG	NAND GATE	101- 90
145♦	74H10	N74H10N	MULB	NAND GATE	101- 91
146♦	74H10	N74H10N	PHIN	NAND GATE	101- 91
147♦	74H10	N74H10N	VALG	NAND GATE	101- 91
148♦	74H10	SN74H10N	TII	NAND GATE	102- 25
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151♦	74H11	DM74H11N	NSC	AND GATE	79- 59
152♦	74H11	N74H11F	MULB	AND GATE	79- 89
153♦	74H11	N74H11F	PHIN	AND GATE	79- 89
154♦	74H11	N74H11F	VALG	AND GATE	79- 89
155♦	74H11	N74H11N	MULB	AND GATE	79- 90
156♦	74H11	N74H11N	PHIN	AND GATE	79- 90
157♦	74H11	N74H11N	VALG	AND GATE	79- 90
158♦	74H11	SN74H11N	TII	AND GATE	80- 13
159♦	74H20	74H20DC	FSC	NAND GATE	106- 33
160♦	74H20	74H20PC	FSC	NAND GATE	106- 34
161♦	74H20	DM74H20N	NSC	NAND GATE	106- 38
162♦	74H20	N74H20F	MULB	NAND GATE	106- 41
163♦	74H20	N74H20F	PHIN	NAND GATE	106- 41
164♦	74H20	N74H20F	VALG	NAND GATE	106- 41
165♦	74H20	N74H20N	MULB	NAND GATE	106- 42
166♦	74H20	N74H20N	PHIN	NAND GATE	106- 42
167♦	74H20	N74H20N	VALG	NAND GATE	106- 42
168♦	74H20	SN74H20N	TII	NAND GATE	106- 58
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171♦	74H21	DM74H21N	NSC	AND GATE	82- 44
172♦	74H21	N74H21F	MULB	AND GATE	82- 45
173♦	74H21	N74H21F	PHIN	AND GATE	82- 45
174♦	74H21	N74H21F	VALG	AND GATE	82- 45
175♦	74H21	N74H21N	MULB	AND GATE	82- 46
176♦	74H21	N74H21N	PHIN	AND GATE	82- 46
177♦	74H21	N74H21N	VALG	AND GATE	82- 46
178♦	74H21	SN74H21N	TII	AND GATE	82- 51
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180♦	74H22	74H22PC	FSC	NAND GATE	104- 39
181♦	74H22	DM74H22N	NSC	NAND GATE	104- 84
182♦	74H22	N74H22F	MULB	NAND GATE	105- 15
183♦	74H22	N74H22F	PHIN	NAND GATE	105- 15
184♦	74H22	N74H22F	VALG	NAND GATE	105- 15
185♦	74H22	N74H22N	MULB	NAND GATE	105- 16
186♦	74H22	N74H22N	PHIN	NAND GATE	105- 16
187♦	74H22	N74H22N	VALG	NAND GATE	105- 16
188♦	74H30	74H30DC	FSC	NAND GATE	109- 59
189♦	74H30	74H30PC	FSC	NAND GATE	109- 60
190♦	74H30	DM74H30N	NSC	NAND GATE	109- 64
191♦	74H30	N74H30F	MULB	NAND GATE	109- 33
192♦	74H30	N74H30F	PHIN	NAND GATE	109- 33
193♦	74H30	N74H30F	VALG	NAND GATE	109- 33
194♦	74H30	N74H30N	MULB	NAND GATE	109- 34
195♦	74H30	N74H30N	PHIN	NAND GATE	109- 34
196♦	74H30	N74H30N	VALG	NAND GATE	109- 34
197♦	74H30	*N74H30W	MULB	NAND GATE	109- 35
198♦	74H30	*N74H30W	PHIN	NAND GATE	109- 35
199♦	74H30	SN74H30N	TII	NAND GATE	111- 5
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205♦	74H50	N74H50F	MULB	AND-OR-INV	86- 1
206♦	74H50	N74H50F	PHIN	AND-OR-INV	86- 1
207♦	74H50	N74H50F	VALG	AND-OR-INV	86- 1
208♦	74H50	N74H50N	MULB	AND-OR-INV	86- 2
209♦	74H50	N74H50N	PHIN	AND-OR-INV	86- 2
210♦	74H50	N74H50N	VALG	AND-OR-INV	86- 2
211♦	74H50	SN74H50N	TII	AND-OR-INV	86- 67
212♦	74H51	74H51DC	FSC	AND-OR-INV	85- 76
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214♦	74H51	DM74H51N	NSC	AND-OR-INV	85- 93
215♦	74H51	N74H51F	MULB	AND-OR-INV	86- 3
216♦	74H51	N74H51F	PHIN	AND-OR-INV	86- 3
217♦	74H51	N74H51F	VALG	AND-OR-INV	86- 3
218♦	74H51	N74H51N	MULB	AND-OR-INV	86- 4
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3♦	74H52	N74H52F	MULB	AND-OR GTE	85- 4
4♦	74H52	N74H52F	PHIN	AND-OR GTE	85- 4
5♦	74H52	N74H52F	VALG	AND-OR GTE	85- 4
6♦	74H52	N74H52N	MULB	AND-OR GTE	85- 5
7♦	74H52	N74H52N	PHIN	AND-OR GTE	85- 5
8♦	74H52	N74H52N	VALG	AND-OR GTE	85- 5
9♦	74H52	SN74H52N	TII	AND-OR GTE	85- 6
10♦	74H53	74H53DC	FSC	AND-OR-INV	87- 70
11♦	74H53	74H53PC	FSC	AND-OR-INV	87- 71
12♦	74H53	N74H53F	MULB	AND-OR-INV	89- 79
13♦	74H53	N74H53F	PHIN	AND-OR-INV	89- 79
14♦	74H53	N74H53F	VALG	AND-OR-INV	89- 79
15♦	74H53	N74H53N	MULB	AND-OR-INV	89- 80
16♦	74H53	N74H53N	PHIN	AND-OR-INV	89- 80
17♦	74H53	N74H53N	VALG	AND-OR-INV	89- 80
18♦	74H53	SN74H53N	TII	AND-OR-INV	87- 72
19♦	74H54	74H54DC	FSC	AND-OR-INV	87- 36
20♦	74H54	74H54PC	FSC	AND-OR-INV	87- 37
21♦	74H54	N74H54F	MULB	AND-OR-INV	87- 39
22♦	74H54	N74H54F	PHIN	AND-OR-INV	87- 39
23♦	74H54	N74H54F	VALG	AND-OR-INV	87- 39
24♦	74H54	N74H54N	MULB	AND-OR-INV	87- 40
25♦	74H54	N74H54N	PHIN	AND-OR-INV	87- 40
26♦	74H54	N74H54N	VALG	AND-OR-INV	87- 40
27♦	74H54	SN74H54N	TII	AND-OR-INV	87- 67
28♦	74H55	74H55PC	FSC	AND-OR-INV	89- 19
29♦	74H55	N74H55F	MULB	AND-OR-INV	89- 28
30♦	74H55	N74H55F	PHIN	AND-OR-INV	89- 28
31♦	74H55	N74H55F	VALG	AND-OR-INV	89- 28
32♦	74H55	N74H55N	MULB	AND-OR-INV	89- 29
33♦	74H55	N74H55N	PHIN	AND-OR-INV	89- 29
34♦	74H55	N74H55N	VALG	AND-OR-INV	89- 29
35♦	74H55	SN74H55N	TII	AND-OR-INV	89- 62
36♦	74H60	N74H60F	MULB	AND GATE	81- 68
37♦	74H60	N74H60F	PHIN	AND GATE	81- 68
38♦	74H60	N74H60F	VALG	AND GATE	81- 68
39♦	74H60	N74H60N	MULB	AND GATE	81- 69
40♦	74H60	N74H60N	PHIN	AND GATE	81- 69
41♦	74H60	N74H60N	VALG	AND GATE	81- 69
42♦	74H60	SN74H60N	TII	AND GATE	81- 87
43♦	74H61	74H61DC	FSC	AND GATE	79- 36
44♦	74H61	74H61PC	FSC	AND GATE	79- 37
45♦	74H61	N74H61F	MULB	AND GATE	79- 91
46♦	74H61	N74H61F	PHIN	AND GATE	79- 91
47♦	74H61	N74H61F	VALG	AND GATE	79- 91
48♦	74H61	N74H61N	MULB	AND GATE	79- 92
49♦	74H61	N74H61N	PHIN	AND GATE	79- 92
50♦	74H61	N74H61N	VALG	AND GATE	79- 92
51♦	74H61	SN74H61N	TII	AND GATE	80- 14
52♦	74H62	74H62PC	FSC	AND-OR GTE	85- 7
53♦	74H62	DM74H62N	NSC	AND-OR GTE	85- 8
54♦	74H62	N74H62F	MULB	AND-OR GTE	85- 9
55♦	74H62	N74H62F	PHIN	AND-OR GTE	85- 9
56♦	74H62	N74H62F	VALG	AND-OR GTE	85- 9
57♦	74H62	N74H62N	MULB	AND-OR GTE	85- 10
58♦	74H62	N74H62N	PHIN	AND-OR GTE	85- 10
59♦	74H62	N74H62N	VALG	AND-OR GTE	85- 10
60♦	74H62	SN74H62N	TII	AND-OR GTE	85- 11
61♦	74H71	N74H71F	MULB	JK FL-FLOP	65- 71
62♦	74H71	N74H71F	PHIN	JK FL-FLOP	65- 71
63♦	74H71	N74H71F	VALG	JK FL-FLOP	65- 71
64♦	74H71	N74H71N	MULB	JK FL-FLOP	65- 72
65♦	74H71	N74H71N	PHIN	JK FL-FLOP	65- 72
66♦	74H71	N74H71N	VALG	JK FL-FLOP	65- 72
67♦	74H71	SN74H71N	TII	JK FL-FLOP	66- 20
68♦	74H72	74H72DC	FSC	JK FL-FLOP	65-103
69♦	74H72	74H72PC	FSC	JK FL-FLOP	65-104
70♦	74H72	N74H72F	MULB	JK FL-FLOP	65- 73
71♦	74H72	N74H72F	PHIN	JK FL-FLOP	65- 73
72♦	74H72	N74H72F	VALG	JK FL-FLOP	65- 73
73♦	74H72	N74H72N	MULB	JK FL-FLOP	65- 74
74♦	74H72	N74H72N	PHIN	JK FL-FLOP	65- 74
75♦	74H72	N74H72N	VALG	JK FL-FLOP	65- 74
76♦	74H73	74H73DC	FSC	JK FL-FLOP	70- 26
77♦	74H73	74H73PC	FSC	JK FL-FLOP	70- 27
78♦	74H73	N74H73F	MULB	JK FL-FLOP	69- 67
79♦	74H73	N74H73F	PHIN	JK FL-FLOP	69- 67
80♦	74H73	N74H73F	VALG	JK FL-FLOP	69- 67
81♦	74H73	N74H73N	MULB	JK FL-FLOP	69- 68
82♦	74H73	N74H73N	PHIN	JK FL-FLOP	69- 68
83♦	74H73	N74H73N	VALG	JK FL-FLOP	69- 68
84♦	74H73	SN74H73N	TII	JK FL-FLOP	71- 23
85♦	74H74	74H74DC	FSC	D FL-FLOP	52- 23
86♦	74H74	74H74PC	FSC	D FL-FLOP	52- 24
87♦	74H74	DM74H74N	NSC	D FL-FLOP	50- 50
88♦	74H74	N74H74F	MULB	D FL-FLOP	52- 28
89♦	74H74	N74H74F	PHIN	D FL-FLOP	52- 28
90♦	74H74	N74H74F	VALG	D FL-FLOP	52- 28
91♦	74H74	N74H74N	MULB	D FL-FLOP	52- 29
92♦	74H74	N74H74N	PHIN	D FL-FLOP	52- 29
93♦	74H74	N74H74N	VALG	D FL-FLOP	52- 29
94♦	74H74	SN74H74N	TII	D FL-FLOP	52- 40
95♦	74H76	N74H76F	MULB	JK FL-FLOP	69- 69
96♦	74H76	N74H76F	PHIN	JK FL-FLOP	69- 69
97♦	74H76	N74H76F	VALG	JK FL-FLOP	69- 69
98♦	74H76	N74H76N	MULB	JK FL-FLOP	69- 70
99♦	74H76	N74H76N	PHIN	JK FL-FLOP	69- 70
100♦	74H76	N74H76N	VALG	JK FL-FLOP	69- 70
101♦	74H76	SN74H76N	TII	JK FL-FLOP	71- 24
102♦	74H78	SN74H78N	TII	JK FL-FLOP	71- 25
103♦	74H87	74H87DC	FSC	SPECIAL	245- 77
104♦	74H87	74H87PC	FSC	SPECIAL	245- 78
105♦	74H101	74H101PC	FSC	JK FL-FLOP	66- 37
106♦	74H101	N74H101F	MULB	JK FL-FLOP	66- 27
107♦	74H101	N74H101F	PHIN	JK FL-FLOP	66- 27
108♦	74H101	N74H101F	VALG	JK FL-FLOP	66- 27
109♦	74H101	N74H101N	MULB	JK FL-FLOP	66- 28
110♦	74H101	N74H101N	PHIN	JK FL-FLOP	66- 28
111♦	74H101	N74H101N	VALG	JK FL-FLOP	66- 28
112♦	74H102	N74H102F	MULB	JK FL-FLOP	66- 29
113♦	74H102	N74H102F	PHIN	JK FL-FLOP	66- 29
114♦	74H102	N74H102F	VALG	JK FL-FLOP	66- 29
115♦	74H102	N74H102N	MULB	JK FL-FLOP	66- 30
116♦	74H102	N74H102N	PHIN	JK FL-FLOP	66- 30
117♦	74H102	N74H102N	VALG	JK FL-FLOP	66- 30
118♦	74H103	74H103DC	FSC	JK FL-FLOP	72- 76
119♦	74H103	74H103PC	FSC	JK FL-FLOP	72- 77
120♦	74H103	N74H103F	MULB	JK FL-FLOP	71- 77
121♦	74H103	N74H103F	PHIN	JK FL-FLOP	71- 77
122♦	74H103	N74H103F	VALG	JK FL-FLOP	71- 77
123♦	74H103	N74H103N	MULB	JK FL-FLOP	71- 78
124♦	74H103	N74H103N	PHIN	JK FL-FLOP	71- 78
125♦	74H103	N74H103N	VALG	JK FL-FLOP	71- 78
126♦	74H106	74H106DC	FSC	JK FL-FLOP	72- 78
127	74H106	74H106PC	FSC	JK FL-FLOP	72- 79
128♦	74H106	N74H106F	MULB	JK FL-FLOP	71- 79
129♦	74H106	N74H106F	PHIN	JK FL-FLOP	71- 79
130♦	74H106	N74H106F	VALG	JK FL-FLOP	71- 79
131♦	74H106	N74H106N	MULB	JK FL-FLOP	71- 80
132♦	74H106	N74H106N	PHIN	JK FL-FLOP	71- 80
133♦	74H106	N74H106N	VALG	JK FL-FLOP	71- 80
134♦	74H108	74H108DC	FSC	JK FL-FLOP	72- 80
135♦	74H108	74H108PC	FSC	JK FL-FLOP	72- 81
136♦	74H108	N74H108F	MULB	JK FL-FLOP	71- 81
137♦	74H108	N74H108F	PHIN	JK FL-FLOP	71- 81
138♦	74H108	N74H108F	VALG	JK FL-FLOP	71- 81
139♦	74H108	N74H108N	MULB	JK FL-FLOP	71- 82
140♦	74H108	N74H108N	PHIN	JK FL-FLOP	71- 82
141♦	74H108	N74H108N	VALG	JK FL-FLOP	71- 82
142♦	74H183	74H183PC	FSC	ADDER	198-101
143♦	74HC00	*74HC00D	SIC	NAND GATE	98- 86
144♦	74HC00	74HC00N	SIC	NAND GATE	98- 87
145♦	74HC00	CD74HC00E	RCA	NAND GATE	98- 91
146♦	74HC00	*CD74HC00M	RCA	NAND GATE	98- 92
147▼	74HC00	*HD74HC00FP	HITJ	NAND GATE	98- 36
148▼	74HC00	HD74HC00P	HITJ	NAND GATE	98- 37
149♦	74HC00	LC74HC00	TSAJ	NAND GATE	98- 95
150♦	74HC00	M74HC00B1(A)	SGSI	NAND GATE	96- 40
151♦	74HC00	*M74HC00C1(A)	SGSI	NAND GATE	98- 73
152♦	74HC00	M74HC00F1(A)	SGSI	NAND GATE	96- 41
153♦	74HC00	M74HC00P	MITJ	NAND GATE	96- 42
154♦	74HC00	MC74HC00J(A)	MOTA	NAND GATE	96- 73
155♦	74HC00	MC74HC00N(A)	MOTA	NAND GATE	96- 74
156♦	74HC00	MM74HC00J(A)	NSC	NAND GATE	96- 90
157♦	74HC00	MM74HC00N	NSC	NAND GATE	96- 91
158♦	74HC00	PC74HC00D(A)	MULB	NAND GATE	97- 16
159♦	74HC00	PC74HC00D(A)	PHIN	NAND GATE	97- 16
160♦	74HC00	PC74HC00D(A)	RTCF	NAND GATE	97- 16
161♦	74HC00	PC74HC00D(A)	VALG	NAND GATE	97- 16
162♦	74HC00	PC74HC00P	MULB	NAND GATE	99- 32
163♦	74HC00	PC74HC00P	PHIN	NAND GATE	99- 32
164♦	74HC00	PC74HC00P	RTCF	NAND GATE	99- 32
165♦	74HC00	PC74HC00P	VALG	NAND GATE	99- 32
166♦	74HC00	*PC74HC00T	MULB	NAND GATE	99- 33
167♦	74HC00	*PC74HC00T	PHIN	NAND GATE	99- 33
168♦	74HC00	*PC74HC00T	RTCF	NAND GATE	99- 33
169♦	74HC00	*PC74HC00T	VALG	NAND GATE	99- 33
170▼	74HC00	*SN74HC00D	TII	NAND GATE	99- 13
171♦	74HC00	SN74HC00N	TII	NAND GATE	99- 14
172▼	74HC00	*TC74HC00F(A)	TOSA	NAND GATE	98- 96
173♦	74HC00	TC74HC00P(A)	TOSA	NAND GATE	97- 98
174♦	74HC00	TC74HC00P(A)	TOSJ	NAND GATE	97- 98
175♦	74HC00	UPD74HC00C(A)	NECJ	NAND GATE	98- 79
176▼	74HC01	*HD74HC01FP	HITJ	NAND GATE	98- 38
177▼	74HC01	HD74HC01P	HITJ	NAND GATE	98- 39
178	74HC02	*74HC02D	SIC	NOR GATE	113- 85
179♦	74HC02	74HC02N	SIC	NOR GATE	113- 86
180♦	74HC02	CD74HC02E	RCA	NOR GATE	113- 87
181♦	74HC02	*CD74HC02M	RCA	NOR GATE	113- 88
182▼	74HC02	*HD74HC02FP	HITJ	NOR GATE	115- 13
183▼	74HC02	HD74HC02P	HITJ	NOR GATE	115- 14
184♦	74HC02	LC74HC02	TSAJ	NOR GATE	113- 92
185♦	74HC02	M74HC02B1(A)	SGSI	NOR GATE	112- 74
186♦	74HC02	*M74HC02C1(A)	SGSI	NOR GATE	113- 80
187♦	74HC02	M74HC02F1(A)	SGSI	NOR GATE	112- 75
188♦	74HC02	M74HC02P	MITJ	NOR GATE	112- 76
189♦	74HC02	MC74HC02J(A)	MOTA	NOR GATE	112- 88
190♦	74HC02	MC74HC02N(A)	MOTA	NOR GATE	112- 89
191♦	74HC02	PC74HC02D(A)	MULB	NOR GATE	112-100
192♦	74HC02	PC74HC02D(A)	PHIN	NOR GATE	112-100
193♦	74HC02	PC74HC02D(A)	RTCF	NOR GATE	112-100
194♦	74HC02	PC74HC02D(A)	VALG	NOR GATE	112-100
195♦	74HC02	PC74HC02P	MULB	NOR GATE	114- 7
196♦	74HC02	PC74HC02P	PHIN	NOR GATE	114- 7
197♦	74HC02	PC74HC02P	RTCF	NOR GATE	114- 7
198♦	74HC02	PC74HC02P	VALG	NOR GATE	114- 7
199♦	74HC02	*PC74HC02T(A)	MULB	NOR GATE	114- 8
200♦	74HC02	*PC74HC02T(A)	PHIN	NOR GATE	114- 8
201♦	74HC02	*PC74HC02T(A)	RTCF	NOR GATE	114- 8
202♦	74HC02	*PC74HC02T(A)	VALG	NOR GATE	114- 8
203▼	74HC02	*SN74HC02D	TII	NOR GATE	113-106
204♦	74HC02	SN74HC02N	TII	NOR GATE	113-107
205▼	74HC02	*TC74HC02F(A)	TOSA	NOR GATE	113-108
206♦	74HC02	TC74HC02P(A)	TOSA	NOR GATE	113-109
207♦	74HC02	TC74HC02P(A)	TOSJ	NOR GATE	113-109
208♦	74HC02	UPD74HC02C(A)	NECJ	NOR GATE	113- 83
209♦	74HC03	*74HC03D	SIC	NAND GATE	98- 88
210♦	74HC03	74HC03N	SIC	NAND GATE	98- 89
211♦	74HC03	CD74HC03E(A)	RCA	NAND GATE	98- 97
212♦	74HC03	*CD74HC03M(A)	RCA	NAND GATE	98- 98
213♦	74HC03	M74HC03B1(A)	SGSI	NAND GATE	96- 43
214♦	74HC03	*M74HC03C1(A)	SGSI	NAND GATE	98- 74
215♦	74HC03	M74HC03F1(A)	SGSI	NAND GATE	96- 44
216♦	74HC03	MC74HC03J(A)	MOTA	NAND GATE	96- 75
217♦	74HC03	MC74HC03N(A)	MOTA	NAND GATE	96- 76
218♦	74HC03	PC74HC03D(A)	MULB	NAND GATE	97- 17
219♦	74HC03	PC74HC03D(A)	PHIN	NAND GATE	97- 17
220♦	74HC03	PC74HC03D(A)	RTCF	NAND GATE	97- 17

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

GENERIC PRODUCT INDEX

IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	74HC03	PC74HC03D(A)	VALG	NAND GATE	97- 17
2♦	74HC03	PC74HC03P	MULB	NAND GATE	99- 36
3♦	74HC03	PC74HC03P	PHIN	NAND GATE	99- 36
4♦	74HC03	PC74HC03P	RTCF	NAND GATE	99- 36
5♦	74HC03	PC74HC03P	VALG	NAND GATE	99- 36
6♦	74HC03	*PC74HC03T	MULB	NAND GATE	99- 37
7♦	74HC03	*PC74HC03T	PHIN	NAND GATE	99- 37
8♦	74HC03	*PC74HC03T	RTCF	NAND GATE	99- 37
9♦	74HC03	*PC74HC03T	VALG	NAND GATE	99- 37
10▼	74HC03	*SN74HC03D	TII	NAND GATE	99- 48
11▼	74HC03	SN74HC03N	TII	NAND GATE	99- 49
12▼	74HC03	*TC74HC03F(A)	TOSA	NAND GATE	99- 50
13▼	74HC03	TC74HC03P(A)	TOSA	NAND GATE	99- 51
14	74HC08	*74HC08D	SIC	AND GATE	77- 82
15♦	74HC08	74HC08N	SIC	AND GATE	77- 83
16♦	74HC08	CD74HC08E	RCA	AND GATE	77- 84
17♦	74HC08	*CD74HC08M	RCA	AND GATE	77- 85
18▼	74HC08	*HD74HC08FP	HITJ	AND GATE	77- 45
19▼	74HC08	HD74HC08P	HITJ	AND GATE	77- 46
20♦	74HC08	LC74HC08	TSAJ	AND GATE	77- 90
21♦	74HC08	M74HC08B1(A)	SGSI	AND GATE	76- 39
22♦	74HC08	*M74HC08C1(A)	SGSI	AND GATE	76- 40
23♦	74HC08	M74HC08F1(A)	SGSI	AND GATE	76- 41
24♦	74HC08	M74HC08P	MITJ	AND GATE	76- 42
25♦	74HC08	MC74HC08BCAJ(A)	MOTA	AND GATE	76- 54
26♦	74HC08	MC74HC08BCAN(A)	MOTA	AND GATE	76- 55
27♦	74HC08	MC74HC08J(A)	MOTA	AND GATE	76- 56
28♦	74HC08	MC74HC08N(A)	MOTA	AND GATE	76- 57
29♦	74HC08	PC74HC08D(A)	MULB	AND GATE	76- 83
30♦	74HC08	PC74HC08D(A)	PHIN	AND GATE	76- 83
31♦	74HC08	PC74HC08D(A)	RTCF	AND GATE	76- 83
32♦	74HC08	PC74HC08D(A)	VALG	AND GATE	76- 83
33♦	74HC08	PC74HC08P	MULB	AND GATE	77- 99
34♦	74HC08	PC74HC08P	PHIN	AND GATE	77- 99
35♦	74HC08	PC74HC08P	RTCF	AND GATE	77- 99
36♦	74HC08	PC74HC08P	VALG	AND GATE	77- 99
37♦	74HC08	*PC74HC08T	MULB	AND GATE	77-100
38♦	74HC08	*PC74HC08T	PHIN	AND GATE	77-100
39♦	74HC08	*PC74HC08T	RTCF	AND GATE	77-100
40♦	74HC08	*PC74HC08T	VALG	AND GATE	77-100
41▼	74HC08	*SN74HC08D	TII	AND GATE	77- 96
42♦	74HC08	SN74HC08N	TII	AND GATE	77- 97
43▼	74HC08	*TC74HC08F(A)	TOSA	AND GATE	77- 95
44▼	74HC08	*TC74HC08F(A)	TOSJ	AND GATE	77- 95
45♦	74HC08	TC74HC08P(A)	TOSA	AND GATE	77- 4
46♦	74HC08	TC74HC08P(A)	TOSJ	AND GATE	77- 4
47♦	74HC08	UPD74HC08C(A)	NECJ	AND GATE	77- 74
48▼	74HC09	*HD74HC09FP	HITJ	AND GATE	77- 43
49▼	74HC09	HD74HC09P	HITJ	AND GATE	77- 44
50▼	74HC09	*SN74HC09D	TII	AND GATE	78- 1
51▼	74HC09	SN74HC09N	TII	AND GATE	78- 2
52	74HC10	*74HC10D	SIC	NAND GATE	103- 1
53♦	74HC10	74HC10N	SIC	NAND GATE	103- 2
54♦	74HC10	CD74HC10E	RCA	NAND GATE	103- 4
55♦	74HC10	*CD74HC10M	RCA	NAND GATE	103- 5
56▼	74HC10	*HD74HC10FP	HITJ	NAND GATE	102- 68
57▼	74HC10	HD74HC10P	HITJ	NAND GATE	102- 69
58♦	74HC10	LC74HC10	TSAJ	NAND GATE	103- 3
59♦	74HC10	M74HC10B1(A)	SGSI	NAND GATE	102-108
60♦	74HC10	*M74HC10C1(A)	SGSI	NAND GATE	102-109
61♦	74HC10	M74HC10F1(A)	SGSI	NAND GATE	102-110
62♦	74HC10	M74HC10P	MITJ	NAND GATE	102-105
63♦	74HC10	MC74HC10J(A)	MOTA	NAND GATE	101- 76
64♦	74HC10	MC74HC10N(A)	MOTA	NAND GATE	101- 77
65♦	74HC10	MM74HC10J	NSC	NAND GATE	101- 87
66♦	74HC10	MM74HC10N(A)	NSC	NAND GATE	101- 88
67♦	74HC10	PC74HC10D(A)	MULB	NAND GATE	102- 65
68♦	74HC10	PC74HC10D(A)	PHIN	NAND GATE	102- 65
69♦	74HC10	PC74HC10D(A)	RTCF	NAND GATE	102- 65
70♦	74HC10	PC74HC10D(A)	VALG	NAND GATE	102- 65
71♦	74HC10	PC74HC10P	MULB	NAND GATE	103- 18
72♦	74HC10	PC74HC10P	PHIN	NAND GATE	103- 18
73♦	74HC10	PC74HC10P	RTCF	NAND GATE	103- 18
74♦	74HC10	PC74HC10P	VALG	NAND GATE	103- 18
75♦	74HC10	*PC74HC10T	MULB	NAND GATE	103- 19
76♦	74HC10	*PC74HC10T	PHIN	NAND GATE	103- 19
77♦	74HC10	*PC74HC10T	RTCF	NAND GATE	103- 19
78♦	74HC10	*PC74HC10T	VALG	NAND GATE	103- 19
79▼	74HC10	*SN74HC10D	TII	NAND GATE	103- 13
80♦	74HC10	SN74HC10N	TII	NAND GATE	103- 14
81▼	74HC10	*TC74HC10F(A)	TOSA	NAND GATE	103- 11
82♦	74HC10	TC74HC10P(A)	TOSA	NAND GATE	103- 12
83♦	74HC10	TC74HC10P(A)	TOSJ	NAND GATE	103- 12
84♦	74HC10	UPD74HC10C(A)	NECJ	NAND GATE	103- 10
85	74HC11	*74HC11D	SIC	AND GATE	80- 66
86♦	74HC11	74HC11N	SIC	AND GATE	80- 67
87♦	74HC11	CD74HC11E	RCA	AND GATE	80- 68
88♦	74HC11	*CD74HC11M	RCA	AND GATE	80- 69
89▼	74HC11	*HD74HC11FP	HITJ	AND GATE	80- 47
90▼	74HC11	HD74HC11P	HITJ	AND GATE	80- 48
91♦	74HC11	LC74HC11	TSAJ	AND GATE	80- 64
92♦	74HC11	M74HC11B1(A)	SGSI	AND GATE	79- 73
93♦	74HC11	*M74HC11C1(A)	SGSI	AND GATE	79- 74
94♦	74HC11	M74HC11F1(A)	SGSI	AND GATE	79- 75
95♦	74HC11	MC74HC11J(A)	MOTA	AND GATE	79- 87
96♦	74HC11	MC74HC11N(A)	MOTA	AND GATE	79- 88
97♦	74HC11	PC74HC11D(A)	MULB	AND GATE	79-105
98♦	74HC11	PC74HC11D(A)	PHIN	AND GATE	79-105
99♦	74HC11	PC74HC11D(A)	RTCF	AND GATE	79-105
100♦	74HC11	PC74HC11D(A)	VALG	AND GATE	79-105
101♦	74HC11	PC74HC11P	MULB	AND GATE	80- 80
102♦	74HC11	PC74HC11P	PHIN	AND GATE	80- 80
103♦	74HC11	PC74HC11P	RTCF	AND GATE	80- 80
104♦	74HC11	PC74HC11P	VALG	AND GATE	80- 80
105♦	74HC11	*PC74HC11T	MULB	AND GATE	80- 81
106♦	74HC11	*PC74HC11T	PHIN	AND GATE	80- 81
107♦	74HC11	*PC74HC11T	RTCF	AND GATE	80- 81
108♦	74HC11	*PC74HC11T	VALG	AND GATE	80- 81
109▼	74HC11	*SN74HC11D	TII	AND GATE	80- 72
110♦	74HC11	SN74HC11N	TII	AND GATE	80- 73
111▼	74HC11	*TC74HC11F(A)	TOSA	AND GATE	80- 78
112♦	74HC11	TC74HC11P(A)	TOSA	AND GATE	80- 79
113♦	74HC11	TC74HC11P(A)	TOSJ	AND GATE	80- 79
114♦	74HC11	UPD74HC11C(A)	NECJ	AND GATE	80- 55
115	74HC20	*74HC20D	SIC	NAND GATE	106-107
116♦	74HC20	74HC20N	SIC	NAND GATE	106-108
117♦	74HC20	CD74HC20E	RCA	NAND GATE	107- 1
118♦	74HC20	*CD74HC20M	RCA	NAND GATE	107- 2
119▼	74HC20	*HD74HC20FP	HITJ	NAND GATE	106- 29
120▼	74HC20	HD74HC20P	HITJ	NAND GATE	106- 30
121♦	74HC20	LC74HC20	TSAJ	NAND GATE	108- 48
122♦	74HC20	M74HC20B1(A)	SGSI	NAND GATE	104-103
123♦	74HC20	*M74HC20C1(A)	SGSI	NAND GATE	106-105
124♦	74HC20	M74HC20F1(A)	SGSI	NAND GATE	104-104
125♦	74HC20	M74HC20P	MITJ	NAND GATE	104-105
126♦	74HC20	MC74HC20J(A)	MOTA	NAND GATE	107- 28
127♦	74HC20	MC74HC20N(A)	MOTA	NAND GATE	107- 29
128♦	74HC20	MM74HC20J	NSC	NAND GATE	106- 25
129♦	74HC20	MM74HC20N(A)	NSC	NAND GATE	106- 26
130♦	74HC20	PC74HC20D(A)	MULB	NAND GATE	105- 28
131♦	74HC20	PC74HC20D(A)	PHIN	NAND GATE	105- 28
132♦	74HC20	PC74HC20D(A)	RTCF	NAND GATE	105- 28
133♦	74HC20	PC74HC20D(A)	VALG	NAND GATE	105- 28
134♦	74HC20	PC74HC20P	MULB	NAND GATE	107- 30
135♦	74HC20	PC74HC20P	PHIN	NAND GATE	107- 30
136♦	74HC20	PC74HC20P	RTCF	NAND GATE	107- 30
137♦	74HC20	PC74HC20P	VALG	NAND GATE	107- 30
138♦	74HC20	*PC74HC20T	MULB	NAND GATE	107- 31
139♦	74HC20	*PC74HC20T	PHIN	NAND GATE	107- 31
140♦	74HC20	*PC74HC20T	RTCF	NAND GATE	107- 31
141♦	74HC20	*PC74HC20T	VALG	NAND GATE	107- 31
142▼	74HC20	*SN74HC20D	TII	NAND GATE	107- 32
143♦	74HC20	SN74HC20N	TII	NAND GATE	107- 33
144▼	74HC20	*TC74HC20F(A)	TOSA	NAND GATE	107- 17
145♦	74HC20	TC74HC20P(A)	TOSA	NAND GATE	107- 18
146♦	74HC20	TC74HC20P(A)	TOSJ	NAND GATE	107- 18
147♦	74HC20	UPD74HC20C(A)	NECJ	NAND GATE	106- 27
148	74HC21	*74HC21D	SIC	AND GATE	82- 2
149♦	74HC21	74HC21N	SIC	AND GATE	82- 3
150♦	74HC21	CD74HC21E	RCA	AND GATE	82- 80
151♦	74HC21	*CD74HC21M	RCA	AND GATE	82- 81
152▼	74HC21	*HD74HC21FP	HITJ	AND GATE	82- 24
153▼	74HC21	HD74HC21P	HITJ	AND GATE	82- 25
154♦	74HC21	LC74HC21	TSAJ	AND GATE	82- 85
155♦	74HC21	M74HC21B1(A)	SGSI	AND GATE	81- 58
156♦	74HC21	*M74HC21C1(A)	SGSI	AND GATE	81- 59
157♦	74HC21	M74HC21F1(A)	SGSI	AND GATE	81- 60
158♦	74HC21	PC74HC21D(A)	MULB	AND GATE	82- 5
159♦	74HC21	PC74HC21D(A)	PHIN	AND GATE	82- 5
160♦	74HC21	PC74HC21D(A)	RTCF	AND GATE	82- 5
161♦	74HC21	PC74HC21D(A)	VALG	AND GATE	82- 5
162♦	74HC21	PC74HC21P	MULB	AND GATE	82- 6
163♦	74HC21	PC74HC21P	PHIN	AND GATE	82- 6
164♦	74HC21	PC74HC21P	RTCF	AND GATE	82- 6
165♦	74HC21	PC74HC21P	VALG	AND GATE	82- 6
166♦	74HC21	*PC74HC21T	MULB	AND GATE	82- 7
167♦	74HC21	*PC74HC21T	PHIN	AND GATE	82- 7
168♦	74HC21	*PC74HC21T	RTCF	AND GATE	82- 7
169♦	74HC21	*PC74HC21T	VALG	AND GATE	82- 7
170▼	74HC21	*SN74HC21D	TII	AND GATE	82-100
171♦	74HC21	SN74HC21N	TII	AND GATE	82-101
172▼	74HC21	*TC74HC21F(A)	TOSA	AND GATE	82-102
173♦	74HC21	TC74HC21P(A)	TOSA	AND GATE	82- 79
174♦	74HC21	TC74HC21P(A)	TOSJ	AND GATE	82- 79
175♦	74HC21	UPD74HC21C(A)	NECJ	AND GATE	82- 8
176	74HC27	*74HC27D	SIC	NOR GATE	116- 25
177♦	74HC27	74HC27N	SIC	NOR GATE	116- 26
178♦	74HC27	CD74HC27E	RCA	NOR GATE	116- 27
179♦	74HC27	*CD74HC27M	RCA	NOR GATE	116- 40
180▼	74HC27	*HD74HC27FP	HITJ	NOR GATE	116- 13
181▼	74HC27	HD74HC27P	HITJ	NOR GATE	116- 14
182♦	74HC27	LC74HC27	TSAJ	NOR GATE	116- 30
183♦	74HC27	M74HC27B1(A)	SGSI	NOR GATE	115- 78
184♦	74HC27	*M74HC27C1(A)	SGSI	NOR GATE	116- 20
185♦	74HC27	M74HC27F1(A)	SGSI	NOR GATE	115- 79
186♦	74HC27	M74HC27P	MITJ	NOR GATE	115- 80
187♦	74HC27	MC74HC27J(A)	MOTA	NOR GATE	115- 86
188♦	74HC27	MC74HC27N(A)	MOTA	NOR GATE	115- 87
189♦	74HC27	PC74HC27D(A)	MULB	NOR GATE	115- 97
190♦	74HC27	PC74HC27D(A)	PHIN	NOR GATE	115- 97
191♦	74HC27	PC74HC27D(A)	RTCF	NOR GATE	115- 97
192♦	74HC27	PC74HC27D(A)	VALG	NOR GATE	115- 97
193♦	74HC27	PC74HC27P	MULB	NOR GATE	116- 32
194♦	74HC27	PC74HC27P	PHIN	NOR GATE	116- 32
195♦	74HC27	PC74HC27P	RTCF	NOR GATE	116- 32
196♦	74HC27	PC74HC27P	VALG	NOR GATE	116- 32
197♦	74HC27	*PC74HC27T	MULB	NOR GATE	116- 33
198♦	74HC27	*PC74HC27T	PHIN	NOR GATE	116- 33
199♦	74HC27	*PC74HC27T	RTCF	NOR GATE	116- 33
200♦	74HC27	*PC74HC27T	VALG	NOR GATE	116- 33
201▼	74HC27	*SN74HC27D	TII	NOR GATE	116- 34
202♦	74HC27	SN74HC27N	TII	NOR GATE	116- 35
203▼	74HC27	*TC74HC27F(A)	TOSA	NOR GATE	116- 36
204♦	74HC27	TC74HC27P(A)	TOSA	NOR GATE	116- 37
205♦	74HC27	TC74HC27P(A)	TOSJ	NOR GATE	116- 37
206♦	74HC27	UPD74HC27C(A)	NECJ	NOR GATE	116- 15
207	74HC30	*74HC30D	SIC	NAND GATE	110- 35
208♦	74HC30	74HC30N	SIC	NAND GATE	110- 36
209♦	74HC30	CD74HC30E	RCA	NAND GATE	110- 37
210♦	74HC30	*CD74HC30M	RCA	NAND GATE	110- 38
211▼	74HC30	*HD74HC30FP	HITJ	NAND GATE	109- 54
212▼	74HC30	HD74HC30P	HITJ	NAND GATE	109- 55
213♦	74HC30	M74HC30B1(A)	SGSI	NAND GATE	109-105
214♦	74HC30	*M74HC30C1(A)	SGSI	NAND GATE	109-106
215♦	74HC30	M74HC30F1(A)	SGSI	NAND GATE	109-107
216♦	74HC30	MC74HC30J(A)	MOTA	NAND GATE	109- 4
217♦	74HC30	MC74HC30N(A)	MOTA	NAND GATE	109- 5
218♦	74HC30	MM74HC30J	NSC	NAND GATE	109- 91
219♦	74HC30	MM74HC30N(A)	NSC	NAND GATE	109- 92
220♦	74HC30	PC74HC30D(A)	MULB	NAND GATE	109- 52

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1♦	74HC30	PC74HC30D(A)	PHIN	NAND GATE	109- 52
2♦	74HC30	PC74HC30D(A)	RTCF	NAND GATE	109- 52
3♦	74HC30	PC74HC30D(A)	VALG	NAND GATE	109- 52
4♦	74HC30	PC74HC30P	MULB	NAND GATE	110- 51
5♦	74HC30	PC74HC30P	PHIN	NAND GATE	110- 51
6♦	74HC30	PC74HC30P	RTCF	NAND GATE	110- 51
7♦	74HC30	PC74HC30P	VALG	NAND GATE	110- 51
8♦	74HC30	*PC74HC30T	MULB	NAND GATE	110- 52
9♦	74HC30	*PC74HC30T	PHIN	NAND GATE	110- 52
10♦	74HC30	*PC74HC30T	RTCF	NAND GATE	110- 52
11♦	74HC30	*PC74HC30T	VALG	NAND GATE	110- 52
12▼	74HC30	*SN74HC30D	TII	NAND GATE	110- 47
13♦	74HC30	SN74HC30N	TII	NAND GATE	110- 48
14▼	74HC30	*TC74HC30F(A)	TOSA	NAND GATE	110- 42
15♦	74HC30	TC74HC30P(A)	TOSA	NAND GATE	110- 43
16♦	74HC30	TC74HC30P(A)	TOSJ	NAND GATE	110- 43
17♦	74HC30	UPD74HC30C(A)	NECJ	NAND GATE	109- 32
18	74HC32	*74HC32D	SIC	OR GATE	121- 59
19♦	74HC32	74HC32N	SIC	OR GATE	121- 60
20♦	74HC32	CD74HC32E(A)	RCA	OR GATE	121- 61
21♦	74HC32	*CD74HC32M	RCA	OR GATE	121- 62
22▼	74HC32	*HD74HC32FP	HITJ	OR GATE	121- 47
23▼	74HC32	HD74HC32P	HITJ	OR GATE	121- 48
24♦	74HC32	LC74HC32	TSAJ	OR GATE	121- 65
25♦	74HC32	M74HC32B1(A)	SGSI	OR GATE	120- 34
26♦	74HC32	*M74HC32C1(A)	SGSI	OR GATE	121- 53
27♦	74HC32	M74HC32F1(A)	SGSI	OR GATE	120- 35
28♦	74HC32	M74HC32P	MITJ	OR GATE	120- 36
29♦	74HC32	MC74HC32J(A)	MOTA	OR GATE	120- 47
30♦	74HC32	MC74HC32N(A)	MOTA	OR GATE	120- 48
31♦	74HC32	PC74HC32D(A)	MULB	OR GATE	120- 71
32♦	74HC32	PC74HC32D(A)	PHIN	OR GATE	120- 71
33♦	74HC32	PC74HC32D(A)	RTCF	OR GATE	120- 71
34♦	74HC32	PC74HC32D(A)	VALG	OR GATE	120- 71
35♦	74HC32	PC74HC32P	MULB	OR GATE	121- 81
36♦	74HC32	PC74HC32P	PHIN	OR GATE	121- 81
37♦	74HC32	PC74HC32P	RTCF	OR GATE	121- 81
38♦	74HC32	PC74HC32P	VALG	OR GATE	121- 81
39♦	74HC32	*PC74HC32T	MULB	OR GATE	121- 82
40♦	74HC32	*PC74HC32T	PHIN	OR GATE	121- 82
41♦	74HC32	*PC74HC32T	RTCF	OR GATE	121- 82
42♦	74HC32	*PC74HC32T	VALG	OR GATE	121- 82
43▼	74HC32	*SN74HC32D	TII	OR GATE	121- 79
44♦	74HC32	SN74HC32N	TII	OR GATE	121- 80
45▼	74HC32	*TC74HC32F(A)	TOSA	OR GATE	121- 77
46♦	74HC32	TC74HC32P(A)	TOSA	OR GATE	121- 78
47♦	74HC32	TC74HC32P(A)	TOSJ	OR GATE	121- 78
48♦	74HC32	UPD74HC32C(A)	NECJ	OR GATE	121- 49
49▼	74HC36	*SN74HC36D	TII	NOR GATE	114- 5
50♦	74HC36	SN74HC36N	TII	NOR GATE	114- 6
51	74HC42	*74HC42D	SIC	DECODER	125- 52
52♦	74HC42	74HC42N	SIC	DECODER	125- 53
53	74HC42	CD74HC42E	RCA	DECODER	126- 57
54	74HC42	*CD74HC42M	RCA	DECODER	126- 58
55▼	74HC42	*HD74HC42FP	HITJ	DECODER	126- 96
56▼	74HC42	HD74HC42P	HITJ	DECODER	126- 97
57♦	74HC42	M74HC42B1(A)	SGSI	DECODER	127- 4
58	74HC42	*M74HC42C1(A)	SGSI	DECODER	127- 5
59♦	74HC42	M74HC42F1(A)	SGSI	DECODER	127- 6
60♦	74HC42	M74HC42P	MITJ	DECODER	127- 7
61♦	74HC42	MM74HC42J	NSC	DECODER	127- 34
62♦	74HC42	MM74HC42N	NSC	DECODER	127- 35
63♦	74HC42	PC74HC42D(A)	MULB	DECODER	127- 53
64♦	74HC42	PC74HC42D(A)	PHIN	DECODER	127- 53
65♦	74HC42	PC74HC42D(A)	RTCF	DECODER	127- 53
66♦	74HC42	PC74HC42D(A)	VALG	DECODER	127- 53
67♦	74HC42	PC74HC42P	MULB	DECODER	127- 54
68♦	74HC42	PC74HC42P	PHIN	DECODER	127- 54
69♦	74HC42	PC74HC42P	RTCF	DECODER	127- 54
70♦	74HC42	PC74HC42P	VALG	DECODER	127- 54
71	74HC42	*PC74HC42T	MULB	DECODER	127- 55
72	74HC42	*PC74HC42T	PHIN	DECODER	127- 55
73	74HC42	*PC74HC42T	RTCF	DECODER	127- 55
74	74HC42	*PC74HC42T	VALG	DECODER	127- 55
75▼	74HC42	*TC74HC42F(A)	TOSA	DECODER	127- 77
76▼	74HC42	TC74HC42P(A)	TOSA	DECODER	127- 78
77♦	74HC42	UPD74HC42C(A)	NECJ	DECODER	127- 82
78▼	74HC51	*HD74HC51FP	HITJ	AND-OR-INV	88- 90
79▼	74HC51	HD74HC51P	HITJ	AND-OR-INV	88- 91
80♦	74HC51	M74HC51B1(A)	SGSI	AND-OR-INV	88- 68
81♦	74HC51	*M74HC51C1(A)	SGSI	AND-OR-INV	88- 94
82♦	74HC51	M74HC51F1(A)	SGSI	AND-OR-INV	88- 69
83♦	74HC51	MC74HC51J(A)	MOTA	AND-OR-INV	88- 71
84♦	74HC51	MC74HC51N(A)	MOTA	AND-OR-INV	88- 72
85♦	74HC51	MM74HC51J(A)	NSC	AND-OR-INV	88- 74
86♦	74HC51	MM74HC51N(A)	NSC	AND-OR-INV	88- 75
87▼	74HC51	*SN74HC51D	TII	AND-OR-INV	88- 61
88♦	74HC51	SN74HC51N	TII	AND-OR-INV	88- 62
89▼	74HC51	*TC74HC51F(A)	TOSA	AND-OR-INV	88-102
90▼	74HC51	TC74HC51P(A)	TOSA	AND-OR-INV	88-103
91♦	74HC51	UPD74HC51C(A)	NECJ	AND-OR-INV	88- 89
92♦	74HC58	*74HC58D	SIC	AND-OR GTE	84-105
93♦	74HC58	74HC58N	SIC	AND-OR GTE	84-106
94♦	74HC58	MC74HC58J(A)	MOTA	AND-OR GTE	85- 1
95♦	74HC58	MC74HC58N(A)	MOTA	AND-OR GTE	85- 2
96♦	74HC58	MM74HC58J(A)	NSC	AND-OR GTE	84-107
97♦	74HC58	MM74HC58N(A)	NSC	AND-OR GTE	84-108
98▼	74HC58	PC74HC58P	MULB	AND-OR GTE	84- 97
99▼	74HC58	PC74HC58P	PHIN	AND-OR GTE	84- 97
100▼	74HC58	PC74HC58P	RTCF	AND-OR GTE	84- 97
101▼	74HC58	PC74HC58P	VALG	AND-OR GTE	84- 97
102▼	74HC58	*PC74HC58T	MULB	AND-OR GTE	84- 98
103▼	74HC58	*PC74HC58T	PHIN	AND-OR GTE	84- 98
104▼	74HC58	*PC74HC58T	RTCF	AND-OR GTE	84- 98
105▼	74HC58	*PC74HC58T	VALG	AND-OR GTE	84- 98
106	74HC73	*74HC73D	SIC	JK FL-FLOP	70- 2
107♦	74HC73	74HC73N	SIC	JK FL-FLOP	70- 3
108♦	74HC73	CD74HC73E	RCA	JK FL-FLOP	73- 32
109♦	74HC73	*CD74HC73M(A)	RCA	JK FL-FLOP	73- 33
110▼	74HC73	*HD74HC73FP	HITJ	JK FL-FLOP	69- 7
111▼	74HC73	HD74HC73P	HITJ	JK FL-FLOP	69- 8
112♦	74HC73	M74HC73B1(A)	SGSI	JK FL-FLOP	69- 50
113	74HC73	*M74HC73C1(A)	SGSI	JK FL-FLOP	69- 51
114♦	74HC73	M74HC73F1(A)	SGSI	JK FL-FLOP	69- 52
115♦	74HC73	MC74HC73J(A)	MOTA	JK FL-FLOP	70- 70
116♦	74HC73	MC74HC73N(A)	MOTA	JK FL-FLOP	70- 71
117♦	74HC73	MM74HC73J	NSC	JK FL-FLOP	69- 65
118♦	74HC73	MM74HC73N	NSC	JK FL-FLOP	69- 66
119♦	74HC73	PC74HC73D(A)	MULB	JK FL-FLOP	69- 3
120♦	74HC73	PC74HC73D(A)	PHIN	JK FL-FLOP	69- 3
121♦	74HC73	PC74HC73D(A)	RTCF	JK FL-FLOP	69- 3
122♦	74HC73	PC74HC73D(A)	VALG	JK FL-FLOP	69- 3
123♦	74HC73	PC74HC73P	MULB	JK FL-FLOP	68- 62
124♦	74HC73	PC74HC73P	PHIN	JK FL-FLOP	68- 62
125♦	74HC73	PC74HC73P	RTCF	JK FL-FLOP	68- 62
126♦	74HC73	PC74HC73P	VALG	JK FL-FLOP	68- 62
127	74HC73	*PC74HC73T	MULB	JK FL-FLOP	68- 63
128	74HC73	*PC74HC73T	PHIN	JK FL-FLOP	68- 63
129	74HC73	*PC74HC73T	RTCF	JK FL-FLOP	68- 63
130	74HC73	*PC74HC73T	VALG	JK FL-FLOP	68- 63
131♦	74HC73	SN74HC73N(A)	TII	JK FL-FLOP	69-101
132▼	74HC73	*TC74HC73F(A)	TOSA	JK FL-FLOP	73- 16
133▼	74HC73	TC74HC73P(A)	TOSA	JK FL-FLOP	73- 17
134	74HC74	*74HC74D	SIC	D FL-FLOP	51- 92
135♦	74HC74	74HC74N	SIC	D FL-FLOP	51- 93
136♦	74HC74	CD74HC74E	RCA	D FL-FLOP	52- 52
137♦	74HC74	*CD74HC74M	RCA	D FL-FLOP	52- 53
138▼	74HC74	*HD74HC74FP	HITJ	D FL-FLOP	51- 30
139▼	74HC74	HD74HC74P	HITJ	D FL-FLOP	51- 31
140♦	74HC74	LC74HC74	TSAJ	D FL-FLOP	52- 37
141♦	74HC74	M74HC74B1(A)	SGSI	D FL-FLOP	51- 32
142	74HC74	*M74HC74C1(A)	SGSI	D FL-FLOP	51- 33
143♦	74HC74	M74HC74F1(A)	SGSI	D FL-FLOP	51- 34
144♦	74HC74	M74HC74P	MITJ	D FL-FLOP	52- 5
145♦	74HC74	MC74HC74J(A)	MOTA	D FL-FLOP	51-102
146♦	74HC74	MC74HC74N(A)	MOTA	D FL-FLOP	51-103
147♦	74HC74	MM74HC74J	NSC	D FL-FLOP	51- 65
148♦	74HC74	MM74HC74N	NSC	D FL-FLOP	51- 66
149♦	74HC74	PC74HC74D(A)	MULB	D FL-FLOP	51- 48
150♦	74HC74	PC74HC74D(A)	PHIN	D FL-FLOP	51- 48
151♦	74HC74	PC74HC74D(A)	RTCF	D FL-FLOP	51- 48
152♦	74HC74	PC74HC74D(A)	VALG	D FL-FLOP	51- 48
153♦	74HC74	PC74HC74P	MULB	D FL-FLOP	51- 49
154♦	74HC74	PC74HC74P	PHIN	D FL-FLOP	51- 49
155♦	74HC74	PC74HC74P	RTCF	D FL-FLOP	51- 49
156♦	74HC74	PC74HC74P	VALG	D FL-FLOP	51- 49
157	74HC74	*PC74HC74T	MULB	D FL-FLOP	51- 50
158	74HC74	*PC74HC74T	PHIN	D FL-FLOP	51- 50
159	74HC74	*PC74HC74T	RTCF	D FL-FLOP	51- 50
160	74HC74	*PC74HC74T	VALG	D FL-FLOP	51- 50
161▼	74HC74	*SN74HC74D	TII	D FL-FLOP	51- 88
162♦	74HC74	SN74HC74N	TII	D FL-FLOP	51- 89
163▼	74HC74	*TC74HC74F(A)	TOSA	D FL-FLOP	52- 59
164♦	74HC74	TC74HC74P	TOSA	D FL-FLOP	51- 91
165♦	74HC74	TC74HC74P	TOSJ	D FL-FLOP	51- 91
166♦	74HC74	UPD74HC74C(A)	NECJ	D FL-FLOP	52- 39
167	74HC75	*74HC75D	SIC	4-BIT LCH	231- 11
168♦	74HC75	74HC75N	SIC	4-BIT LCH	231- 12
169♦	74HC75	CD74HC75E(A)	RCA	2-BIT LCH	229- 83
170♦	74HC75	*CD74HC75M(A)	RCA	2-BIT LCH	229- 84
171▼	74HC75	*HD74HC75FP	HITJ	4-BIT LCH	230- 73
172▼	74HC75	HD74HC75P	HITJ	4-BIT LCH	230- 74
173♦	74HC75	M74HC75B1(A)	SGSI	4-BIT LCH	231- 94
174♦	74HC75	*M74HC75C1(A)	SGSI	4-BIT LCH	231- 95
175♦	74HC75	M74HC75F1(A)	SGSI	4-BIT LCH	231- 96
176♦	74HC75	MC74HC75J(A)	MOTA	2-BIT LCH	229- 71
177♦	74HC75	MC74HC75N(A)	MOTA	2-BIT LCH	229- 72
178♦	74HC75	MM74HC75J	NSC	4-BIT LCH	231- 72
179♦	74HC75	MM74HC75N	NSC	4-BIT LCH	231- 73
180♦	74HC75	PC74HC75D(A)	MULB	4-BIT LCH	231- 41
181♦	74HC75	PC74HC75D(A)	PHIN	4-BIT LCH	231- 41
182♦	74HC75	PC74HC75D(A)	RTCF	4-BIT LCH	231- 41
183♦	74HC75	PC74HC75D(A)	VALG	4-BIT LCH	231- 41
184♦	74HC75	PC74HC75P	MULB	4-BIT LCH	231- 83
185♦	74HC75	PC74HC75P	PHIN	4-BIT LCH	231- 83
186♦	74HC75	PC74HC75P	RTCF	4-BIT LCH	231- 83
187♦	74HC75	PC74HC75P	VALG	4-BIT LCH	231- 83
188♦	74HC75	*PC74HC75T	MULB	4-BIT LCH	231- 84
189♦	74HC75	*PC74HC75T	PHIN	4-BIT LCH	231- 84
190♦	74HC75	*PC74HC75T	RTCF	4-BIT LCH	231- 84
191♦	74HC75	*PC74HC75T	VALG	4-BIT LCH	231- 84
192♦	74HC75	SN74HC75N	TII	4-BIT LCH	231- 56
193▼	74HC75	*TC74HC75F(A)	TOSA	4-BIT LCH	230- 66
194▼	74HC75	TC74HC75P(A)	TOSA	4-BIT LCH	230- 67
195▼	74HC76	*HD74HC76FP	HITJ	JK FL-FLOP	69- 9
196▼	74HC76	HD74HC76P	HITJ	JK FL-FLOP	69- 10
197♦	74HC76	M74HC76B1(A)	SGSI	JK FL-FLOP	69- 53
198	74HC76	*M74HC76C1(A)	SGSI	JK FL-FLOP	69- 54
199♦	74HC76	M74HC76F1(A)	SGSI	JK FL-FLOP	69- 55
200♦	74HC76	MC74HC76J(A)	MOTA	JK FL-FLOP	70- 72
201♦	74HC76	MC74HC76N(A)	MOTA	JK FL-FLOP	70- 73
202♦	74HC76	MM74HC76J	NSC	JK FL-FLOP	69- 23
203♦	74HC76	MM74HC76N	NSC	JK FL-FLOP	69- 24
204♦	74HC76	SN74HC76N	TII	JK FL-FLOP	69-102
205▼	74HC76	*TC74HC76F	TOSA	JK FL-FLOP	73- 49
206♦	74HC76	TC74HC76P	TOSA	JK FL-FLOP	73- 50
207♦	74HC76	TC74HC76P	TOSJ	JK FL-FLOP	73- 50
208▼	74HC77	*HD74HC77FP	HITJ	4-BIT LCH	230- 75
209▼	74HC77	HD74HC77P	HITJ	4-BIT LCH	230- 76
210♦	74HC77	M74HC77B1(A)	SGSI	4-BIT LCH	231- 97
211	74HC77	*M74HC77C1(A)	SGSI	4-BIT LCH	231- 98
212♦	74HC77	M74HC77F1(A)	SGSI	4-BIT LCH	231- 99
213▼	74HC77	*SN74HC77D	TII	4-BIT LCH	231- 57
214♦	74HC77	SN74HC77N	TII	4-BIT LCH	231- 58
215▼	74HC77	*TC74HC77F(A)	TOSA	4-BIT LCH	231- 68
216▼	74HC77	TC74HC77P(A)	TOSA	4-BIT LCH	231- 69
217▼	74HC78	*HD74HC78FP	HITJ	JK FL-FLOP	69- 11
218▼	74HC78	HD74HC78P	HITJ	JK FL-FLOP	69- 12
219▼	74HC78	*SN74HC78D(A)	TII	JK FL-FLOP	69-103
220♦	74HC78	SN74HC78N(A)	TII	JK FL-FLOP	69-104

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3	74HC85	*74HC85D	SIC	MAGN COMP	216-107
4♦	74HC85	74HC85N	SIC	MAGN COMP	216-108
5	74HC85	CD74HC85E	RCA	MAGN COMP	216-105
6	74HC85	CD74HC85M	RCA	MAGN COMP	216-106
7▼	74HC85	*HD74HC85FP	HITJ	MAGN COMP	216- 69
8▼	74HC85	HD74HC85P	HITJ	MAGN COMP	216- 70
9♦	74HC85	M74HC85B1(A)	SGSI	MAGN COMP	217- 34
10	74HC85	*M74HC85C1(A)	SGSI	MAGN COMP	217- 35
11♦	74HC85	M74HC85F1(A)	SGSI	MAGN COMP	217- 36
12♦	74HC85	MC74HC85J(A)	MOTA	MAGN COMP	216- 76
13♦	74HC85	MC74HC85N(A)	MOTA	MAGN COMP	216- 77
14♦	74HC85	MM74HC85J	NSC	MAGN COMP	217- 6
15♦	74HC85	MM74HC85N	NSC	MAGN COMP	217- 7
16♦	74HC85	PC74HC85D(A)	MULB	MAGN COMP	217- 29
17♦	74HC85	PC74HC85D(A)	PHIN	MAGN COMP	217- 29
18♦	74HC85	PC74HC85D(A)	RTCF	MAGN COMP	217- 29
19♦	74HC85	PC74HC85D(A)	VALG	MAGN COMP	217- 29
20♦	74HC85	PC74HC85P	MULB	MAGN COMP	217- 30
21♦	74HC85	PC74HC85P	PHIN	MAGN COMP	217- 30
22♦	74HC85	PC74HC85P	RTCF	MAGN COMP	217- 30
23♦	74HC85	PC74HC85P	VALG	MAGN COMP	217- 30
24	74HC85	*PC74HC85T	MULB	MAGN COMP	217- 31
25	74HC85	*PC74HC85T	PHIN	MAGN COMP	217- 31
26	74HC85	*PC74HC85T	RTCF	MAGN COMP	217- 31
27	74HC85	*PC74HC85T	VALG	MAGN COMP	217- 31
28♦	74HC85	SN74HC85N(A)	TII	MAGN COMP	217- 37
29▼	74HC85	*TC74HC85F(A)	TOSA	MAGN COMP	217- 38
30▼	74HC85	TC74HC85P(A)	TOSA	MAGN COMP	217- 39
31♦	74HC85	UPD74HC85C(A)	NECJ	MAGN COMP	216- 71
32♦	74HC86	*74HC86D	SIC	EX-OR GATE	93- 46
33♦	74HC86	74HC86N	SIC	EX-OR GATE	93- 47
34♦	74HC86	CD74HC86E	RCA	EX-OR GATE	91- 64
35♦	74HC86	*CD74HC86M	RCA	EX-OR GATE	93- 79
36▼	74HC86	*HD74HC86FP	HITJ	EX-OR GATE	93- 34
37▼	74HC86	HD74HC86P	HITJ	EX-OR GATE	93- 35
38♦	74HC86	M74HC86B1(A)	SGSI	EX-OR GATE	92- 15
39♦	74HC86	*M74HC86C1(A)	SGSI	EX-OR GATE	94- 9
40♦	74HC86	M74HC86F1(A)	SGSI	EX-OR GATE	92- 16
41♦	74HC86	M74HC86P	MITJ	EX-OR GATE	92- 17
42♦	74HC86	MC74HC86J	MOTA	EX-OR GATE	92- 30
43♦	74HC86	MC74HC86N	MOTA	EX-OR GATE	92- 31
44♦	74HC86	MM74HC86J	NSC	EX-OR GATE	92- 48
45♦	74HC86	MM74HC86N	NSC	EX-OR GATE	92- 49
46♦	74HC86	PC74HC86D(A)	MULB	EX-OR GATE	92- 68
47♦	74HC86	PC74HC86D(A)	PHIN	EX-OR GATE	92- 68
48♦	74HC86	PC74HC86D(A)	RTCF	EX-OR GATE	92- 68
49♦	74HC86	PC74HC86D(A)	VALG	EX-OR GATE	92- 68
50♦	74HC86	PC74HC86P	MULB	EX-OR GATE	93- 60
51♦	74HC86	PC74HC86P	PHIN	EX-OR GATE	93- 60
52♦	74HC86	PC74HC86P	RTCF	EX-OR GATE	93- 60
53♦	74HC86	PC74HC86P	VALG	EX-OR GATE	93- 60
54♦	74HC86	*PC74HC86T	MULB	EX-OR GATE	93- 61
55♦	74HC86	*PC74HC86T	PHIN	EX-OR GATE	93- 61
56♦	74HC86	*PC74HC86T	RTCF	EX-OR GATE	93- 61
57♦	74HC86	*PC74HC86T	VALG	EX-OR GATE	93- 61
58▼	74HC86	*SN74HC86D	TII	EX-OR GATE	93- 66
59♦	74HC86	SN74HC86N	TII	EX-OR GATE	93- 67
60▼	74HC86	*TC74HC86F(A)	TOSA	EX-OR GATE	94- 5
61▼	74HC86	TC74HC86P(A)	TOSA	EX-OR GATE	94- 6
62♦	74HC86	UPD74HC86C(A)	NECJ	EX-OR GATE	93- 20
63♦	74HC93	*74HC93D	SIC	HEX CNTR	157- 4
64♦	74HC93	74HC93N	SIC	HEX CNTR	157- 5
65♦	74HC93	CD74HC93E(A)	RCA	HEX CNTR	154- 19
66♦	74HC93	*CD74HC93M(A)	RCA	HEX CNTR	154- 20
67▼	74HC93	*HD74HC93FP	HITJ	HEX CNTR	156- 42
68▼	74HC93	HD74HC93P	HITJ	HEX CNTR	156- 43
69♦	74HC93	PC74HC93D(A)	MULB	HEX CNTR	158- 63
70♦	74HC93	PC74HC93D(A)	PHIN	HEX CNTR	158- 63
71♦	74HC93	PC74HC93D(A)	RTCF	HEX CNTR	158- 63
72♦	74HC93	PC74HC93D(A)	VALG	HEX CNTR	158- 63
73♦	74HC93	PC74HC93P	MULB	HEX CNTR	156- 28
74♦	74HC93	PC74HC93P	PHIN	HEX CNTR	156- 28
75♦	74HC93	PC74HC93P	RTCF	HEX CNTR	156- 28
76♦	74HC93	PC74HC93P	VALG	HEX CNTR	156- 28
77♦	74HC93	*PC74HC93T	MULB	HEX CNTR	156- 29
78♦	74HC93	*PC74HC93T	PHIN	HEX CNTR	156- 29
79♦	74HC93	*PC74HC93T	RTCF	HEX CNTR	156- 29
80♦	74HC93	*PC74HC93T	VALG	HEX CNTR	156- 29
81	74HC107	*74HC107D	SIC	JK FL-FLOP	70- 4
82♦	74HC107	74HC107N	SIC	JK FL-FLOP	70- 5
83♦	74HC107	CD74HC107E	RCA	JK FL-FLOP	73- 34
84♦	74HC107	*CD74HC107M	RCA	JK FL-FLOP	73- 35
85▼	74HC107	*HD74HC107FP	HITJ	JK FL-FLOP	69- 13
86▼	74HC107	HD74HC107P	HITJ	JK FL-FLOP	69- 14
87♦	74HC107	M74HC107B1(A)	SGSI	JK FL-FLOP	69- 56
88	74HC107	*M74HC107C1(A)	SGSI	JK FL-FLOP	69- 57
89♦	74HC107	M74HC107F1(A)	SGSI	JK FL-FLOP	69- 58
90♦	74HC107	MC74HC107J(A)	MOTA	JK FL-FLOP	70- 74
91♦	74HC107	MC74HC107N(A)	MOTA	JK FL-FLOP	70- 75
92♦	74HC107	MM74HC107J	NSC	JK FL-FLOP	69- 25
93♦	74HC107	MM74HC107N	NSC	JK FL-FLOP	69- 26
94♦	74HC107	PC74HC107D(A)	MULB	JK FL-FLOP	68- 64
95♦	74HC107	PC74HC107D(A)	PHIN	JK FL-FLOP	68- 64
96♦	74HC107	PC74HC107D(A)	RTCF	JK FL-FLOP	68- 64
97♦	74HC107	PC74HC107D(A)	VALG	JK FL-FLOP	68- 64
98♦	74HC107	PC74HC107P	MULB	JK FL-FLOP	68- 65
99♦	74HC107	PC74HC107P	PHIN	JK FL-FLOP	68- 65
100♦	74HC107	PC74HC107P	RTCF	JK FL-FLOP	68- 65
101♦	74HC107	PC74HC107P	VALG	JK FL-FLOP	68- 65
102	74HC107	*PC74HC107T	MULB	JK FL-FLOP	68- 66
103	74HC107	*PC74HC107T	PHIN	JK FL-FLOP	68- 66
104	74HC107	*PC74HC107T	RTCF	JK FL-FLOP	68- 66
105	74HC107	*PC74HC107T	VALG	JK FL-FLOP	68- 66
106▼	74HC107	*SN74HC107D	TII	JK FL-FLOP	69-105
107♦	74HC107	SN74HC107N	TII	JK FL-FLOP	69-106
108▼	74HC107	*TC74HC107F(A)	TOSA	JK FL-FLOP	73- 14
109▼	74HC107	TC74HC107P(A)	TOSA	JK FL-FLOP	73- 15
110♦	74HC107	UPD74HC107C(A)	NECJ	JK FL-FLOP	73- 13
111▼	74HC108	*HD74HC108FP	HITJ	JK FL-FLOP	69- 15
112▼	74HC108	HD74HC108P	HITJ	JK FL-FLOP	69- 16
113	74HC109	*74HC109D	SIC	JK FL-FLOP	70- 6
114♦	74HC109	74HC109N	SIC	JK FL-FLOP	70- 7
115	74HC109	CD74HC109E	RCA	JK FL-FLOP	73- 36
116	74HC109	*CD74HC109M	RCA	JK FL-FLOP	74-107
117▼	74HC109	*HD74HC109FP	HITJ	JK FL-FLOP	68- 97
118▼	74HC109	HD74HC109P	HITJ	JK FL-FLOP	68- 98
119♦	74HC109	M74HC109B1(A)	SGSI	JK FL-FLOP	69- 59
120	74HC109	*M74HC109C1(A)	SGSI	JK FL-FLOP	69- 60
121♦	74HC109	M74HC109F1(A)	SGSI	JK FL-FLOP	69- 61
122♦	74HC109	MC74HC109J(A)	MOTA	JK FL-FLOP	70- 76
123♦	74HC109	MC74HC109N(A)	MOTA	JK FL-FLOP	70- 77
124♦	74HC109	MM74HC109J	NSC	JK FL-FLOP	69- 27
125♦	74HC109	MM74HC109N	NSC	JK FL-FLOP	69- 28
126♦	74HC109	PC74HC109D(A)	MULB	JK FL-FLOP	69- 33
127♦	74HC109	PC74HC109D(A)	PHIN	JK FL-FLOP	69- 33
128♦	74HC109	PC74HC109D(A)	RTCF	JK FL-FLOP	69- 33
129♦	74HC109	PC74HC109D(A)	VALG	JK FL-FLOP	69- 33
130♦	74HC109	PC74HC109P	MULB	JK FL-FLOP	68- 67
131♦	74HC109	PC74HC109P	PHIN	JK FL-FLOP	68- 67
132♦	74HC109	PC74HC109P	RTCF	JK FL-FLOP	68- 67
133♦	74HC109	PC74HC109P	VALG	JK FL-FLOP	68- 67
134	74HC109	*PC74HC109T	MULB	JK FL-FLOP	68- 68
135	74HC109	*PC74HC109T	PHIN	JK FL-FLOP	68- 68
136	74HC109	*PC74HC109T	RTCF	JK FL-FLOP	68- 68
137	74HC109	*PC74HC109T	VALG	JK FL-FLOP	68- 68
138▼	74HC109	*SN74HC109D	TII	JK FL-FLOP	69-107
139♦	74HC109	SN74HC109N	TII	JK FL-FLOP	69-108
140▼	74HC109	*TC74HC109F	TOSA	JK FL-FLOP	73- 51
141♦	74HC109	TC74HC109P	TOSA	JK FL-FLOP	73- 52
142♦	74HC109	TC74HC109P	TOSJ	JK FL-FLOP	73- 52
143♦	74HC109	UPD74HC109C(A)	NECJ	JK FL-FLOP	72- 68
144	74HC112	*74HC112D	SIC	JK FL-FLOP	70- 8
145♦	74HC112	74HC112N	SIC	JK FL-FLOP	70- 9
146♦	74HC112	CD74HC112E	RCA	JK FL-FLOP	73- 37
147♦	74HC112	CD74HC112M	RCA	JK FL-FLOP	73- 38
148▼	74HC112	*HD74HC112FP	HITJ	JK FL-FLOP	69- 17
149▼	74HC112	HD74HC112P	HITJ	JK FL-FLOP	69- 18
150♦	74HC112	M74HC112B1(A)	SGSI	JK FL-FLOP	70- 10
151	74HC112	*M74HC112C1(A)	SGSI	JK FL-FLOP	70- 11
152♦	74HC112	M74HC112F1(A)	SGSI	JK FL-FLOP	70- 12
153♦	74HC112	MC74HC112J(A)	MOTA	JK FL-FLOP	70- 78
154♦	74HC112	MC74HC112N(A)	MOTA	JK FL-FLOP	70- 79
155♦	74HC112	MM74HC112J	NSC	JK FL-FLOP	69- 29
156♦	74HC112	MM74HC112N	NSC	JK FL-FLOP	69- 30
157♦	74HC112	PC74HC112D(A)	MULB	JK FL-FLOP	73- 48
158♦	74HC112	PC74HC112D(A)	PHIN	JK FL-FLOP	73- 48
159♦	74HC112	PC74HC112D(A)	RTCF	JK FL-FLOP	73- 48
160♦	74HC112	PC74HC112D(A)	VALG	JK FL-FLOP	73- 48
161♦	74HC112	PC74HC112P	MULB	JK FL-FLOP	68- 69
162♦	74HC112	PC74HC112P	PHIN	JK FL-FLOP	68- 69
163♦	74HC112	PC74HC112P	RTCF	JK FL-FLOP	68- 69
164♦	74HC112	PC74HC112P	VALG	JK FL-FLOP	68- 69
165	74HC112	*PC74HC112T	MULB	JK FL-FLOP	68- 70
166	74HC112	*PC74HC112T	PHIN	JK FL-FLOP	68- 70
167	74HC112	*PC74HC112T	RTCF	JK FL-FLOP	68- 70
168	74HC112	*PC74HC112T	VALG	JK FL-FLOP	68- 70
169▼	74HC112	*SN74HC112D	TII	JK FL-FLOP	68- 80
170♦	74HC112	SN74HC112N	TII	JK FL-FLOP	68- 81
171▼	74HC112	*TC74HC112F(A)	TOSA	JK FL-FLOP	73- 21
172▼	74HC112	TC74HC112P(A)	TOSA	JK FL-FLOP	73- 22
173♦	74HC112	UPD74HC112C(A)	NECJ	JK FL-FLOP	72- 69
174▼	74HC113	*HD74HC113FP	HITJ	JK FL-FLOP	69- 19
175▼	74HC113	HD74HC113P	HITJ	JK FL-FLOP	69- 20
176♦	74HC113	M74HC113B1(A)	SGSI	JK FL-FLOP	70- 13
177	74HC113	*M74HC113C1(A)	SGSI	JK FL-FLOP	70- 14
178♦	74HC113	M74HC113F1(A)	SGSI	JK FL-FLOP	70- 15
179♦	74HC113	MC74HC113J	MOTA	JK FL-FLOP	70- 80
180♦	74HC113	MC74HC113N	MOTA	JK FL-FLOP	70- 81
181♦	74HC113	MM74HC113J	NSC	JK FL-FLOP	69- 31
182♦	74HC113	MM74HC113N	NSC	JK FL-FLOP	69- 32
183▼	74HC113	*SN74HC113D	TII	JK FL-FLOP	69-109
184♦	74HC113	SN74HC113N	TII	JK FL-FLOP	69-110
185▼	74HC113	*TC74HC113F(A)	TOSA	JK FL-FLOP	73- 53
186▼	74HC113	TC74HC113P(A)	TOSA	JK FL-FLOP	73- 54
187▼	74HC114	*HD74HC114FP	HITJ	JK FL-FLOP	69- 21
188▼	74HC114	HD74HC114P	HITJ	JK FL-FLOP	69- 22
189▼	74HC114	*SN74HC114D	TII	JK FL-FLOP	68- 33
190♦	74HC114	SN74HC114N	TII	JK FL-FLOP	68- 34
191	74HC123	*74HC123D	SIC	CLOCK/MV	189- 19
192♦	74HC123	74HC123N	SIC	CLOCK/MV	189- 20
193♦	74HC123	CD74HC123E	RCA	CLOCK/MV	189- 74
194	74HC123	*CD74HC123M(A)	RCA	CLOCK/MV	189- 75
195♦	74HC123	HD74HC123	HITJ	CLOCK/MV	190- 8
196▼	74HC123	*HD74HC123AFP	HITJ	CLOCK/MV	188- 27
197▼	74HC123	HD74HC123AP	HITJ	CLOCK/MV	188- 28
198▼	74HC123	M74HC123B1	SGSI	CLOCK/MV	190- 31
199▼	74HC123	*M74HC123C1	SGSI	CLOCK/MV	190- 32
200▼	74HC123	M74HC123F1	SGSI	CLOCK/MV	190- 33
201♦	74HC123	MM74HC123J	NSC	CLOCK/MV	190- 92
202♦	74HC123	MM74HC123N	NSC	CLOCK/MV	190- 93
203♦	74HC123	PC74HC123D(A)	MULB	CLOCK/MV	191- 12
204♦	74HC123	PC74HC123D(A)	PHIN	CLOCK/MV	191- 12
205♦	74HC123	PC74HC123D(A)	RTCF	CLOCK/MV	191- 12
206♦	74HC123	PC74HC123D(A)	VALG	CLOCK/MV	191- 12
207♦	74HC123	PC74HC123P	MULB	CLOCK/MV	191- 13
208♦	74HC123	PC74HC123P	PHIN	CLOCK/MV	191- 13
209♦	74HC123	PC74HC123P	RTCF	CLOCK/MV	191- 13
210♦	74HC123	PC74HC123P	VALG	CLOCK/MV	191- 13
211	74HC123	*PC74HC123T	MULB	CLOCK/MV	191- 14
212	74HC123	*PC74HC123T	PHIN	CLOCK/MV	191- 14
213	74HC123	*PC74HC123T	RTCF	CLOCK/MV	191- 14
214	74HC123	*PC74HC123T	VALG	CLOCK/MV	191- 14
215▼	74HC123	*TC74HC123F(A)	TOSA	CLOCK/MV	191- 68
216▼	74HC123	TC74HC123P(A)	TOSA	CLOCK/MV	191- 69
217♦	74HC123	UPD74HC123AC(A)	NECJ	CLOCK/MV	191- 77
218▼	74HC133	*HD74HC133FP	HITJ	NAND GATE	111- 65
219▼	74HC133	HD74HC133P	HITJ	NAND GATE	111- 66
220♦	74HC133	M74HC133B1(A)	SGSI	NAND GATE	111- 82

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2♦	74HC133	M74HC133F1(A)	SGSI	NAND GATE	111- 84
3♦	74HC133	MC74HC133J	MOTA	NAND GATE	111- 48
4♦	74HC133	MC74HC133N	MOTA	NAND GATE	111- 49
5♦	74HC133	MM74HC133J	NSC	NAND GATE	111- 68
6♦	74HC133	MM74HC133N(A)	NSC	NAND GATE	111- 69
7▼	74HC133	*SN74HC133D	TII	NAND GATE	111- 88
8♦	74HC133	SN74HC133N	TII	NAND GATE	111- 89
9▼	74HC133	*TC74HC133F(A)	TOSA	NAND GATE	111- 92
10▼	74HC133	TC74HC133P(A)	TOSA	NAND GATE	111- 93
11♦	74HC133	UPD74HC133C(A)	NECJ	NAND GATE	111- 74
12♦	74HC138	M74HC138P	MITJ	DECODER	125- 17
13♦	74HC160	*74HC160D	SIC	DEC CNTR	174- 77
14♦	74HC160	74HC160N	SIC	DEC CNTR	174- 78
15♦	74HC160	CD74HC160E	RCA	DEC CNTR	173-103
16♦	74HC160	*CD74HC160M	RCA	DEC CNTR	173-104
17▼	74HC160	*HD74HC160FP	HITJ	DEC CNTR	174- 1
18▼	74HC160	HD74HC160P	HITJ	DEC CNTR	174- 2
19♦	74HC160	M74HC160B1(A)	SGSI	DEC CNTR	174- 5
20♦	74HC160	*M74HC160C1(A)	SGSI	DEC CNTR	174- 6
21♦	74HC160	M74HC160F1(A)	SGSI	DEC CNTR	174- 7
22♦	74HC160	MC74HC160J(A)	MOTA	DEC CNTR	174- 89
23♦	74HC160	MC74HC160N(A)	MOTA	DEC CNTR	174- 90
24♦	74HC160	MM74HC160J	NSC	DEC CNTR	174- 46
25♦	74HC160	MM74HC160N	NSC	DEC CNTR	174- 47
26♦	74HC160	PC74HC160D(A)	MULB	DEC CNTR	175- 64
27♦	74HC160	PC74HC160D(A)	PHIN	DEC CNTR	175- 64
28♦	74HC160	PC74HC160D(A)	RTCF	DEC CNTR	175- 64
29♦	74HC160	PC74HC160D(A)	VALG	DEC CNTR	175- 64
30♦	74HC160	PC74HC160P	MULB	DEC CNTR	174- 13
31♦	74HC160	PC74HC160P	PHIN	DEC CNTR	174- 13
32♦	74HC160	PC74HC160P	RTCF	DEC CNTR	174- 13
33♦	74HC160	PC74HC160P	VALG	DEC CNTR	174- 13
34♦	74HC160	*PC74HC160T	MULB	DEC CNTR	174- 14
35♦	74HC160	*PC74HC160T	PHIN	DEC CNTR	174- 14
36♦	74HC160	*PC74HC160T	RTCF	DEC CNTR	174- 14
37♦	74HC160	*PC74HC160T	VALG	DEC CNTR	174- 14
38▼	74HC160	*SN74HC160D	TII	DEC CNTR	174- 71
39♦	74HC160	SN74HC160N	TII	DEC CNTR	174- 72
40▼	74HC160	*TC74HC160F(A)	TOSA	DEC CNTR	176- 11
41▼	74HC160	TC74HC160P(A)	TOSA	DEC CNTR	176- 12
42♦	74HC160	UPD74HC160C(A)	NECJ	DEC CNTR	175- 78
43♦	74HC161	*74HC161D	SIC	HEX CNTR	156- 38
44♦	74HC161	74HC161N	SIC	HEX CNTR	156- 39
45♦	74HC161	CD74HC161E	RCA	HEX CNTR	155- 98
46♦	74HC161	*CD74HC161M	RCA	HEX CNTR	155- 99
47▼	74HC161	*HD74HC161FP	HITJ	HEX CNTR	155-106
48▼	74HC161	HD74HC161P	HITJ	HEX CNTR	155-107
49♦	74HC161	M74HC161B1(A)	SGSI	HEX CNTR	156- 20
50♦	74HC161	*M74HC161C1(A)	SGSI	HEX CNTR	156- 21
51♦	74HC161	M74HC161F1(A)	SGSI	HEX CNTR	156- 22
52♦	74HC161	MC74HC161J(A)	MOTA	HEX CNTR	157- 12
53♦	74HC161	MC74HC161N(A)	MOTA	HEX CNTR	157- 13
54♦	74HC161	MM74HC161J	NSC	HEX CNTR	156- 81
55♦	74HC161	MM74HC161N	NSC	HEX CNTR	156- 82
56♦	74HC161	PC74HC161D(A)	MULB	HEX CNTR	157- 96
57♦	74HC161	PC74HC161D(A)	PHIN	HEX CNTR	157- 96
58♦	74HC161	PC74HC161D(A)	RTCF	HEX CNTR	157- 96
59♦	74HC161	PC74HC161D(A)	VALG	HEX CNTR	157- 96
60♦	74HC161	PC74HC161P	MULB	HEX CNTR	157- 97
61♦	74HC161	PC74HC161P	PHIN	HEX CNTR	157- 97
62♦	74HC161	PC74HC161P	RTCF	HEX CNTR	157- 97
63♦	74HC161	PC74HC161P	VALG	HEX CNTR	157- 97
64♦	74HC161	*PC74HC161T	MULB	HEX CNTR	157- 98
65♦	74HC161	*PC74HC161T	PHIN	HEX CNTR	157- 98
66♦	74HC161	*PC74HC161T	RTCF	HEX CNTR	157- 98
67♦	74HC161	*PC74HC161T	VALG	HEX CNTR	157- 98
68▼	74HC161	*SN74HC161D	TII	HEX CNTR	156-108
69♦	74HC161	SN74HC161N	TII	HEX CNTR	156-109
70▼	74HC161	*TC74HC161F(A)	TOSA	HEX CNTR	158- 50
71▼	74HC161	TC74HC161P(A)	TOSA	HEX CNTR	158- 51
72♦	74HC161	UPD74HC161C(A)	NECJ	HEX CNTR	157-110
73♦	74HC162	*74HC162D	SIC	DEC CNTR	174- 75
74♦	74HC162	74HC162N	SIC	DEC CNTR	174- 76
75♦	74HC162	CD74HC162E	RCA	DEC CNTR	173-105
76♦	74HC162	*CD74HC162M	RCA	DEC CNTR	173-106
77▼	74HC162	*HD74HC162FP	HITJ	DEC CNTR	174- 3
78▼	74HC162	HD74HC162P	HITJ	DEC CNTR	174- 4
79♦	74HC162	M74HC162B1(A)	SGSI	DEC CNTR	174- 8
80♦	74HC162	*M74HC162C1(A)	SGSI	DEC CNTR	174- 9
81♦	74HC162	M74HC162F1(A)	SGSI	DEC CNTR	174- 10
82♦	74HC162	MC74HC162J(A)	MOTA	DEC CNTR	174- 91
83♦	74HC162	MC74HC162N(A)	MOTA	DEC CNTR	174- 92
84♦	74HC162	MM74HC162J	NSC	DEC CNTR	174- 48
85♦	74HC162	MM74HC162N	NSC	DEC CNTR	174- 49
86♦	74HC162	PC74HC162D(A)	MULB	DEC CNTR	175- 65
87♦	74HC162	PC74HC162D(A)	PHIN	DEC CNTR	175- 65
88♦	74HC162	PC74HC162D(A)	VALG	DEC CNTR	175- 65
89♦	74HC162	PC74HC162P	MULB	DEC CNTR	175- 66
90♦	74HC162	PC74HC162P	PHIN	DEC CNTR	175- 66
91♦	74HC162	PC74HC162P	VALG	DEC CNTR	175- 66
92♦	74HC162	*PC74HC162T	MULB	DEC CNTR	175- 67
93♦	74HC162	*PC74HC162T	PHIN	DEC CNTR	175- 67
94♦	74HC162	*PC74HC162T	VALG	DEC CNTR	175- 67
95▼	74HC162	*SN74HC162D	TII	DEC CNTR	174- 73
96♦	74HC162	SN74HC162N	TII	DEC CNTR	174- 74
97▼	74HC162	*TC74HC162F(A)	TOSA	DEC CNTR	176- 13
98▼	74HC162	TC74HC162P(A)	TOSA	DEC CNTR	176- 14
99♦	74HC162	UPD74HC162C(A)	NECJ	DEC CNTR	175- 79
100♦	74HC163	*74HC163D	SIC	HEX CNTR	157- 2
101♦	74HC163	74HC163N	SIC	HEX CNTR	157- 3
102♦	74HC163	CD74HC163E	RCA	HEX CNTR	155-100
103♦	74HC163	*CD74HC163M	RCA	HEX CNTR	155-101
104▼	74HC163	*HD74HC163FP	HITJ	HEX CNTR	155-108
105▼	74HC163	HD74HC163P	HITJ	HEX CNTR	155-109
106♦	74HC163	M74HC163B1(A)	SGSI	HEX CNTR	156- 23
107♦	74HC163	*M74HC163C1(A)	SGSI	HEX CNTR	156- 24
108♦	74HC163	M74HC163F1(A)	SGSI	HEX CNTR	156- 25
109♦	74HC163	MC74HC163J(A)	MOTA	HEX CNTR	157- 14
110♦	74HC163	MC74HC163N(A)	MOTA	HEX CNTR	157- 15
111♦	74HC163	MM74HC163J	NSC	HEX CNTR	156- 83
112♦	74HC163	MM74HC163N	NSC	HEX CNTR	156- 84
113♦	74HC163	PC74HC163D(A)	MULB	HEX CNTR	157- 99
114♦	74HC163	PC74HC163D(A)	PHIN	HEX CNTR	157- 99
115♦	74HC163	PC74HC163D(A)	RTCF	HEX CNTR	157- 99
116♦	74HC163	PC74HC163D(A)	VALG	HEX CNTR	157- 99
117♦	74HC163	PC74HC163P	MULB	HEX CNTR	155- 88
118♦	74HC163	PC74HC163P	PHIN	HEX CNTR	155- 88
119♦	74HC163	PC74HC163P	RTCF	HEX CNTR	155- 88
120♦	74HC163	PC74HC163P	VALG	HEX CNTR	155- 88
121♦	74HC163	*PC74HC163T	MULB	HEX CNTR	155- 89
122♦	74HC163	*PC74HC163T	PHIN	HEX CNTR	155- 89
123♦	74HC163	*PC74HC163T	RTCF	HEX CNTR	155- 89
124♦	74HC163	*PC74HC163T	VALG	HEX CNTR	155- 89
125▼	74HC163	*SN74HC163D	TII	HEX CNTR	156-110
126♦	74HC163	SN74HC163N	TII	HEX CNTR	157- 1
127▼	74HC163	*TC74HC163F(A)	TOSA	HEX CNTR	158- 52
128▼	74HC163	TC74HC163P(A)	TOSA	HEX CNTR	158- 53
129♦	74HC163	UPD74HC163C(A)	NECJ	HEX CNTR	158- 1
130	74HC173	*74HC173D	SIC	D FL-FLOP	54- 77
131♦	74HC173	74HC173N	SIC	D FL-FLOP	54- 78
132♦	74HC173	CD74HC173E	RCA	D FL-FLOP	55- 59
133♦	74HC173	CD74HC173M	RCA	D FL-FLOP	55- 60
134▼	74HC173	*HD74HC173FP	HITJ	D FL-FLOP	54- 46
135▼	74HC173	HD74HC173P	HITJ	D FL-FLOP	54- 47
136♦	74HC173	MC74HC173J	MOTA	D FL-FLOP	55- 1
137♦	74HC173	MC74HC173N	MOTA	D FL-FLOP	55- 2
138♦	74HC173	MM74HC173J	NSC	D FL-FLOP	54- 66
139♦	74HC173	MM74HC173N	NSC	D FL-FLOP	54- 67
140♦	74HC173	PC74HC173D(A)	MULB	D FL-FLOP	55- 54
141♦	74HC173	PC74HC173D(A)	PHIN	D FL-FLOP	55- 54
142♦	74HC173	PC74HC173D(A)	RTCF	D FL-FLOP	55- 54
143♦	74HC173	PC74HC173D(A)	VALG	D FL-FLOP	55- 54
144♦	74HC173	PC74HC173P	MULB	D FL-FLOP	54- 31
145♦	74HC173	PC74HC173P	PHIN	D FL-FLOP	54- 31
146♦	74HC173	PC74HC173P	RTCF	D FL-FLOP	54- 31
147♦	74HC173	PC74HC173P	VALG	D FL-FLOP	54- 31
148	74HC173	*PC74HC173T	MULB	D FL-FLOP	54- 32
149	74HC173	*PC74HC173T	PHIN	D FL-FLOP	54- 32
150	74HC173	*PC74HC173T	RTCF	D FL-FLOP	54- 32
151	74HC173	*PC74HC173T	VALG	D FL-FLOP	54- 32
152▼	74HC173	*SN74HC173D	TII	D FL-FLOP	54- 73
153▼	74HC173	SN74HC173N	TII	D FL-FLOP	54- 74
154▼	74HC173	*TC74HC173F(A)	TOSA	D FL-FLOP	55- 55
155▼	74HC173	TC74HC173P(A)	TOSA	D FL-FLOP	55- 56
156	74HC174	*74HC174D	SIC	D FL-FLOP	56- 51
157♦	74HC174	74HC174N	SIC	D FL-FLOP	56- 52
158♦	74HC174	CD74HC174E	RCA	D FL-FLOP	56- 53
159♦	74HC174	CD74HC174M	RCA	D FL-FLOP	56- 54
160▼	74HC174	*HD74HC174FP	HITJ	D FL-FLOP	56- 40
161▼	74HC174	HD74HC174P	HITJ	D FL-FLOP	56- 41
162♦	74HC174	M74HC174B1(A)	SGSI	D FL-FLOP	56- 23
163	74HC174	*M74HC174C1(A)	SGSI	D FL-FLOP	56- 24
164♦	74HC174	M74HC174F1(A)	SGSI	D FL-FLOP	56- 25
165♦	74HC174	M74HC174P	MITJ	D FL-FLOP	56- 83
166♦	74HC174	MC74HC174J(A)	MOTA	D FL-FLOP	56- 73
167♦	74HC174	MC74HC174N(A)	MOTA	D FL-FLOP	56- 74
168♦	74HC174	MM74HC174J	NSC	D FL-FLOP	56- 42
169♦	74HC174	MM74HC174N	NSC	D FL-FLOP	56- 43
170♦	74HC174	PC74HC174D(A)	MULB	D FL-FLOP	57- 11
171♦	74HC174	PC74HC174D(A)	PHIN	D FL-FLOP	57- 11
172♦	74HC174	PC74HC174D(A)	RTCF	D FL-FLOP	57- 11
173♦	74HC174	PC74HC174D(A)	VALG	D FL-FLOP	57- 11
174♦	74HC174	PC74HC174P	MULB	D FL-FLOP	56- 27
175♦	74HC174	PC74HC174P	PHIN	D FL-FLOP	56- 27
176♦	74HC174	PC74HC174P	RTCF	D FL-FLOP	56- 27
177♦	74HC174	PC74HC174P	VALG	D FL-FLOP	56- 27
178	74HC174	*PC74HC174T	MULB	D FL-FLOP	56- 28
179	74HC174	*PC74HC174T	PHIN	D FL-FLOP	56- 28
180	74HC174	*PC74HC174T	RTCF	D FL-FLOP	56- 28
181	74HC174	*PC74HC174T	VALG	D FL-FLOP	56- 28
182▼	74HC174	*SN74HC174D	TII	D FL-FLOP	56- 49
183♦	74HC174	SN74HC174N	TII	D FL-FLOP	56- 50
184▼	74HC174	*TC74HC174F(A)	TOSA	D FL-FLOP	56-109
185♦	74HC174	TC74HC174P	TOSA	D FL-FLOP	57- 4
186♦	74HC174	TC74HC174P	TOSJ	D FL-FLOP	57- 4
187♦	74HC174	UPD74HC174C(A)	NECJ	D FL-FLOP	57- 12
188	74HC175	*74HC175D	SIC	D FL-FLOP	54- 79
189♦	74HC175	74HC175N	SIC	D FL-FLOP	54- 80
190♦	74HC175	CD74HC175E	RCA	D FL-FLOP	54- 83
191♦	74HC175	CD74HC175M	RCA	D FL-FLOP	54- 84
192▼	74HC175	*HD74HC175FP	HITJ	D FL-FLOP	54- 52
193▼	74HC175	HD74HC175P	HITJ	D FL-FLOP	54- 53
194♦	74HC175	M74HC175B1(A)	SGSI	D FL-FLOP	54- 38
195	74HC175	*M74HC175C1(A)	SGSI	D FL-FLOP	54- 39
196♦	74HC175	M74HC175F1(A)	SGSI	D FL-FLOP	54- 40
197♦	74HC175	MC74HC175J	MOTA	D FL-FLOP	54- 64
198♦	74HC175	MC74HC175N(A)	MOTA	D FL-FLOP	54- 65
199♦	74HC175	MM74HC175J	NSC	D FL-FLOP	54- 81
200♦	74HC175	MM74HC175N	NSC	D FL-FLOP	54- 82
201♦	74HC175	PC74HC175D(A)	MULB	D FL-FLOP	54- 55
202♦	74HC175	PC74HC175D(A)	PHIN	D FL-FLOP	54- 55
203♦	74HC175	PC74HC175D(A)	RTCF	D FL-FLOP	54- 55
204♦	74HC175	PC74HC175D(A)	VALG	D FL-FLOP	54- 55
205♦	74HC175	PC74HC175P	MULB	D FL-FLOP	54- 56
206♦	74HC175	PC74HC175P	PHIN	D FL-FLOP	54- 56
207♦	74HC175	PC74HC175P	RTCF	D FL-FLOP	54- 56
208♦	74HC175	PC74HC175P	VALG	D FL-FLOP	54- 56
209	74HC175	*PC74HC175T	MULB	D FL-FLOP	54- 57
210	74HC175	*PC74HC175T	PHIN	D FL-FLOP	54- 57
211	74HC175	*PC74HC175T	RTCF	D FL-FLOP	54- 57
212	74HC175	*PC74HC175T	VALG	D FL-FLOP	54- 57
213▼	74HC175	*SN74HC175D	TII	D FL-FLOP	54- 75
214♦	74HC175	SN74HC175N	TII	D FL-FLOP	54- 76
215▼	74HC175	*TC74HC175F(A)	TOSA	D FL-FLOP	55- 51
216♦	74HC175	TC74HC175P	TOSA	D FL-FLOP	55- 52
217♦	74HC175	TC74HC175P	TOSJ	D FL-FLOP	55- 52
218♦	74HC175	UPD74HC175C(A)	NECJ	D FL-FLOP	55- 63
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10♦	74HC181	MC74HC181J(A)	MOTA	4-BIT ALU	220- 25
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13♦	74HC181	MM74HC181N(A)	NSC	4-BIT ALU	222- 70
14♦	74HC181	PC74HC181D(A)	MULB	4-BIT ALU	222- 9
15♦	74HC181	PC74HC181D(A)	PHIN	4-BIT ALU	222- 9
16♦	74HC181	PC74HC181D(A)	RTCF	4-BIT ALU	222- 9
17♦	74HC181	PC74HC181D(A)	VALG	4-BIT ALU	222- 9
18♦	74HC181	PC74HC181P	MULB	4-BIT ALU	221- 97
19♦	74HC181	PC74HC181P	PHIN	4-BIT ALU	221- 97
20♦	74HC181	PC74HC181P	RTCF	4-BIT ALU	221- 97
21♦	74HC181	PC74HC181P	VALG	4-BIT ALU	221- 97
22	74HC181	*PC74HC181T	MULB	4-BIT ALU	221- 98
23	74HC181	*PC74HC181T	PHIN	4-BIT ALU	221- 98
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28♦	74HC182	74HC182N	SIC	PARITY GEN	225- 48
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30	74HC182	*CD74HC182M(A)	RCA	PARITY GEN	225- 26
31▼	74HC182	*HD74HC182FP	HITJ	PARITY GEN	224-107
32▼	74HC182	HD74HC182P	HITJ	PARITY GEN	224-108
33▼	74HC182	M74HC182B1	SGSI	PARITY GEN	224- 7
34▼	74HC182	*M74HC182C1	SGSI	PARITY GEN	224- 8
35▼	74HC182	M74HC182F1(A)	SGSI	PARITY GEN	224- 9
36♦	74HC182	MC74HC182J(A)	MOTA	PARITY GEN	224- 11
37♦	74HC182	MC74HC182N(A)	MOTA	PARITY GEN	224- 12
38♦	74HC182	MM74HC182J(A)	NSC	PARITY GEN	225- 51
39♦	74HC182	MM74HC182N(A)	NSC	PARITY GEN	225- 52
40♦	74HC182	PC74HC182D(A)	MULB	PARITY GEN	225- 45
41♦	74HC182	PC74HC182D(A)	PHIN	PARITY GEN	225- 45
42♦	74HC182	PC74HC182D(A)	RTCF	PARITY GEN	225- 45
43♦	74HC182	PC74HC182D(A)	VALG	PARITY GEN	225- 45
44♦	74HC182	PC74HC182P	MULB	PARITY GEN	225- 53
45♦	74HC182	PC74HC182P	PHIN	PARITY GEN	225- 53
46♦	74HC182	PC74HC182P	RTCF	PARITY GEN	225- 53
47♦	74HC182	PC74HC182P	VALG	PARITY GEN	225- 53
48	74HC182	*PC74HC182T	MULB	PARITY GEN	225- 54
49	74HC182	*PC74HC182T	PHIN	PARITY GEN	225- 54
50	74HC182	*PC74HC182T	RTCF	PARITY GEN	225- 54
51	74HC182	*PC74HC182T	VALG	PARITY GEN	225- 54
52▼	74HC182	*TC74HC182F(A)	TOSA	PARITY GEN	225- 49
53▼	74HC182	TC74HC182P(A)	TOSA	PARITY GEN	225- 50
54♦	74HC190	*74HC190D	SIC	DEC CNTR	178- 21
55♦	74HC190	74HC190N	SIC	DEC CNTR	178- 22
56♦	74HC190	CD74HC190E	RCA	DEC CNTR	178- 29
57♦	74HC190	*CD74HC190M	RCA	DEC CNTR	178- 30
58▼	74HC190	*HD74HC190FP	HITJ	DEC CNTR	178- 60
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60▼	74HC190	M74HC190B1	SGSI	DEC CNTR	177- 26
61▼	74HC190	*M74HC190C1	SGSI	DEC CNTR	177- 27
62▼	74HC190	M74HC190F1	SGSI	DEC CNTR	177- 28
63♦	74HC190	MC74HC190J(A)	MOTA	DEC CNTR	177- 41
64♦	74HC190	MC74HC190N(A)	MOTA	DEC CNTR	177- 42
65♦	74HC190	MM74HC190J(A)	NSC	DEC CNTR	178- 47
66♦	74HC190	MM74HC190N(A)	NSC	DEC CNTR	178- 48
67♦	74HC190	PC74HC190D(A)	MULB	DEC CNTR	180- 11
68♦	74HC190	PC74HC190D(A)	PHIN	DEC CNTR	180- 11
69♦	74HC190	PC74HC190D(A)	RTCF	DEC CNTR	180- 11
70♦	74HC190	PC74HC190D(A)	VALG	DEC CNTR	180- 11
71♦	74HC190	PC74HC190P	MULB	DEC CNTR	177-103
72♦	74HC190	PC74HC190P	PHIN	DEC CNTR	177-103
73♦	74HC190	PC74HC190P	RTCF	DEC CNTR	177-103
74♦	74HC190	PC74HC190P	VALG	DEC CNTR	177-103
75♦	74HC190	*PC74HC190T	MULB	DEC CNTR	177-104
76♦	74HC190	*PC74HC190T	PHIN	DEC CNTR	177-104
77♦	74HC190	*PC74HC190T	RTCF	DEC CNTR	177-104
78♦	74HC190	*PC74HC190T	VALG	DEC CNTR	177-104
79♦	74HC190	SN74HC190N	TII	DEC CNTR	178- 43
80▼	74HC190	*TC74HC190F	TOSA	DEC CNTR	180- 30
81▼	74HC190	TC74HC190P(A)	TOSA	DEC CNTR	180- 31
82♦	74HC191	*74HC191D	SIC	HEX CNTR	161- 66
83♦	74HC191	74HC191N	SIC	HEX CNTR	161- 67
84♦	74HC191	CD74HC191E	RCA	HEX CNTR	161- 31
85♦	74HC191	*CD74HC191M	RCA	HEX CNTR	161- 32
86▼	74HC191	*HD74HC191FP	HITJ	HEX CNTR	161- 73
87▼	74HC191	HD74HC191P	HITJ	HEX CNTR	161-101
88▼	74HC191	M74HC191B1	SGSI	HEX CNTR	159- 71
89▼	74HC191	*M74HC191C1	SGSI	HEX CNTR	159- 72
90▼	74HC191	M74HC191F1	SGSI	HEX CNTR	159- 73
91♦	74HC191	MC74HC191J(A)	MOTA	HEX CNTR	159- 87
92♦	74HC191	MC74HC191N(A)	MOTA	HEX CNTR	159- 88
93♦	74HC191	MM74HC191J(A)	NSC	HEX CNTR	161- 64
94♦	74HC191	MM74HC191N(A)	NSC	HEX CNTR	161- 65
95♦	74HC191	PC74HC191D(A)	MULB	HEX CNTR	163- 32
96♦	74HC191	PC74HC191D(A)	PHIN	HEX CNTR	163- 32
97♦	74HC191	PC74HC191D(A)	RTCF	HEX CNTR	163- 32
98♦	74HC191	PC74HC191D(A)	VALG	HEX CNTR	163- 32
99♦	74HC191	PC74HC191P	MULB	HEX CNTR	161- 12
100♦	74HC191	PC74HC191P	PHIN	HEX CNTR	161- 12
101♦	74HC191	PC74HC191P	RTCF	HEX CNTR	161- 12
102♦	74HC191	PC74HC191P	VALG	HEX CNTR	161- 12
103♦	74HC191	*PC74HC191T	MULB	HEX CNTR	161- 13
104♦	74HC191	*PC74HC191T	PHIN	HEX CNTR	161- 13
105♦	74HC191	*PC74HC191T	RTCF	HEX CNTR	161- 13
106♦	74HC191	*PC74HC191T	VALG	HEX CNTR	161- 13
107♦	74HC191	SN74HC191N	TII	HEX CNTR	161- 60
108▼	74HC191	*TC74HC191F	TOSA	HEX CNTR	163- 54
109▼	74HC191	TC74HC191P(A)	TOSA	HEX CNTR	163- 55
110♦	74HC192	*74HC192D	SIC	DEC CNTR	178- 80
111♦	74HC192	74HC192N	SIC	DEC CNTR	178- 81
112♦	74HC192	CD74HC192E	RCA	DEC CNTR	178- 31
113♦	74HC192	*CD74HC192M	RCA	DEC CNTR	178- 32
114▼	74HC192	*HD74HC192FP	HITJ	DEC CNTR	178- 37
115▼	74HC192	HD74HC192P	HITJ	DEC CNTR	178- 38
116▼	74HC192	M74HC192B1	SGSI	DEC CNTR	177- 29
117▼	74HC192	*M74HC192C1	SGSI	DEC CNTR	177- 30
118▼	74HC192	M74HC192F1	SGSI	DEC CNTR	177- 31
119♦	74HC192	MC74HC192J(A)	MOTA	DEC CNTR	177- 43
120♦	74HC192	MC74HC192N(A)	MOTA	DEC CNTR	177- 44
121♦	74HC192	MM74HC192J	NSC	DEC CNTR	178- 39
122♦	74HC192	MM74HC192N	NSC	DEC CNTR	178- 40
123♦	74HC192	PC74HC192D(A)	MULB	DEC CNTR	180- 12
124♦	74HC192	PC74HC192D(A)	PHIN	DEC CNTR	180- 12
125♦	74HC192	PC74HC192D(A)	RTCF	DEC CNTR	180- 12
126♦	74HC192	PC74HC192D(A)	VALG	DEC CNTR	180- 12
127♦	74HC192	PC74HC192P	MULB	DEC CNTR	179- 72
128♦	74HC192	PC74HC192P	PHIN	DEC CNTR	179- 72
129♦	74HC192	PC74HC192P	RTCF	DEC CNTR	179- 72
130♦	74HC192	PC74HC192P	VALG	DEC CNTR	179- 72
131♦	74HC192	*PC74HC192T(A)	MULB	DEC CNTR	179- 73
132♦	74HC192	*PC74HC192T(A)	PHIN	DEC CNTR	179- 73
133♦	74HC192	*PC74HC192T(A)	RTCF	DEC CNTR	179- 73
134♦	74HC192	*PC74HC192T(A)	VALG	DEC CNTR	179- 73
135♦	74HC192	SN74HC192N	TII	DEC CNTR	178- 44
136▼	74HC192	*TC74HC192F(A)	TOSA	DEC CNTR	179- 99
137▼	74HC192	TC74HC192P(A)	TOSA	DEC CNTR	179-100
138♦	74HC192	UPD74HC192C(A)	NECJ	DEC CNTR	179- 50
139♦	74HC193	*74HC193D	SIC	HEX CNTR	161- 68
140♦	74HC193	74HC193N	SIC	HEX CNTR	161- 69
141♦	74HC193	CD74HC193E	RCA	HEX CNTR	161- 33
142♦	74HC193	*CD74HC193M	RCA	HEX CNTR	161- 34
143▼	74HC193	*HD74HC193FP	HITJ	HEX CNTR	161- 39
144▼	74HC193	HD74HC193P	HITJ	HEX CNTR	161- 40
145▼	74HC193	M74HC193B1	SGSI	HEX CNTR	159- 74
146▼	74HC193	*M74HC193C1	SGSI	HEX CNTR	159- 75
147▼	74HC193	M74HC193F1	SGSI	HEX CNTR	159- 76
148♦	74HC193	MC74HC193J(A)	MOTA	HEX CNTR	159- 89
149♦	74HC193	MC74HC193N(A)	MOTA	HEX CNTR	159- 90
150♦	74HC193	MM74HC193J	NSC	HEX CNTR	161- 56
151♦	74HC193	MM74HC193N	NSC	HEX CNTR	161- 57
152♦	74HC193	PC74HC193D(A)	MULB	HEX CNTR	163- 33
153♦	74HC193	PC74HC193D(A)	PHIN	HEX CNTR	163- 33
154♦	74HC193	PC74HC193D(A)	RTCF	HEX CNTR	163- 33
155♦	74HC193	PC74HC193D(A)	VALG	HEX CNTR	163- 33
156♦	74HC193	PC74HC193P	MULB	HEX CNTR	163- 34
157♦	74HC193	PC74HC193P	PHIN	HEX CNTR	163- 34
158♦	74HC193	PC74HC193P	RTCF	HEX CNTR	163- 34
159♦	74HC193	PC74HC193P	VALG	HEX CNTR	163- 34
160♦	74HC193	*PC74HC193T	MULB	HEX CNTR	163- 35
161♦	74HC193	*PC74HC193T	PHIN	HEX CNTR	163- 35
162♦	74HC193	*PC74HC193T	RTCF	HEX CNTR	163- 35
163♦	74HC193	*PC74HC193T	VALG	HEX CNTR	163- 35
164♦	74HC193	SN74HC193N	TII	HEX CNTR	161- 61
165▼	74HC193	*TC74HC193F(A)	TOSA	HEX CNTR	163- 2
166▼	74HC193	TC74HC193P(A)	TOSA	HEX CNTR	163- 3
167♦	74HC193	UPD74HC193C(A)	NECJ	HEX CNTR	162- 55
168	74HC221	*74HC221D	SIC	CLOCK/MV	189- 21
169♦	74HC221	74HC221N	SIC	CLOCK/MV	189- 22
170	74HC221	CD74HC221E	RCA	CLOCK/MV	189- 76
171	74HC221	*CD74HC221M	RCA	CLOCK/MV	189- 77
172▼	74HC221	*HD74HC221AFP(A)	HITJ	CLOCK/MV	190- 9
173▼	74HC221	HD74HC221AP(A)	HITJ	CLOCK/MV	190- 10
174▼	74HC221	M74HC221B1	SGSI	CLOCK/MV	190- 34
175▼	74HC221	*M74HC221C1	SGSI	CLOCK/MV	190- 35
176▼	74HC221	M74HC221F1	SGSI	CLOCK/MV	190- 36
177♦	74HC221	MC74HC221J(A)	MOTA	CLOCK/MV	188- 75
178♦	74HC221	MC74HC221N(A)	MOTA	CLOCK/MV	188- 76
179♦	74HC221	MM74HC221J	NSC	CLOCK/MV	190- 94
180♦	74HC221	MM74HC221N	NSC	CLOCK/MV	190- 95
181♦	74HC221	PC74HC221D(A)	MULB	CLOCK/MV	191- 15
182♦	74HC221	PC74HC221D(A)	PHIN	CLOCK/MV	191- 15
183♦	74HC221	PC74HC221D(A)	RTCF	CLOCK/MV	191- 15
184♦	74HC221	PC74HC221D(A)	VALG	CLOCK/MV	191- 15
185♦	74HC221	PC74HC221P	MULB	CLOCK/MV	191- 16
186♦	74HC221	PC74HC221P	PHIN	CLOCK/MV	191- 16
187♦	74HC221	PC74HC221P	RTCF	CLOCK/MV	191- 16
188♦	74HC221	PC74HC221P	VALG	CLOCK/MV	191- 16
189	74HC221	*PC74HC221T	MULB	CLOCK/MV	191- 17
190	74HC221	*PC74HC221T	PHIN	CLOCK/MV	191- 17
191	74HC221	*PC74HC221T	RTCF	CLOCK/MV	191- 17
192	74HC221	*PC74HC221T	VALG	CLOCK/MV	191- 17
193▼	74HC221	*TC74HC221F	TOSA	CLOCK/MV	191- 70
194▼	74HC221	TC74HC221P	TOSA	CLOCK/MV	191- 71
195♦	74HC259	*74HC259D	SIC	8-BIT LCH	239- 37
196♦	74HC259	74HC259N	SIC	8-BIT LCH	239- 38
197♦	74HC259	CD74HC259E	RCA	8-BIT LCH	239- 39
198♦	74HC259	CD74HC259M	RCA	8-BIT LCH	239- 40
199▼	74HC259	*HD74HC259FP	HITJ	8-BIT LCH	236- 64
200▼	74HC259	HD74HC259P	HITJ	8-BIT LCH	236- 65
201♦	74HC259	M74HC259B1(A)	SGSI	8-BIT LCH	238- 49
202♦	74HC259	*M74HC259C1(A)	SGSI	8-BIT LCH	238- 50
203♦	74HC259	M74HC259F1(A)	SGSI	8-BIT LCH	238- 51
204♦	74HC259	MC74HC259J(A)	MOTA	8-BIT LCH	233- 64
205♦	74HC259	MC74HC259N(A)	MOTA	8-BIT LCH	233- 65
206♦	74HC259	PC74HC259D(A)	MULB	8-BIT LCH	240- 40
207♦	74HC259	PC74HC259D(A)	RTCF	8-BIT LCH	240- 40
208♦	74HC259	PC74HC259D(A)	VALG	8-BIT LCH	240- 40
209♦	74HC259	PC74HC259P	MULB	8-BIT LCH	240- 56
210♦	74HC259	PC74HC259P	PHIN	8-BIT LCH	240- 56
211♦	74HC259	PC74HC259P	RTCF	8-BIT LCH	240- 56
212♦	74HC259	PC74HC259P	VALG	8-BIT LCH	240- 56
213♦	74HC259	*PC74HC259T(A)	MULB	8-BIT LCH	240- 41
214♦	74HC259	*PC74HC259T(A)	PHIN	8-BIT LCH	240- 41
215♦	74HC259	*PC74HC259T(A)	RTCF	8-BIT LCH	240- 41
216♦	74HC259	*PC74HC259T(A)	VALG	8-BIT LCH	240- 41
217▼	74HC259	*SN74HC259D	TII	8-BIT LCH	238- 59
218♦	74HC259	SN74HC259N	TII	8-BIT LCH	238- 60
219▼	74HC259	*TC74HC259F(A)	TOSA	8-BIT LCH	238- 62
220▼	74HC259	TC74HC259P(A)	TOSA	8-BIT LCH	238- 63

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

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3♦	74HC266	M74HC266B1(A)	SGSI	EXNOR GATE	90- 21
4♦	74HC266	*M74HC266C1(A)	SGSI	EXNOR GATE	90- 80
5♦	74HC266	M74HC266F1(A)	SGSI	EXNOR GATE	90- 22
6♦	74HC266	M74HC266P	MITJ	EXNOR GATE	90- 81
7♦	74HC266	MC74HC266J	MOTA	EXNOR GATE	90- 90
8♦	74HC266	MC74HC266N	MOTA	EXNOR GATE	90- 91
9♦	74HC266	MM74HC266J	NSC	EXNOR GATE	90- 41
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11▼	74HC266	*SN74HC266D	TII	EXNOR GATE	90- 95
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13♦	74HC266	UPD74HC266C(A)	NECJ	EXNOR GATE	90- 60
14	74HC273	*74HC273D	SIC	D FL-FLOP	60- 59
15♦	74HC273	74HC273N	SIC	D FL-FLOP	60- 60
16♦	74HC273	CD74HC273E	RCA	D FL-FLOP	60- 28
17	74HC273	*CD74HC273M	RCA	D FL-FLOP	60- 29
18▼	74HC273	*HD74HC273FP	HITJ	D FL-FLOP	59-107
19▼	74HC273	HD74HC273P	HITJ	D FL-FLOP	59-108
20♦	74HC273	M74HC273B1(A)	SGSI	D FL-FLOP	59- 49
21	74HC273	*M74HC273C1(A)	SGSI	D FL-FLOP	59- 50
22♦	74HC273	M74HC273F1(A)	SGSI	D FL-FLOP	59- 51
23♦	74HC273	M74HC273P	MITJ	D FL-FLOP	61- 24
24♦	74HC273	MC74HC273J(A)	MOTA	D FL-FLOP	60-105
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26♦	74HC273	MM74HC273J(A)	NSC	D FL-FLOP	60- 15
27♦	74HC273	MM74HC273N(A)	NSC	D FL-FLOP	60- 16
28♦	74HC273	PC74HC273P	MULB	D FL-FLOP	59- 76
29♦	74HC273	PC74HC273P	PHIN	D FL-FLOP	59- 76
30♦	74HC273	PC74HC273P	RTCF	D FL-FLOP	59- 76
31♦	74HC273	PC74HC273P	VALG	D FL-FLOP	59- 76
32	74HC273	*PC74HC273T	MULB	D FL-FLOP	59- 77
33	74HC273	*PC74HC273T	PHIN	D FL-FLOP	59- 77
34	74HC273	*PC74HC273T	RTCF	D FL-FLOP	59- 77
35	74HC273	*PC74HC273T	VALG	D FL-FLOP	59- 77
36▼	74HC273	*SN74HC273D	TII	D FL-FLOP	59- 97
37♦	74HC273	SN74HC273N	TII	D FL-FLOP	59- 98
38▼	74HC273	*TC74HC273F(A)	TOSA	D FL-FLOP	62- 18
39♦	74HC273	TC74HC273P(A)	TOSA	D FL-FLOP	60- 58
40♦	74HC273	TC74HC273P(A)	TOSJ	D FL-FLOP	60- 58
41♦	74HC273	UPD74HC273C(A)	NECJ	D FL-FLOP	62- 43
42♦	74HC279	M74HC279B1(A)	SGSI	4-BIT LCH	243- 71
43♦	74HC279	*M74HC279C1(A)	SGSI	4-BIT LCH	243- 72
44♦	74HC279	M74HC279F1(A)	SGSI	4-BIT LCH	243- 73
45▼	74HC279	*TC74HC279F(A)	TOSA	1-BIT LCH	243- 38
46▼	74HC279	TC74HC279P(A)	TOSA	1-BIT LCH	243- 39
47	74HC280	*74HC280D	SIC	PARITY GEN	226- 94
48♦	74HC280	74HC280N	SIC	PARITY GEN	226- 95
49	74HC280	CD74HC280E	RCA	PARITY GEN	226- 98
50	74HC280	*CD74HC280M(A)	RCA	PARITY GEN	226- 99
51▼	74HC280	*HD74HC280FP	HITJ	PARITY GEN	226- 78
52▼	74HC280	HD74HC280P	HITJ	PARITY GEN	226- 79
53♦	74HC280	M74HC280B1(A)	SGSI	PARITY GEN	227- 59
54	74HC280	*M74HC280C1(A)	SGSI	PARITY GEN	227- 60
55♦	74HC280	M74HC280F1(A)	SGSI	PARITY GEN	227- 61
56♦	74HC280	MC74HC280J(A)	MOTA	PARITY GEN	227- 3
57♦	74HC280	MC74HC280N(A)	MOTA	PARITY GEN	227- 4
58♦	74HC280	MM74HC280J	NSC	PARITY GEN	226- 96
59♦	74HC280	MM74HC280N	NSC	PARITY GEN	226- 97
60♦	74HC280	PC74HC280D(A)	MULB	PARITY GEN	226-100
61♦	74HC280	PC74HC280D(A)	PHIN	PARITY GEN	226-100
62♦	74HC280	PC74HC280D(A)	RTCF	PARITY GEN	226-100
63♦	74HC280	PC74HC280D(A)	VALG	PARITY GEN	226-100
64♦	74HC280	PC74HC280P	MULB	PARITY GEN	227- 27
65♦	74HC280	PC74HC280P	PHIN	PARITY GEN	227- 27
66♦	74HC280	PC74HC280P	RTCF	PARITY GEN	227- 27
67♦	74HC280	PC74HC280P	VALG	PARITY GEN	227- 27
68	74HC280	*PC74HC280T	MULB	PARITY GEN	227- 28
69	74HC280	*PC74HC280T	PHIN	PARITY GEN	227- 28
70	74HC280	*PC74HC280T	RTCF	PARITY GEN	227- 28
71	74HC280	*PC74HC280T	VALG	PARITY GEN	227- 28
72▼	74HC280	*SN74HC280D	TII	PARITY GEN	227- 6
73♦	74HC280	SN74HC280N	TII	PARITY GEN	227- 7
74▼	74HC280	*TC74HC280F(A)	TOSA	PARITY GEN	227- 23
75▼	74HC280	TC74HC280P(A)	TOSA	PARITY GEN	227- 24
76	74HC283	*74HC283D	SIC	ADDER	200- 80
77♦	74HC283	74HC283N	SIC	ADDER	200- 81
78	74HC283	CD74HC283E(A)	RCA	ADDER	200- 82
79	74HC283	CD74HC283M(A)	RCA	ADDER	200- 83
80▼	74HC283	*HD74HC283FP	HITJ	ADDER	199-101
81▼	74HC283	HD74HC283P	HITJ	ADDER	199-102
82♦	74HC283	M74HC283B1(A)	SGSI	ADDER	200- 97
83	74HC283	*M74HC283C1(A)	SGSI	ADDER	200- 98
84♦	74HC283	M74HC283F1(A)	SGSI	ADDER	200- 99
85♦	74HC283	MC74HC283J(A)	MOTA	ADDER	199- 47
86♦	74HC283	MC74HC283N(A)	MOTA	ADDER	199- 48
87♦	74HC283	MM74HC283J(A)	NSC	ADDER	200- 65
88♦	74HC283	MM74HC283N(A)	NSC	ADDER	200- 66
89♦	74HC283	PC74HC283D(A)	MULB	ADDER	199- 59
90♦	74HC283	PC74HC283D(A)	PHIN	ADDER	199- 59
91♦	74HC283	PC74HC283D(A)	RTCF	ADDER	199- 59
92♦	74HC283	PC74HC283D(A)	VALG	ADDER	199- 59
93♦	74HC283	PC74HC283P	MULB	ADDER	200-107
94♦	74HC283	PC74HC283P	PHIN	ADDER	200-107
95♦	74HC283	PC74HC283P	RTCF	ADDER	200-107
96♦	74HC283	PC74HC283P	VALG	ADDER	200-107
97	74HC283	*PC74HC283T	MULB	ADDER	200-108
98	74HC283	*PC74HC283T	PHIN	ADDER	200-108
99	74HC283	*PC74HC283T	RTCF	ADDER	200-108
100	74HC283	*PC74HC283T	VALG	ADDER	200-108
101▼	74HC283	SN74HC283N(A)	TII	ADDER	200- 69
102▼	74HC283	*TC74HC283F	TOSA	ADDER	200-104
103▼	74HC283	TC74HC283P	SIC	ADDER	200-105
104▼	74HC283	TC74HC283P	TOSA	ADDER	200-105
105▼	74HC292	*HD74HC292FP	HITJ	FREQ DIVID	196- 48
106▼	74HC292	HD74HC292P	HITJ	FREQ DIVID	196- 49
107▼	74HC292	M74HC292B1	SGSI	FREQ DIVID	195- 74
108▼	74HC292	*M74HC292C1(A)	SGSI	FREQ DIVID	195- 75
109▼	74HC292	M74HC292F1	SGSI	FREQ DIVID	195- 76
110♦	74HC292	MC74HC292J(A)	MOTA	FREQ DIVID	195-101
111♦	74HC292	MC74HC292N(A)	MOTA	FREQ DIVID	195-102
112♦	74HC292	MM74HC292J(A)	NSC	FREQ DIVID	196- 52
113♦	74HC292	MM74HC292N(A)	NSC	FREQ DIVID	196- 53
114▼	74HC294	*HD74HC294FP	HITJ	FREQ DIVID	196- 46
115▼	74HC294	HD74HC294P	HITJ	FREQ DIVID	196- 47
116▼	74HC294	M74HC294B1	SGSI	FREQ DIVID	195- 77
117▼	74HC294	*M74HC294C1	SGSI	FREQ DIVID	195- 78
118▼	74HC294	M74HC294F1	SGSI	FREQ DIVID	195- 79
119♦	74HC294	MC74HC294J(A)	MOTA	FREQ DIVID	195- 98
120♦	74HC294	MC74HC294N(A)	MOTA	FREQ DIVID	195- 99
121♦	74HC373	*74HC373D	SIC	8-BIT LCH	239- 11
122♦	74HC373	74HC373N	SIC	8-BIT LCH	239- 12
123♦	74HC373	CD74HC373E	RCA	8-BIT LCH	238- 23
124♦	74HC373	*CD74HC373M(A)	RCA	8-BIT LCH	239- 79
125▼	74HC373	*HD74HC373FP	HITJ	8-BIT LCH	236- 66
126▼	74HC373	HD74HC373P	HITJ	8-BIT LCH	236- 67
127♦	74HC373	LC74HC373	TSAJ	8-BIT LCH	238- 27
128♦	74HC373	M74HC373B1(A)	SGSI	8-BIT LCH	238- 98
129♦	74HC373	*M74HC373C1(A)	SGSI	8-BIT LCH	238- 99
130♦	74HC373	M74HC373F1(A)	SGSI	8-BIT LCH	238-100
131♦	74HC373	MC74HC373J(A)	MOTA	8-BIT LCH	237- 76
132♦	74HC373	MC74HC373N(A)	MOTA	8-BIT LCH	237- 77
133♦	74HC373	MM74HC373J	NSC	8-BIT LCH	240- 20
134♦	74HC373	MM74HC373N	NSC	8-BIT LCH	240- 21
135♦	74HC373	PC74HC373P	MULB	8-BIT LCH	239- 95
136♦	74HC373	PC74HC373P	PHIN	8-BIT LCH	239- 95
137♦	74HC373	PC74HC373P	RTCF	8-BIT LCH	239- 95
138♦	74HC373	PC74HC373P	VALG	8-BIT LCH	239- 95
139♦	74HC373	*PC74HC373T	MULB	8-BIT LCH	239- 96
140♦	74HC373	*PC74HC373T	PHIN	8-BIT LCH	239- 96
141♦	74HC373	*PC74HC373T	RTCF	8-BIT LCH	239- 96
142♦	74HC373	*PC74HC373T	VALG	8-BIT LCH	239- 96
143♦	74HC373	SN74HC373N	TII	8-BIT LCH	240- 31
144▼	74HC373	*TC74HC373F(A)	TOSA	8-BIT LCH	239- 7
145▼	74HC373	TC74HC373P(A)	TOSA	8-BIT LCH	239- 8
146♦	74HC373	UPD74HC373C(A)	NECJ	8-BIT LCH	235- 99
147	74HC374	*74HC374D	SIC	D FL-FLOP	60- 61
148♦	74HC374	74HC374N	SIC	D FL-FLOP	60- 62
149♦	74HC374	CD74HC374E	RCA	D FL-FLOP	60- 30
150	74HC374	*CD74HC374M	RCA	D FL-FLOP	60- 31
151▼	74HC374	*HD74HC374FP	HITJ	D FL-FLOP	59-109
152▼	74HC374	HD74HC374P	HITJ	D FL-FLOP	59-110
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154	74HC374	*M74HC374C1(A)	SGSI	D FL-FLOP	59- 53
155♦	74HC374	M74HC374F1(A)	SGSI	D FL-FLOP	59- 54
156♦	74HC374	M74HC374P	MITJ	D FL-FLOP	61- 25
157♦	74HC374	MC74HC374J(A)	MOTA	D FL-FLOP	60-107
158♦	74HC374	MC74HC374N(A)	MOTA	D FL-FLOP	60-108
159♦	74HC374	MM74HC374J	NSC	D FL-FLOP	60- 69
160♦	74HC374	MM74HC374N	NSC	D FL-FLOP	49- 74
161♦	74HC374	*N74HC374D	SIC	D FL-FLOP	62- 45
162♦	74HC374	N74HC374N	SIC	D FL-FLOP	62- 46
163♦	74HC374	SN74HC374N	TII	D FL-FLOP	60- 19
164▼	74HC374	*TC74HC374F(A)	TOSA	D FL-FLOP	62- 8
165▼	74HC374	TC74HC374P(A)	TOSA	D FL-FLOP	62- 9
166♦	74HC374	UPD74HC374C(A)	NECJ	D FL-FLOP	62- 76
167▼	74HC375	*HD74HC375FP	HITJ	4-BIT LCH	230- 64
168▼	74HC375	HD74HC375P	HITJ	4-BIT LCH	230- 65
169♦	74HC375	M74HC375B1(A)	SGSI	4-BIT LCH	231- 15
170	74HC375	*M74HC375C1(A)	SGSI	4-BIT LCH	231- 16
171♦	74HC375	M74HC375F1(A)	SGSI	4-BIT LCH	231- 17
172▼	74HC375	*SN74HC375D(A)	TII	4-BIT LCH	231- 85
173▼	74HC375	SN74HC375N(A)	TII	4-BIT LCH	231- 86
174▼	74HC375	*TC74HC375F(A)	TOSA	4-BIT LCH	231- 70
175▼	74HC375	TC74HC375P(A)	TOSA	4-BIT LCH	231- 71
176♦	74HC375	UPD74HC375C(A)	NECJ	4-BIT LCH	230- 84
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178♦	74HC377	74HC377N	SIC	D FL-FLOP	60- 64
179♦	74HC377	CD74HC377E	RCA	D FL-FLOP	60- 32
180	74HC377	*CD74HC377M	RCA	D FL-FLOP	60- 33
181▼	74HC377	*HD74HC377FP	HITJ	D FL-FLOP	60- 1
182▼	74HC377	HD74HC377P	HITJ	D FL-FLOP	60- 2
183♦	74HC377	M74HC377B1(A)	SGSI	D FL-FLOP	60- 47
184	74HC377	*M74HC377C1(A)	SGSI	D FL-FLOP	60- 48
185♦	74HC377	M74HC377F1(A)	SGSI	D FL-FLOP	60- 49
186	74HC377	*N74HC377D	SIC	D FL-FLOP	62- 47
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188♦	74HC377	PC74HC377P	MULB	D FL-FLOP	59- 78
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191♦	74HC377	PC74HC377P	VALG	D FL-FLOP	59- 78
192	74HC377	*PC74HC377T	MULB	D FL-FLOP	59- 79
193	74HC377	*PC74HC377T	PHIN	D FL-FLOP	59- 79
194	74HC377	*PC74HC377T	RTCF	D FL-FLOP	59- 79
195▼	74HC377	*SN74HC377DW	TII	D FL-FLOP	59- 89
196♦	74HC377	SN74HC377N	TII	D FL-FLOP	59- 90
197▼	74HC377	*TC74HC377F	TOSA	D FL-FLOP	62- 41
198▼	74HC377	TC74HC377P	TOSA	D FL-FLOP	62- 42
199▼	74HC378	*SN74HC378D	TII	D FL-FLOP	56- 31
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207♦	74HC386	*M74HC386C1(A)	SGSI	EX-OR GATE	94- 11
208♦	74HC386	M74HC386F1(A)	SGSI	EX-OR GATE	94- 12
209▼	74HC386	*SN74HC386D	TII	EX-OR GATE	93- 68
210♦	74HC386	SN74HC386N	TII	EX-OR GATE	93- 69
211▼	74HC386	*TC74HC386F(A)	TOSA	EX-OR GATE	94- 7
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39♦	74HC393	PC74HC393P	PHIN	HEX CNTR	164- 95
40♦	74HC393	PC74HC393P	RTCF	HEX CNTR	164- 95
41♦	74HC393	PC74HC393P	VALG	HEX CNTR	164- 95
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43♦	74HC393	*PC74HC393T	PHIN	HEX CNTR	164- 96
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101▼	74HC533	*TC74HC533F(A)	TOSA	8-BIT LCH	239- 9
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105♦	74HC534	74HC534N	SIC	D FL-FLOP	60- 66
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110♦	74HC534	M74HC534B1(A)	SGSI	D FL-FLOP	59- 55
111	74HC534	*M74HC534C1(A)	SGSI	D FL-FLOP	59- 56
112♦	74HC534	M74HC534F1(A)	SGSI	D FL-FLOP	59- 57
113♦	74HC534	M74HC534P	MITJ	D FL-FLOP	61- 26
114♦	74HC534	MC74HC534J(A)	MOTA	D FL-FLOP	60-109
115♦	74HC534	MC74HC534N(A)	MOTA	D FL-FLOP	60-110
116♦	74HC534	MM74HC534J	NSC	D FL-FLOP	60- 70
117♦	74HC534	MM74HC534N	NSC	D FL-FLOP	60- 71
118♦	74HC534	PC74HC534P	MULB	D FL-FLOP	59- 80
119♦	74HC534	PC74HC534P	PHIN	D FL-FLOP	59- 80
120♦	74HC534	PC74HC534P	RTCF	D FL-FLOP	59- 80
121♦	74HC534	PC74HC534P	VALG	D FL-FLOP	59- 80
122♦	74HC534	*PC74HC534T	MULB	D FL-FLOP	59- 81
123♦	74HC534	*PC74HC534T	PHIN	D FL-FLOP	59- 81
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126♦	74HC534	SN74HC534N(A)	TII	D FL-FLOP	60- 51
127▼	74HC534	*TC74HC534F(A)	TOSA	D FL-FLOP	62- 10
128▼	74HC534	TC74HC534P(A)	TOSA	D FL-FLOP	62- 11
129♦	74HC534	UPD74HC534C(A)	NECJ	D FL-FLOP	62- 77
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134♦	74HC563	*CD74HC563M	RCA	8-BIT LCH	239- 61
135▼	74HC563	*HD74HC563FP	HITJ	8-BIT LCH	235- 37
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137♦	74HC563	M74HC563B1(A)	SGSI	8-BIT LCH	238-104
138♦	74HC563	*M74HC563C1(A)	SGSI	8-BIT LCH	238-105
139♦	74HC563	M74HC563F1(A)	SGSI	8-BIT LCH	238-106
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146♦	74HC563	PC74HC563P	RTCF	8-BIT LCH	239- 87
147♦	74HC563	PC74HC563P	VALG	8-BIT LCH	239- 87
148♦	74HC563	*PC74HC563T	MULB	8-BIT LCH	239- 88
149♦	74HC563	*PC74HC563T	PHIN	8-BIT LCH	239- 88
150♦	74HC563	*PC74HC563T	RTCF	8-BIT LCH	239- 88
151♦	74HC563	*PC74HC563T	VALG	8-BIT LCH	239- 88
152♦	74HC563	SN74HC563N	TII	8-BIT LCH	239- 89
153▼	74HC563	*TC74HC563F(A)	TOSA	8-BIT LCH	238- 64
154▼	74HC563	TC74HC563P(A)	TOSA	8-BIT LCH	238- 65
155♦	74HC563	UPD74HC563C(A)	NECJ	8-BIT LCH	235-100
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157♦	74HC564	74HC564N	SIC	D FL-FLOP	60- 68
158♦	74HC564	CD74HC564E	RCA	D FL-FLOP	60- 35
159	74HC564	*CD74HC564M	RCA	D FL-FLOP	60- 36
160▼	74HC564	*HD74HC564FP	HITJ	D FL-FLOP	60- 3
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162♦	74HC564	M74HC564B1(A)	SGSI	D FL-FLOP	59- 58
163	74HC564	*M74HC564C1(A)	SGSI	D FL-FLOP	59- 59
164♦	74HC564	M74HC564F1(A)	SGSI	D FL-FLOP	59- 60
165♦	74HC564	MC74HC564J(A)	MOTA	D FL-FLOP	59- 66
166♦	74HC564	MC74HC564N(A)	MOTA	D FL-FLOP	59- 67
167♦	74HC564	MM74HC564J	NSC	D FL-FLOP	60- 72
168♦	74HC564	MM74HC564N	NSC	D FL-FLOP	60- 73
169♦	74HC564	PC74HC564P	MULB	D FL-FLOP	59- 82
170♦	74HC564	PC74HC564P	PHIN	D FL-FLOP	59- 82
171♦	74HC564	PC74HC564P	RTCF	D FL-FLOP	59- 82
172♦	74HC564	PC74HC564P	VALG	D FL-FLOP	59- 82
173♦	74HC564	*PC74HC564T	MULB	D FL-FLOP	59- 83
174♦	74HC564	*PC74HC564T	PHIN	D FL-FLOP	59- 83
175♦	74HC564	*PC74HC564T	RTCF	D FL-FLOP	59- 83
176♦	74HC564	*PC74HC564T	VALG	D FL-FLOP	59- 83
177♦	74HC564	SN74HC564N	TII	D FL-FLOP	60- 52
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182♦	74HC573	74HC573N	SIC	8-BIT LCH	238- 58
183♦	74HC573	CD74HC573E	RCA	8-BIT LCH	239- 80
184♦	74HC573	*CD74HC573M	RCA	8-BIT LCH	239- 81
185▼	74HC573	*HD74HC573FP	HITJ	8-BIT LCH	235- 39
186▼	74HC573	HD74HC573P	HITJ	8-BIT LCH	235- 40
187♦	74HC573	M74HC573B1(A)	SGSI	8-BIT LCH	238-107
188♦	74HC573	*M74HC573C1(A)	SGSI	8-BIT LCH	238-108
189♦	74HC573	M74HC573F1(A)	SGSI	8-BIT LCH	238-109
190♦	74HC573	MC74HC573J(A)	MOTA	8-BIT LCH	240- 38
191♦	74HC573	MC74HC573N(A)	MOTA	8-BIT LCH	240- 39
192♦	74HC573	MM74HC573J	NSC	8-BIT LCH	238- 70
193♦	74HC573	MM74HC573N	NSC	8-BIT LCH	238- 71
194♦	74HC573	*N74HC573D	SIC	8-BIT LCH	239- 56
195♦	74HC573	N74HC573N	SIC	8-BIT LCH	239- 57
196♦	74HC573	PC74HC573P	MULB	8-BIT LCH	239- 97
197♦	74HC573	PC74HC573P	PHIN	8-BIT LCH	239- 97
198♦	74HC573	PC74HC573P	RTCF	8-BIT LCH	239- 97
199♦	74HC573	PC74HC573P	VALG	8-BIT LCH	239- 97
200♦	74HC573	*PC74HC573T	MULB	8-BIT LCH	239- 98
201♦	74HC573	*PC74HC573T	PHIN	8-BIT LCH	239- 98
202♦	74HC573	*PC74HC573T	RTCF	8-BIT LCH	239- 98
203♦	74HC573	*PC74HC573T	VALG	8-BIT LCH	239- 98
204♦	74HC573	SN74HC573N	TII	8-BIT LCH	239- 90
205▼	74HC573	*TC74HC573F(A)	TOSA	8-BIT LCH	238- 66
206▼	74HC573	TC74HC573P(A)	TOSA	8-BIT LCH	238- 67
207♦	74HC573	UPD74HC573C(A)	NECJ	8-BIT LCH	236- 32
208♦	74HC574	74HC574D	AEIL	D FL-FLOP	57- 75
209♦	74HC574	74HC574D	SIC	D FL-FLOP	57- 75
210♦	74HC574	74HC574N	AEIL	D FL-FLOP	57- 76
211♦	74HC574	74HC574N	SIC	D FL-FLOP	57- 76
212♦	74HC574	CD74HC574E	RCA	D FL-FLOP	60- 37
213	74HC574	*CD74HC574M	RCA	D FL-FLOP	60- 38
214▼	74HC574	*HD74HC574FP	HITJ	D FL-FLOP	60- 5
215▼	74HC574	HD74HC574P	HITJ	D FL-FLOP	60- 6
216♦	74HC574	M74HC574B1(A)	SGSI	D FL-FLOP	59- 61
217	74HC574	*M74HC574C1(A)	SGSI	D FL-FLOP	59- 62
218♦	74HC574	M74HC574F1(A)	SGSI	D FL-FLOP	59- 63
219♦	74HC574	MC74HC574J(A)	MOTA	D FL-FLOP	59- 68
220♦	74HC574	MC74HC574N(A)	MOTA	D FL-FLOP	59- 69

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LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	74HC574	MM74HC574J	NSC	D FL-FLOP	60- 74
2♦	74HC574	MM74HC574N	NSC	D FL-FLOP	60- 75
3♦	74HC574	PC74HC574P(A)	MULB	D FL-FLOP	59- 84
4♦	74HC574	PC74HC574P(A)	PHIN	D FL-FLOP	59- 84
5♦	74HC574	PC74HC574P(A)	RTCF	D FL-FLOP	59- 84
6♦	74HC574	PC74HC574P(A)	VALG	D FL-FLOP	59- 84
7♦	74HC574	*PC74HC574T(A)	MULB	D FL-FLOP	59- 85
8♦	74HC574	*PC74HC574T(A)	PHIN	D FL-FLOP	59- 85
9♦	74HC574	*PC74HC574T(A)	RTCF	D FL-FLOP	59- 85
10♦	74HC574	*PC74HC574T(A)	VALG	D FL-FLOP	59- 85
11♦	74HC574	SN74HC574N	TII	D FL-FLOP	60- 20
12▼	74HC574	*TC74HC574F(A)	TOSA	D FL-FLOP	62- 14
13▼	74HC574	TC74HC574P(A)	TOSA	D FL-FLOP	62- 15
14♦	74HC574	UPD74HC574C(A)	NECJ	D FL-FLOP	62- 79
15	74HC583	*74HC583D	SIC	ADDER	199- 69
16♦	74HC583	74HC583N	SIC	ADDER	199- 70
17	74HC583	CD74HC583E(A)	RCA	ADDER	199- 42
18	74HC583	*CD74HC583M(A)	RCA	ADDER	199- 43
19♦	74HC583	PC74HC583D(A)	MULB	ADDER	199- 95
20♦	74HC583	PC74HC583D(A)	PHIN	ADDER	199- 95
21♦	74HC583	PC74HC583D(A)	RTCF	ADDER	199- 95
22♦	74HC583	PC74HC583D(A)	VALG	ADDER	199- 95
23♦	74HC583	PC74HC583P(A)	MULB	ADDER	199- 96
24♦	74HC583	PC74HC583P(A)	PHIN	ADDER	199- 96
25♦	74HC583	PC74HC583P(A)	RTCF	ADDER	199- 96
26♦	74HC583	PC74HC583P(A)	VALG	ADDER	199- 96
27	74HC583	*PC74HC583T(A)	MULB	ADDER	199- 97
28	74HC583	*PC74HC583T(A)	PHIN	ADDER	199- 97
29	74HC583	*PC74HC583T(A)	RTCF	ADDER	199- 97
30	74HC583	*PC74HC583T(A)	VALG	ADDER	199- 97
31▼	74HC590	*HD74HC590FP	HITJ	COUNTER	166- 48
32▼	74HC590	HD74HC590P	HITJ	COUNTER	166- 49
33▼	74HC590	M74HC590B1	SGSI	COUNTER	165- 61
34▼	74HC590	*M74HC590C1	SGSI	COUNTER	165- 62
35▼	74HC590	M74HC590F1	SGSI	COUNTER	165- 63
36▼	74HC590	SN74HC590N(A)	TII	COUNTER	166- 35
37▼	74HC590	TC74HC590P	TOSA	COUNTER	169- 18
38▼	74HC592	*HD74HC592FP(A)	HITJ	COUNTER	166- 50
39▼	74HC592	HD74HC592P(A)	HITJ	COUNTER	166- 51
40▼	74HC592	M74HC592B1	SGSI	COUNTER	168-104
41▼	74HC592	*M74HC592C1	SGSI	COUNTER	168-105
42▼	74HC592	M74HC592F1	SGSI	COUNTER	168-106
43▼	74HC592	TC74HC592P	TOSA	COUNTER	169- 19
44▼	74HC593	*HD74HC593FP	HITJ	COUNTER	166- 52
45▼	74HC593	HD74HC593P	HITJ	COUNTER	166- 53
46▼	74HC593	M74HC593B1	SGSI	COUNTER	168-107
47▼	74HC593	*M74HC593C1	SGSI	COUNTER	168-108
48▼	74HC593	M74HC593F1	SGSI	COUNTER	168-109
49▼	74HC604	SN74HC604N	TII	8-BIT LCH	239- 74
50▼	74HC668	*HD74HC668FP	HITJ	DEC CNTR	178- 82
51▼	74HC668	HD74HC668P	HITJ	DEC CNTR	178- 83
52▼	74HC669	*HD74HC669FP	HITJ	HEX CNTR	161- 93
53▼	74HC669	HD74HC669P	HITJ	HEX CNTR	161- 94
54▼	74HC677	*HD74HC677FP	HITJ	MAGN COMP	215- 35
55▼	74HC677	HD74HC677P	HITJ	MAGN COMP	215- 36
56▼	74HC677	SN74HC677NT(A)	TII	MAGN COMP	215- 22
57▼	74HC678	*HD74HC678FP	HITJ	MAGN COMP	215- 37
58▼	74HC678	HD74HC678P	HITJ	MAGN COMP	215- 38
59▼	74HC678	SN74HC678NT(A)	TII	MAGN COMP	215- 23
60▼	74HC679	*HD74HC679FP	HITJ	MAGN COMP	215- 18
61▼	74HC679	HD74HC679P	HITJ	MAGN COMP	215- 19
62▼	74HC680	*HD74HC680FP	HITJ	MAGN COMP	215- 20
63▼	74HC680	HD74HC680P	HITJ	MAGN COMP	215- 21
64▼	74HC682	*HD74HC682FP	HITJ	MAGN COMP	218-102
65▼	74HC682	HD74HC682P	HITJ	MAGN COMP	218-103
66▼	74HC682	SN74HC682N(A)	TII	MAGN COMP	218- 27
67▼	74HC684	*HD74HC684FP	HITJ	MAGN COMP	218-104
68▼	74HC684	HD74HC684P	HITJ	MAGN COMP	218-105
69▼	74HC684	SN74HC684N(A)	TII	MAGN COMP	218- 28
70▼	74HC686	*HD74HC686FP	HITJ	MAGN COMP	218-106
71▼	74HC686	HD74HC686P	HITJ	MAGN COMP	218-107
72	74HC688	*74HC688D	SIC	MAGN COMP	218- 40
73♦	74HC688	74HC688N	SIC	MAGN COMP	218- 41
74♦	74HC688	CD74HC688E	RCA	MAGN COMP	218- 79
75	74HC688	*CD74HC688M	RCA	MAGN COMP	218- 80
76▼	74HC688	*HD74HC688FP	HITJ	MAGN COMP	219- 3
77▼	74HC688	HD74HC688P	HITJ	MAGN COMP	219- 4
78♦	74HC688	M74HC688B1(A)	SGSI	MAGN COMP	218- 96
79	74HC688	*M74HC688C1(A)	SGSI	MAGN COMP	218- 97
80♦	74HC688	M74HC688F1(A)	SGSI	MAGN COMP	218- 98
81♦	74HC688	MC74HC688J(A)	MOTA	MAGN COMP	219- 5
82♦	74HC688	MC74HC688N(A)	MOTA	MAGN COMP	219- 6
83♦	74HC688	MM74HC688J	NSC	MAGN COMP	216- 28
84♦	74HC688	MM74HC688N	NSC	MAGN COMP	216- 29
85♦	74HC688	PC74HC688P	MULB	MAGN COMP	219- 1
86♦	74HC688	PC74HC688P	PHIN	MAGN COMP	219- 1
87♦	74HC688	PC74HC688P	RTCF	MAGN COMP	219- 1
88♦	74HC688	PC74HC688P	VALG	MAGN COMP	219- 1
89	74HC688	*PC74HC688T(A)	MULB	MAGN COMP	219- 2
90	74HC688	*PC74HC688T(A)	PHIN	MAGN COMP	219- 2
91	74HC688	*PC74HC688T(A)	RTCF	MAGN COMP	219- 2
92	74HC688	*PC74HC688T(A)	VALG	MAGN COMP	219- 2
93♦	74HC688	SN74HC688N(A)	TII	MAGN COMP	215- 66
94▼	74HC688	*TC74HC688F(A)	TOSA	MAGN COMP	218-100
95▼	74HC688	TC74HC688P(A)	TOSA	MAGN COMP	218-101
96▼	74HC690	M74HC690B1	SGSI	DEC CNTR	172- 46
97▼	74HC690	*M74HC690C1	SGSI	DEC CNTR	172- 47
98▼	74HC690	M74HC690F1	SGSI	DEC CNTR	172- 48
99▼	74HC690	TC74HC690P	TOSA	DEC CNTR	175- 32
100▼	74HC691	M74HC691B1	SGSI	HEX CNTR	154- 5
101▼	74HC691	*M74HC691C1	SGSI	HEX CNTR	154- 6
102▼	74HC691	M74HC691F1	SGSI	HEX CNTR	154- 7
103▼	74HC691	TC74HC691P	TOSA	HEX CNTR	157- 71
104▼	74HC692	M74HC692B1	SGSI	DEC CNTR	172- 49
105▼	74HC692	*M74HC692C1	SGSI	DEC CNTR	172- 50
106▼	74HC692	M74HC692F1	SGSI	DEC CNTR	172- 51
107▼	74HC692	TC74HC692P	TOSA	DEC CNTR	175- 33
108▼	74HC693	M74HC693B1	SGSI	HEX CNTR	154- 26
109▼	74HC693	*M74HC693C1	SGSI	HEX CNTR	154- 27
110▼	74HC693	M74HC693F1	SGSI	HEX CNTR	154- 28
111▼	74HC693	TC74HC693P	TOSA	HEX CNTR	157- 72
112▼	74HC696	M74HC696B1	SGSI	DEC CNTR	177- 32
113▼	74HC696	*M74HC696C1	SGSI	DEC CNTR	177- 33
114▼	74HC696	M74HC696F1	SGSI	DEC CNTR	177- 34
115▼	74HC696	TC74HC696P	TOSA	DEC CNTR	179-103
116▼	74HC697	M74HC697B1	SGSI	HEX CNTR	159- 77
117▼	74HC697	*M74HC697C1	SGSI	HEX CNTR	159- 78
118▼	74HC697	M74HC697F1	SGSI	HEX CNTR	159- 79
119▼	74HC697	TC74HC697P	TOSA	HEX CNTR	163- 4
120▼	74HC698	M74HC698B1	SGSI	DEC CNTR	177- 35
121▼	74HC698	*M74HC698C1	SGSI	DEC CNTR	177- 36
122▼	74HC698	M74HC698F1	SGSI	DEC CNTR	177- 37
123▼	74HC699	M74HC699B1	SGSI	HEX CNTR	159- 80
124▼	74HC699	*M74HC699C1	SGSI	HEX CNTR	159- 81
125▼	74HC699	M74HC699F1	SGSI	HEX CNTR	159- 82
126▼	74HC881	*HD74HC881FP	HITJ	4-BIT ALU	222- 22
127▼	74HC881	HD74HC881P	HITJ	4-BIT ALU	222- 23
128♦	74HC4002	74HC4002D(A)	MULB	NOR GATE	118- 35
129♦	74HC4002	74HC4002D(A)	PHIN	NOR GATE	118- 35
130♦	74HC4002	74HC4002D(A)	RTCF	NOR GATE	118- 35
131♦	74HC4002	74HC4002D(A)	SIC	NOR GATE	118- 35
132♦	74HC4002	74HC4002D(A)	VALG	NOR GATE	118- 35
133♦	74HC4002	74HC4002N	RCA	NOR GATE	118- 1
134♦	74HC4002	74HC4002N	SIC	NOR GATE	118- 1
135♦	74HC4002	CD74HC4002E	RCA	NOR GATE	118- 3
136♦	74HC4002	*CD74HC4002M	RCA	NOR GATE	118- 4
137♦	74HC4002	M74HC4002B1(A)	SGSI	NOR GATE	118- 18
138♦	74HC4002	*M74HC4002C1(A)	SGSI	NOR GATE	118- 19
139♦	74HC4002	M74HC4002F1(A)	SGSI	NOR GATE	118- 20
140♦	74HC4002	M74HC4002P	MITJ	NOR GATE	118- 21
141♦	74HC4002	MC74HC4002J	MOTA	NOR GATE	118- 14
142♦	74HC4002	MC74HC4002N	MOTA	NOR GATE	118- 15
143♦	74HC4002	MM74HC4002J	NSC	NOR GATE	118- 22
144♦	74HC4002	MM74HC4002N	NSC	NOR GATE	118- 23
145♦	74HC4002	PC74HC4002D(A)	MULB	NOR GATE	119-104
146♦	74HC4002	PC74HC4002D(A)	PHIN	NOR GATE	119-104
147♦	74HC4002	PC74HC4002D(A)	RTCF	NOR GATE	119-104
148♦	74HC4002	PC74HC4002D(A)	VALG	NOR GATE	119-104
149♦	74HC4002	PC74HC4002P(A)	MULB	NOR GATE	118- 30
150♦	74HC4002	PC74HC4002P(A)	PHIN	NOR GATE	118- 30
151♦	74HC4002	PC74HC4002P(A)	RTCF	NOR GATE	118- 30
152♦	74HC4002	PC74HC4002P(A)	VALG	NOR GATE	118- 30
153♦	74HC4002	*PC74HC4002T(A)	MULB	NOR GATE	118- 31
154♦	74HC4002	*PC74HC4002T(A)	PHIN	NOR GATE	118- 31
155♦	74HC4002	*PC74HC4002T(A)	RTCF	NOR GATE	118- 31
156♦	74HC4002	*PC74HC4002T(A)	VALG	NOR GATE	118- 31
157▼	74HC4002	*SN74HC4002D	TII	NOR GATE	118- 26
158♦	74HC4002	SN74HC4002N	TII	NOR GATE	118- 27
159▼	74HC4002	*TC74HC4002F(A)	TOSA	NOR GATE	118- 24
160▼	74HC4002	TC74HC4002P(A)	TOSA	NOR GATE	118- 25
161♦	74HC4002	UPD74HC4002C(A)	NECJ	NOR GATE	117-107
162♦	74HC4017	*74HC4017D	SIC	DEC CNTR	183- 67
163♦	74HC4017	74HC4017N	SIC	DEC CNTR	183- 68
164♦	74HC4017	CD74HC4017E	RCA	DEC CNTR	183- 47
165♦	74HC4017	*CD74HC4017M	RCA	DEC CNTR	183- 48
166▼	74HC4017	*HD74HC4017FP	HITJ	DEC CNTR	183- 65
167▼	74HC4017	HD74HC4017P	HITJ	DEC CNTR	183- 66
168♦	74HC4017	M74HC4017B1(A)	SGSI	DEC CNTR	183- 49
169♦	74HC4017	*M74HC4017C1(A)	SGSI	DEC CNTR	183- 50
170♦	74HC4017	M74HC4017F1(A)	SGSI	DEC CNTR	183- 51
171♦	74HC4017	MC74HC4017J(A)	MOTA	DEC CNTR	183- 70
172♦	74HC4017	MC74HC4017N(A)	MOTA	DEC CNTR	183- 71
173♦	74HC4017	MM74HC4017J	NSC	DEC CNTR	183- 45
174♦	74HC4017	MM74HC4017N	NSC	DEC CNTR	183- 46
175♦	74HC4017	PC74HC4017D(A)	MULB	DEC CNTR	183- 82
176♦	74HC4017	PC74HC4017D(A)	PHIN	DEC CNTR	183- 82
177♦	74HC4017	PC74HC4017D(A)	RTCF	DEC CNTR	183- 82
178♦	74HC4017	PC74HC4017D(A)	VALG	DEC CNTR	183- 82
179♦	74HC4017	PC74HC4017P(A)	MULB	DEC CNTR	183- 52
180♦	74HC4017	PC74HC4017P(A)	PHIN	DEC CNTR	183- 52
181♦	74HC4017	PC74HC4017P(A)	RTCF	DEC CNTR	183- 52
182♦	74HC4017	PC74HC4017P(A)	VALG	DEC CNTR	183- 52
183♦	74HC4017	*PC74HC4017T(A)	MULB	DEC CNTR	183- 53
184♦	74HC4017	*PC74HC4017T(A)	PHIN	DEC CNTR	183- 53
185♦	74HC4017	*PC74HC4017T(A)	RTCF	DEC CNTR	183- 53
186♦	74HC4017	*PC74HC4017T(A)	VALG	DEC CNTR	183- 53
187♦	74HC4017	SN74HC4017N(A)	TII	DEC CNTR	183- 72
188▼	74HC4017	*TC74HC4017F(A)	TOSA	DEC CNTR	183- 77
189▼	74HC4017	TC74HC4017P(A)	TOSA	DEC CNTR	183- 78
190♦	74HC4020	*74HC4020D	SIC	COUNTER	166- 73
191♦	74HC4020	74HC4020N	SIC	COUNTER	166- 74
192♦	74HC4020	CD74HC4020E	RCA	COUNTER	171- 88
193♦	74HC4020	*CD74HC4020M(A)	RCA	COUNTER	171- 89
194▼	74HC4020	*HD74HC4020FP	HITJ	COUNTER	171- 65
195▼	74HC4020	HD74HC4020P	HITJ	COUNTER	171- 66
196♦	74HC4020	M74HC4020B1(A)	SGSI	COUNTER	171- 97
197♦	74HC4020	*M74HC4020C1(A)	SGSI	COUNTER	171- 98
198♦	74HC4020	M74HC4020F1(A)	SGSI	COUNTER	171- 99
199♦	74HC4020	MC74HC4020J(A)	MOTA	COUNTER	171-104
200♦	74HC4020	MC74HC4020N(A)	MOTA	COUNTER	171-105
201♦	74HC4020	MM74HC4020J	NSC	COUNTER	171- 56
202♦	74HC4020	MM74HC4020N	NSC	COUNTER	171- 57
203♦	74HC4020	PC74HC4020D(A)	MULB	COUNTER	172- 8
204♦	74HC4020	PC74HC4020D(A)	PHIN	COUNTER	172- 8
205♦	74HC4020	PC74HC4020D(A)	RTCF	COUNTER	172- 8
206♦	74HC4020	PC74HC4020D(A)	VALG	COUNTER	172- 8
207♦	74HC4020	PC74HC4020P	MULB	COUNTER	172- 9
208♦	74HC4020	PC74HC4020P	PHIN	COUNTER	172- 9
209♦	74HC4020	PC74HC4020P	RTCF	COUNTER	172- 9
210♦	74HC4020	PC74HC4020P	VALG	COUNTER	172- 9
211♦	74HC4020	*PC74HC4020T	MULB	COUNTER	172- 10
212♦	74HC4020	*PC74HC4020T	PHIN	COUNTER	172- 10
213♦	74HC4020	*PC74HC4020T	RTCF	COUNTER	172- 10
214♦	74HC4020	*PC74HC4020T	VALG	COUNTER	172- 10
215♦	74HC4020	SN74HC4020N	TII	COUNTER	170- 87
216▼	74HC4020	*TC74HC4020F(A)	TOSA	COUNTER	172- 11
217▼	74HC4020	TC74HC4020P(A)	TOSA	COUNTER	172- 12
218♦	74HC4020	UPD74HC4020C(A)	NECJ	COUNTER	171-107
219▼	74HC4022	*HD74HC4022FP	HITJ	OCTAL CNTR	185- 23
220▼	74HC4022	HD74HC4022P	HITJ	OCTAL CNTR	185- 24

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1♦	74HC4022	M74HC4022B1(A)	SGSI	OCTAL CNTR	185- 14
2♦	74HC4022	*M74HC4022C1(A)	SGSI	COUNTER	166- 56
3♦	74HC4022	M74HC4022F1(A)	SGSI	OCTAL CNTR	185- 15
4▼	74HC4022	*TC74HC4022F(A)	TOSA	OCTAL CNTR	185- 26
5▼	74HC4022	TC74HC4022P(A)	TOSA	OCTAL CNTR	185- 27
6♦	74HC4024	*74HC4024D	SIC	COUNTER	166- 75
7♦	74HC4024	74HC4024N	SIC	COUNTER	166- 76
8♦	74HC4024	CD74HC4024E	RCA	COUNTER	168- 79
9♦	74HC4024	*CD74HC4024M	RCA	COUNTER	168- 80
10▼	74HC4024	*HD74HC4024FP	HITJ	COUNTER	166- 54
11▼	74HC4024	HD74HC4024P	HITJ	COUNTER	166- 55
12♦	74HC4024	M74HC4024B1(A)	SGSI	COUNTER	168- 86
13♦	74HC4024	*M74HC4024C1(A)	SGSI	COUNTER	166- 70
14♦	74HC4024	M74HC4024F1(A)	SGSI	COUNTER	168- 87
15♦	74HC4024	MC74HC4024J(A)	MOTA	COUNTER	168- 90
16♦	74HC4024	MC74HC4024N(A)	MOTA	COUNTER	168- 91
17♦	74HC4024	MM74HC4024J	NSC	COUNTER	168- 77
18♦	74HC4024	MM74HC4024N	NSC	COUNTER	168- 78
19♦	74HC4024	PC74HC4024D(A)	MULB	COUNTER	168- 98
20♦	74HC4024	PC74HC4024D(A)	PHIN	COUNTER	168- 98
21♦	74HC4024	PC74HC4024D(A)	RTCF	COUNTER	168- 98
22♦	74HC4024	PC74HC4024D(A)	VALG	COUNTER	168- 98
23♦	74HC4024	PC74HC4024P	MULB	COUNTER	168- 73
24♦	74HC4024	PC74HC4024P	PHIN	COUNTER	168- 73
25♦	74HC4024	PC74HC4024P	RTCF	COUNTER	168- 73
26♦	74HC4024	PC74HC4024P	VALG	COUNTER	168- 73
27♦	74HC4024	*PC74HC4024T	MULB	COUNTER	168- 74
28♦	74HC4024	*PC74HC4024T	PHIN	COUNTER	168- 74
29♦	74HC4024	*PC74HC4024T	RTCF	COUNTER	168- 74
30♦	74HC4024	*PC74HC4024T	VALG	COUNTER	168- 74
31▼	74HC4024	*SN74HC4024D	TII	COUNTER	166- 79
32▼	74HC4024	SN74HC4024N	TII	COUNTER	166- 80
33▼	74HC4024	*TC74HC4024F(A)	TOSA	COUNTER	168- 99
34▼	74HC4024	TC74HC4024P(A)	TOSA	COUNTER	168-100
35♦	74HC4024	UPD74HC4024C(A)	NECJ	COUNTER	168-101
36♦	74HC4028	M74HC4028B1(A)	SGSI	DECODER	127- 8
37	74HC4028	*M74HC4028C1(A)	SGSI	DECODER	127- 9
38♦	74HC4028	M74HC4028F1(A)	SGSI	DECODER	127- 10
39▼	74HC4028	*TC74HC4028F(A)	TOSA	DECODER	127- 79
40▼	74HC4028	TC74HC4028P(A)	TOSA	DECODER	127- 80
41♦	74HC4040	*74HC4040D	SIC	COUNTER	166- 77
42♦	74HC4040	74HC4040N	SIC	COUNTER	166- 78
43♦	74HC4040	CD74HC4040E	RCA	COUNTER	170- 57
44♦	74HC4040	*CD74HC4040M	RCA	COUNTER	170- 58
45▼	74HC4040	*HD74HC4040FP	HITJ	COUNTER	170- 46
46▼	74HC4040	HD74HC4040P	HITJ	COUNTER	170- 47
47♦	74HC4040	M74HC4040B1(A)	SGSI	COUNTER	170- 60
48♦	74HC4040	*M74HC4040C1(A)	SGSI	COUNTER	170- 61
49♦	74HC4040	M74HC4040F1(A)	SGSI	COUNTER	170- 62
50♦	74HC4040	MC74HC4040J(A)	MOTA	COUNTER	170- 64
51♦	74HC4040	MC74HC4040N(A)	MOTA	COUNTER	170- 65
52♦	74HC4040	PC74HC4040D(A)	MULB	COUNTER	170- 72
53♦	74HC4040	PC74HC4040D(A)	PHIN	COUNTER	170- 72
54♦	74HC4040	PC74HC4040D(A)	RTCF	COUNTER	170- 72
55♦	74HC4040	PC74HC4040D(A)	VALG	COUNTER	170- 72
56♦	74HC4040	PC74HC4040P	MULB	COUNTER	170- 48
57♦	74HC4040	PC74HC4040P	PHIN	COUNTER	170- 48
58♦	74HC4040	PC74HC4040P	RTCF	COUNTER	170- 48
59♦	74HC4040	PC74HC4040P	VALG	COUNTER	170- 48
60♦	74HC4040	*PC74HC4040T	MULB	COUNTER	170- 49
61♦	74HC4040	*PC74HC4040T	PHIN	COUNTER	170- 49
62♦	74HC4040	*PC74HC4040T	RTCF	COUNTER	170- 49
63♦	74HC4040	*PC74HC4040T	VALG	COUNTER	170- 49
64♦	74HC4040	SN74HC4040N	TII	COUNTER	166- 63
65▼	74HC4040	*TC74HC4040F(A)	TOSA	COUNTER	170- 73
66▼	74HC4040	TC74HC4040P(A)	TOSA	COUNTER	170- 74
67♦	74HC4046	PC74HC4046AP	MULB	SPECIAL	246- 51
68♦	74HC4046	PC74HC4046AP	PHIN	SPECIAL	246- 51
69♦	74HC4046	PC74HC4046AP	RTCF	SPECIAL	246- 51
70♦	74HC4046	PC74HC4046AP	VALG	SPECIAL	246- 51
71	74HC4046	*PC74HC4046AT	MULB	SPECIAL	246- 52
72	74HC4046	*PC74HC4046AT	PHIN	SPECIAL	246- 52
73	74HC4046	*PC74HC4046AT	RTCF	SPECIAL	246- 52
74	74HC4046	*PC74HC4046AT	VALG	SPECIAL	246- 52
75	74HC4059	*74HC4059D	SIC	FREQ DIVID	195- 86
76♦	74HC4059	74HC4059N	SIC	FREQ DIVID	195- 87
77♦	74HC4059	CD74HC4059E	RCA	FREQ DIVID	195- 92
78♦	74HC4059	*CD74HC4059M	RCA	FREQ DIVID	195- 93
79♦	74HC4059	PC74HC4059P	MULB	FREQ DIVID	196- 57
80♦	74HC4059	PC74HC4059P	PHIN	FREQ DIVID	196- 57
81♦	74HC4059	PC74HC4059P	VALG	FREQ DIVID	196- 57
82	74HC4059	*PC74HC4059T	MULB	FREQ DIVID	196- 58
83	74HC4059	*PC74HC4059T	PHIN	FREQ DIVID	196- 58
84	74HC4059	*PC74HC4059T	VALG	FREQ DIVID	196- 58
85♦	74HC4060	*74HC4060D	SIC	COUNTER	172- 2
86♦	74HC4060	74HC4060N	SIC	COUNTER	172- 3
87♦	74HC4060	CD74HC4060E	RCA	COUNTER	171- 90
88♦	74HC4060	*CD74HC4060M	RCA	COUNTER	171- 91
89▼	74HC4060	*HD74HC4060FP	HITJ	COUNTER	171- 49
90▼	74HC4060	HD74HC4060P	HITJ	COUNTER	171- 50
91♦	74HC4060	M74HC4060B1(A)	SGSI	COUNTER	171-100
92♦	74HC4060	*M74HC4060C1(A)	SGSI	COUNTER	171-101
93♦	74HC4060	M74HC4060F1(A)	SGSI	COUNTER	171-102
94♦	74HC4060	MM74HC4060J	NSC	COUNTER	171- 58
95♦	74HC4060	MM74HC4060N	NSC	COUNTER	171- 59
96♦	74HC4060	PC74HC4060D(A)	MULB	COUNTER	171- 86
97♦	74HC4060	PC74HC4060D(A)	PHIN	COUNTER	171- 86
98♦	74HC4060	PC74HC4060D(A)	RTCF	COUNTER	171- 86
99♦	74HC4060	PC74HC4060D(A)	VALG	COUNTER	171- 86
100♦	74HC4060	PC74HC4060P	MULB	COUNTER	171- 72
101♦	74HC4060	PC74HC4060P	PHIN	COUNTER	171- 72
102♦	74HC4060	PC74HC4060P	RTCF	COUNTER	171- 72
103♦	74HC4060	PC74HC4060P	VALG	COUNTER	171- 72
104♦	74HC4060	*PC74HC4060T	MULB	COUNTER	171- 73
105♦	74HC4060	*PC74HC4060T	PHIN	COUNTER	171- 73
106♦	74HC4060	*PC74HC4060T	RTCF	COUNTER	171- 73
107♦	74HC4060	*PC74HC4060T	VALG	COUNTER	171- 73
108♦	74HC4060	SN74HC4060N	TII	COUNTER	166- 64
109▼	74HC4060	*TC74HC4060F(A)	TOSA	COUNTER	172- 13
110▼	74HC4060	TC74HC4060P(A)	TOSA	COUNTER	172- 14
111▼	74HC4061	SN74HC4061N	TII	COUNTER	166- 65
112♦	74HC4072	M74HC4072B1(A)	SGSI	OR GATE	124- 6
113♦	74HC4072	*M74HC4072C1(A)	SGSI	OR GATE	124- 7
114♦	74HC4072	M74HC4072F1(A)	SGSI	OR GATE	124- 8
115▼	74HC4072	*TC74HC4072F(A)	TOSA	OR GATE	124- 9
116▼	74HC4072	TC74HC4072P(A)	TOSA	OR GATE	124- 10
117♦	74HC4075	*74HC4075D	SIC	OR GATE	123- 1
118♦	74HC4075	74HC4075N	SIC	OR GATE	123- 2
119♦	74HC4075	CD74HC4075E	RCA	OR GATE	123- 3
120♦	74HC4075	*CD74HC4075M	RCA	OR GATE	123- 4
121♦	74HC4075	M74HC4075B1(A)	SGSI	OR GATE	123- 7
122♦	74HC4075	*M74HC4075C1(A)	SGSI	OR GATE	123- 8
123♦	74HC4075	M74HC4075F1(A)	SGSI	OR GATE	123- 9
124♦	74HC4075	MC74HC4075J	MOTA	OR GATE	123- 12
125♦	74HC4075	MC74HC4075N	MOTA	OR GATE	123- 13
126♦	74HC4075	MM74HC4075J	NSC	OR GATE	123- 14
127♦	74HC4075	MM74HC4075N	NSC	OR GATE	123- 15
128♦	74HC4075	PC74HC4075D(A)	MULB	OR GATE	123- 16
129♦	74HC4075	PC74HC4075D(A)	PHIN	OR GATE	123- 16
130♦	74HC4075	PC74HC4075D(A)	RTCF	OR GATE	123- 16
131♦	74HC4075	PC74HC4075D(A)	VALG	OR GATE	123- 16
132♦	74HC4075	PC74HC4075P	MULB	OR GATE	123- 27
133♦	74HC4075	PC74HC4075P	PHIN	OR GATE	123- 27
134♦	74HC4075	PC74HC4075P	RTCF	OR GATE	123- 27
135♦	74HC4075	PC74HC4075P	VALG	OR GATE	123- 27
136♦	74HC4075	*PC74HC4075T	MULB	OR GATE	123- 28
137♦	74HC4075	*PC74HC4075T	PHIN	OR GATE	123- 28
138♦	74HC4075	*PC74HC4075T	RTCF	OR GATE	123- 28
139♦	74HC4075	*PC74HC4075T	VALG	OR GATE	123- 28
140▼	74HC4075	*SN74HC4075D	TII	OR GATE	123- 17
141♦	74HC4075	SN74HC4075N	TII	OR GATE	123- 18
142▼	74HC4075	*TC74HC4075F(A)	TOSA	OR GATE	123- 19
143▼	74HC4075	TC74HC4075P(A)	TOSA	OR GATE	123- 20
144♦	74HC4078	M74HC4078B1(A)	SGSI	NOR GATE	119- 52
145♦	74HC4078	*M74HC4078C1(A)	SGSI	NOR GATE	119- 53
146♦	74HC4078	M74HC4078F1(A)	SGSI	NOR GATE	119- 54
147♦	74HC4078	M74HC4078P	MITJ	NOR GATE	119- 44
148♦	74HC4078	MM74HC4078J	NSC	NOR GATE	119- 46
149♦	74HC4078	MM74HC4078N	NSC	NOR GATE	119- 47
150▼	74HC4078	*SN74HC4078AD	TII	NOR GATE	119- 48
151▼	74HC4078	SN74HC4078AN	TII	NOR GATE	119- 49
152▼	74HC4078	*TC74HC4078F	TOSA	NOR GATE	119- 50
153▼	74HC4078	TC74HC4078P(A)	TOSA	NOR GATE	119- 51
154♦	74HC4078	UPD74HC4078C(A)	NECJ	NOR GATE	119-103
155♦	74HC4102	M74HC4102B1(A)	SGSI	COUNTER	166- 57
156♦	74HC4102	*M74HC4102C1(A)	SGSI	COUNTER	166- 58
157♦	74HC4102	M74HC4102F1(A)	SGSI	COUNTER	166- 59
158♦	74HC4103	M74HC4103B1(A)	SGSI	COUNTER	166- 60
159♦	74HC4103	*M74HC4103C1(A)	SGSI	COUNTER	166- 61
160♦	74HC4103	M74HC4103F1(A)	SGSI	COUNTER	166- 62
161♦	74HC4510	*74HC4510D	SIC	DEC CNTR	180- 18
162♦	74HC4510	74HC4510N	SIC	DEC CNTR	180- 19
163♦	74HC4510	CD74HC4510E	RCA	DEC CNTR	179- 51
164♦	74HC4510	CD74HC4510M	RCA	DEC CNTR	179- 52
165♦	74HC4510	PC74HC4510D(A)	MULB	DEC CNTR	180- 24
166♦	74HC4510	PC74HC4510D(A)	PHIN	DEC CNTR	180- 24
167♦	74HC4510	PC74HC4510D(A)	RTCF	DEC CNTR	180- 24
168♦	74HC4510	PC74HC4510D(A)	VALG	DEC CNTR	180- 24
169♦	74HC4510	PC74HC4510P	MULB	DEC CNTR	180- 25
170♦	74HC4510	PC74HC4510P	PHIN	DEC CNTR	180- 25
171♦	74HC4510	PC74HC4510P	RTCF	DEC CNTR	180- 25
172♦	74HC4510	PC74HC4510P	VALG	DEC CNTR	180- 25
173♦	74HC4510	*PC74HC4510T	MULB	DEC CNTR	180- 26
174♦	74HC4510	*PC74HC4510T	PHIN	DEC CNTR	180- 26
175♦	74HC4510	*PC74HC4510T	RTCF	DEC CNTR	180- 26
176♦	74HC4510	*PC74HC4510T	VALG	DEC CNTR	180- 26
177▼	74HC4514	*HD74HC4514FP	HITJ	DECODER	125- 93
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179♦	74HC4514	MM74HC4514J(A)	NSC	DECODER	125- 63
180♦	74HC4514	MM74HC4514N(A)	NSC	DECODER	125- 64
181▼	74HC4515	*HD74HC4515FP	HITJ	DECODER	125- 95
182▼	74HC4515	HD74HC4515P	HITJ	DECODER	125- 96
183♦	74HC4516	*74HC4516D	SIC	HEX CNTR	163- 41
184♦	74HC4516	74HC4516N	SIC	HEX CNTR	163- 42
185♦	74HC4516	CD74HC4516E	RCA	HEX CNTR	161- 97
186♦	74HC4516	CD74HC4516M	RCA	HEX CNTR	161- 98
187♦	74HC4516	PC74HC4516D(A)	MULB	HEX CNTR	163- 48
188♦	74HC4516	PC74HC4516D(A)	PHIN	HEX CNTR	163- 48
189♦	74HC4516	PC74HC4516D(A)	RTCF	HEX CNTR	163- 48
190♦	74HC4516	PC74HC4516D(A)	VALG	HEX CNTR	163- 48
191♦	74HC4516	PC74HC4516P	MULB	HEX CNTR	163- 49
192♦	74HC4516	PC74HC4516P	PHIN	HEX CNTR	163- 49
193♦	74HC4516	PC74HC4516P	RTCF	HEX CNTR	163- 49
194♦	74HC4516	PC74HC4516P	VALG	HEX CNTR	163- 49
195♦	74HC4516	*PC74HC4516T	MULB	HEX CNTR	163- 50
196♦	74HC4516	*PC74HC4516T	PHIN	HEX CNTR	163- 50
197♦	74HC4516	*PC74HC4516T	RTCF	HEX CNTR	163- 50
198♦	74HC4516	*PC74HC4516T	VALG	HEX CNTR	163- 50
199♦	74HC4518	*74HC4518D	SIC	DEC CNTR	181- 58
200♦	74HC4518	74HC4518N	SIC	DEC CNTR	181- 59
201♦	74HC4518	CD74HC4518E	RCA	DEC CNTR	181- 39
202♦	74HC4518	*CD74HC4518M	RCA	DEC CNTR	181- 40
203▼	74HC4518	*HD74HC4518FP	HITJ	DEC CNTR	181- 48
204▼	74HC4518	HD74HC4518P	HITJ	DEC CNTR	181- 49
205▼	74HC4518	M74HC4518B1	SGSI	DEC CNTR	180- 95
206▼	74HC4518	M74HC4518C1	SGSI	DEC CNTR	180- 96
207▼	74HC4518	M74HC4518F1	SGSI	DEC CNTR	180- 97
208♦	74HC4518	PC74HC4518D(A)	MULB	DEC CNTR	181- 90
209♦	74HC4518	PC74HC4518D(A)	PHIN	DEC CNTR	181- 90
210♦	74HC4518	PC74HC4518D(A)	RTCF	DEC CNTR	181- 90
211♦	74HC4518	PC74HC4518D(A)	VALG	DEC CNTR	181- 90
212♦	74HC4518	PC74HC4518P	MULB	DEC CNTR	181- 46
213♦	74HC4518	PC74HC4518P	PHIN	DEC CNTR	181- 46
214♦	74HC4518	PC74HC4518P	RTCF	DEC CNTR	181- 46
215♦	74HC4518	PC74HC4518P	VALG	DEC CNTR	181- 46
216♦	74HC4518	*PC74HC4518T	MULB	DEC CNTR	181- 47
217♦	74HC4518	*PC74HC4518T	PHIN	DEC CNTR	181- 47
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*Surface mount package style

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3♦	74HC4520	74HC4520N	SIC	HEX CNTR	164-107
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18♦	74HC4520	PC74HC4520P	VALG	HEX CNTR	164- 83
19♦	74HC4520	*PC74HC4520T	MULB	HEX CNTR	164- 84
20♦	74HC4520	*PC74HC4520T	PHIN	HEX CNTR	164- 84
21♦	74HC4520	*PC74HC4520T	RTCF	HEX CNTR	164- 84
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26♦	74HC4538	74HC4538N	SIC	CLOCK/MV	189- 26
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29▼	74HC4538	*HD74HC4538FP	HITJ	CLOCK/MV	190- 11
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35♦	74HC4538	MC74HC4538N(A)	MOTA	CLOCK/MV	190- 57
36♦	74HC4538	MM74HC4538J	NSC	CLOCK/MV	190- 98
37♦	74HC4538	MM74HC4538N	NSC	CLOCK/MV	190- 99
38♦	74HC4538	PC74HC4538D(A)	MULB	CLOCK/MV	191- 21
39♦	74HC4538	PC74HC4538D(A)	PHIN	CLOCK/MV	191- 21
40♦	74HC4538	PC74HC4538D(A)	RTCF	CLOCK/MV	191- 21
41♦	74HC4538	PC74HC4538D(A)	VALG	CLOCK/MV	191- 21
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50▼	74HC4538	*TC74HC4538F(A)	TOSA	CLOCK/MV	191- 74
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59♦	74HC7266	74HC7266N	SIC	EXNOR GATE	90- 68
60♦	74HC7266	CD74HC7266E	RCA	EXNOR GATE	90- 74
61♦	74HC7266	*CD74HC7266M	RCA	EXNOR GATE	90- 75
62▼	74HC7266	*HD74HC7266FP	HITJ	EXNOR GATE	90- 61
63▼	74HC7266	HD74HC7266P	HITJ	EXNOR GATE	90- 62
64♦	74HC7266	PC74HC7266D(A)	MULB	EXNOR GATE	90- 50
65♦	74HC7266	PC74HC7266D(A)	PHIN	EXNOR GATE	90- 50
66♦	74HC7266	PC74HC7266D(A)	RTCF	EXNOR GATE	90- 50
67♦	74HC7266	PC74HC7266D(A)	VALG	EXNOR GATE	90- 50
68♦	74HC7266	PC74HC7266P(A)	MULB	EXNOR GATE	90- 97
69♦	74HC7266	PC74HC7266P(A)	PHIN	EXNOR GATE	90- 97
70♦	74HC7266	PC74HC7266P(A)	RTCF	EXNOR GATE	90- 97
71♦	74HC7266	PC74HC7266P(A)	VALG	EXNOR GATE	90- 97
72♦	74HC7266	*PC74HC7266T(A)	MULB	EXNOR GATE	90- 98
73♦	74HC7266	*PC74HC7266T(A)	PHIN	EXNOR GATE	90- 98
74♦	74HC7266	*PC74HC7266T(A)	RTCF	EXNOR GATE	90- 98
75♦	74HC7266	*PC74HC7266T(A)	VALG	EXNOR GATE	90- 98
76▼	74HC7266	*SN74HC7266D	TII	EXNOR GATE	90- 78
77▼	74HC7266	SN74HC7266N	TII	EXNOR GATE	90- 79
78▼	74HC7266	*TC74HC7266F	TOSA	EXNOR GATE	90- 83
79▼	74HC7266	TC74HC7266P(A)	TOSA	EXNOR GATE	90- 84
80▼	74HC7292	TC74HC7292P	TOSA	FREQ DIVID	196- 61
81▼	74HC7294	TC74HC7294P	TOSA	FREQ DIVID	196- 62
82♦	74HC40102	*74HC40102D	SIC	DEC CNTR	182- 61
83♦	74HC40102	74HC40102N	SIC	DEC CNTR	182- 62
84♦	74HC40102	CD74HC40102E	RCA	DEC CNTR	182- 59
85♦	74HC40102	*CD74HC40102M	RCA	DEC CNTR	182- 60
86♦	74HC40102	PC74HC40102D(A)	MULB	DEC CNTR	182- 64
87♦	74HC40102	PC74HC40102D(A)	PHIN	DEC CNTR	182- 64
88♦	74HC40102	PC74HC40102D(A)	RTCF	DEC CNTR	182- 64
89♦	74HC40102	PC74HC40102D(A)	VALG	DEC CNTR	182- 64
90♦	74HC40102	PC74HC40102P	MULB	DEC CNTR	182- 53
91♦	74HC40102	PC74HC40102P	PHIN	DEC CNTR	182- 53
92♦	74HC40102	PC74HC40102P	RTCF	DEC CNTR	182- 53
93♦	74HC40102	PC74HC40102P	VALG	DEC CNTR	182- 53
94♦	74HC40102	*PC74HC40102T	MULB	DEC CNTR	182- 54
95♦	74HC40102	*PC74HC40102T	PHIN	DEC CNTR	182- 54
96♦	74HC40102	*PC74HC40102T	RTCF	DEC CNTR	182- 54
97♦	74HC40102	*PC74HC40102T	VALG	DEC CNTR	182- 54
98▼	74HC40102	TC74HC40102P(A)	TOSA	DEC CNTR	182- 65
99♦	74HC40103	*74HC40103D	SIC	COUNTER	168- 12
100♦	74HC40103	74HC40103N	SIC	COUNTER	168- 13
101♦	74HC40103	CD74HC40103E	RCA	COUNTER	169- 47
102♦	74HC40103	*CD74HC40103M	RCA	COUNTER	169- 48
103♦	74HC40103	PC74HC40103D(A)	MULB	COUNTER	169- 52
104♦	74HC40103	PC74HC40103D(A)	PHIN	COUNTER	169- 52
105♦	74HC40103	PC74HC40103D(A)	RTCF	COUNTER	169- 52
106♦	74HC40103	PC74HC40103D(A)	VALG	COUNTER	169- 52
107♦	74HC40103	PC74HC40103P	MULB	COUNTER	169- 41
108♦	74HC40103	PC74HC40103P	PHIN	COUNTER	169- 41
109♦	74HC40103	PC74HC40103P	RTCF	COUNTER	169- 41
110♦	74HC40103	PC74HC40103P	VALG	COUNTER	169- 41
111♦	74HC40103	*PC74HC40103T	MULB	COUNTER	169- 42
112♦	74HC40103	*PC74HC40103T	PHIN	COUNTER	169- 42
113♦	74HC40103	*PC74HC40103T	RTCF	COUNTER	169- 42
114♦	74HC40103	*PC74HC40103T	VALG	COUNTER	169- 42
115▼	74HC40103	TC74HC40103P(A)	TOSA	COUNTER	169- 53
116♦	74HCT00	*74HCT00D	SIC	NAND GATE	99- 15
117♦	74HCT00	74HCT00N	SIC	NAND GATE	99- 16
118♦	74HCT00	CD74HCT00E(A)	RCA	NAND GATE	98- 93
119♦	74HCT00	*CD74HCT00M	RCA	NAND GATE	98- 94
120♦	74HCT00	MC74HCT00J	MOTA	NAND GATE	96- 77
121♦	74HCT00	MC74HCT00N(A)	MOTA	NAND GATE	99- 31
122♦	74HCT00	MM74HCT00J(A)	NSC	NAND GATE	96- 92
123♦	74HCT00	MM74HCT00N(A)	NSC	NAND GATE	96- 93
124♦	74HCT00	PC74HCT00D(A)	MULB	NAND GATE	97- 18
125♦	74HCT00	PC74HCT00D(A)	PHIN	NAND GATE	97- 18
126♦	74HCT00	PC74HCT00D(A)	RTCF	NAND GATE	97- 18
127♦	74HCT00	PC74HCT00D(A)	VALG	NAND GATE	97- 18
128♦	74HCT00	PC74HCT00P(A)	MULB	NAND GATE	99- 38
129♦	74HCT00	PC74HCT00P(A)	PHIN	NAND GATE	99- 38
130♦	74HCT00	PC74HCT00P(A)	RTCF	NAND GATE	99- 38
131♦	74HCT00	PC74HCT00P(A)	VALG	NAND GATE	99- 38
132♦	74HCT00	*PC74HCT00T(A)	MULB	NAND GATE	99- 39
133♦	74HCT00	*PC74HCT00T(A)	PHIN	NAND GATE	99- 39
134♦	74HCT00	*PC74HCT00T(A)	RTCF	NAND GATE	99- 39
135♦	74HCT00	*PC74HCT00T(A)	VALG	NAND GATE	99- 39
136♦	74HCT00	US74HCT00N(A)	UNV	NAND GATE	97-100
137	74HCT02	*74HCT02D	SIC	NOR GATE	113-110
138♦	74HCT02	74HCT02N	SIC	NOR GATE	114- 1
139♦	74HCT02	CD74HCT02E	RCA	NOR GATE	113- 89
140♦	74HCT02	*CD74HCT02M	RCA	NOR GATE	113- 90
141♦	74HCT02	PC74HCT02D(A)	MULB	NOR GATE	112-101
142♦	74HCT02	PC74HCT02D(A)	PHIN	NOR GATE	112-101
143♦	74HCT02	PC74HCT02D(A)	RTCF	NOR GATE	112-101
144♦	74HCT02	PC74HCT02D(A)	VALG	NOR GATE	112-101
145♦	74HCT02	PC74HCT02P	MULB	NOR GATE	114- 11
146♦	74HCT02	PC74HCT02P	PHIN	NOR GATE	114- 11
147♦	74HCT02	PC74HCT02P	RTCF	NOR GATE	114- 11
148♦	74HCT02	PC74HCT02P	VALG	NOR GATE	114- 11
149♦	74HCT02	*PC74HCT02T	MULB	NOR GATE	114- 12
150♦	74HCT02	*PC74HCT02T	PHIN	NOR GATE	114- 12
151♦	74HCT02	*PC74HCT02T	RTCF	NOR GATE	114- 12
152♦	74HCT02	*PC74HCT02T	VALG	NOR GATE	114- 12
153♦	74HCT02	US74HCT02N(A)	UNV	NOR GATE	113- 13
154♦	74HCT03	*74HCT03D	SIC	NAND GATE	99- 40
155♦	74HCT03	74HCT03N	SIC	NAND GATE	99- 41
156♦	74HCT03	CD74HCT03E(A)	RCA	NAND GATE	98- 99
157♦	74HCT03	*CD74HCT03M(A)	RCA	NAND GATE	98-100
158♦	74HCT03	PC74HCT03D(A)	MULB	NAND GATE	97- 19
159♦	74HCT03	PC74HCT03D(A)	PHIN	NAND GATE	97- 19
160♦	74HCT03	PC74HCT03D(A)	RTCF	NAND GATE	97- 19
161♦	74HCT03	PC74HCT03D(A)	VALG	NAND GATE	97- 19
162♦	74HCT03	PC74HCT03P	MULB	NAND GATE	99- 81
163♦	74HCT03	PC74HCT03P	PHIN	NAND GATE	99- 81
164♦	74HCT03	PC74HCT03P	RTCF	NAND GATE	99- 81
165♦	74HCT03	PC74HCT03P	VALG	NAND GATE	99- 81
166♦	74HCT03	*PC74HCT03T	MULB	NAND GATE	99- 82
167♦	74HCT03	*PC74HCT03T	PHIN	NAND GATE	99- 82
168♦	74HCT03	*PC74HCT03T	RTCF	NAND GATE	99- 82
169♦	74HCT03	*PC74HCT03T	VALG	NAND GATE	99- 82
170	74HCT08	*74HCT08D	SIC	AND GATE	77-105
171♦	74HCT08	74HCT08N	SIC	AND GATE	77-106
172♦	74HCT08	CD74HCT08E	RCA	AND GATE	77- 86
173♦	74HCT08	*CD74HCT08M	RCA	AND GATE	77- 87
174♦	74HCT08	PC74HCT08D(A)	MULB	AND GATE	76- 84
175♦	74HCT08	PC74HCT08D(A)	PHIN	AND GATE	76- 84
176♦	74HCT08	PC74HCT08D(A)	RTCF	AND GATE	76- 84
177♦	74HCT08	PC74HCT08D(A)	VALG	AND GATE	76- 84
178♦	74HCT08	PC74HCT08P	MULB	AND GATE	78- 43
179♦	74HCT08	PC74HCT08P	PHIN	AND GATE	78- 43
180♦	74HCT08	PC74HCT08P	RTCF	AND GATE	78- 43
181♦	74HCT08	PC74HCT08P	VALG	AND GATE	78- 43
182♦	74HCT08	*PC74HCT08T	MULB	AND GATE	78- 44
183♦	74HCT08	*PC74HCT08T	PHIN	AND GATE	78- 44
184♦	74HCT08	*PC74HCT08T	RTCF	AND GATE	78- 44
185♦	74HCT08	*PC74HCT08T	VALG	AND GATE	78- 44
186♦	74HCT08	US74HCT08N(A)	UNV	AND GATE	77- 5
187	74HCT10	*74HCT10D	SIC	NAND GATE	103- 21
188♦	74HCT10	74HCT10N	SIC	NAND GATE	103- 22
189♦	74HCT10	CD74HCT10E(A)	RCA	NAND GATE	103- 6
190♦	74HCT10	*CD74HCT10M	RCA	NAND GATE	103- 7
191♦	74HCT10	PC74HCT10D(A)	MULB	NAND GATE	102- 71
192♦	74HCT10	PC74HCT10D(A)	PHIN	NAND GATE	102- 71
193♦	74HCT10	PC74HCT10D(A)	RTCF	NAND GATE	102- 71
194♦	74HCT10	PC74HCT10D(A)	VALG	NAND GATE	102- 71
195♦	74HCT10	PC74HCT10P	MULB	NAND GATE	103- 27
196♦	74HCT10	PC74HCT10P	PHIN	NAND GATE	103- 27
197♦	74HCT10	PC74HCT10P	RTCF	NAND GATE	103- 27
198♦	74HCT10	PC74HCT10P	VALG	NAND GATE	103- 27
199♦	74HCT10	*PC74HCT10T	MULB	NAND GATE	103- 28
200♦	74HCT10	*PC74HCT10T	PHIN	NAND GATE	103- 28
201♦	74HCT10	*PC74HCT10T	RTCF	NAND GATE	103- 28
202♦	74HCT10	*PC74HCT10T	VALG	NAND GATE	103- 28
203♦	74HCT10	US74HCT10N(A)	UNV	NAND GATE	102- 40
204	74HCT11	*74HCT11D	SIC	AND GATE	80- 84
205♦	74HCT11	74HCT11N	SIC	AND GATE	80- 85
206♦	74HCT11	CD74HCT11E	RCA	AND GATE	80- 70
207♦	74HCT11	*CD74HCT11M	RCA	AND GATE	80- 71
208♦	74HCT11	PC74HCT11D(A)	MULB	AND GATE	79-106
209♦	74HCT11	PC74HCT11D(A)	PHIN	AND GATE	79-106
210♦	74HCT11	PC74HCT11D(A)	RTCF	AND GATE	79-106
211♦	74HCT11	PC74HCT11D(A)	VALG	AND GATE	79-106
212♦	74HCT11	PC74HCT11P	MULB	AND GATE	80- 94
213♦	74HCT11	PC74HCT11P	PHIN	AND GATE	80- 94
214♦	74HCT11	PC74HCT11P	RTCF	AND GATE	80- 94
215♦	74HCT11	PC74HCT11P	VALG	AND GATE	80- 94
216♦	74HCT11	*PC74HCT11T	MULB	AND GATE	80- 95
217♦	74HCT11	*PC74HCT11T	PHIN	AND GATE	80- 95
218♦	74HCT11	*PC74HCT11T	RTCF	AND GATE	80- 95
219♦	74HCT11	*PC74HCT11T	VALG	AND GATE	80- 95
220♦	74HCT11	US74HCT11N(A)	UNV	AND GATE	80- 32

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1	74HCT20	*74HCT20D	SIC	NAND GATE	106-109
2♦	74HCT20	74HCT20N	SIC	NAND GATE	106-110
3♦	74HCT20	CD74HCT20E	RCA	NAND GATE	107- 3
4♦	74HCT20	*CD74HCT20M	RCA	NAND GATE	107- 4
5♦	74HCT20	PC74HCT20D(A)	MULB	NAND GATE	105- 29
6♦	74HCT20	PC74HCT20D(A)	PHIN	NAND GATE	105- 29
7♦	74HCT20	PC74HCT20D(A)	RTCF	NAND GATE	105- 29
8♦	74HCT20	PC74HCT20D(A)	VALG	NAND GATE	105- 29
9♦	74HCT20	PC74HCT20P	MULB	NAND GATE	107- 55
10♦	74HCT20	PC74HCT20P	PHIN	NAND GATE	107- 55
11♦	74HCT20	PC74HCT20P	RTCF	NAND GATE	107- 55
12♦	74HCT20	PC74HCT20P	VALG	NAND GATE	107- 55
13♦	74HCT20	*PC74HCT20T	MULB	NAND GATE	107- 56
14♦	74HCT20	*PC74HCT20T	PHIN	NAND GATE	107- 56
15♦	74HCT20	*PC74HCT20T	RTCF	NAND GATE	107- 56
16♦	74HCT20	*PC74HCT20T	VALG	NAND GATE	107- 56
17♦	74HCT20	US74HCT20N(A)	UNV	NAND GATE	106-106
18	74HCT21	*74HCT21D	SIC	AND GATE	82- 15
19♦	74HCT21	74HCT21N	SIC	AND GATE	82- 16
20♦	74HCT21	CD74HCT21E	RCA	AND GATE	82- 82
21♦	74HCT21	*CD74HCT21M	RCA	AND GATE	82- 83
22♦	74HCT21	PC74HCT21D(A)	MULB	AND GATE	82- 20
23♦	74HCT21	PC74HCT21D(A)	PHIN	AND GATE	82- 20
24♦	74HCT21	PC74HCT21D(A)	RTCF	AND GATE	82- 20
25♦	74HCT21	PC74HCT21D(A)	VALG	AND GATE	82- 20
26♦	74HCT21	PC74HCT21P	MULB	AND GATE	82-104
27♦	74HCT21	PC74HCT21P	PHIN	AND GATE	82-104
28♦	74HCT21	PC74HCT21P	RTCF	AND GATE	82-104
29♦	74HCT21	PC74HCT21P	VALG	AND GATE	82-104
30♦	74HCT21	*PC74HCT21T	MULB	AND GATE	82- 21
31♦	74HCT21	*PC74HCT21T	PHIN	AND GATE	82- 21
32♦	74HCT21	*PC74HCT21T	RTCF	AND GATE	82- 21
33♦	74HCT21	*PC74HCT21T	VALG	AND GATE	82- 21
34	74HCT27	*74HCT27D	SIC	NOR GATE	116- 41
35♦	74HCT27	74HCT27N	SIC	NOR GATE	116- 42
36♦	74HCT27	CD74HCT27E	RCA	NOR GATE	116- 28
37♦	74HCT27	*CD74HCT27M	RCA	NOR GATE	116- 29
38♦	74HCT27	PC74HCT27D(A)	MULB	NOR GATE	115- 98
39♦	74HCT27	PC74HCT27D(A)	PHIN	NOR GATE	115- 98
40♦	74HCT27	PC74HCT27D(A)	RTCF	NOR GATE	115- 98
41♦	74HCT27	PC74HCT27D(A)	VALG	NOR GATE	115- 98
42♦	74HCT27	PC74HCT27P	MULB	NOR GATE	115- 99
43♦	74HCT27	PC74HCT27P	PHIN	NOR GATE	115- 99
44♦	74HCT27	PC74HCT27P	RTCF	NOR GATE	115- 99
45♦	74HCT27	PC74HCT27P	VALG	NOR GATE	115- 99
46♦	74HCT27	*PC74HCT27T	MULB	NOR GATE	115-100
47♦	74HCT27	*PC74HCT27T	PHIN	NOR GATE	115-100
48♦	74HCT27	*PC74HCT27T	RTCF	NOR GATE	115-100
49♦	74HCT27	*PC74HCT27T	VALG	NOR GATE	115-100
50♦	74HCT27	US74HCT27N(A)	UNV	NOR GATE	116- 4
51	74HCT30	*74HCT30D	SIC	NAND GATE	110- 49
52♦	74HCT30	74HCT30N	SIC	NAND GATE	110- 50
53♦	74HCT30	CD74HCT30E	RCA	NAND GATE	110- 39
54♦	74HCT30	*CD74HCT30M(A)	RCA	NAND GATE	110- 40
55♦	74HCT30	PC74HCT30D(A)	MULB	NAND GATE	109- 67
56♦	74HCT30	PC74HCT30D(A)	PHIN	NAND GATE	109- 67
57♦	74HCT30	PC74HCT30D(A)	RTCF	NAND GATE	109- 67
58♦	74HCT30	PC74HCT30D(A)	VALG	NAND GATE	109- 67
59♦	74HCT30	PC74HCT30P	MULB	NAND GATE	110- 54
60♦	74HCT30	PC74HCT30P	PHIN	NAND GATE	110- 54
61♦	74HCT30	PC74HCT30P	RTCF	NAND GATE	110- 54
62♦	74HCT30	PC74HCT30P	VALG	NAND GATE	110- 54
63♦	74HCT30	*PC74HCT30T	MULB	NAND GATE	110- 55
64♦	74HCT30	*PC74HCT30T	PHIN	NAND GATE	110- 55
65♦	74HCT30	*PC74HCT30T	RTCF	NAND GATE	110- 55
66♦	74HCT30	*PC74HCT30T	VALG	NAND GATE	110- 55
67♦	74HCT30	US74HCT30N(A)	UNV	NAND GATE	110- 41
68	74HCT32	*74HCT32D	SIC	OR GATE	121- 84
69♦	74HCT32	74HCT32N	SIC	OR GATE	121- 85
70♦	74HCT32	CD74HCT32E	RCA	OR GATE	121- 63
71♦	74HCT32	*CD74HCT32M	RCA	OR GATE	121- 64
72♦	74HCT32	PC74HCT32D(A)	MULB	OR GATE	120- 72
73♦	74HCT32	PC74HCT32D(A)	PHIN	OR GATE	120- 72
74♦	74HCT32	PC74HCT32D(A)	RTCF	OR GATE	120- 72
75♦	74HCT32	PC74HCT32D(A)	VALG	OR GATE	120- 72
76♦	74HCT32	PC74HCT32P	MULB	OR GATE	121- 98
77♦	74HCT32	PC74HCT32P	PHIN	OR GATE	121- 98
78♦	74HCT32	PC74HCT32P	RTCF	OR GATE	121- 98
79♦	74HCT32	PC74HCT32P	VALG	OR GATE	121- 98
80♦	74HCT32	*PC74HCT32T	MULB	OR GATE	121- 99
81♦	74HCT32	*PC74HCT32T	PHIN	OR GATE	121- 99
82♦	74HCT32	*PC74HCT32T	RTCF	OR GATE	121- 99
83♦	74HCT32	*PC74HCT32T	VALG	OR GATE	121- 99
84♦	74HCT32	US74HCT32N(A)	UNV	OR GATE	120- 90
85	74HCT42	*74HCT42D	SIC	DECODER	125- 54
86♦	74HCT42	74HCT42N	SIC	DECODER	125- 55
87	74HCT42	CD74HCT42E	RCA	DECODER	126- 59
88	74HCT42	*CD74HCT42M	RCA	DECODER	126- 60
89♦	74HCT42	PC74HCT42D(A)	MULB	DECODER	127- 56
90♦	74HCT42	PC74HCT42D(A)	PHIN	DECODER	127- 56
91♦	74HCT42	PC74HCT42D(A)	RTCF	DECODER	127- 56
92♦	74HCT42	PC74HCT42D(A)	VALG	DECODER	127- 56
93♦	74HCT42	PC74HCT42P	MULB	DECODER	127- 57
94♦	74HCT42	PC74HCT42P	PHIN	DECODER	127- 57
95♦	74HCT42	PC74HCT42P	RTCF	DECODER	127- 57
96♦	74HCT42	PC74HCT42P	VALG	DECODER	127- 57
97	74HCT42	*PC74HCT42T	MULB	DECODER	127- 58
98	74HCT42	*PC74HCT42T	PHIN	DECODER	127- 58
99	74HCT42	*PC74HCT42T	RTCF	DECODER	127- 58
100	74HCT42	*PC74HCT42T	VALG	DECODER	127- 58
101♦	74HCT58	*74HCT58D	SIC	AND-OR GTE	85- 19
102♦	74HCT58	74HCT58N	SIC	AND-OR GTE	85- 20
103	74HCT73	*74HCT73D	SIC	JK FL-FLOP	68-103
104♦	74HCT73	74HCT73N	SIC	JK FL-FLOP	68-104
105♦	74HCT73	CD74HCT73E	RCA	JK FL-FLOP	73- 39
106♦	74HCT73	*CD74HCT73M(A)	RCA	JK FL-FLOP	73- 40
107♦	74HCT73	PC74HCT73D(A)	MULB	JK FL-FLOP	68- 38
108♦	74HCT73	PC74HCT73D(A)	PHIN	JK FL-FLOP	68- 38
109♦	74HCT73	PC74HCT73D(A)	RTCF	JK FL-FLOP	68- 38
110♦	74HCT73	PC74HCT73D(A)	VALG	JK FL-FLOP	68- 38
111♦	74HCT73	PC74HCT73P	MULB	JK FL-FLOP	68- 39
112♦	74HCT73	PC74HCT73P	PHIN	JK FL-FLOP	68- 39
113♦	74HCT73	PC74HCT73P	RTCF	JK FL-FLOP	68- 39
114♦	74HCT73	PC74HCT73P	VALG	JK FL-FLOP	68- 39
115	74HCT73	*PC74HCT73T	MULB	JK FL-FLOP	68- 40
116	74HCT73	*PC74HCT73T	PHIN	JK FL-FLOP	68- 40
117	74HCT73	*PC74HCT73T	RTCF	JK FL-FLOP	68- 40
118	74HCT73	*PC74HCT73T	VALG	JK FL-FLOP	68- 40
119♦	74HCT73	US74HCT73N(A)	UNV	JK FL-FLOP	71- 26
120	74HCT74	*74HCT74D	SIC	D FL-FLOP	51- 44
121♦	74HCT74	74HCT74N	SIC	D FL-FLOP	51- 45
122♦	74HCT74	CD74HCT74E	RCA	D FL-FLOP	52- 54
123♦	74HCT74	*CD74HCT74M	RCA	D FL-FLOP	52- 55
124♦	74HCT74	MM74HCT74J(A)	NSC	D FL-FLOP	51- 41
125♦	74HCT74	MM74HCT74N(A)	NSC	D FL-FLOP	51- 42
126♦	74HCT74	PC74HCT74D(A)	MULB	D FL-FLOP	51- 36
127♦	74HCT74	PC74HCT74D(A)	PHIN	D FL-FLOP	51- 36
128♦	74HCT74	PC74HCT74D(A)	RTCF	D FL-FLOP	51- 36
129♦	74HCT74	PC74HCT74D(A)	VALG	D FL-FLOP	51- 36
130♦	74HCT74	PC74HCT74P	MULB	D FL-FLOP	51- 37
131♦	74HCT74	PC74HCT74P	PHIN	D FL-FLOP	51- 37
132♦	74HCT74	PC74HCT74P	RTCF	D FL-FLOP	51- 37
133♦	74HCT74	PC74HCT74P	VALG	D FL-FLOP	51- 37
134	74HCT74	*PC74HCT74T	MULB	D FL-FLOP	51- 29
135	74HCT74	*PC74HCT74T	PHIN	D FL-FLOP	51- 29
136	74HCT74	*PC74HCT74T	RTCF	D FL-FLOP	51- 29
137	74HCT74	*PC74HCT74T	VALG	D FL-FLOP	51- 29
138♦	74HCT74	US74HCT74N(A)	UNV	D FL-FLOP	52- 4
139	74HCT75	*74HCT75D	SIC	4-BIT LCH	231- 87
140♦	74HCT75	74HCT75N	SIC	4-BIT LCH	231- 88
141♦	74HCT75	CD74HCT75E(A)	RCA	2-BIT LCH	229- 86
142♦	74HCT75	*CD74HCT75M(A)	RCA	2-BIT LCH	229- 87
143♦	74HCT75	PC74HCT75D(A)	MULB	4-BIT LCH	231-102
144♦	74HCT75	PC74HCT75D(A)	PHIN	4-BIT LCH	231-102
145♦	74HCT75	PC74HCT75D(A)	RTCF	4-BIT LCH	231-102
146♦	74HCT75	PC74HCT75D(A)	VALG	4-BIT LCH	231-102
147♦	74HCT75	PC74HCT75P	PHIN	4-BIT LCH	232- 1
148♦	74HCT75	PC74HCT75P	RTCF	4-BIT LCH	232- 1
149♦	74HCT75	PC74HCT75P	VALG	4-BIT LCH	232- 1
150♦	74HCT75	*PC74HCT75T	MULB	4-BIT LCH	232- 2
151♦	74HCT75	*PC74HCT75T	PHIN	4-BIT LCH	232- 2
152♦	74HCT75	*PC74HCT75T	RTCF	4-BIT LCH	232- 2
153♦	74HCT75	*PC74HCT75T	VALG	4-BIT LCH	232- 2
154♦	74HCT76	US74HCT76N(A)	UNV	JK FL-FLOP	71- 27
155	74HCT85	*74HCT85D	SIC	MAGN COMP	217- 20
156♦	74HCT85	74HCT85N	SIC	MAGN COMP	217- 21
157	74HCT85	CD74HCT85E	RCA	MAGN COMP	216-110
158	74HCT85	CD74HCT85M	RCA	MAGN COMP	217- 1
159♦	74HCT85	PC74HCT85D(A)	MULB	MAGN COMP	217- 40
160♦	74HCT85	PC74HCT85D(A)	PHIN	MAGN COMP	217- 40
161♦	74HCT85	PC74HCT85D(A)	RTCF	MAGN COMP	217- 40
162♦	74HCT85	PC74HCT85D(A)	VALG	MAGN COMP	217- 40
163♦	74HCT85	PC74HCT85P	MULB	MAGN COMP	217- 41
164♦	74HCT85	PC74HCT85P	PHIN	MAGN COMP	217- 41
165♦	74HCT85	PC74HCT85P	RTCF	MAGN COMP	217- 41
166♦	74HCT85	PC74HCT85P	VALG	MAGN COMP	217- 41
167	74HCT85	*PC74HCT85T	MULB	MAGN COMP	217- 42
168	74HCT85	*PC74HCT85T	PHIN	MAGN COMP	217- 42
169	74HCT85	*PC74HCT85T	RTCF	MAGN COMP	217- 42
170	74HCT85	*PC74HCT85T	VALG	MAGN COMP	217- 42
171♦	74HCT86	*74HCT86D	SIC	EX-OR GATE	94- 13
172♦	74HCT86	74HCT86N	SIC	EX-OR GATE	94- 14
173♦	74HCT86	CD74HCT86E	RCA	EX-OR GATE	91- 65
174♦	74HCT86	*CD74HCT86M	RCA	EX-OR GATE	94- 15
175♦	74HCT86	PC74HCT86D(A)	PHIN	EX-OR GATE	92- 69
176♦	74HCT86	PC74HCT86D(A)	RTCF	EX-OR GATE	92- 69
177♦	74HCT86	PC74HCT86D(A)	VALG	EX-OR GATE	92- 69
178♦	74HCT86	PC74HCT86P	PHIN	EX-OR GATE	94- 20
179♦	74HCT86	PC74HCT86P	RTCF	EX-OR GATE	94- 20
180♦	74HCT86	PC74HCT86P	VALG	EX-OR GATE	94- 20
181♦	74HCT86	*PC74HCT86T	PHIN	EX-OR GATE	94- 21
182♦	74HCT86	*PC74HCT86T	RTCF	EX-OR GATE	94- 21
183♦	74HCT86	*PC74HCT86T	VALG	EX-OR GATE	94- 21
184♦	74HCT86	US74HCT86N(A)	UNV	EX-OR GATE	92- 97
185♦	74HCT93	*74HCT93D	SIC	HEX CNTR	156- 60
186♦	74HCT93	74HCT93N	SIC	HEX CNTR	156- 61
187♦	74HCT93	CD74HCT93E(A)	RCA	HEX CNTR	154- 21
188♦	74HCT93	*CD74HCT93M(A)	RCA	HEX CNTR	154- 22
189♦	74HCT93	PC74HCT93D(A)	MULB	HEX CNTR	158- 48
190♦	74HCT93	PC74HCT93D(A)	PHIN	HEX CNTR	158- 48
191♦	74HCT93	PC74HCT93D(A)	RTCF	HEX CNTR	158- 48
192♦	74HCT93	PC74HCT93D(A)	VALG	HEX CNTR	158- 48
193♦	74HCT93	PC74HCT93P(A)	MULB	HEX CNTR	156- 30
194♦	74HCT93	PC74HCT93P(A)	PHIN	HEX CNTR	156- 30
195♦	74HCT93	PC74HCT93P(A)	RTCF	HEX CNTR	156- 30
196♦	74HCT93	PC74HCT93P(A)	VALG	HEX CNTR	156- 30
197♦	74HCT93	*PC74HCT93T(A)	MULB	HEX CNTR	156- 31
198♦	74HCT93	*PC74HCT93T(A)	PHIN	HEX CNTR	156- 31
199♦	74HCT93	*PC74HCT93T(A)	RTCF	HEX CNTR	156- 31
200♦	74HCT93	*PC74HCT93T(A)	VALG	HEX CNTR	156- 31
201	74HCT107	*74HCT107D	SIC	JK FL-FLOP	69- 5
202♦	74HCT107	74HCT107N	SIC	JK FL-FLOP	69- 6
203♦	74HCT107	CD74HCT107E	RCA	JK FL-FLOP	73- 41
204♦	74HCT107	*CD74HCT107M	RCA	JK FL-FLOP	73- 42
205♦	74HCT107	PC74HCT107D(A)	MULB	JK FL-FLOP	68- 29
206♦	74HCT107	PC74HCT107D(A)	PHIN	JK FL-FLOP	68- 29
207♦	74HCT107	PC74HCT107D(A)	RTCF	JK FL-FLOP	68- 29
208♦	74HCT107	PC74HCT107D(A)	VALG	JK FL-FLOP	68- 29
209♦	74HCT107	PC74HCT107P	MULB	JK FL-FLOP	68- 30
210♦	74HCT107	PC74HCT107P	PHIN	JK FL-FLOP	68- 30
211♦	74HCT107	PC74HCT107P	RTCF	JK FL-FLOP	68- 30
212♦	74HCT107	PC74HCT107P	VALG	JK FL-FLOP	68- 30
213	74HCT107	*PC74HCT107T	MULB	JK FL-FLOP	68- 71
214	74HCT107	*PC74HCT107T	PHIN	JK FL-FLOP	68- 71
215	74HCT107	*PC74HCT107T	RTCF	JK FL-FLOP	68- 71
216	74HCT107	*PC74HCT107T	VALG	JK FL-FLOP	68- 71
217♦	74HCT107	US74HCT107N(A)	UNV	JK FL-FLOP	71- 28
218	74HCT109	*74HCT109D	SIC	JK FL-FLOP	68-105
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4♦	74HCT109	PC74HCT109D(A)	MULB	JK FL-FLOP	69- 4
5♦	74HCT109	PC74HCT109D(A)	PHIN	JK FL-FLOP	69- 4
6♦	74HCT109	PC74HCT109D(A)	RTCF	JK FL-FLOP	69- 4
7♦	74HCT109	PC74HCT109D(A)	VALG	JK FL-FLOP	69- 4
8♦	74HCT109	PC74HCT109P	MULB	JK FL-FLOP	68- 41
9♦	74HCT109	PC74HCT109P	PHIN	JK FL-FLOP	68- 41
10♦	74HCT109	PC74HCT109P	RTCF	JK FL-FLOP	68- 41
11♦	74HCT109	PC74HCT109P	VALG	JK FL-FLOP	68- 41
12	74HCT109	*PC74HCT109T	MULB	JK FL-FLOP	68- 42
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18♦	74HCT112	CD74HCT112E	RCA	JK FL-FLOP	73- 45
19♦	74HCT112	CD74HCT112M	RCA	JK FL-FLOP	73- 46
20♦	74HCT112	PC74HCT112D(A)	MULB	JK FL-FLOP	72- 98
21♦	74HCT112	PC74HCT112D(A)	PHIN	JK FL-FLOP	72- 98
22♦	74HCT112	PC74HCT112D(A)	RTCF	JK FL-FLOP	72- 98
23♦	74HCT112	PC74HCT112D(A)	VALG	JK FL-FLOP	72- 98
24♦	74HCT112	PC74HCT112P	MULB	JK FL-FLOP	68- 43
25♦	74HCT112	PC74HCT112P	PHIN	JK FL-FLOP	68- 43
26♦	74HCT112	PC74HCT112P	RTCF	JK FL-FLOP	68- 43
27♦	74HCT112	PC74HCT112P	VALG	JK FL-FLOP	68- 43
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29	74HCT112	*PC74HCT112T	PHIN	JK FL-FLOP	68- 44
30	74HCT112	*PC74HCT112T	RTCF	JK FL-FLOP	68- 44
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35	74HCT123	*CD74HCT123M(A)	RCA	CLOCK/MV	189- 83
36♦	74HCT123	PC74HCT123D(A)	MULB	CLOCK/MV	191- 24
37♦	74HCT123	PC74HCT123D(A)	PHIN	CLOCK/MV	191- 24
38♦	74HCT123	PC74HCT123D(A)	RTCF	CLOCK/MV	191- 24
39♦	74HCT123	PC74HCT123D(A)	VALG	CLOCK/MV	191- 24
40♦	74HCT123	PC74HCT123P	MULB	CLOCK/MV	191- 25
41♦	74HCT123	PC74HCT123P	PHIN	CLOCK/MV	191- 25
42♦	74HCT123	PC74HCT123P	RTCF	CLOCK/MV	191- 25
43♦	74HCT123	PC74HCT123P	VALG	CLOCK/MV	191- 25
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50♦	74HCT160	74HCT160N	SIC	DEC CNTR	173- 62
51♦	74HCT160	CD74HCT160E	RCA	DEC CNTR	173-107
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53♦	74HCT160	PC74HCT160D(A)	MULB	DEC CNTR	175- 68
54♦	74HCT160	PC74HCT160D(A)	PHIN	DEC CNTR	175- 68
55♦	74HCT160	PC74HCT160D(A)	RTCF	DEC CNTR	175- 68
56♦	74HCT160	PC74HCT160D(A)	VALG	DEC CNTR	175- 68
57♦	74HCT160	PC74HCT160P	MULB	DEC CNTR	173- 43
58♦	74HCT160	PC74HCT160P	PHIN	DEC CNTR	173- 43
59♦	74HCT160	PC74HCT160P	RTCF	DEC CNTR	173- 43
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61♦	74HCT160	*PC74HCT160T	MULB	DEC CNTR	173- 44
62♦	74HCT160	*PC74HCT160T	PHIN	DEC CNTR	173- 44
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66♦	74HCT161	74HCT161N	SIC	HEX CNTR	155- 80
67♦	74HCT161	CD74HCT161E	RCA	HEX CNTR	155-102
68♦	74HCT161	*CD74HCT161M	RCA	HEX CNTR	155-103
69♦	74HCT161	PC74HCT161D(A)	MULB	HEX CNTR	157-100
70♦	74HCT161	PC74HCT161D(A)	PHIN	HEX CNTR	157-100
71♦	74HCT161	PC74HCT161D(A)	RTCF	HEX CNTR	157-100
72♦	74HCT161	PC74HCT161D(A)	VALG	HEX CNTR	157-100
73♦	74HCT161	PC74HCT161P	MULB	HEX CNTR	155- 64
74♦	74HCT161	PC74HCT161P	PHIN	HEX CNTR	155- 64
75♦	74HCT161	PC74HCT161P	RTCF	HEX CNTR	155- 64
76♦	74HCT161	PC74HCT161P	VALG	HEX CNTR	155- 64
77♦	74HCT161	*PC74HCT161T	MULB	HEX CNTR	155- 65
78♦	74HCT161	*PC74HCT161T	PHIN	HEX CNTR	155- 65
79♦	74HCT161	*PC74HCT161T	RTCF	HEX CNTR	155- 65
80♦	74HCT161	*PC74HCT161T	VALG	HEX CNTR	155- 65
81♦	74HCT162	*74HCT162D	SIC	DEC CNTR	174- 21
82♦	74HCT162	74HCT162N	SIC	DEC CNTR	174- 22
83♦	74HCT162	CD74HCT162E	RCA	DEC CNTR	173-109
84♦	74HCT162	*CD74HCT162M	RCA	DEC CNTR	173-110
85♦	74HCT162	PC74HCT162D(A)	MULB	DEC CNTR	175- 69
86♦	74HCT162	PC74HCT162D(A)	PHIN	DEC CNTR	175- 69
87♦	74HCT162	PC74HCT162D(A)	VALG	DEC CNTR	175- 69
88♦	74HCT162	PC74HCT162P	MULB	DEC CNTR	174- 15
89♦	74HCT162	PC74HCT162P	PHIN	DEC CNTR	174- 15
90♦	74HCT162	*PC74HCT162T	MULB	DEC CNTR	174- 16
91♦	74HCT162	*PC74HCT162T	PHIN	DEC CNTR	174- 16
92♦	74HCT162	*PC74HCT162T	VALG	DEC CNTR	174- 16
93♦	74HCT163	*74HCT163D	SIC	HEX CNTR	156- 40
94♦	74HCT163	74HCT163N	SIC	HEX CNTR	156- 41
95♦	74HCT163	CD74HCT163E	RCA	HEX CNTR	155-104
96♦	74HCT163	*CD74HCT163M	RCA	HEX CNTR	155-105
97♦	74HCT163	PC74HCT163D(A)	MULB	HEX CNTR	157-101
98♦	74HCT163	PC74HCT163D(A)	PHIN	HEX CNTR	157-101
99♦	74HCT163	PC74HCT163D(A)	RTCF	HEX CNTR	157-101
100♦	74HCT163	PC74HCT163D(A)	VALG	HEX CNTR	157-101
101♦	74HCT163	PC74HCT163P	MULB	HEX CNTR	155- 74
102♦	74HCT163	PC74HCT163P	PHIN	HEX CNTR	155- 74
103♦	74HCT163	PC74HCT163P	RTCF	HEX CNTR	155- 74
104♦	74HCT163	PC74HCT163P	VALG	HEX CNTR	155- 74
105♦	74HCT163	*PC74HCT163T	MULB	HEX CNTR	155- 75
106♦	74HCT163	*PC74HCT163T	PHIN	HEX CNTR	155- 75
107♦	74HCT163	*PC74HCT163T	RTCF	HEX CNTR	155- 75
108♦	74HCT163	*PC74HCT163T	VALG	HEX CNTR	155- 75
109	74HCT173	*74HCT173D	SIC	D FL-FLOP	54- 33
110♦	74HCT173	74HCT173N	SIC	D FL-FLOP	54- 34
111♦	74HCT173	CD74HCT173E	RCA	D FL-FLOP	55- 61
112♦	74HCT173	CD74HCT173M	RCA	D FL-FLOP	55- 62
113♦	74HCT173	PC74HCT173D(A)	MULB	D FL-FLOP	55- 46
114♦	74HCT173	PC74HCT173D(A)	PHIN	D FL-FLOP	55- 46
115♦	74HCT173	PC74HCT173D(A)	RTCF	D FL-FLOP	55- 46
116♦	74HCT173	PC74HCT173D(A)	VALG	D FL-FLOP	55- 46
117♦	74HCT173	PC74HCT173P	MULB	D FL-FLOP	54- 28
118♦	74HCT173	PC74HCT173P	PHIN	D FL-FLOP	54- 28
119♦	74HCT173	PC74HCT173P	RTCF	D FL-FLOP	54- 28
120♦	74HCT173	PC74HCT173P	VALG	D FL-FLOP	54- 28
121	74HCT173	*PC74HCT173T	MULB	D FL-FLOP	54- 29
122	74HCT173	*PC74HCT173T	PHIN	D FL-FLOP	54- 29
123	74HCT173	*PC74HCT173T	RTCF	D FL-FLOP	54- 29
124	74HCT173	*PC74HCT173T	VALG	D FL-FLOP	54- 29
125	74HCT174	*74HCT174D	SIC	D FL-FLOP	56- 36
126♦	74HCT174	74HCT174N	SIC	D FL-FLOP	56- 37
127♦	74HCT174	CD74HCT174E	RCA	D FL-FLOP	56- 55
128♦	74HCT174	CD74HCT174M	RCA	D FL-FLOP	56- 56
129♦	74HCT174	PC74HCT174D(A)	MULB	D FL-FLOP	57- 7
130♦	74HCT174	PC74HCT174D(A)	PHIN	D FL-FLOP	57- 7
131♦	74HCT174	PC74HCT174D(A)	RTCF	D FL-FLOP	57- 7
132♦	74HCT174	PC74HCT174D(A)	VALG	D FL-FLOP	57- 7
133♦	74HCT174	PC74HCT174P	MULB	D FL-FLOP	56- 29
134♦	74HCT174	PC74HCT174P	PHIN	D FL-FLOP	56- 29
135♦	74HCT174	PC74HCT174P	RTCF	D FL-FLOP	56- 29
136♦	74HCT174	PC74HCT174P	VALG	D FL-FLOP	56- 29
137	74HCT174	*PC74HCT174T	MULB	D FL-FLOP	56- 30
138	74HCT174	*PC74HCT174T	PHIN	D FL-FLOP	56- 30
139	74HCT174	*PC74HCT174T	RTCF	D FL-FLOP	56- 30
140	74HCT174	*PC74HCT174T	VALG	D FL-FLOP	56- 30
141	74HCT175	*74HCT175D	SIC	D FL-FLOP	54- 35
142♦	74HCT175	74HCT175N	SIC	D FL-FLOP	54- 36
143♦	74HCT175	CD74HCT175E	RCA	D FL-FLOP	54- 85
144♦	74HCT175	CD74HCT175M	RCA	D FL-FLOP	54- 86
145♦	74HCT175	PC74HCT175D(A)	MULB	D FL-FLOP	54- 42
146♦	74HCT175	PC74HCT175D(A)	PHIN	D FL-FLOP	54- 42
147♦	74HCT175	PC74HCT175D(A)	RTCF	D FL-FLOP	54- 42
148♦	74HCT175	PC74HCT175D(A)	VALG	D FL-FLOP	54- 42
149♦	74HCT175	PC74HCT175P	MULB	D FL-FLOP	54- 43
150♦	74HCT175	PC74HCT175P	PHIN	D FL-FLOP	54- 43
151♦	74HCT175	PC74HCT175P	RTCF	D FL-FLOP	54- 43
152♦	74HCT175	PC74HCT175P	VALG	D FL-FLOP	54- 43
153	74HCT175	*PC74HCT175T	MULB	D FL-FLOP	54- 30
154	74HCT175	*PC74HCT175T	PHIN	D FL-FLOP	54- 30
155	74HCT175	*PC74HCT175T	RTCF	D FL-FLOP	54- 30
156	74HCT175	*PC74HCT175T	VALG	D FL-FLOP	54- 30
157	74HCT181	*74HCT181D	SIC	4-BIT ALU	222- 5
158♦	74HCT181	74HCT181N	SIC	4-BIT ALU	222- 6
159	74HCT181	CD74HCT181E(A)	RCA	4-BIT ALU	221- 16
160	74HCT181	*CD74HCT181M(A)	RCA	4-BIT ALU	221- 17
161♦	74HCT181	PC74HCT181D(A)	MULB	4-BIT ALU	222- 10
162♦	74HCT181	PC74HCT181D(A)	PHIN	4-BIT ALU	222- 10
163♦	74HCT181	PC74HCT181D(A)	RTCF	4-BIT ALU	222- 10
164♦	74HCT181	PC74HCT181D(A)	VALG	4-BIT ALU	222- 10
165♦	74HCT181	PC74HCT181P	MULB	4-BIT ALU	222- 11
166♦	74HCT181	PC74HCT181P	PHIN	4-BIT ALU	222- 11
167♦	74HCT181	PC74HCT181P	RTCF	4-BIT ALU	222- 11
168♦	74HCT181	PC74HCT181P	VALG	4-BIT ALU	222- 11
169	74HCT181	*PC74HCT181T	MULB	4-BIT ALU	222- 12
170	74HCT181	*PC74HCT181T	PHIN	4-BIT ALU	222- 12
171	74HCT181	*PC74HCT181T	RTCF	4-BIT ALU	222- 12
172	74HCT181	*PC74HCT181T	VALG	4-BIT ALU	222- 12
173	74HCT182	*74HCT182D	SIC	PARITY GEN	225- 63
174♦	74HCT182	74HCT182N	SIC	PARITY GEN	225- 64
175	74HCT182	CD74HCT182E(A)	RCA	PARITY GEN	225- 27
176	74HCT182	*CD74HCT182M(A)	RCA	PARITY GEN	225- 28
177♦	74HCT182	PC74HCT182D(A)	MULB	PARITY GEN	225- 46
178♦	74HCT182	PC74HCT182D(A)	PHIN	PARITY GEN	225- 46
179♦	74HCT182	PC74HCT182D(A)	RTCF	PARITY GEN	225- 46
180♦	74HCT182	PC74HCT182D(A)	VALG	PARITY GEN	225- 46
181♦	74HCT182	PC74HCT182P	MULB	PARITY GEN	225- 56
182♦	74HCT182	PC74HCT182P	PHIN	PARITY GEN	225- 56
183♦	74HCT182	PC74HCT182P	RTCF	PARITY GEN	225- 56
184♦	74HCT182	PC74HCT182P	VALG	PARITY GEN	225- 56
185	74HCT182	*PC74HCT182T	MULB	PARITY GEN	225- 57
186	74HCT182	*PC74HCT182T	PHIN	PARITY GEN	225- 57
187	74HCT182	*PC74HCT182T	RTCF	PARITY GEN	225- 57
188	74HCT182	*PC74HCT182T	VALG	PARITY GEN	225- 57
189♦	74HCT190	*74HCT190D	SIC	DEC CNTR	178- 12
190♦	74HCT190	74HCT190N	SIC	DEC CNTR	178- 13
191♦	74HCT190	CD74HCT190E	RCA	DEC CNTR	178- 33
192♦	74HCT190	*CD74HCT190M	RCA	DEC CNTR	178- 34
193♦	74HCT190	PC74HCT190D(A)	MULB	DEC CNTR	180- 13
194♦	74HCT190	PC74HCT190D(A)	PHIN	DEC CNTR	180- 13
195♦	74HCT190	PC74HCT190D(A)	RTCF	DEC CNTR	180- 13
196♦	74HCT190	PC74HCT190D(A)	VALG	DEC CNTR	180- 13
197♦	74HCT190	PC74HCT190P	MULB	DEC CNTR	178- 4
198♦	74HCT190	PC74HCT190P	PHIN	DEC CNTR	178- 4
199♦	74HCT190	PC74HCT190P	RTCF	DEC CNTR	178- 4
200♦	74HCT190	PC74HCT190P	VALG	DEC CNTR	178- 4
201♦	74HCT190	*PC74HCT190T	MULB	DEC CNTR	178- 5
202♦	74HCT190	*PC74HCT190T	PHIN	DEC CNTR	178- 5
203♦	74HCT190	*PC74HCT190T	RTCF	DEC CNTR	178- 5
204♦	74HCT190	*PC74HCT190T	VALG	DEC CNTR	178- 5
205♦	74HCT191	*74HCT191D	SIC	HEX CNTR	161- 27
206♦	74HCT191	74HCT191N	SIC	HEX CNTR	161- 28
207♦	74HCT191	CD74HCT191E	RCA	HEX CNTR	161- 35
208♦	74HCT191	*CD74HCT191M	RCA	HEX CNTR	161- 36
209♦	74HCT191	PC74HCT191D(A)	MULB	HEX CNTR	163- 36
210♦	74HCT191	PC74HCT191D(A)	PHIN	HEX CNTR	163- 36
211♦	74HCT191	PC74HCT191D(A)	RTCF	HEX CNTR	163- 36
212♦	74HCT191	PC74HCT191D(A)	VALG	HEX CNTR	163- 36
213♦	74HCT191	PC74HCT191P	MULB	HEX CNTR	161- 14
214♦	74HCT191	PC74HCT191P	PHIN	HEX CNTR	161- 14
215♦	74HCT191	PC74HCT191P	RTCF	HEX CNTR	161- 14
216♦	74HCT191	PC74HCT191P	VALG	HEX CNTR	161- 14
217♦	74HCT191	*PC74HCT191T	MULB	HEX CNTR	161- 15
218♦	74HCT191	*PC74HCT191T	PHIN	HEX CNTR	161- 15
219♦	74HCT191	*PC74HCT191T	RTCF	HEX CNTR	161- 15
220♦	74HCT191	*PC74HCT191T	VALG	HEX CNTR	161- 15

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2♦	74HCT192	74HCT192N	SIC	DEC CNTR	178- 95
3♦	74HCT192	CD74HCT192E	RCA	DEC CNTR	178- 35
4♦	74HCT192	*CD74HCT192M	RCA	DEC CNTR	178- 36
5♦	74HCT192	PC74HCT192P	MULB	DEC CNTR	179- 74
6♦	74HCT192	PC74HCT192P	PHIN	DEC CNTR	179- 74
7♦	74HCT192	PC74HCT192P	RTCF	DEC CNTR	179- 74
8♦	74HCT192	PC74HCT192P	VALG	DEC CNTR	179- 74
9♦	74HCT192	*PC74HCT192T	MULB	DEC CNTR	179- 75
10♦	74HCT192	*PC74HCT192T	PHIN	DEC CNTR	179- 75
11♦	74HCT192	*PC74HCT192T	RTCF	DEC CNTR	179- 75
12♦	74HCT192	*PC74HCT192T	VALG	DEC CNTR	179- 75
13♦	74HCT193	*74HCT193D	SIC	HEX CNTR	161- 29
14♦	74HCT193	74HCT193N	SIC	HEX CNTR	161- 30
15♦	74HCT193	CD74HCT193E	RCA	HEX CNTR	161- 37
16♦	74HCT193	*CD74HCT193M	RCA	HEX CNTR	161- 38
17♦	74HCT193	PC74HCT193D(A)	MULB	HEX CNTR	163- 37
18♦	74HCT193	PC74HCT193D(A)	PHIN	HEX CNTR	163- 37
19♦	74HCT193	PC74HCT193D(A)	RTCF	HEX CNTR	163- 37
20♦	74HCT193	PC74HCT193D(A)	VALG	HEX CNTR	163- 37
21♦	74HCT193	PC74HCT193P	MULB	HEX CNTR	161- 16
22♦	74HCT193	PC74HCT193P	PHIN	HEX CNTR	161- 16
23♦	74HCT193	PC74HCT193P	RTCF	HEX CNTR	161- 16
24♦	74HCT193	PC74HCT193P	VALG	HEX CNTR	161- 16
25♦	74HCT193	*PC74HCT193T	MULB	HEX CNTR	161- 17
26♦	74HCT193	*PC74HCT193T	PHIN	HEX CNTR	161- 17
27♦	74HCT193	*PC74HCT193T	RTCF	HEX CNTR	161- 17
28♦	74HCT193	*PC74HCT193T	VALG	HEX CNTR	161- 17
29	74HCT221	*74HCT221D	SIC	CLOCK/MV	189- 29
30♦	74HCT221	74HCT221N	SIC	CLOCK/MV	189- 30
31	74HCT221	CD74HCT221E	RCA	CLOCK/MV	189- 84
32	74HCT221	*CD74HCT221M	RCA	CLOCK/MV	189- 85
33♦	74HCT221	PC74HCT221D(A)	MULB	CLOCK/MV	191- 27
34♦	74HCT221	PC74HCT221D(A)	PHIN	CLOCK/MV	191- 27
35♦	74HCT221	PC74HCT221D(A)	RTCF	CLOCK/MV	191- 27
36♦	74HCT221	PC74HCT221D(A)	VALG	CLOCK/MV	191- 27
37♦	74HCT221	PC74HCT221P	MULB	CLOCK/MV	191- 28
38♦	74HCT221	PC74HCT221P	PHIN	CLOCK/MV	191- 28
39♦	74HCT221	PC74HCT221P	RTCF	CLOCK/MV	191- 28
40♦	74HCT221	PC74HCT221P	VALG	CLOCK/MV	191- 28
41	74HCT221	*PC74HCT221T	MULB	CLOCK/MV	191- 29
42	74HCT221	*PC74HCT221T	PHIN	CLOCK/MV	191- 29
43	74HCT221	*PC74HCT221T	RTCF	CLOCK/MV	191- 29
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45♦	74HCT238	CD74HCT238E(2)	RCA	DECODER	125- 12
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47♦	74HCT259	74HCT259N	SIC	8-BIT LCH	240- 43
48♦	74HCT259	CD74HCT259E	RCA	8-BIT LCH	241- 49
49♦	74HCT259	CD74HCT259M	RCA	8-BIT LCH	239- 41
50♦	74HCT259	PC74HCT259D(A)	MULB	8-BIT LCH	240- 53
51♦	74HCT259	PC74HCT259D(A)	PHIN	8-BIT LCH	240- 53
52♦	74HCT259	PC74HCT259D(A)	RTCF	8-BIT LCH	240- 53
53♦	74HCT259	PC74HCT259D(A)	VALG	8-BIT LCH	240- 53
54♦	74HCT259	PC74HCT259P	MULB	8-BIT LCH	240- 61
55♦	74HCT259	PC74HCT259P	PHIN	8-BIT LCH	240- 61
56♦	74HCT259	PC74HCT259P	RTCF	8-BIT LCH	240- 61
57♦	74HCT259	PC74HCT259P	VALG	8-BIT LCH	240- 61
58♦	74HCT259	*PC74HCT259T(A)	MULB	8-BIT LCH	240- 62
59♦	74HCT259	*PC74HCT259T(A)	PHIN	8-BIT LCH	240- 62
60♦	74HCT259	*PC74HCT259T(A)	RTCF	8-BIT LCH	240- 62
61♦	74HCT259	*PC74HCT259T(A)	VALG	8-BIT LCH	240- 62
62♦	74HCT266	US74HCT266N(A)	UNV	EXNOR GATE	90- 59
63♦	74HCT273	74HCT273C(A)	STX	D FL-FLOP	57- 77
64	74HCT273	*74HCT273D(A)	SIC	D FL-FLOP	58- 98
65	74HCT273	*74HCT273D(A)	STX	D FL-FLOP	58- 98
66♦	74HCT273	74HCT273N(A)	SIC	D FL-FLOP	58- 99
67♦	74HCT273	74HCT273N(A)	STX	D FL-FLOP	58- 99
68♦	74HCT273	74HCT273P(A)	STX	D FL-FLOP	57- 78
69♦	74HCT273	CD74HCT273E	RCA	D FL-FLOP	59- 42
70	74HCT273	*CD74HCT273M	RCA	D FL-FLOP	60- 39
71♦	74HCT273	PC74HCT273P	MULB	D FL-FLOP	58- 96
72♦	74HCT273	PC74HCT273P	PHIN	D FL-FLOP	58- 96
73♦	74HCT273	PC74HCT273P	RTCF	D FL-FLOP	58- 96
74♦	74HCT273	PC74HCT273P	VALG	D FL-FLOP	58- 96
75	74HCT273	*PC74HCT273T	MULB	D FL-FLOP	58- 97
76	74HCT273	*PC74HCT273T	PHIN	D FL-FLOP	58- 97
77	74HCT273	*PC74HCT273T	RTCF	D FL-FLOP	58- 97
78	74HCT273	*PC74HCT273T	VALG	D FL-FLOP	58- 97
79	74HCT280	*74HCT280D	SIC	PARITY GEN	227- 12
80♦	74HCT280	74HCT280N	SIC	PARITY GEN	227- 13
81	74HCT280	CD74HCT280E	RCA	PARITY GEN	227- 14
82	74HCT280	*CD74HCT280M(A)	RCA	PARITY GEN	227- 15
83♦	74HCT280	PC74HCT280D(A)	MULB	PARITY GEN	227- 16
84♦	74HCT280	PC74HCT280D(A)	PHIN	PARITY GEN	227- 16
85♦	74HCT280	PC74HCT280D(A)	RTCF	PARITY GEN	227- 16
86♦	74HCT280	PC74HCT280D(A)	VALG	PARITY GEN	227- 16
87♦	74HCT280	PC74HCT280P	MULB	PARITY GEN	227- 36
88♦	74HCT280	PC74HCT280P	PHIN	PARITY GEN	227- 36
89♦	74HCT280	PC74HCT280P	RTCF	PARITY GEN	227- 36
90♦	74HCT280	PC74HCT280P	VALG	PARITY GEN	227- 36
91	74HCT280	*PC74HCT280T	MULB	PARITY GEN	227- 37
92	74HCT280	*PC74HCT280T	PHIN	PARITY GEN	227- 37
93	74HCT280	*PC74HCT280T	RTCF	PARITY GEN	227- 37
94	74HCT280	*PC74HCT280T	VALG	PARITY GEN	227- 37
95	74HCT283	*74HCT283D	SIC	ADDER	200-102
96♦	74HCT283	74HCT283N	SIC	ADDER	200-103
97	74HCT283	CD74HCT283E(A)	RCA	ADDER	200- 84
98	74HCT283	CD74HCT283M(A)	RCA	ADDER	200- 85
99♦	74HCT283	PC74HCT283D(A)	MULB	ADDER	199- 66
100♦	74HCT283	PC74HCT283D(A)	PHIN	ADDER	199- 66
101♦	74HCT283	PC74HCT283D(A)	RTCF	ADDER	199- 66
102♦	74HCT283	PC74HCT283D(A)	VALG	ADDER	199- 66
103♦	74HCT283	PC74HCT283P	MULB	ADDER	200-110
104♦	74HCT283	PC74HCT283P	PHIN	ADDER	200-110
105♦	74HCT283	PC74HCT283P	RTCF	ADDER	200-110
106♦	74HCT283	PC74HCT283P	VALG	ADDER	200-110
107	74HCT283	*PC74HCT283T	MULB	ADDER	201- 1
108	74HCT283	*PC74HCT283T	PHIN	ADDER	201- 1
109	74HCT283	*PC74HCT283T	RTCF	ADDER	201- 1
110	74HCT283	*PC74HCT283T	VALG	ADDER	201- 1

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111♦	74HCT373	74HCT373	AEIL	8-BIT LCH	233- 50
112♦	74HCT373	74HCT373C	STX	8-BIT LCH	239- 20
113♦	74HCT373	74HCT373D	SIC	8-BIT LCH	239- 52
114♦	74HCT373	74HCT373D	STX	8-BIT LCH	239- 52
115♦	74HCT373	74HCT373N	SIC	8-BIT LCH	239- 53
116♦	74HCT373	74HCT373P	STX	8-BIT LCH	239- 21
117♦	74HCT373	CD74HCT373E	RCA	8-BIT LCH	238- 83
118♦	74HCT373	*CD74HCT373M(A)	RCA	8-BIT LCH	239- 82
119▼	74HCT373	*HD74HCT373FP	HITJ	8-BIT LCH	235-103
120▼	74HCT373	HD74HCT373P	HITJ	8-BIT LCH	235-104
121▼	74HCT373	M74HCT373B1	SGSI	8-BIT LCH	233- 56
122▼	74HCT373	*M74HCT373C1	SGSI	8-BIT LCH	233- 57
123▼	74HCT373	M74HCT373F1	SGSI	8-BIT LCH	233- 58
124♦	74HCT373	MC74HCT373J(A)	MOTA	8-BIT LCH	233- 66
125♦	74HCT373	MC74HCT373N(A)	MOTA	8-BIT LCH	233- 67
126♦	74HCT373	MD74HCT373RE	MITC	8-BIT LCH	238- 16
127♦	74HCT373	MM74HCT373J(A)	NSC	8-BIT LCH	240- 54
128♦	74HCT373	MM74HCT373N(A)	NSC	8-BIT LCH	240- 55
129♦	74HCT373	MV74HCT373	PLSB	8-BIT LCH	239- 54
130♦	74HCT373	PC74HCT373P	MULB	8-BIT LCH	239- 99
131♦	74HCT373	PC74HCT373P	PHIN	8-BIT LCH	239- 99
132♦	74HCT373	PC74HCT373P	RTCF	8-BIT LCH	239- 99
133♦	74HCT373	PC74HCT373P	VALG	8-BIT LCH	239- 99
134♦	74HCT373	*PC74HCT373T	MULB	8-BIT LCH	239-100
135♦	74HCT373	*PC74HCT373T	PHIN	8-BIT LCH	239-100
136♦	74HCT373	*PC74HCT373T	RTCF	8-BIT LCH	239-100
137♦	74HCT373	*PC74HCT373T	VALG	8-BIT LCH	239-100
138▼	74HCT373	*SN74HCT373DW(A)	TII	8-BIT LCH	240- 71
139▼	74HCT373	SN74HCT373N(A)	TII	8-BIT LCH	240- 72
140▼	74HCT373	*TC74HCT373F(A)	TOSA	8-BIT LCH	239- 91
141▼	74HCT373	TC74HCT373P(A)	TOSA	8-BIT LCH	239- 92
142♦	74HCT374	74HCT374	AEIL	D FL-FLOP	57- 79
143♦	74HCT374	74HCT374C	STX	D FL-FLOP	61- 38
144♦	74HCT374	*74HCT374D	SIC	D FL-FLOP	59- 93
145♦	74HCT374	*74HCT374D	STX	D FL-FLOP	59- 93
146♦	74HCT374	74HCT374N	SIC	D FL-FLOP	59- 94
147♦	74HCT374	74HCT374N	STX	D FL-FLOP	59- 94
148♦	74HCT374	74HCT374P	STX	D FL-FLOP	61- 39
149♦	74HCT374	CD74HCT374E	RCA	D FL-FLOP	60- 40
150	74HCT374	*CD74HCT374M	RCA	D FL-FLOP	60- 41
151▼	74HCT374	*HD74HCT374FP	HITJ	D FL-FLOP	60- 7
152▼	74HCT374	HD74HCT374P	HITJ	D FL-FLOP	60- 8
153▼	74HCT374	M74HCT374B1	SGSI	D FL-FLOP	58- 14
154▼	74HCT374	*M74HCT374C1	SGSI	D FL-FLOP	58- 15
155▼	74HCT374	M74HCT374F1	SGSI	D FL-FLOP	58- 16
156♦	74HCT374	MC74HCT374J	MOTA	D FL-FLOP	58- 18
157♦	74HCT374	MC74HCT374N	MOTA	D FL-FLOP	58- 19
158♦	74HCT374	MD74HCT374RE	MITC	D FL-FLOP	58- 23
159♦	74HCT374	MM74HCT374J(A)	NSC	D FL-FLOP	60- 17
160♦	74HCT374	MM74HCT374N(A)	NSC	D FL-FLOP	60- 18
161♦	74HCT374	*N74HCT374D	SIC	D FL-FLOP	62- 16
162♦	74HCT374	N74HCT374N	SIC	D FL-FLOP	62- 17
163♦	74HCT374	PC74HCT374P	MULB	D FL-FLOP	58-107
164♦	74HCT374	PC74HCT374P	PHIN	D FL-FLOP	58-107
165♦	74HCT374	PC74HCT374P	RTCF	D FL-FLOP	58-107
166♦	74HCT374	PC74HCT374P	VALG	D FL-FLOP	58-107
167	74HCT374	*PC74HCT374T	MULB	D FL-FLOP	58-108
168	74HCT374	*PC74HCT374T	PHIN	D FL-FLOP	58-108
169	74HCT374	*PC74HCT374T	RTCF	D FL-FLOP	58-108
170	74HCT374	*PC74HCT374T	VALG	D FL-FLOP	58-108
171▼	74HCT374	SN74HCT374N(A)	TII	D FL-FLOP	60- 53
172▼	74HCT374	*TC74HCT374F(A)	TOSA	D FL-FLOP	61-108
173▼	74HCT374	TC74HCT374P(A)	TOSA	D FL-FLOP	61-109
174	74HCT377	*74HCT377D	SIC	D FL-FLOP	59- 99
175♦	74HCT377	74HCT377N	SIC	D FL-FLOP	59-100
176♦	74HCT377	CD74HCT377E	RCA	D FL-FLOP	59- 43
177	74HCT377	*CD74HCT377M	RCA	D FL-FLOP	59- 44
178	74HCT377	*N74HCT377D	SIC	D FL-FLOP	62- 39
179♦	74HCT377	N74HCT377N	SIC	D FL-FLOP	62- 40
180♦	74HCT377	PC74HCT377P	MULB	D FL-FLOP	59- 7
181♦	74HCT377	PC74HCT377P	PHIN	D FL-FLOP	59- 7
182♦	74HCT377	PC74HCT377P	RTCF	D FL-FLOP	59- 7
183♦	74HCT377	PC74HCT377P	VALG	D FL-FLOP	59- 7
184	74HCT377	*PC74HCT377T	MULB	D FL-FLOP	59- 8
185	74HCT377	*PC74HCT377T	PHIN	D FL-FLOP	59- 8
186	74HCT377	*PC74HCT377T	RTCF	D FL-FLOP	59- 8
187	74HCT377	*PC74HCT377T	VALG	D FL-FLOP	59- 8
188♦	74HCT384	CD74HCT384E	RCA	MULTIPLIER	202- 73
189♦	74HCT390	74HCT390C(A)	STX	DEC CNTR	182- 2
190♦	74HCT390	*74HCT390D(A)	SIC	DEC CNTR	182- 15
191♦	74HCT390	*74HCT390D(A)	STX	DEC CNTR	182- 15
192♦	74HCT390	74HCT390N	SIC	DEC CNTR	182- 16
193♦	74HCT390	74HCT390P(A)	STX	DEC CNTR	182- 3
194♦	74HCT390	CD74HCT390E	RCA	DEC CNTR	182- 30
195♦	74HCT390	CD74HCT390M(A)	RCA	DEC CNTR	182- 31
196♦	74HCT390	PC74HCT390D(A)	MULB	DEC CNTR	182- 39
197♦	74HCT390	PC74HCT390D(A)	PHIN	DEC CNTR	182- 39
198♦	74HCT390	PC74HCT390D(A)	RTCF	DEC CNTR	182- 39
199♦	74HCT390	PC74HCT390D(A)	VALG	DEC CNTR	182- 39
200♦	74HCT390	PC74HCT390P	MULB	DEC CNTR	182- 4
201♦	74HCT390	PC74HCT390P	PHIN	DEC CNTR	182- 4
202♦	74HCT390	PC74HCT390P	RTCF	DEC CNTR	182- 4
203♦	74HCT390	PC74HCT390P	VALG	DEC CNTR	182- 4
204♦	74HCT390	*PC74HCT390T	MULB	DEC CNTR	182- 10
205♦	74HCT390	*PC74HCT390T	PHIN	DEC CNTR	182- 10
206♦	74HCT390	*PC74HCT390T	RTCF	DEC CNTR	182- 10
207♦	74HCT390	*PC74HCT390T	VALG	DEC CNTR	182- 10
208♦	74HCT393	74HCT393C(A)	STX	HEX CNTR	164- 9
209♦	74HCT393	74HCT393D(A)	SIC	HEX CNTR	164- 10
210♦	74HCT393	74HCT393D(A)	STX	HEX CNTR	164- 10
211♦	74HCT393	74HCT393N	SIC	HEX CNTR	164- 90
212♦	74HCT393	74HCT393P(A)	STX	HEX CNTR	164- 11
213♦	74HCT393	CD74HCT393E	RCA	HEX CNTR	165- 21
214♦	74HCT393	*CD74HCT393M	RCA	HEX CNTR	165- 22
215♦	74HCT393	PC74HCT393D(A)	MULB	HEX CNTR	164- 91
216♦	74HCT393	PC74HCT393D(A)	PHIN	HEX CNTR	164- 91
217♦	74HCT393	PC74HCT393D(A)	RTCF	HEX CNTR	164- 91
218♦	74HCT393	PC74HCT393D(A)	VALG	HEX CNTR	164- 91
219♦	74HCT393	PC74HCT393P	MULB	HEX CNTR	164- 65
220♦	74HCT393	PC74HCT393P	PHIN	HEX CNTR	164- 65

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LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	74HCT393	PC74HCT393P	RTCF	HEX CNTR	164- 65
2♦	74HCT393	PC74HCT393P	VALG	HEX CNTR	164- 65
3♦	74HCT393	*PC74HCT393T	MULB	HEX CNTR	164- 85
4♦	74HCT393	*PC74HCT393T	PHIN	HEX CNTR	164- 85
5♦	74HCT393	*PC74HCT393T	RTCF	HEX CNTR	164- 85
6♦	74HCT393	*PC74HCT393T	VALG	HEX CNTR	164- 85
7	74HCT423	*74HCT423D	SIC	CLOCK/MV	189- 31
8♦	74HCT423	74HCT423N	SIC	CLOCK/MV	189- 32
9	74HCT423	CD74HCT423E(A)	RCA	CLOCK/MV	189- 86
10	74HCT423	*CD74HCT423M(A)	RCA	CLOCK/MV	189- 87
11♦	74HCT423	PC74HCT423D(A)	MULB	CLOCK/MV	191- 30
12♦	74HCT423	PC74HCT423D(A)	PHIN	CLOCK/MV	191- 30
13♦	74HCT423	PC74HCT423D(A)	RTCF	CLOCK/MV	191- 30
14♦	74HCT423	PC74HCT423D(A)	VALG	CLOCK/MV	191- 30
15♦	74HCT423	PC74HCT423P	MULB	CLOCK/MV	191- 31
16♦	74HCT423	PC74HCT423P	PHIN	CLOCK/MV	191- 31
17♦	74HCT423	PC74HCT423P	RTCF	CLOCK/MV	191- 31
18♦	74HCT423	PC74HCT423P	VALG	CLOCK/MV	191- 31
19	74HCT423	*PC74HCT423T	MULB	CLOCK/MV	191- 32
20	74HCT423	*PC74HCT423T	PHIN	CLOCK/MV	191- 32
21	74HCT423	*PC74HCT423T	RTCF	CLOCK/MV	191- 32
22	74HCT423	*PC74HCT423T	VALG	CLOCK/MV	191- 32
23♦	74HCT533	74HCT533	AEIL	8-BIT LCH	233- 51
24♦	74HCT533	74HCT533C	STX	8-BIT LCH	239- 22
25♦	74HCT533	*74HCT533D	SIC	8-BIT LCH	240- 16
26♦	74HCT533	*74HCT533D	STX	8-BIT LCH	240- 16
27♦	74HCT533	74HCT533N	SIC	8-BIT LCH	240- 17
28♦	74HCT533	74HCT533N	STX	8-BIT LCH	240- 17
29♦	74HCT533	74HCT533P	STX	8-BIT LCH	239- 23
30♦	74HCT533	CD74HCT533E	RCA	8-BIT LCH	239- 83
31♦	74HCT533	*CD74HCT533M	RCA	8-BIT LCH	239- 84
32▼	74HCT533	*HD74HCT533FP	HITJ	8-BIT LCH	235-105
33▼	74HCT533	HD74HCT533P	HITJ	8-BIT LCH	235-106
34♦	74HCT533	PC74HCT533P	MULB	8-BIT LCH	239-101
35♦	74HCT533	PC74HCT533P	PHIN	8-BIT LCH	239-101
36♦	74HCT533	PC74HCT533P	RTCF	8-BIT LCH	239-101
37♦	74HCT533	PC74HCT533P	VALG	8-BIT LCH	239-101
38♦	74HCT533	*PC74HCT533T	MULB	8-BIT LCH	239-102
39♦	74HCT533	*PC74HCT533T	PHIN	8-BIT LCH	239-102
40♦	74HCT533	*PC74HCT533T	RTCF	8-BIT LCH	239-102
41♦	74HCT533	*PC74HCT533T	VALG	8-BIT LCH	239-102
42▼	74HCT533	SN74HCT533N(A)	TII	8-BIT LCH	240- 73
43♦	74HCT534	74HCT534	AEIL	D FL-FLOP	57- 80
44♦	74HCT534	74HCT534C	STX	D FL-FLOP	61- 40
45♦	74HCT534	*74HCT534D	SIC	D FL-FLOP	58-109
46♦	74HCT534	*74HCT534D	STX	D FL-FLOP	58-109
47♦	74HCT534	74HCT534N	SIC	D FL-FLOP	58-110
48♦	74HCT534	74HCT534P	STX	D FL-FLOP	61- 41
49♦	74HCT534	CD74HCT534E	RCA	D FL-FLOP	59- 45
50	74HCT534	*CD74HCT534M	RCA	D FL-FLOP	58-106
51▼	74HCT534	*HD74HCT534FP	HITJ	D FL-FLOP	60- 9
52▼	74HCT534	HD74HCT534P	HITJ	D FL-FLOP	60- 10
53♦	74HCT534	PC74HCT534P	MULB	D FL-FLOP	58-100
54♦	74HCT534	PC74HCT534P	PHIN	D FL-FLOP	58-100
55♦	74HCT534	PC74HCT534P	RTCF	D FL-FLOP	58-100
56♦	74HCT534	PC74HCT534P	VALG	D FL-FLOP	58-100
57♦	74HCT534	*PC74HCT534T	MULB	D FL-FLOP	58-101
58♦	74HCT534	*PC74HCT534T	PHIN	D FL-FLOP	58-101
59♦	74HCT534	*PC74HCT534T	RTCF	D FL-FLOP	58-101
60♦	74HCT534	*PC74HCT534T	VALG	D FL-FLOP	58-101
61▼	74HCT534	SN74HCT534N(A)	TII	D FL-FLOP	60- 54
62♦	74HCT563	74HCT563	AEIL	8-BIT LCH	233- 52
63♦	74HCT563	74HCT563C	STX	8-BIT LCH	239- 24
64♦	74HCT563	74HCT563D	SIC	8-BIT LCH	239- 25
65♦	74HCT563	74HCT563D	STX	8-BIT LCH	239- 25
66♦	74HCT563	74HCT563N	SIC	8-BIT LCH	239- 76
67♦	74HCT563	74HCT563P	STX	8-BIT LCH	239- 26
68♦	74HCT563	CD74HCT563E	RCA	8-BIT LCH	239- 85
69♦	74HCT563	*CD74HCT563M	RCA	8-BIT LCH	239- 86
70▼	74HCT563	*HD74HCT563FP	HITJ	8-BIT LCH	235- 84
71▼	74HCT563	HD74HCT563P	HITJ	8-BIT LCH	235- 85
72♦	74HCT563	M74HCT563B1(A)	SGSI	8-BIT LCH	239- 66
73♦	74HCT563	*M74HCT563C1(A)	SGSI	8-BIT LCH	239- 67
74♦	74HCT563	M74HCT563F1(A)	SGSI	8-BIT LCH	239- 68
75♦	74HCT563	PC74HCT563P	MULB	8-BIT LCH	239-103
76♦	74HCT563	PC74HCT563P	PHIN	8-BIT LCH	239-103
77♦	74HCT563	PC74HCT563P	RTCF	8-BIT LCH	239-103
78♦	74HCT563	PC74HCT563P	VALG	8-BIT LCH	239-103
79♦	74HCT563	*PC74HCT563T	MULB	8-BIT LCH	239-104
80♦	74HCT563	*PC74HCT563T	PHIN	8-BIT LCH	239-104
81♦	74HCT563	*PC74HCT563T	RTCF	8-BIT LCH	239-104
82♦	74HCT563	*PC74HCT563T	VALG	8-BIT LCH	239-104
83▼	74HCT563	SN74HCT563N	TII	8-BIT LCH	240- 81
84▼	74HCT563	TC74HCT563P(A)	TOSA	8-BIT LCH	239- 93
85♦	74HCT564	74HCT564	AEIL	D FL-FLOP	57- 81
86♦	74HCT564	74HCT564C	STX	D FL-FLOP	61- 42
87♦	74HCT564	*74HCT564D	SIC	D FL-FLOP	59-101
88♦	74HCT564	*74HCT564D	STX	D FL-FLOP	59-101
89♦	74HCT564	74HCT564N	SIC	D FL-FLOP	59-102
90♦	74HCT564	74HCT564P	STX	D FL-FLOP	61- 43
91♦	74HCT564	CD74HCT564E	RCA	D FL-FLOP	59- 46
92	74HCT564	*CD74HCT564M	RCA	D FL-FLOP	59- 47
93▼	74HCT564	*HD74HCT564FP	HITJ	D FL-FLOP	60- 11
94▼	74HCT564	HD74HCT564P	HITJ	D FL-FLOP	60- 12
95♦	74HCT564	M74HCT564B1(A)	SGSI	D FL-FLOP	59- 1
96	74HCT564	*M74HCT564C1(A)	SGSI	D FL-FLOP	59- 2
97♦	74HCT564	M74HCT564F1(A)	SGSI	D FL-FLOP	59- 3
98♦	74HCT564	PC74HCT564P	MULB	D FL-FLOP	59- 9
99♦	74HCT564	PC74HCT564P	PHIN	D FL-FLOP	59- 9
100♦	74HCT564	PC74HCT564P	RTCF	D FL-FLOP	59- 9
101♦	74HCT564	PC74HCT564P	VALG	D FL-FLOP	59- 9
102♦	74HCT564	*PC74HCT564T	MULB	D FL-FLOP	59- 10
103♦	74HCT564	*PC74HCT564T	PHIN	D FL-FLOP	59- 10
104♦	74HCT564	*PC74HCT564T	RTCF	D FL-FLOP	59- 10
105♦	74HCT564	*PC74HCT564T	VALG	D FL-FLOP	59- 10
106▼	74HCT564	SN74HCT564N	TII	D FL-FLOP	60- 55
107▼	74HCT564	TC74HCT564P(A)	TOSA	D FL-FLOP	61-110
108♦	74HCT573	74HCT573	AEIL	8-BIT LCH	233- 53
109♦	74HCT573	74HCT573C	STX	8-BIT LCH	239- 27
110♦	74HCT573	*74HCT573D	SIC	8-BIT LCH	239- 77
111♦	74HCT573	*74HCT573D	STX	8-BIT LCH	239- 77
112♦	74HCT573	74HCT573N	SIC	8-BIT LCH	239- 78
113♦	74HCT573	74HCT573P	STX	8-BIT LCH	239- 28
114♦	74HCT573	CD74HCT573E	RCA	8-BIT LCH	240- 26
115♦	74HCT573	*CD74HCT573M	RCA	8-BIT LCH	240- 27
116▼	74HCT573	*HD74HCT573FP	HITJ	8-BIT LCH	235- 86
117▼	74HCT573	HD74HCT573P	HITJ	8-BIT LCH	235- 87
118♦	74HCT573	M74HCT573B1(A)	SGSI	8-BIT LCH	239- 69
119♦	74HCT573	*M74HCT573C1(A)	SGSI	8-BIT LCH	239- 70
120♦	74HCT573	M74HCT573F1(A)	SGSI	8-BIT LCH	239- 71
121♦	74HCT573	MD74HCT573RE	MITC	8-BIT LCH	238- 17
122♦	74HCT573	MV74HCT573	PLSB	8-BIT LCH	239- 55
123♦	74HCT573	*N74HCT573D	SIC	8-BIT LCH	240- 29
124♦	74HCT573	N74HCT573N	SIC	8-BIT LCH	240- 30
125♦	74HCT573	PC74HCT573P(A)	MULB	8-BIT LCH	240- 47
126♦	74HCT573	PC74HCT573P(A)	PHIN	8-BIT LCH	240- 47
127♦	74HCT573	PC74HCT573P(A)	RTCF	8-BIT LCH	240- 47
128♦	74HCT573	PC74HCT573P(A)	VALG	8-BIT LCH	240- 47
129♦	74HCT573	*PC74HCT573T(A)	MULB	8-BIT LCH	240- 48
130♦	74HCT573	*PC74HCT573T(A)	PHIN	8-BIT LCH	240- 48
131♦	74HCT573	*PC74HCT573T(A)	RTCF	8-BIT LCH	240- 48
132♦	74HCT573	*PC74HCT573T(A)	VALG	8-BIT LCH	240- 48
133▼	74HCT573	*SN74HCT573DW	TII	8-BIT LCH	240- 49
134▼	74HCT573	SN74HCT573N	TII	8-BIT LCH	240- 50
135▼	74HCT573	TC74HCT573P(A)	TOSA	8-BIT LCH	239- 94
136♦	74HCT574	74HCT574C	STX	D FL-FLOP	61- 44
137♦	74HCT574	74HCT574D	SIC	D FL-FLOP	61- 45
138♦	74HCT574	74HCT574D	STX	D FL-FLOP	61- 45
139♦	74HCT574	74HCT574N	AEIL	D FL-FLOP	57- 82
140♦	74HCT574	74HCT574N	SIC	D FL-FLOP	57- 82
141♦	74HCT574	74HCT574P	STX	D FL-FLOP	61- 46
142♦	74HCT574	CD74HCT574E	RCA	D FL-FLOP	60- 42
143	74HCT574	*CD74HCT574M	RCA	D FL-FLOP	60- 43
144▼	74HCT574	*HD74HCT574FP	HITJ	D FL-FLOP	60- 13
145▼	74HCT574	HD74HCT574P	HITJ	D FL-FLOP	60- 14
146♦	74HCT574	M74HCT574B1(A)	SGSI	D FL-FLOP	59- 4
147	74HCT574	*M74HCT574C1(A)	SGSI	D FL-FLOP	59- 5
148♦	74HCT574	M74HCT574F1(A)	SGSI	D FL-FLOP	59- 6
149♦	74HCT574	MD74HCT574RE	MITC	D FL-FLOP	58- 24
150♦	74HCT574	PC74HCT574P(A)	MULB	D FL-FLOP	59- 86
151♦	74HCT574	PC74HCT574P(A)	PHIN	D FL-FLOP	59- 86
152♦	74HCT574	PC74HCT574P(A)	RTCF	D FL-FLOP	59- 86
153♦	74HCT574	PC74HCT574P(A)	VALG	D FL-FLOP	59- 86
154♦	74HCT574	*PC74HCT574T(A)	MULB	D FL-FLOP	59- 87
155♦	74HCT574	*PC74HCT574T(A)	PHIN	D FL-FLOP	59- 87
156♦	74HCT574	*PC74HCT574T(A)	RTCF	D FL-FLOP	59- 87
157♦	74HCT574	*PC74HCT574T(A)	VALG	D FL-FLOP	59- 87
158▼	74HCT574	SN74HCT574N	TII	D FL-FLOP	60- 21
159▼	74HCT574	TC74HCT574P(A)	TOSA	D FL-FLOP	62- 1
160	74HCT583	*74HCT583D	SIC	ADDER	199- 90
161♦	74HCT583	74HCT583N	SIC	ADDER	199- 91
162	74HCT583	CD74HCT583E(A)	RCA	ADDER	199- 44
163	74HCT583	*CD74HCT583M(A)	RCA	ADDER	199- 45
164♦	74HCT583	PC74HCT583D(A)	MULB	ADDER	199-106
165♦	74HCT583	PC74HCT583D(A)	PHIN	ADDER	199-106
166♦	74HCT583	PC74HCT583D(A)	RTCF	ADDER	199-106
167♦	74HCT583	PC74HCT583D(A)	VALG	ADDER	199-106
168♦	74HCT583	PC74HCT583P(A)	MULB	ADDER	199-107
169♦	74HCT583	PC74HCT583P(A)	PHIN	ADDER	199-107
170♦	74HCT583	PC74HCT583P(A)	RTCF	ADDER	199-107
171♦	74HCT583	PC74HCT583P(A)	VALG	ADDER	199-107
172	74HCT583	*PC74HCT583T(A)	MULB	ADDER	199-108
173	74HCT583	*PC74HCT583T(A)	PHIN	ADDER	199-108
174	74HCT583	*PC74HCT583T(A)	RTCF	ADDER	199-108
175	74HCT583	*PC74HCT583T(A)	VALG	ADDER	199-108
176	74HCT688	*74HCT688D	SIC	MAGN COMP	218- 50
177♦	74HCT688	74HCT688N	SIC	MAGN COMP	218- 51
178♦	74HCT688	CD74HCT688E	RCA	MAGN COMP	218- 81
179	74HCT688	*CD74HCT688M	RCA	MAGN COMP	218- 82
180▼	74HCT688	*HD74HCT688FP	HITJ	MAGN COMP	218- 29
181▼	74HCT688	HD74HCT688P	HITJ	MAGN COMP	218- 30
182♦	74HCT688	MM74HCT688J(A)	NSC	MAGN COMP	218- 83
183♦	74HCT688	MM74HCT688N(A)	NSC	MAGN COMP	218- 84
184	74HCT688	*PC74HCT688T(A)	MULB	MAGN COMP	218- 99
185	74HCT688	*PC74HCT688T(A)	PHIN	MAGN COMP	218- 99
186	74HCT688	*PC74HCT688T(A)	RTCF	MAGN COMP	218- 99
187	74HCT688	*PC74HCT688T(A)	VALG	MAGN COMP	218- 99
188♦	74HCT4002	74HCT4002D(A)	MULB	NOR GATE	118- 36
189♦	74HCT4002	74HCT4002D(A)	PHIN	NOR GATE	118- 36
190♦	74HCT4002	74HCT4002D(A)	RTCF	NOR GATE	118- 36
191♦	74HCT4002	74HCT4002D(A)	SIC	NOR GATE	118- 36
192♦	74HCT4002	74HCT4002D(A)	VALG	NOR GATE	118- 36
193♦	74HCT4002	74HCT4002N	RCA	NOR GATE	118- 2
194♦	74HCT4002	74HCT4002N	SIC	NOR GATE	118- 2
195♦	74HCT4002	CD74HCT4002E	RCA	NOR GATE	118- 5
196♦	74HCT4002	*CD74HCT4002M	RCA	NOR GATE	118- 6
197♦	74HCT4002	PC74HCT4002D(A)	MULB	NOR GATE	118- 37
198♦	74HCT4002	PC74HCT4002D(A)	PHIN	NOR GATE	118- 37
199♦	74HCT4002	PC74HCT4002D(A)	RTCF	NOR GATE	118- 37
200♦	74HCT4002	PC74HCT4002D(A)	VALG	NOR GATE	118- 37
201♦	74HCT4002	PC74HCT4002P(A)	MULB	NOR GATE	118- 32
202♦	74HCT4002	PC74HCT4002P(A)	PHIN	NOR GATE	118- 32
203♦	74HCT4002	PC74HCT4002P(A)	RTCF	NOR GATE	118- 32
204♦	74HCT4002	PC74HCT4002P(A)	VALG	NOR GATE	118- 32
205♦	74HCT4002	*PC74HCT4002T(A)	MULB	NOR GATE	118- 33
206♦	74HCT4002	*PC74HCT4002T(A)	PHIN	NOR GATE	118- 33
207♦	74HCT4002	*PC74HCT4002T(A)	RTCF	NOR GATE	118- 33
208♦	74HCT4002	*PC74HCT4002T(A)	VALG	NOR GATE	118- 33
209♦	74HCT4002	US74HCT4002N(A)	UNV	NOR GATE	118- 12
210♦	74HCT4017	*74HCT4017D	SIC	DEC CNTR	183- 58
211♦	74HCT4017	74HCT4017N	SIC	DEC CNTR	183- 59
212♦	74HCT4017	CD74HCT4017E	RCA	DEC CNTR	183- 42
213♦	74HCT4017	*CD74HCT4017M	RCA	DEC CNTR	183- 43
214♦	74HCT4017	PC74HCT4017D(A)	MULB	DEC CNTR	183- 80
215♦	74HCT4017	PC74HCT4017D(A)	PHIN	DEC CNTR	183- 80
216♦	74HCT4017	PC74HCT4017D(A)	RTCF	DEC CNTR	183- 80
217♦	74HCT4017	PC74HCT4017D(A)	VALG	DEC CNTR	183- 80
218♦	74HCT4017	PC74HCT4017P(A)	MULB	DEC CNTR	183- 54
219♦	74HCT4017	PC74HCT4017P(A)	PHIN	DEC CNTR	183- 54
220♦	74HCT4017	PC74HCT4017P(A)	RTCF	DEC CNTR	183- 54

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1♦	74HCT4017	PC74HCT4017P(A)	VALG	DEC CNTR	183- 54
2♦	74HCT4017	*PC74HCT4017T(A)	MULB	DEC CNTR	183- 55
3♦	74HCT4017	*PC74HCT4017T(A)	PHIN	DEC CNTR	183- 55
4♦	74HCT4017	*PC74HCT4017T(A)	RTCF	DEC CNTR	183- 55
5♦	74HCT4017	*PC74HCT4017T(A)	VALG	DEC CNTR	183- 55
6♦	74HCT4020	*74HCT4020D	SIC	COUNTER	166- 46
7♦	74HCT4020	74HCT4020N	SIC	COUNTER	166- 47
8♦	74HCT4020	CD74HCT4020E	RCA	COUNTER	171- 63
9♦	74HCT4020	*CD74HCT4020M(A)	RCA	COUNTER	171- 64
10♦	74HCT4020	PC74HCT4020D(A)	MULB	COUNTER	171-109
11♦	74HCT4020	PC74HCT4020D(A)	PHIN	COUNTER	171-109
12♦	74HCT4020	PC74HCT4020D(A)	RTCF	COUNTER	171-109
13♦	74HCT4020	PC74HCT4020D(A)	VALG	COUNTER	171-109
14♦	74HCT4020	*PC74HCT4020T	MULB	COUNTER	171-110
15♦	74HCT4020	*PC74HCT4020T	PHIN	COUNTER	171-110
16♦	74HCT4020	*PC74HCT4020T	RTCF	COUNTER	171-110
17♦	74HCT4020	*PC74HCT4020T	VALG	COUNTER	171-110
18♦	74HCT4024	*74HCT4024D	SIC	COUNTER	166- 66
19♦	74HCT4024	74HCT4024N	SIC	COUNTER	166- 67
20♦	74HCT4024	CD74HCT4024E	RCA	COUNTER	168- 70
21♦	74HCT4024	*CD74HCT4024M	RCA	COUNTER	168- 71
22♦	74HCT4024	PC74HCT4024D(A)	MULB	COUNTER	168- 95
23♦	74HCT4024	PC74HCT4024D(A)	PHIN	COUNTER	168- 95
24♦	74HCT4024	PC74HCT4024D(A)	RTCF	COUNTER	168- 95
25♦	74HCT4024	PC74HCT4024D(A)	VALG	COUNTER	168- 95
26♦	74HCT4024	PC74HCT4024P	MULB	COUNTER	168- 75
27♦	74HCT4024	PC74HCT4024P	PHIN	COUNTER	168- 75
28♦	74HCT4024	PC74HCT4024P	RTCF	COUNTER	168- 75
29♦	74HCT4024	PC74HCT4024P	VALG	COUNTER	168- 75
30♦	74HCT4024	*PC74HCT4024T	MULB	COUNTER	168- 76
31♦	74HCT4024	*PC74HCT4024T	PHIN	COUNTER	168- 76
32♦	74HCT4024	*PC74HCT4024T	RTCF	COUNTER	168- 76
33♦	74HCT4024	*PC74HCT4024T	VALG	COUNTER	168- 76
34♦	74HCT4040	*74HCT4040D	SIC	COUNTER	166- 68
35♦	74HCT4040	74HCT4040N	SIC	COUNTER	166- 69
36♦	74HCT4040	CD74HCT4040E	RCA	COUNTER	170- 44
37♦	74HCT4040	*CD74HCT4040M	RCA	COUNTER	170- 45
38♦	74HCT4040	PC74HCT4040D(A)	MULB	COUNTER	170- 69
39♦	74HCT4040	PC74HCT4040D(A)	PHIN	COUNTER	170- 69
40♦	74HCT4040	PC74HCT4040D(A)	RTCF	COUNTER	170- 69
41♦	74HCT4040	PC74HCT4040D(A)	VALG	COUNTER	170- 69
42♦	74HCT4040	PC74HCT4040P	MULB	COUNTER	170- 50
43♦	74HCT4040	PC74HCT4040P	PHIN	COUNTER	170- 50
44♦	74HCT4040	PC74HCT4040P	RTCF	COUNTER	170- 50
45♦	74HCT4040	PC74HCT4040P	VALG	COUNTER	170- 50
46♦	74HCT4040	*PC74HCT4040T	MULB	COUNTER	170- 51
47♦	74HCT4040	*PC74HCT4040T	PHIN	COUNTER	170- 51
48♦	74HCT4040	*PC74HCT4040T	RTCF	COUNTER	170- 51
49♦	74HCT4040	*PC74HCT4040T	VALG	COUNTER	170- 51
50♦	74HCT4046	PC74HCT4046AP	MULB	SPECIAL	246- 53
51♦	74HCT4046	PC74HCT4046AP	PHIN	SPECIAL	246- 53
52♦	74HCT4046	PC74HCT4046AP	RTCF	SPECIAL	246- 53
53♦	74HCT4046	PC74HCT4046AP	VALG	SPECIAL	246- 53
54	74HCT4046	*PC74HCT4046AT	MULB	SPECIAL	246- 54
55	74HCT4046	*PC74HCT4046AT	PHIN	SPECIAL	246- 54
56	74HCT4046	*PC74HCT4046AT	RTCF	SPECIAL	246- 54
57	74HCT4046	*PC74HCT4046AT	VALG	SPECIAL	246- 54
58	74HCT4059	*74HCT4059D	SIC	FREQ DIVID	195- 88
59♦	74HCT4059	74HCT4059N	SIC	FREQ DIVID	195- 89
60♦	74HCT4059	CD74HCT4059E	RCA	FREQ DIVID	195- 94
61♦	74HCT4059	*CD74HCT4059M	RCA	FREQ DIVID	195- 95
62♦	74HCT4060	*74HCT4060D	SIC	COUNTER	172- 4
63♦	74HCT4060	74HCT4060N	SIC	COUNTER	172- 5
64♦	74HCT4060	CD74HCT4060E	RCA	COUNTER	171- 92
65♦	74HCT4060	*CD74HCT4060M	RCA	COUNTER	171- 93
66♦	74HCT4060	PC74HCT4060D(A)	MULB	COUNTER	171- 87
67♦	74HCT4060	PC74HCT4060D(A)	PHIN	COUNTER	171- 87
68♦	74HCT4060	PC74HCT4060D(A)	RTCF	COUNTER	171- 87
69♦	74HCT4060	PC74HCT4060D(A)	VALG	COUNTER	171- 87
70♦	74HCT4060	PC74HCT4060P	MULB	COUNTER	171- 74
71♦	74HCT4060	PC74HCT4060P	PHIN	COUNTER	171- 74
72♦	74HCT4060	PC74HCT4060P	RTCF	COUNTER	171- 74
73♦	74HCT4060	PC74HCT4060P	VALG	COUNTER	171- 74
74♦	74HCT4060	*PC74HCT4060T	MULB	COUNTER	171- 75
75♦	74HCT4060	*PC74HCT4060T	PHIN	COUNTER	171- 75
76♦	74HCT4060	*PC74HCT4060T	RTCF	COUNTER	171- 75
77♦	74HCT4060	*PC74HCT4060T	VALG	COUNTER	171- 75
78♦	74HCT4075	*74HCT4075D	SIC	OR GATE	123- 24
79♦	74HCT4075	74HCT4075N	SIC	OR GATE	123- 25
80♦	74HCT4075	CD74HCT4075E	RCA	OR GATE	123- 5
81♦	74HCT4075	*CD74HCT4075M	RCA	OR GATE	123- 6
82♦	74HCT4075	PC74HCT4075D(A)	MULB	OR GATE	123- 29
83♦	74HCT4075	PC74HCT4075D(A)	PHIN	OR GATE	123- 29
84♦	74HCT4075	PC74HCT4075D(A)	RTCF	OR GATE	123- 29
85♦	74HCT4075	PC74HCT4075D(A)	VALG	OR GATE	123- 29
86♦	74HCT4075	PC74HCT4075P	MULB	OR GATE	123- 33
87♦	74HCT4075	PC74HCT4075P	PHIN	OR GATE	123- 33
88♦	74HCT4075	PC74HCT4075P	RTCF	OR GATE	123- 33
89♦	74HCT4075	PC74HCT4075P	VALG	OR GATE	123- 33
90♦	74HCT4075	*PC74HCT4075T	MULB	OR GATE	123- 34
91♦	74HCT4075	*PC74HCT4075T	PHIN	OR GATE	123- 34
92♦	74HCT4075	*PC74HCT4075T	RTCF	OR GATE	123- 34
93♦	74HCT4075	*PC74HCT4075T	VALG	OR GATE	123- 34
94♦	74HCT4510	*74HCT4510D	SIC	DEC CNTR	180- 20
95♦	74HCT4510	74HCT4510N	SIC	DEC CNTR	180- 21
96♦	74HCT4510	CD74HCT4510E	RCA	DEC CNTR	178- 87
97♦	74HCT4510	CD74HCT4510M	RCA	DEC CNTR	178- 88
98♦	74HCT4510	PC74HCT4510D(A)	MULB	DEC CNTR	180- 27
99♦	74HCT4510	PC74HCT4510D(A)	PHIN	DEC CNTR	180- 27
100♦	74HCT4510	PC74HCT4510D(A)	RTCF	DEC CNTR	180- 27
101♦	74HCT4510	PC74HCT4510D(A)	VALG	DEC CNTR	180- 27
102♦	74HCT4510	PC74HCT4510P	MULB	DEC CNTR	180- 28
103♦	74HCT4510	PC74HCT4510P	PHIN	DEC CNTR	180- 28
104♦	74HCT4510	PC74HCT4510P	RTCF	DEC CNTR	180- 28
105♦	74HCT4510	PC74HCT4510P	VALG	DEC CNTR	180- 28
106♦	74HCT4510	*PC74HCT4510T	MULB	DEC CNTR	180- 29
107♦	74HCT4510	*PC74HCT4510T	PHIN	DEC CNTR	180- 29
108♦	74HCT4510	*PC74HCT4510T	RTCF	DEC CNTR	180- 29
109♦	74HCT4510	*PC74HCT4510T	VALG	DEC CNTR	180- 29
110♦	74HCT4516	*74HCT4516D	SIC	HEX CNTR	163- 43
111♦	74HCT4516	74HCT4516N	SIC	HEX CNTR	163- 44
112♦	74HCT4516	CD74HCT4516E	RCA	HEX CNTR	161- 99
113♦	74HCT4516	CD74HCT4516M	RCA	HEX CNTR	161-100
114♦	74HCT4516	PC74HCT4516D(A)	MULB	HEX CNTR	163- 51
115♦	74HCT4516	PC74HCT4516D(A)	PHIN	HEX CNTR	163- 51
116♦	74HCT4516	PC74HCT4516D(A)	RTCF	HEX CNTR	163- 51
117♦	74HCT4516	PC74HCT4516D(A)	VALG	HEX CNTR	163- 51
118♦	74HCT4516	PC74HCT4516P	MULB	HEX CNTR	163- 52
119♦	74HCT4516	PC74HCT4516P	PHIN	HEX CNTR	163- 52
120♦	74HCT4516	PC74HCT4516P	RTCF	HEX CNTR	163- 52
121♦	74HCT4516	PC74HCT4516P	VALG	HEX CNTR	163- 52
122♦	74HCT4516	*PC74HCT4516T	MULB	HEX CNTR	163- 53
123♦	74HCT4516	*PC74HCT4516T	PHIN	HEX CNTR	163- 53
124♦	74HCT4516	*PC74HCT4516T	RTCF	HEX CNTR	163- 53
125♦	74HCT4516	*PC74HCT4516T	VALG	HEX CNTR	163- 53
126♦	74HCT4518	*74HCT4518D	SIC	DEC CNTR	181- 35
127♦	74HCT4518	74HCT4518N	SIC	DEC CNTR	181- 36
128♦	74HCT4518	CD74HCT4518E	RCA	DEC CNTR	181- 41
129♦	74HCT4518	*CD74HCT4518M	RCA	DEC CNTR	181- 42
130♦	74HCT4518	PC74HCT4518D(A)	MULB	DEC CNTR	181- 91
131♦	74HCT4518	PC74HCT4518D(A)	PHIN	DEC CNTR	181- 91
132♦	74HCT4518	PC74HCT4518D(A)	RTCF	DEC CNTR	181- 91
133♦	74HCT4518	PC74HCT4518D(A)	VALG	DEC CNTR	181- 91
134♦	74HCT4518	PC74HCT4518P	MULB	DEC CNTR	181- 33
135♦	74HCT4518	PC74HCT4518P	PHIN	DEC CNTR	181- 33
136♦	74HCT4518	PC74HCT4518P	RTCF	DEC CNTR	181- 33
137♦	74HCT4518	PC74HCT4518P	VALG	DEC CNTR	181- 33
138♦	74HCT4518	*PC74HCT4518T	MULB	DEC CNTR	181- 34
139♦	74HCT4518	*PC74HCT4518T	PHIN	DEC CNTR	181- 34
140♦	74HCT4518	*PC74HCT4518T	RTCF	DEC CNTR	181- 34
141♦	74HCT4518	*PC74HCT4518T	VALG	DEC CNTR	181- 34
142♦	74HCT4520	*74HCT4520D	SIC	HEX CNTR	164- 68
143♦	74HCT4520	74HCT4520N	SIC	HEX CNTR	164- 69
144♦	74HCT4520	CD74HCT4520E	RCA	HEX CNTR	164- 77
145♦	74HCT4520	*CD74HCT4520M	RCA	HEX CNTR	164- 78
146♦	74HCT4520	PC74HCT4520D(A)	MULB	HEX CNTR	165- 27
147♦	74HCT4520	PC74HCT4520D(A)	PHIN	HEX CNTR	165- 27
148♦	74HCT4520	PC74HCT4520D(A)	RTCF	HEX CNTR	165- 27
149♦	74HCT4520	PC74HCT4520D(A)	VALG	HEX CNTR	165- 27
150♦	74HCT4520	PC74HCT4520P	MULB	HEX CNTR	164- 62
151♦	74HCT4520	PC74HCT4520P	PHIN	HEX CNTR	164- 62
152♦	74HCT4520	PC74HCT4520P	RTCF	HEX CNTR	164- 62
153♦	74HCT4520	PC74HCT4520P	VALG	HEX CNTR	164- 62
154♦	74HCT4520	*PC74HCT4520T	MULB	HEX CNTR	164- 63
155♦	74HCT4520	*PC74HCT4520T	PHIN	HEX CNTR	164- 63
156♦	74HCT4520	*PC74HCT4520T	RTCF	HEX CNTR	164- 63
157♦	74HCT4520	*PC74HCT4520T	VALG	HEX CNTR	164- 63
158	74HCT4538	*74HCT4538D	SIC	CLOCK/MV	189- 33
159♦	74HCT4538	74HCT4538N	SIC	CLOCK/MV	189- 34
160♦	74HCT4538	CD74HCT4538E	RCA	CLOCK/MV	189- 88
161	74HCT4538	*CD74HCT4538M	RCA	CLOCK/MV	189- 89
162♦	74HCT4538	PC74HCT4538D(A)	MULB	CLOCK/MV	191- 33
163♦	74HCT4538	PC74HCT4538D(A)	PHIN	CLOCK/MV	191- 33
164♦	74HCT4538	PC74HCT4538D(A)	RTCF	CLOCK/MV	191- 33
165♦	74HCT4538	PC74HCT4538D(A)	VALG	CLOCK/MV	191- 33
166♦	74HCT4538	PC74HCT4538P	MULB	CLOCK/MV	191- 34
167♦	74HCT4538	PC74HCT4538P	PHIN	CLOCK/MV	191- 34
168♦	74HCT4538	PC74HCT4538P	RTCF	CLOCK/MV	191- 34
169♦	74HCT4538	PC74HCT4538P	VALG	CLOCK/MV	191- 34
170	74HCT4538	*PC74HCT4538T	MULB	CLOCK/MV	191- 35
171	74HCT4538	*PC74HCT4538T	PHIN	CLOCK/MV	191- 35
172	74HCT4538	*PC74HCT4538T	RTCF	CLOCK/MV	191- 35
173	74HCT4538	*PC74HCT4538T	VALG	CLOCK/MV	191- 35
174♦	74HCT7266	CD74HCT7266E(A)	RCA	EXNOR GATE	90- 76
175♦	74HCT7266	*CD74HCT7266M(A)	RCA	EXNOR GATE	90- 77
176♦	74HCT40102	*74HCT40102D	SIC	DEC CNTR	182- 55
177♦	74HCT40102	74HCT40102N	SIC	DEC CNTR	182- 56
178♦	74HCT40102	CD74HCT40102E	RCA	DEC CNTR	182- 57
179♦	74HCT40102	*CD74HCT40102M	RCA	DEC CNTR	182- 58
180♦	74HCT40102	PC74HCT40102D(A)	MULB	DEC CNTR	182- 63
181♦	74HCT40102	PC74HCT40102D(A)	PHIN	DEC CNTR	182- 63
182♦	74HCT40102	PC74HCT40102D(A)	RTCF	DEC CNTR	182- 63
183♦	74HCT40102	PC74HCT40102D(A)	VALG	DEC CNTR	182- 63
184♦	74HCT40102	PC74HCT40102P	MULB	DEC CNTR	182- 51
185♦	74HCT40102	PC74HCT40102P	PHIN	DEC CNTR	182- 51
186♦	74HCT40102	PC74HCT40102P	RTCF	DEC CNTR	182- 51
187♦	74HCT40102	PC74HCT40102P	VALG	DEC CNTR	182- 51
188♦	74HCT40102	*PC74HCT40102T	MULB	DEC CNTR	182- 52
189♦	74HCT40102	*PC74HCT40102T	PHIN	DEC CNTR	182- 52
190♦	74HCT40102	*PC74HCT40102T	RTCF	DEC CNTR	182- 52
191♦	74HCT40102	*PC74HCT40102T	VALG	DEC CNTR	182- 52
192♦	74HCT40103	*74HCT40103D	SIC	COUNTER	168- 10
193♦	74HCT40103	74HCT40103N	SIC	COUNTER	168- 11
194♦	74HCT40103	CD74HCT40103E	RCA	COUNTER	169- 45
195♦	74HCT40103	*CD74HCT40103M	RCA	COUNTER	169- 46
196♦	74HCT40103	PC74HCT40103D(A)	MULB	COUNTER	169- 50
197♦	74HCT40103	PC74HCT40103D(A)	PHIN	COUNTER	169- 50
198♦	74HCT40103	PC74HCT40103D(A)	RTCF	COUNTER	169- 50
199♦	74HCT40103	PC74HCT40103D(A)	VALG	COUNTER	169- 50
200♦	74HCT40103	PC74HCT40103P	MULB	COUNTER	169- 43
201♦	74HCT40103	PC74HCT40103P	PHIN	COUNTER	169- 43
202♦	74HCT40103	PC74HCT40103P	RTCF	COUNTER	169- 43
203♦	74HCT40103	PC74HCT40103P	VALG	COUNTER	169- 43
204♦	74HCT40103	*PC74HCT40103T	MULB	COUNTER	169- 44
205♦	74HCT40103	*PC74HCT40103T	PHIN	COUNTER	169- 44
206♦	74HCT40103	*PC74HCT40103T	RTCF	COUNTER	169- 44
207♦	74HCT40103	*PC74HCT40103T	VALG	COUNTER	169- 44
208♦	74L00	DM74L00N	NSC	NAND GATE	96- 2
209♦	74L01	DM74L01N	NSC	NAND GATE	100- 87
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214♦	74L20	DM74L20N	NSC	NAND GATE	108- 5
215♦	74L26	DM74L26N	NSC	NAND GATE	100- 88
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19♦	74LS00	DM74LS00N	NSC	NAND GATE	96- 4
20♦	74LS00	DN74LS00P1	MATJ	NAND GATE	96- 23
21♦	74LS00	*DN74LS00P4	MATJ	NAND GATE	96- 24
22▼	74LS00	HD74LS00G	HITJ	NAND GATE	98- 42
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24♦	74LS00	M74LS00P	MITA	NAND GATE	96- 45
25♦	74LS00	M74LS00P	MITJ	NAND GATE	96- 45
26♦	74LS00	MB74LS00	FCAJ	NAND GATE	96- 49
27♦	74LS00	MB74LS00M	FCAJ	NAND GATE	96- 50
28♦	74LS00	*N74LS00D	MULB	NAND GATE	96-101
29♦	74LS00	*N74LS00D	PHIN	NAND GATE	96-101
30♦	74LS00	*N74LS00D	RTCF	NAND GATE	96-101
31♦	74LS00	*N74LS00D	SIC	NAND GATE	96-101
32♦	74LS00	*N74LS00D	VALG	NAND GATE	96-101
33♦	74LS00	N74LS00N	MULB	NAND GATE	96-102
34♦	74LS00	N74LS00N	PHIN	NAND GATE	96-102
35♦	74LS00	N74LS00N	RTCF	NAND GATE	96-102
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39♦	74LS00	SN74LS00J	MOTA	NAND GATE	97- 73
40♦	74LS00	SN74LS00N	MOTA	NAND GATE	97- 74
41♦	74LS00	SN74LS00N	TII	NAND GATE	97- 74
42♦	74LS00	T74LS00B1	SGSI	NAND GATE	97- 91
43♦	74LS00	T74LS00D1	SGSI	NAND GATE	97- 92
44♦	74LS01	DM74LS01N	NSC	NAND GATE	100- 6
45♦	74LS01	DN74LS01P1	MATJ	NAND GATE	99- 52
46♦	74LS01	*DN74LS01P4	MATJ	NAND GATE	99- 53
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49♦	74LS01	MB74LS01	FCAJ	NAND GATE	99- 58
50♦	74LS01	MB74LS01M	FCAJ	NAND GATE	99- 59
51♦	74LS01	*N74LS01D	MULB	NAND GATE	99- 60
52♦	74LS01	*N74LS01D	PHIN	NAND GATE	99- 60
53♦	74LS01	*N74LS01D	RTCF	NAND GATE	99- 60
54♦	74LS01	*N74LS01D	SIC	NAND GATE	99- 60
55♦	74LS01	*N74LS01D	VALG	NAND GATE	99- 60
56♦	74LS01	N74LS01F	MULB	NAND GATE	99- 61
57♦	74LS01	N74LS01F	PHIN	NAND GATE	99- 61
58♦	74LS01	N74LS01F	VALG	NAND GATE	99- 61
59♦	74LS01	N74LS01N	MULB	NAND GATE	99- 62
60♦	74LS01	N74LS01N	PHIN	NAND GATE	99- 62
61♦	74LS01	N74LS01N	RTCF	NAND GATE	99- 62
62♦	74LS01	N74LS01N	SIC	NAND GATE	99- 62
63♦	74LS01	N74LS01N	VALG	NAND GATE	99- 62
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71♦	74LS02	DN74LS02P1	MATJ	NOR GATE	112- 69
72♦	74LS02	*DN74LS02P4	MATJ	NOR GATE	112- 70
73▼	74LS02	HD74LS02G	HITJ	NOR GATE	113- 78
74♦	74LS02	HD74LS02P	HITJ	NOR GATE	113- 79
75♦	74LS02	M74LS02P	MITA	NOR GATE	112- 77
76♦	74LS02	M74LS02P	MITJ	NOR GATE	112- 77
77♦	74LS02	MB74LS02	FCAJ	NOR GATE	112- 79
78♦	74LS02	MB74LS02M	FCAJ	NOR GATE	112- 80
79♦	74LS02	*N74LS02D	MULB	NOR GATE	112- 92
80♦	74LS02	*N74LS02D	PHIN	NOR GATE	112- 92
81♦	74LS02	*N74LS02D	RTCF	NOR GATE	112- 92
82♦	74LS02	*N74LS02D	SIC	NOR GATE	112- 92
83♦	74LS02	*N74LS02D	VALG	NOR GATE	112- 92
84♦	74LS02	N74LS02N	MULB	NOR GATE	112- 93
85♦	74LS02	N74LS02N	PHIN	NOR GATE	112- 93
86♦	74LS02	N74LS02N	RTCF	NOR GATE	112- 93
87♦	74LS02	N74LS02N	SIC	NOR GATE	112- 93
88♦	74LS02	N74LS02N	VALG	NOR GATE	112- 93
89♦	74LS02	*SN74LS02D	TII	NOR GATE	113- 2
90♦	74LS02	SN74LS02J	MOTA	NOR GATE	113- 3
91♦	74LS02	SN74LS02N	MOTA	NOR GATE	113- 4
92♦	74LS02	SN74LS02N	TII	NOR GATE	113- 4
93♦	74LS02	T74LS02B1	SGSI	NOR GATE	113- 10
94♦	74LS02	T74LS02D1	SGSI	NOR GATE	113- 11
95♦	74LS03	74LS03DC	FSC	NAND GATE	95- 65
96♦	74LS03	74LS03PC	FSC	NAND GATE	95- 66
97♦	74LS03	DM74LS03N	NSC	NAND GATE	96- 5
98♦	74LS03	DN74LS03P1	MATJ	NAND GATE	96- 25
99♦	74LS03	*DN74LS03P4	MATJ	NAND GATE	96- 26
100▼	74LS03	HD74LS03G	HITJ	NAND GATE	99- 56
101♦	74LS03	HD74LS03P	HITJ	NAND GATE	99- 57
102♦	74LS03	M74LS03P	MITA	NAND GATE	96- 46
103♦	74LS03	M74LS03P	MITJ	NAND GATE	96- 46
104♦	74LS03	MB74LS03	FCAJ	NAND GATE	96- 51
105♦	74LS03	MB74LS03M	FCAJ	NAND GATE	96- 52
106♦	74LS03	N74LS03F	MULB	NAND GATE	96-103
107♦	74LS03	N74LS03F	PHIN	NAND GATE	96-103
108♦	74LS03	N74LS03F	VALG	NAND GATE	96-103
109♦	74LS03	N74LS03N	MULB	NAND GATE	96-104
110♦	74LS03	N74LS03N	PHIN	NAND GATE	96-104
111♦	74LS03	N74LS03N	VALG	NAND GATE	96-104
112♦	74LS03	*SN74LS03D	TII	NAND GATE	97- 75
113♦	74LS03	SN74LS03J	MOTA	NAND GATE	97- 76
114♦	74LS03	SN74LS03N	MOTA	NAND GATE	97- 77
115♦	74LS03	SN74LS03N	TII	NAND GATE	97- 77
116♦	74LS03	T74LS03B1	SGSI	NAND GATE	97- 93
117♦	74LS03	T74LS03D1	SGSI	NAND GATE	97- 94
118♦	74LS08	74LS08DC	FSC	AND GATE	76- 13
119♦	74LS08	74LS08PC	FSC	AND GATE	76- 14
120♦	74LS08	DM74LS08N	NSC	AND GATE	76- 31
121♦	74LS08	DN74LS08P1	MATJ	AND GATE	76- 34
122♦	74LS08	*DN74LS08P4	MATJ	AND GATE	76- 35
123▼	74LS08	HD74LS08G	HITJ	AND GATE	77- 88
124♦	74LS08	HD74LS08P	HITJ	AND GATE	77- 89
125♦	74LS08	M74LS08P	MITA	AND GATE	76- 43
126♦	74LS08	M74LS08P	MITJ	AND GATE	76- 43
127♦	74LS08	MB74LS08	FCAJ	AND GATE	76- 45
128♦	74LS08	MB74LS08M	FCAJ	AND GATE	76- 46
129♦	74LS08	N74LS08D	MULB	AND GATE	76- 71
130♦	74LS08	N74LS08D	PHIN	AND GATE	76- 71
131♦	74LS08	N74LS08D	RTCF	AND GATE	76- 71
132♦	74LS08	N74LS08D	SIC	AND GATE	76- 71
133♦	74LS08	N74LS08D	VALG	AND GATE	76- 71
134♦	74LS08	N74LS08N	MULB	AND GATE	76- 72
135♦	74LS08	N74LS08N	PHIN	AND GATE	76- 72
136♦	74LS08	N74LS08N	RTCF	AND GATE	76- 72
137♦	74LS08	N74LS08N	SIC	AND GATE	76- 72
138♦	74LS08	N74LS08N	VALG	AND GATE	76- 72
139♦	74LS08	*SN74LS08D	TII	AND GATE	76-102
140♦	74LS08	SN74LS08J	MOTA	AND GATE	76-103
141♦	74LS08	SN74LS08N	MOTA	AND GATE	76-104
142♦	74LS08	SN74LS08N	TII	AND GATE	76-104
143♦	74LS08	T74LS08B1	SGSI	AND GATE	77- 1
144♦	74LS08	T74LS08D1	SGSI	AND GATE	77- 2
145♦	74LS09	74LS09PC	FSC	AND GATE	77- 61
146♦	74LS09	DM74LS09N	NSC	AND GATE	77-108
147♦	74LS09	DN74LS09P1	MATJ	AND GATE	78- 27
148♦	74LS09	*DN74LS09P4	MATJ	AND GATE	78- 28
149▼	74LS09	HD74LS09G	HITJ	AND GATE	78- 29
150♦	74LS09	HD74LS09P	HITJ	AND GATE	78- 30
151♦	74LS09	M74LS09P	MITA	AND GATE	78- 31
152♦	74LS09	M74LS09P	MITJ	AND GATE	78- 31
153♦	74LS09	MB74LS09	FCAJ	AND GATE	78- 32
154♦	74LS09	MB74LS09M	FCAJ	AND GATE	78- 33
155♦	74LS09	N74LS09F	MULB	AND GATE	77- 91
156♦	74LS09	N74LS09F	PHIN	AND GATE	77- 91
157♦	74LS09	N74LS09F	VALG	AND GATE	77- 91
158♦	74LS09	N74LS09N	MULB	AND GATE	78- 35
159♦	74LS09	N74LS09N	PHIN	AND GATE	78- 35
160♦	74LS09	N74LS09N	RTCF	AND GATE	78- 35
161♦	74LS09	N74LS09N	VALG	AND GATE	78- 35
162♦	74LS09	*SN74LS09D	TII	AND GATE	78- 40
163♦	74LS09	SN74LS09J	MOTA	AND GATE	78- 41
164♦	74LS09	SN74LS09N	MOTA	AND GATE	78- 42
165♦	74LS09	SN74LS09N	TII	AND GATE	78- 42
166♦	74LS09	T74LS09B1	SGSI	AND GATE	77- 63
167♦	74LS09	T74LS09D1	SGSI	AND GATE	77- 64
168♦	74LS10	74LS10DC	FSC	NAND GATE	101- 25
169♦	74LS10	74LS10PC	FSC	NAND GATE	101- 26
170♦	74LS10	DM74LS10N	NSC	NAND GATE	102- 97
171♦	74LS10	DN74LS10P1	MATJ	NAND GATE	102- 98
172♦	74LS10	*DN74LS10P4	MATJ	NAND GATE	102- 99
173▼	74LS10	HD74LS10G	HITJ	NAND GATE	102-100
174♦	74LS10	HD74LS10P	HITJ	NAND GATE	102-101
175♦	74LS10	M74LS10P	MITA	NAND GATE	101- 63
176♦	74LS10	M74LS10P	MITJ	NAND GATE	101- 63
177♦	74LS10	MB74LS10	FCAJ	NAND GATE	101- 66
178♦	74LS10	MB74LS10M	FCAJ	NAND GATE	101- 67
179♦	74LS10	*N74LS10D	MULB	NAND GATE	101- 92
180♦	74LS10	*N74LS10D	PHIN	NAND GATE	101- 92
181♦	74LS10	*N74LS10D	RTCF	NAND GATE	101- 92
182♦	74LS10	*N74LS10D	SIC	NAND GATE	101- 92
183♦	74LS10	*N74LS10D	VALG	NAND GATE	101- 92
184♦	74LS10	N74LS10N	MULB	NAND GATE	101- 93
185♦	74LS10	N74LS10N	PHIN	NAND GATE	101- 93
186♦	74LS10	N74LS10N	RTCF	NAND GATE	101- 93
187♦	74LS10	N74LS10N	SIC	NAND GATE	101- 93
188♦	74LS10	N74LS10N	VALG	NAND GATE	101- 93
189♦	74LS10	*SN74LS10D	TII	NAND GATE	102-104
190♦	74LS10	SN74LS10J	MOTA	NAND GATE	102- 26
191♦	74LS10	SN74LS10N	MOTA	NAND GATE	102- 27
192♦	74LS10	SN74LS10N	TII	NAND GATE	102- 27
193♦	74LS10	T74LS10B1	SGSI	NAND GATE	102- 37
194♦	74LS10	T74LS10D1	SGSI	NAND GATE	102- 38
195♦	74LS11	74LS11DC	FSC	AND GATE	79- 38
196♦	74LS11	74LS11PC	FSC	AND GATE	79- 39
197♦	74LS11	DM74LS11N	NSC	AND GATE	79- 60
198♦	74LS11	DN74LS11P1	MATJ	AND GATE	79- 66
199♦	74LS11	*DN74LS11P4	MATJ	AND GATE	79- 67
200▼	74LS11	HD74LS11G	HITJ	AND GATE	80- 62
201♦	74LS11	HD74LS11P	HITJ	AND GATE	80- 63
202♦	74LS11	M74LS11P	MITA	AND GATE	79- 76
203♦	74LS11	M74LS11P	MITJ	AND GATE	79- 76
204♦	74LS11	MB74LS11	FCAJ	AND GATE	79- 78
205♦	74LS11	MB74LS11M	FCAJ	AND GATE	79- 79
206♦	74LS11	*N74LS11D	MULB	AND GATE	79- 93
207♦	74LS11	*N74LS11D	PHIN	AND GATE	79- 93
208♦	74LS11	*N74LS11D	RTCF	AND GATE	79- 93
209♦	74LS11	*N74LS11D	SIC	AND GATE	79- 93
210♦	74LS11	*N74LS11D	VALG	AND GATE	79- 93
211♦	74LS11	N74LS11N	MULB	AND GATE	79- 94
212♦	74LS11	N74LS11N	PHIN	AND GATE	79- 94
213♦	74LS11	N74LS11N	RTCF	AND GATE	79- 94
214♦	74LS11	N74LS11N	SIC	AND GATE	79- 94
215♦	74LS11	N74LS11N	VALG	AND GATE	79- 94
216♦	74LS11	*SN74LS11D	TII	AND GATE	80- 15
217♦	74LS11	SN74LS11J	MOTA	AND GATE	80- 16
218♦	74LS11	SN74LS11N	MOTA	AND GATE	80- 17
219♦	74LS11	SN74LS11N	TII	AND GATE	80- 17
220♦	74LS11	T74LS11B1	SGSI	AND GATE	80- 27

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2♦	74LS12	DM74LS12N	NSC	NAND GATE	101- 50
3♦	74LS12	DN74LS12P1	MATJ	NAND GATE	101- 56
4♦	74LS12	*DN74LS12P4	MATJ	NAND GATE	101- 57
5▼	74LS12	HD74LS12G	HITJ	NAND GATE	103- 23
6♦	74LS12	HD74LS12P	HITJ	NAND GATE	103- 24
7♦	74LS12	M74LS12P	MITA	NAND GATE	101- 64
8♦	74LS12	M74LS12P	MITJ	NAND GATE	101- 64
9♦	74LS12	MB74LS12	FCAJ	NAND GATE	101- 68
10♦	74LS12	MB74LS12M	FCAJ	NAND GATE	101- 69
11♦	74LS12	N74LS12F	MULB	NAND GATE	101- 94
12♦	74LS12	N74LS12F	PHIN	NAND GATE	101- 94
13♦	74LS12	N74LS12F	VALG	NAND GATE	101- 94
14♦	74LS12	N74LS12N	MULB	NAND GATE	101- 95
15♦	74LS12	N74LS12N	PHIN	NAND GATE	101- 95
16♦	74LS12	N74LS12N	RTCF	NAND GATE	101- 95
17♦	74LS12	N74LS12N	VALG	NAND GATE	101- 95
18♦	74LS12	*SN74LS12D	TII	NAND GATE	102- 28
19♦	74LS12	SN74LS12J	MOTA	NAND GATE	102- 29
20♦	74LS12	SN74LS12N	MOTA	NAND GATE	102- 30
21♦	74LS12	SN74LS12N	TII	NAND GATE	102- 30
22♦	74LS15	74LS15PC	FSC	AND GATE	79- 40
23♦	74LS15	DM74LS15N	NSC	AND GATE	79- 61
24♦	74LS15	DN74LS15P1	MATJ	AND GATE	79- 68
25♦	74LS15	*DN74LS15P4	MATJ	AND GATE	79- 69
26▼	74LS15	HD74LS15G	HITJ	AND GATE	80- 86
27♦	74LS15	HD74LS15P	HITJ	AND GATE	80- 87
28♦	74LS15	M74LS15P	MITA	AND GATE	79- 77
29♦	74LS15	M74LS15P	MITJ	AND GATE	79- 77
30♦	74LS15	MB74LS15	FCAJ	AND GATE	79- 80
31♦	74LS15	MB74LS15M	FCAJ	AND GATE	79- 81
32♦	74LS15	N74LS15F	MULB	AND GATE	79- 95
33♦	74LS15	N74LS15F	PHIN	AND GATE	79- 95
34♦	74LS15	N74LS15F	VALG	AND GATE	79- 95
35♦	74LS15	N74LS15N	MULB	AND GATE	79- 96
36♦	74LS15	N74LS15N	PHIN	AND GATE	79- 96
37♦	74LS15	N74LS15N	VALG	AND GATE	79- 96
38♦	74LS15	*SN74LS15D	TII	AND GATE	80- 18
39♦	74LS15	SN74LS15J	MOTA	AND GATE	80- 19
40♦	74LS15	SN74LS15N	MOTA	AND GATE	80- 20
41♦	74LS15	SN74LS15N	TII	AND GATE	80- 20
42♦	74LS15	T74LS15B1	SGSI	AND GATE	80- 29
43♦	74LS15	T74LS15D1	SGSI	AND GATE	80- 30
44▼	74LS18	SN74LS18D	MOTA	NAND GATE	107- 77
45▼	74LS18	*SN74LS18FN	MOTA	NAND GATE	107- 78
46▼	74LS18	SN74LS18J	MOTA	NAND GATE	107- 79
47▼	74LS18	SN74LS18N	MOTA	NAND GATE	107- 80
48▼	74LS18	SN74LS18N	TII	NAND GATE	107- 80
49♦	74LS20	74LS20DC	FSC	NAND GATE	106- 10
50♦	74LS20	74LS20PC	FSC	NAND GATE	106- 11
51♦	74LS20	DM74LS20N	NSC	NAND GATE	104- 85
52♦	74LS20	DN74LS20P1	MATJ	NAND GATE	104- 88
53♦	74LS20	*DN74LS20P4	MATJ	NAND GATE	104- 89
54▼	74LS20	HD74LS20G	HITJ	NAND GATE	95- 48
55♦	74LS20	HD74LS20P	HITJ	NAND GATE	106- 82
56♦	74LS20	M74LS20P	MITA	NAND GATE	106- 83
57♦	74LS20	M74LS20P	MITJ	NAND GATE	106- 83
58♦	74LS20	MB74LS20	FCAJ	NAND GATE	106- 84
59♦	74LS20	MB74LS20M	FCAJ	NAND GATE	106- 85
60♦	74LS20	*N74LS20D	MULB	NAND GATE	106- 86
61♦	74LS20	*N74LS20D	PHIN	NAND GATE	106- 86
62♦	74LS20	*N74LS20D	RTCF	NAND GATE	106- 86
63♦	74LS20	*N74LS20D	SIC	NAND GATE	106- 86
64♦	74LS20	*N74LS20D	VALG	NAND GATE	106- 86
65♦	74LS20	N74LS20N	MULB	NAND GATE	106- 87
66♦	74LS20	N74LS20N	PHIN	NAND GATE	106- 87
67♦	74LS20	N74LS20N	RTCF	NAND GATE	106- 87
68♦	74LS20	N74LS20N	SIC	NAND GATE	106- 87
69♦	74LS20	N74LS20N	VALG	NAND GATE	106- 87
70♦	74LS20	*SN74LS20D	TII	NAND GATE	106-100
71♦	74LS20	SN74LS20J	MOTA	NAND GATE	106-101
72♦	74LS20	SN74LS20N	MOTA	NAND GATE	106-102
73♦	74LS20	SN74LS20N	TII	NAND GATE	106-102
74♦	74LS20	T74LS20B1	SGSI	NAND GATE	106- 19
75♦	74LS20	T74LS20D1	SGSI	NAND GATE	106- 20
76♦	74LS21	74LS21DC	FSC	AND GATE	82- 17
77♦	74LS21	74LS21PC	FSC	AND GATE	82- 18
78♦	74LS21	DM74LS21N	NSC	AND GATE	82- 57
79♦	74LS21	DN74LS21P1	MATJ	AND GATE	82- 64
80♦	74LS21	*DN74LS21P4	MATJ	AND GATE	82- 65
81▼	74LS21	HD74LS21G	HITJ	AND GATE	82- 66
82♦	74LS21	HD74LS21P	HITJ	AND GATE	82- 99
83♦	74LS21	M74LS21P	MITA	AND GATE	82- 67
84♦	74LS21	M74LS21P	MITJ	AND GATE	82- 67
85♦	74LS21	MB74LS21	FCAJ	AND GATE	82- 68
86♦	74LS21	MB74LS21M	FCAJ	AND GATE	82- 69
87♦	74LS21	N74LS21D	MULB	AND GATE	82- 70
88♦	74LS21	N74LS21D	PHIN	AND GATE	82- 70
89♦	74LS21	N74LS21D	RTCF	AND GATE	82- 70
90♦	74LS21	N74LS21D	SIC	AND GATE	82- 70
91♦	74LS21	N74LS21D	VALG	AND GATE	82- 70
92♦	74LS21	N74LS21N	MULB	AND GATE	82- 71
93♦	74LS21	N74LS21N	PHIN	AND GATE	82- 71
94♦	74LS21	N74LS21N	RTCF	AND GATE	82- 71
95♦	74LS21	N74LS21N	SIC	AND GATE	82- 71
96♦	74LS21	N74LS21N	VALG	AND GATE	82- 71
97♦	74LS21	*SN74LS21D	TII	AND GATE	82- 76
98♦	74LS21	SN74LS21J	MOTA	AND GATE	82- 77
99♦	74LS21	SN74LS21N	MOTA	AND GATE	82- 78
100♦	74LS21	SN74LS21N	TII	AND GATE	82- 78
101♦	74LS21	T74LS21B1	SGSI	AND GATE	82- 22
102♦	74LS21	T74LS21D1	SGSI	AND GATE	82- 23
103♦	74LS22	74LS22PC	FSC	NAND GATE	104- 40
104♦	74LS22	DM74LS22N	NSC	NAND GATE	104- 86
105♦	74LS22	DN74LS22P1	MATJ	NAND GATE	104- 90
106♦	74LS22	*DN74LS22P4	MATJ	NAND GATE	104- 91
107▼	74LS22	HD74LS22G	HITJ	NAND GATE	107- 34
108♦	74LS22	HD74LS22P	HITJ	NAND GATE	107- 35
109♦	74LS22	M74LS22P	MITA	NAND GATE	104-106
110♦	74LS22	M74LS22P	MITJ	NAND GATE	104-106
111♦	74LS22	MB74LS22	FCAJ	NAND GATE	104-107
112♦	74LS22	MB74LS22M	FCAJ	NAND GATE	104-108
113♦	74LS22	N74LS22F	MULB	NAND GATE	105- 17
114♦	74LS22	N74LS22F	PHIN	NAND GATE	105- 17
115♦	74LS22	N74LS22F	VALG	NAND GATE	105- 17
116♦	74LS22	N74LS22N	MULB	NAND GATE	105- 18
117♦	74LS22	N74LS22N	PHIN	NAND GATE	105- 18
118♦	74LS22	N74LS22N	VALG	NAND GATE	105- 18
119♦	74LS22	SN74LS22J	MOTA	NAND GATE	105- 44
120♦	74LS22	SN74LS22N	MOTA	NAND GATE	105- 45
121♦	74LS22	SN74LS22N	TII	NAND GATE	105- 45
122♦	74LS22	T74LS22B1	SGSI	NAND GATE	105- 51
123♦	74LS22	T74LS22D1	SGSI	NAND GATE	105- 52
124▼	74LS24	SN74LS24N	TII	NAND GATE	99-109
125♦	74LS26	74LS26DC	FSC	NAND GATE	95- 67
126♦	74LS26	74LS26PC	FSC	NAND GATE	95- 68
127♦	74LS26	DM74LS26N	NSC	NAND GATE	96- 6
128♦	74LS26	*N74LS26D	MULB	NAND GATE	96-105
129♦	74LS26	*N74LS26D	PHIN	NAND GATE	96-105
130♦	74LS26	*N74LS26D	RTCF	NAND GATE	96-105
131♦	74LS26	*N74LS26D	SIC	NAND GATE	96-105
132♦	74LS26	*N74LS26D	VALG	NAND GATE	96-105
133♦	74LS26	N74LS26N	MULB	NAND GATE	96-106
134♦	74LS26	N74LS26N	PHIN	NAND GATE	96-106
135♦	74LS26	N74LS26N	RTCF	NAND GATE	96-106
136♦	74LS26	N74LS26N	SIC	NAND GATE	96-106
137♦	74LS26	N74LS26N	VALG	NAND GATE	96-106
138♦	74LS26	T74LS26B1	SGSI	NAND GATE	97- 95
139♦	74LS26	T74LS26D1	SGSI	NAND GATE	97- 96
140♦	74LS27	74LS27DC	FSC	NOR GATE	115- 59
141♦	74LS27	74LS27PC	FSC	NOR GATE	115- 60
142♦	74LS27	DM74LS27N	NSC	NOR GATE	115- 71
143♦	74LS27	DN74LS27P1	MATJ	NOR GATE	115- 74
144♦	74LS27	*DN74LS27P4	MATJ	NOR GATE	115- 75
145▼	74LS27	HD74LS27G	HITJ	NOR GATE	116- 18
146♦	74LS27	HD74LS27P	HITJ	NOR GATE	116- 19
147♦	74LS27	M74LS27P	MITA	NOR GATE	115- 81
148♦	74LS27	M74LS27P	MITJ	NOR GATE	115- 81
149♦	74LS27	MB74LS27	FCAJ	NOR GATE	115- 83
150♦	74LS27	MB74LS27M	FCAJ	NOR GATE	115- 84
151♦	74LS27	*N74LS27D	MULB	NOR GATE	115- 88
152♦	74LS27	*N74LS27D	PHIN	NOR GATE	115- 88
153♦	74LS27	*N74LS27D	RTCF	NOR GATE	115- 88
154♦	74LS27	*N74LS27D	SIC	NOR GATE	115- 88
155♦	74LS27	*N74LS27D	VALG	NOR GATE	115- 88
156♦	74LS27	N74LS27F	MULB	NOR GATE	115- 89
157♦	74LS27	N74LS27F	PHIN	NOR GATE	115- 89
158♦	74LS27	N74LS27F	RTCF	NOR GATE	115- 89
159♦	74LS27	N74LS27F	VALG	NOR GATE	115- 89
160♦	74LS27	N74LS27N	MULB	NOR GATE	115- 90
161♦	74LS27	N74LS27N	PHIN	NOR GATE	115- 90
162♦	74LS27	N74LS27N	RTCF	NOR GATE	115- 90
163♦	74LS27	N74LS27N	SIC	NOR GATE	115- 90
164♦	74LS27	N74LS27N	VALG	NOR GATE	115- 90
165♦	74LS27	*SN74LS27D	TII	NOR GATE	115-107
166♦	74LS27	SN74LS27J	MOTA	NOR GATE	115-108
167♦	74LS27	SN74LS27N	MOTA	NOR GATE	115-109
168♦	74LS27	SN74LS27N	TII	NOR GATE	115-109
169♦	74LS27	T74LS27D1	SGSI	NOR GATE	116- 2
170♦	74LS30	74LS30DC	FSC	NAND GATE	109- 40
171♦	74LS30	74LS30PC	FSC	NAND GATE	109- 41
172♦	74LS30	DM74LS30N	NSC	NAND GATE	109-109
173♦	74LS30	DN74LS30P1	MATJ	NAND GATE	109-110
174♦	74LS30	*DN74LS30P4	MATJ	NAND GATE	110- 1
175▼	74LS30	HD74LS30G	HITJ	NAND GATE	110- 2
176♦	74LS30	HD74LS30P	HITJ	NAND GATE	110- 3
177♦	74LS30	M74LS30P	MITA	NAND GATE	110- 4
178♦	74LS30	M74LS30P	MITJ	NAND GATE	110- 4
179♦	74LS30	MB74LS30	FCAJ	NAND GATE	110- 5
180♦	74LS30	MB74LS30M	FCAJ	NAND GATE	110- 6
181♦	74LS30	*N74LS30D	MULB	NAND GATE	110- 7
182♦	74LS30	*N74LS30D	PHIN	NAND GATE	110- 7
183♦	74LS30	*N74LS30D	RTCF	NAND GATE	110- 7
184♦	74LS30	*N74LS30D	SIC	NAND GATE	110- 7
185♦	74LS30	*N74LS30D	VALG	NAND GATE	110- 7
186♦	74LS30	N74LS30N	MULB	NAND GATE	110- 8
187♦	74LS30	N74LS30N	PHIN	NAND GATE	110- 8
188♦	74LS30	N74LS30N	RTCF	NAND GATE	110- 8
189♦	74LS30	N74LS30N	SIC	NAND GATE	110- 8
190♦	74LS30	N74LS30N	VALG	NAND GATE	110- 8
191♦	74LS30	*SN74LS30D	TII	NAND GATE	110- 13
192♦	74LS30	SN74LS30J	MOTA	NAND GATE	110- 14
193♦	74LS30	SN74LS30N	MOTA	NAND GATE	110- 15
194♦	74LS30	SN74LS30N	TII	NAND GATE	110- 15
195♦	74LS30	T74LS30B1	SGSI	NAND GATE	109- 43
196♦	74LS30	T74LS30D1	SGSI	NAND GATE	109- 44
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198♦	74LS31	SN74LS31N	TII	CLOCK/MV	191- 83
199♦	74LS32	74LS32DC	FSC	OR GATE	120- 11
200♦	74LS32	74LS32PC	FSC	OR GATE	120- 12
201♦	74LS32	DM74LS32N	NSC	OR GATE	120- 25
202♦	74LS32	DN74LS32P1	MATJ	OR GATE	120- 29
203♦	74LS32	*DN74LS32P4	MATJ	OR GATE	120- 30
204▼	74LS32	HD74LS32G	HITJ	OR GATE	121- 70
205♦	74LS32	HD74LS32P	HITJ	OR GATE	121- 71
206♦	74LS32	M74LS32P	MITA	OR GATE	120- 37
207♦	74LS32	M74LS32P	MITJ	OR GATE	120- 37
208♦	74LS32	MB74LS32	FCAJ	OR GATE	120- 38
209♦	74LS32	MB74LS32M	FCAJ	OR GATE	120- 39
210♦	74LS32	*N74LS32D	MULB	OR GATE	120- 63
211♦	74LS32	*N74LS32D	PHIN	OR GATE	120- 63
212♦	74LS32	*N74LS32D	RTCF	OR GATE	120- 63
213♦	74LS32	*N74LS32D	SIC	OR GATE	120- 63
214♦	74LS32	*N74LS32D	VALG	OR GATE	120- 63
215♦	74LS32	N74LS32N	MULB	OR GATE	120- 64
216♦	74LS32	N74LS32N	PHIN	OR GATE	120- 64
217♦	74LS32	N74LS32N	RTCF	OR GATE	120- 64
218♦	74LS32	N74LS32N	SIC	OR GATE	120- 64
219♦	74LS32	N74LS32N	VALG	OR GATE	120- 64
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19	74LS42	*N74LS42D	PHIN	DECODER	127- 40
20	74LS42	*N74LS42D	RTCF	DECODER	127- 40
21	74LS42	*N74LS42D	SIC	DECODER	127- 40
22	74LS42	*N74LS42D	VALG	DECODER	127- 40
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33▼	74LS51	HD74LS51G	HITJ	AND-OR-INV	88- 95
34♦	74LS51	HD74LS51P	HITJ	AND-OR-INV	88- 96
35♦	74LS51	M74LS51P	MITA	AND-OR-INV	88- 97
36♦	74LS51	M74LS51P	MITJ	AND-OR-INV	88- 97
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38♦	74LS51	MB74LS51M	FCAJ	AND-OR-INV	88- 99
39♦	74LS51	*N74LS51D	MULB	AND-OR-INV	88-100
40♦	74LS51	*N74LS51D	PHIN	AND-OR-INV	88-100
41♦	74LS51	*N74LS51D	RTCF	AND-OR-INV	88-100
42♦	74LS51	*N74LS51D	SIC	AND-OR-INV	88-100
43♦	74LS51	*N74LS51D	VALG	AND-OR-INV	88-100
44♦	74LS51	N74LS51N	MULB	AND-OR-INV	88-101
45♦	74LS51	N74LS51N	PHIN	AND-OR-INV	88-101
46♦	74LS51	N74LS51N	RTCF	AND-OR-INV	88-101
47♦	74LS51	N74LS51N	SIC	AND-OR-INV	88-101
48♦	74LS51	N74LS51N	VALG	AND-OR-INV	88-101
49♦	74LS51	*SN74LS51D	TII	AND-OR-INV	88- 80
50♦	74LS51	SN74LS51J	MOTA	AND-OR-INV	88- 81
51♦	74LS51	SN74LS51N	MOTA	AND-OR-INV	88- 82
52♦	74LS51	SN74LS51N	TII	AND-OR-INV	88- 82
53♦	74LS51	T74LS51B1	SGSI	AND-OR-INV	88- 87
54♦	74LS51	T74LS51D1	SGSI	AND-OR-INV	88- 88
55♦	74LS54	74LS54DC	FSC	AND-OR-INV	88- 4
56♦	74LS54	74LS54PC	FSC	AND-OR-INV	88- 5
57♦	74LS54	DM74LS54N	NSC	AND-OR-INV	88- 20
58♦	74LS54	DN74LS54P1	MATJ	AND-OR-INV	88- 9
59♦	74LS54	*DN74LS54P4	MATJ	AND-OR-INV	88- 10
60▼	74LS54	HD74LS54G	HITJ	AND-OR-INV	88- 11
61♦	74LS54	HD74LS54P	HITJ	AND-OR-INV	88- 12
62♦	74LS54	MB74LS54	FCAJ	AND-OR-INV	88- 13
63♦	74LS54	MB74LS54M	FCAJ	AND-OR-INV	88- 14
64♦	74LS54	N74LS54D	MULB	AND-OR-INV	88- 15
65♦	74LS54	N74LS54D	PHIN	AND-OR-INV	88- 15
66♦	74LS54	N74LS54D	RTCF	AND-OR-INV	88- 15
67♦	74LS54	N74LS54D	SIC	AND-OR-INV	88- 15
68♦	74LS54	N74LS54D	VALG	AND-OR-INV	88- 15
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70♦	74LS54	N74LS54N	PHIN	AND-OR-INV	88- 16
71♦	74LS54	N74LS54N	RTCF	AND-OR-INV	88- 16
72♦	74LS54	N74LS54N	SIC	AND-OR-INV	88- 16
73♦	74LS54	N74LS54N	VALG	AND-OR-INV	88- 16
74♦	74LS54	*SN74LS54D	TII	AND-OR-INV	87-110
75♦	74LS54	SN74LS54J	MOTA	AND-OR-INV	88- 1
76♦	74LS54	SN74LS54N	MOTA	AND-OR-INV	88- 2
77♦	74LS54	SN74LS54N	TII	AND-OR-INV	88- 2
78♦	74LS54	T74LS54B1	SGSI	AND-OR-INV	88- 7
79♦	74LS54	T74LS54D1	SGSI	AND-OR-INV	88- 8
80♦	74LS55	74LS55PC	FSC	AND-OR-INV	89- 20
81♦	74LS55	DM74LS55N	NSC	AND-OR-INV	89- 70
82♦	74LS55	DN74LS55P1	MATJ	AND-OR-INV	89- 71
83♦	74LS55	*DN74LS55P4	MATJ	AND-OR-INV	89- 72
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85♦	74LS55	HD74LS55P	HITJ	AND-OR-INV	89- 25
86♦	74LS55	MB74LS55	FCAJ	AND-OR-INV	89- 26
87♦	74LS55	MB74LS55M	FCAJ	AND-OR-INV	89- 27
88♦	74LS55	N74LS55F	MULB	AND-OR-INV	89- 30
89♦	74LS55	N74LS55F	PHIN	AND-OR-INV	89- 30
90♦	74LS55	N74LS55F	VALG	AND-OR-INV	89- 30
91♦	74LS55	N74LS55N	MULB	AND-OR-INV	89- 31
92♦	74LS55	N74LS55N	PHIN	AND-OR-INV	89- 31
93♦	74LS55	N74LS55N	VALG	AND-OR-INV	89- 31
94♦	74LS55	*SN74LS55D	TII	AND-OR-INV	89- 63
95♦	74LS55	SN74LS55J	MOTA	AND-OR-INV	89- 64
96♦	74LS55	SN74LS55N	MOTA	AND-OR-INV	89- 65
97♦	74LS55	SN74LS55N	TII	AND-OR-INV	89- 65
98♦	74LS55	T74LS55B1	SGSI	AND-OR-INV	89- 67
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106♦	74LS73	DN74LS73P1	MATJ	JK FL-FLOP	72- 6
107	74LS73	*DN74LS73P4	MATJ	JK FL-FLOP	72- 7
108♦	74LS73	M74LS73AP	MITA	JK FL-FLOP	72- 21
109♦	74LS73	M74LS73AP	MITJ	JK FL-FLOP	72- 21
110♦	74LS73	MB74LS73A	FCAJ	JK FL-FLOP	70- 47
111♦	74LS73	MB74LS73AM	FCAJ	JK FL-FLOP	70- 48
112♦	74LS73	N74LS73F	MULB	JK FL-FLOP	70- 82
113♦	74LS73	N74LS73F	PHIN	JK FL-FLOP	70- 82
114♦	74LS73	N74LS73F	RTCF	JK FL-FLOP	70- 82
115♦	74LS73	N74LS73F	VALG	JK FL-FLOP	70- 82
116♦	74LS73	N74LS73N	MULB	JK FL-FLOP	70- 83
117♦	74LS73	N74LS73N	PHIN	JK FL-FLOP	70- 83
118♦	74LS73	N74LS73N	RTCF	JK FL-FLOP	70- 83
119♦	74LS73	N74LS73N	SIC	JK FL-FLOP	70- 83
120♦	74LS73	N74LS73N	VALG	JK FL-FLOP	70- 83
121	74LS73	*SN74LS73AD	TII	JK FL-FLOP	72- 41
122♦	74LS73	SN74LS73AJ	MOTA	JK FL-FLOP	72- 42
123♦	74LS73	SN74LS73AN	MOTA	JK FL-FLOP	72- 43
124♦	74LS73	SN74LS73AN	TII	JK FL-FLOP	72- 43
125♦	74LS74	DM74LS74AN	NSC	D FL-FLOP	52- 7
126♦	74LS74	DN74LS74AP1	MATJ	D FL-FLOP	52- 8
127	74LS74	*DN74LS74AP4	MATJ	D FL-FLOP	52- 9
128▼	74LS74	HD74LS74AG	HITJ	D FL-FLOP	51- 58
129♦	74LS74	HD74LS74AP	HITJ	D FL-FLOP	51- 59
130♦	74LS74	M74LS74AP	MITA	D FL-FLOP	52- 56
131♦	74LS74	M74LS74AP	MITJ	D FL-FLOP	52- 56
132♦	74LS74	MB74LS74A	FCAJ	D FL-FLOP	51- 61
133♦	74LS74	MB74LS74AM	FCAJ	D FL-FLOP	51- 62
134	74LS74	*N74LS74AD	MULB	D FL-FLOP	51- 67
135	74LS74	*N74LS74AD	PHIN	D FL-FLOP	51- 67
136	74LS74	*N74LS74AD	RTCF	D FL-FLOP	51- 67
137	74LS74	*N74LS74AD	VALG	D FL-FLOP	51- 67
138♦	74LS74	N74LS74AF	MULB	D FL-FLOP	51- 68
139♦	74LS74	N74LS74AF	PHIN	D FL-FLOP	51- 68
140♦	74LS74	N74LS74AF	RTCF	D FL-FLOP	51- 68
141♦	74LS74	N74LS74AF	VALG	D FL-FLOP	51- 68
142♦	74LS74	N74LS74AN	MULB	D FL-FLOP	51- 69
143♦	74LS74	N74LS74AN	PHIN	D FL-FLOP	51- 69
144♦	74LS74	N74LS74AN	RTCF	D FL-FLOP	51- 69
145♦	74LS74	N74LS74AN	SIC	D FL-FLOP	51- 69
146♦	74LS74	N74LS74AN	VALG	D FL-FLOP	51- 69
147	74LS74	*SN74LS74AD	TII	D FL-FLOP	52- 12
148♦	74LS74	SN74LS74AJ	MOTA	D FL-FLOP	52- 13
149♦	74LS74	SN74LS74AN	MOTA	D FL-FLOP	52- 14
150♦	74LS74	SN74LS74AN	TII	D FL-FLOP	52- 14
151♦	74LS74	T74LS74B1	SGSI	D FL-FLOP	50- 55
152♦	74LS74	T74LS74D1	SGSI	D FL-FLOP	50- 56
153♦	74LS75	DM74LS75N	NSC	4-BIT LCH	231- 26
154▼	74LS75	HD74LS75G	HITJ	4-BIT LCH	230-108
155♦	74LS75	HD74LS75P	HITJ	4-BIT LCH	230-109
156♦	74LS75	M74LS75P	MITA	4-BIT LCH	231- 30
157♦	74LS75	M74LS75P	MITJ	4-BIT LCH	231- 30
158♦	74LS75	*N74LS75D	MULB	2-BIT LCH	229- 73
159♦	74LS75	*N74LS75D	PHIN	2-BIT LCH	229- 73
160♦	74LS75	*N74LS75D	RTCF	2-BIT LCH	229- 73
161♦	74LS75	*N74LS75D	VALG	2-BIT LCH	229- 73
162♦	74LS75	N74LS75F	MULB	2-BIT LCH	229- 81
163♦	74LS75	N74LS75F	PHIN	2-BIT LCH	229- 81
164♦	74LS75	N74LS75F	RTCF	2-BIT LCH	229- 81
165♦	74LS75	N74LS75F	VALG	2-BIT LCH	229- 81
166♦	74LS75	N74LS75N	MULB	2-BIT LCH	229- 74
167♦	74LS75	N74LS75N	PHIN	2-BIT LCH	229- 74
168♦	74LS75	N74LS75N	RTCF	2-BIT LCH	229- 74
169♦	74LS75	N74LS75N	SIC	2-BIT LCH	229- 74
170♦	74LS75	N74LS75N	VALG	2-BIT LCH	229- 74
171♦	74LS75	*SN74LS75D	TII	4-BIT LCH	230-104
172♦	74LS75	SN74LS75J	MOTA	4-BIT LCH	231- 59
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176	74LS76	74LS76PC	FSC	JK FL-FLOP	70- 29
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186♦	74LS76	N74LS76F	MULB	JK FL-FLOP	70- 84
187♦	74LS76	N74LS76F	PHIN	JK FL-FLOP	70- 84
188♦	74LS76	N74LS76F	RTCF	JK FL-FLOP	70- 84
189♦	74LS76	N74LS76F	VALG	JK FL-FLOP	70- 84
190♦	74LS76	N74LS76N	MULB	JK FL-FLOP	70- 85
191♦	74LS76	N74LS76N	PHIN	JK FL-FLOP	70- 85
192♦	74LS76	N74LS76N	RTCF	JK FL-FLOP	70- 85
193♦	74LS76	N74LS76N	SIC	JK FL-FLOP	70- 85
194♦	74LS76	N74LS76N	VALG	JK FL-FLOP	70- 85
195	74LS76	*SN74LS76AD	TII	JK FL-FLOP	72- 44
196♦	74LS76	SN74LS76AJ	MOTA	JK FL-FLOP	72- 45
197♦	74LS76	SN74LS76AN	MOTA	JK FL-FLOP	72- 46
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201♦	74LS77	HD74LS77P	HITJ	4-BIT LCH	230- 99
202♦	74LS77	SN74LS77J	MOTA	4-BIT LCH	231- 61
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205♦	74LS78	DN74LS78P1	MATJ	JK FL-FLOP	72- 10
206	74LS78	*DN74LS78P4	MATJ	JK FL-FLOP	72- 11
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210♦	74LS78	MB74LS78AM	FCAJ	JK FL-FLOP	70- 52
211♦	74LS78	N74LS78F	MULB	JK FL-FLOP	70- 86
212♦	74LS78	N74LS78F	PHIN	JK FL-FLOP	70- 86
213♦	74LS78	N74LS78F	VALG	JK FL-FLOP	70- 86
214♦	74LS78	N74LS78N	MULB	JK FL-FLOP	70- 87
215♦	74LS78	N74LS78N	PHIN	JK FL-FLOP	70- 87
216♦	74LS78	N74LS78N	VALG	JK FL-FLOP	70- 87
217	74LS78	*SN74LS78AD	TII	JK FL-FLOP	72- 47
218♦	74LS78	SN74LS78AJ	MOTA	JK FL-FLOP	72- 48
219♦	74LS78	SN74LS78AN	MOTA	JK FL-FLOP	72- 49
220♦	74LS78	SN74LS78AN	TII	JK FL-FLOP	72- 49

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

GENERIC PRODUCT INDEX

IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	74LS83	74LS83ADC	FSC	ADDER	200- 5
2♦	74LS83	74LS83APC	FSC	ADDER	200- 6
3♦	74LS83	DM74LS83AN	NSC	ADDER	200- 61
4♦	74LS83	DN74LS83AP2	MATJ	ADDER	200- 11
5	74LS83	*DN74LS83AP5	MATJ	ADDER	200- 12
6▼	74LS83	HD74LS83AG	HITJ	ADDER	200- 15
7♦	74LS83	HD74LS83AP	HITJ	ADDER	199-104
8♦	74LS83	M74LS83AP	MITA	ADDER	200- 18
9♦	74LS83	M74LS83AP	MITJ	ADDER	200- 18
10♦	74LS83	MB74LS83A	FCAJ	ADDER	200- 20
11♦	74LS83	MB74LS83AM	FCAJ	ADDER	200- 21
12	74LS83	*N74LS83AD	MULB	ADDER	200- 24
13	74LS83	*N74LS83AD	PHIN	ADDER	200- 24
14	74LS83	*N74LS83AD	RTCF	ADDER	200- 24
15	74LS83	*N74LS83AD	SIC	ADDER	200- 24
16	74LS83	*N74LS83AD	VALG	ADDER	200- 24
17♦	74LS83	N74LS83AF	MULB	ADDER	200- 25
18♦	74LS83	N74LS83AF	PHIN	ADDER	200- 25
19♦	74LS83	N74LS83AF	RTCF	ADDER	200- 25
20♦	74LS83	N74LS83AF	VALG	ADDER	200- 25
21♦	74LS83	N74LS83AN	MULB	ADDER	200- 26
22♦	74LS83	N74LS83AN	PHIN	ADDER	200- 26
23♦	74LS83	N74LS83AN	RTCF	ADDER	200- 26
24♦	74LS83	N74LS83AN	SIC	ADDER	200- 26
25♦	74LS83	N74LS83AN	VALG	ADDER	200- 26
26♦	74LS83	N74LS83F	MULB	ADDER	200- 27
27♦	74LS83	N74LS83F	PHIN	ADDER	200- 27
28	74LS83	*SN74LS83AD	TII	ADDER	200- 43
29♦	74LS83	SN74LS83AJ	MOTA	ADDER	200- 44
30♦	74LS83	SN74LS83AN	MOTA	ADDER	200- 45
31♦	74LS83	SN74LS83AN	TII	ADDER	200- 45
32♦	74LS83	T74LS83B1	SGSI	ADDER	200- 55
33♦	74LS83	T74LS83D1	SGSI	ADDER	200- 56
34♦	74LS85	74LS85DC	FSC	MAGN COMP	216- 96
35♦	74LS85	74LS85PC	FSC	MAGN COMP	216- 97
36♦	74LS85	DM74LS85N	NSC	MAGN COMP	216- 74
37▼	74LS85	HD74LS85G	HITJ	MAGN COMP	217- 2
38♦	74LS85	HD74LS85P	HITJ	MAGN COMP	216- 61
39♦	74LS85	M74LS85P	MITA	MAGN COMP	217- 3
40♦	74LS85	M74LS85P	MITJ	MAGN COMP	217- 3
41♦	74LS85	MB74LS85	FCAJ	MAGN COMP	217- 4
42♦	74LS85	MB74LS85M	FCAJ	MAGN COMP	217- 5
43	74LS85	*N74LS85D	MULB	MAGN COMP	217- 8
44	74LS85	*N74LS85D	PHIN	MAGN COMP	217- 8
45	74LS85	*N74LS85D	RTCF	MAGN COMP	217- 8
46	74LS85	*N74LS85D	SIC	MAGN COMP	217- 8
47	74LS85	*N74LS85D	VALG	MAGN COMP	217- 8
48♦	74LS85	N74LS85F	MULB	MAGN COMP	217- 9
49♦	74LS85	N74LS85F	PHIN	MAGN COMP	217- 9
50♦	74LS85	N74LS85F	RTCF	MAGN COMP	217- 9
51♦	74LS85	N74LS85F	VALG	MAGN COMP	217- 9
52♦	74LS85	N74LS85N	MULB	MAGN COMP	217- 10
53♦	74LS85	N74LS85N	PHIN	MAGN COMP	217- 10
54♦	74LS85	N74LS85N	RTCF	MAGN COMP	217- 10
55♦	74LS85	N74LS85N	SIC	MAGN COMP	217- 10
56♦	74LS85	N74LS85N	VALG	MAGN COMP	217- 10
57	74LS85	*SN74LS85D	TII	MAGN COMP	217- 16
58♦	74LS85	SN74LS85J	MOTA	MAGN COMP	217- 17
59♦	74LS85	SN74LS85N	MOTA	MAGN COMP	217- 18
60♦	74LS85	SN74LS85N	TII	MAGN COMP	217- 18
61♦	74LS86	74LS86DC	FSC	EX-OR GATE	93- 53
62♦	74LS86	74LS86PC	FSC	EX-OR GATE	93- 54
63♦	74LS86	DM74LS86N	NSC	EX-OR GATE	91- 98
64♦	74LS86	DN74LS86P1	MATJ	EX-OR GATE	91-100
65♦	74LS86	*DN74LS86P4	MATJ	EX-OR GATE	91-101
66▼	74LS86	HD74LS86G	HITJ	EX-OR GATE	93- 85
67♦	74LS86	HD74LS86P	HITJ	EX-OR GATE	93- 86
68♦	74LS86	M74LS86P	MITA	EX-OR GATE	93- 91
69♦	74LS86	M74LS86P	MITJ	EX-OR GATE	93- 91
70♦	74LS86	MB74LS86	FCAJ	EX-OR GATE	93- 92
71♦	74LS86	MB74LS86M	FCAJ	EX-OR GATE	93- 93
72♦	74LS86	*N74LS86D	MULB	EX-OR GATE	93- 94
73♦	74LS86	*N74LS86D	PHIN	EX-OR GATE	93- 94
74♦	74LS86	*N74LS86D	RTCF	EX-OR GATE	93- 94
75♦	74LS86	*N74LS86D	SIC	EX-OR GATE	93- 94
76♦	74LS86	*N74LS86D	VALG	EX-OR GATE	93- 94
77♦	74LS86	N74LS86F	MULB	EX-OR GATE	93- 95
78♦	74LS86	N74LS86F	PHIN	EX-OR GATE	93- 95
79♦	74LS86	N74LS86F	RTCF	EX-OR GATE	93- 95
80♦	74LS86	N74LS86F	VALG	EX-OR GATE	93- 95
81♦	74LS86	N74LS86N	MULB	EX-OR GATE	93- 96
82♦	74LS86	N74LS86N	PHIN	EX-OR GATE	93- 96
83♦	74LS86	N74LS86N	RTCF	EX-OR GATE	93- 96
84♦	74LS86	N74LS86N	SIC	EX-OR GATE	93- 96
85♦	74LS86	N74LS86N	VALG	EX-OR GATE	93- 96
86♦	74LS86	*SN74LS86AD	TII	EX-OR GATE	92- 81
87♦	74LS86	SN74LS86AN	TII	EX-OR GATE	92- 82
88♦	74LS86	SN74LS86J	MOTA	EX-OR GATE	93-110
89♦	74LS86	SN74LS86N	MOTA	EX-OR GATE	94- 1
90♦	74LS86	T74LS86B1	SGSI	EX-OR GATE	93- 58
91♦	74LS86	T74LS86D1	SGSI	EX-OR GATE	93- 59
92♦	74LS90	74LS90DC	FSC	DEC CNTR	174-104
93♦	74LS90	74LS90PC	FSC	DEC CNTR	174-105
94♦	74LS90	DM74LS90N	NSC	DEC CNTR	175- 84
95♦	74LS90	DN74LS90P1	MATJ	DEC CNTR	175- 86
96♦	74LS90	*DN74LS90P4	MATJ	DEC CNTR	175- 87
97▼	74LS90	HD74LS90G	HITJ	DEC CNTR	175- 12
98♦	74LS90	HD74LS90P	HITJ	DEC CNTR	175- 13
99♦	74LS90	M74LS90P	MITA	DEC CNTR	176- 38
100♦	74LS90	M74LS90P	MITJ	DEC CNTR	176- 38
101♦	74LS90	N74LS90F	MULB	DEC CNTR	173- 86
102♦	74LS90	N74LS90F	PHIN	DEC CNTR	173- 86
103♦	74LS90	N74LS90F	RTCF	DEC CNTR	173- 86
104♦	74LS90	N74LS90F	VALG	DEC CNTR	173- 86
105♦	74LS90	N74LS90N	MULB	DEC CNTR	175- 14
106♦	74LS90	N74LS90N	PHIN	DEC CNTR	175- 14
107♦	74LS90	N74LS90N	RTCF	DEC CNTR	175- 14
108♦	74LS90	N74LS90N	SIC	DEC CNTR	175- 14
109♦	74LS90	N74LS90N	VALG	DEC CNTR	175- 14
110♦	74LS90	*SN74LS90D	TII	DEC CNTR	175- 96
111♦	74LS90	SN74LS90J	MOTA	DEC CNTR	175- 97
112♦	74LS90	SN74LS90N	MOTA	DEC CNTR	175- 98
113♦	74LS90	SN74LS90N	TII	DEC CNTR	175- 98
114♦	74LS92	74LS92PC	FSC	COUNTER	167- 88
115♦	74LS92	DM74LS92N	NSC	COUNTER	167-101
116♦	74LS92	DN74LS92P1	MATJ	COUNTER	167-104
117♦	74LS92	*DN74LS92P4	MATJ	COUNTER	167-105
118▼	74LS92	HD74LS92G	HITJ	COUNTER	166- 81
119♦	74LS92	HD74LS92P	HITJ	COUNTER	166- 82
120♦	74LS92	M74LS92P	MITA	COUNTER	168- 3
121♦	74LS92	M74LS92P	MITJ	COUNTER	168- 3
122♦	74LS92	N74LS92F	MULB	COUNTER	167- 82
123♦	74LS92	N74LS92F	PHIN	COUNTER	167- 82
124♦	74LS92	N74LS92F	RTCF	COUNTER	167- 82
125♦	74LS92	N74LS92F	VALG	COUNTER	167- 82
126♦	74LS92	N74LS92N	MULB	COUNTER	167- 96
127♦	74LS92	N74LS92N	PHIN	COUNTER	167- 96
128♦	74LS92	N74LS92N	RTCF	COUNTER	167- 96
129♦	74LS92	N74LS92N	SIC	COUNTER	167- 96
130♦	74LS92	N74LS92N	VALG	COUNTER	167- 96
131♦	74LS92	*SN74LS92D	TII	COUNTER	167-108
132♦	74LS92	SN74LS92J	MOTA	COUNTER	167-109
133♦	74LS92	SN74LS92N	MOTA	COUNTER	167-110
134♦	74LS92	SN74LS92N	TII	COUNTER	167-110
135♦	74LS93	74LS93DC	FSC	HEX CNTR	157- 24
136♦	74LS93	74LS93PC	FSC	HEX CNTR	157- 25
137♦	74LS93	DM74LS93N	NSC	HEX CNTR	158- 6
138♦	74LS93	DN74LS93P1	MATJ	HEX CNTR	158- 10
139♦	74LS93	*DN74LS93P4	MATJ	HEX CNTR	158- 11
140▼	74LS93	HD74LS93G	HITJ	HEX CNTR	157- 49
141♦	74LS93	HD74LS93P	HITJ	HEX CNTR	157- 50
142♦	74LS93	M74LS93P	MITA	HEX CNTR	158- 59
143♦	74LS93	M74LS93P	MITJ	HEX CNTR	158- 59
144♦	74LS93	*N74LS93D	MULB	HEX CNTR	157- 51
145♦	74LS93	*N74LS93D	PHIN	HEX CNTR	157- 51
146♦	74LS93	*N74LS93D	RTCF	HEX CNTR	157- 51
147♦	74LS93	*N74LS93D	SIC	HEX CNTR	157- 51
148♦	74LS93	*N74LS93D	VALG	HEX CNTR	157- 51
149♦	74LS93	N74LS93F	MULB	HEX CNTR	155- 69
150♦	74LS93	N74LS93F	PHIN	HEX CNTR	155- 69
151♦	74LS93	N74LS93F	RTCF	HEX CNTR	155- 69
152♦	74LS93	N74LS93F	VALG	HEX CNTR	155- 69
153♦	74LS93	N74LS93N	MULB	HEX CNTR	157- 52
154♦	74LS93	N74LS93N	PHIN	HEX CNTR	157- 52
155♦	74LS93	N74LS93N	RTCF	HEX CNTR	157- 52
156♦	74LS93	N74LS93N	SIC	HEX CNTR	157- 52
157♦	74LS93	N74LS93N	VALG	HEX CNTR	157- 52
158♦	74LS93	*SN74LS93D	TII	HEX CNTR	158- 20
159♦	74LS93	SN74LS93J	MOTA	HEX CNTR	158- 21
160♦	74LS93	SN74LS93N	MOTA	HEX CNTR	158- 22
161♦	74LS93	SN74LS93N	TII	HEX CNTR	158- 22
162♦	74LS107	DM74LS107AN	NSC	JK FL-FLOP	72- 2
163♦	74LS107	DN74LS107P1	MATJ	JK FL-FLOP	72- 12
164	74LS107	*DN74LS107P4	MATJ	JK FL-FLOP	72- 13
165♦	74LS107	HD74LS107A	HITJ	JK FL-FLOP	72- 20
166♦	74LS107	M74LS107AP	MITA	JK FL-FLOP	72- 23
167♦	74LS107	M74LS107AP	MITJ	JK FL-FLOP	72- 23
168♦	74LS107	MB74LS107	FCAJ	JK FL-FLOP	70- 53
169♦	74LS107	MB74LS107A	FCAJ	JK FL-FLOP	70- 54
170♦	74LS107	MB74LS107AM	FCAJ	JK FL-FLOP	70- 55
171♦	74LS107	MB74LS107M	FCAJ	JK FL-FLOP	70- 56
172	74LS107	*N74LS107D	MULB	JK FL-FLOP	70- 88
173	74LS107	*N74LS107D	PHIN	JK FL-FLOP	70- 88
174	74LS107	*N74LS107D	RTCF	JK FL-FLOP	70- 88
175	74LS107	*N74LS107D	SIC	JK FL-FLOP	70- 88
176	74LS107	*N74LS107D	VALG	JK FL-FLOP	70- 88
177♦	74LS107	N74LS107F	MULB	JK FL-FLOP	70- 89
178♦	74LS107	N74LS107F	PHIN	JK FL-FLOP	70- 89
179♦	74LS107	N74LS107F	RTCF	JK FL-FLOP	70- 89
180♦	74LS107	N74LS107F	VALG	JK FL-FLOP	70- 89
181♦	74LS107	N74LS107N	MULB	JK FL-FLOP	70- 90
182♦	74LS107	N74LS107N	PHIN	JK FL-FLOP	70- 90
183♦	74LS107	N74LS107N	RTCF	JK FL-FLOP	70- 90
184♦	74LS107	N74LS107N	SIC	JK FL-FLOP	70- 90
185♦	74LS107	N74LS107N	VALG	JK FL-FLOP	70- 90
186	74LS107	*SN74LS107AD	TII	JK FL-FLOP	72- 50
187♦	74LS107	SN74LS107AJ	MOTA	JK FL-FLOP	72- 51
188♦	74LS107	SN74LS107AN	MOTA	JK FL-FLOP	72- 52
189♦	74LS107	SN74LS107AN	TII	JK FL-FLOP	72- 52
190♦	74LS109	74LS109DC	FSC	JK FL-FLOP	71- 96
191♦	74LS109	74LS109PC	FSC	JK FL-FLOP	71- 97
192♦	74LS109	DM74LS109AN	NSC	JK FL-FLOP	71- 30
193♦	74LS109	DN74LS109P2	MATJ	JK FL-FLOP	71- 31
194	74LS109	*DN74LS109P5	MATJ	JK FL-FLOP	71- 32
195▼	74LS109	HD74LS109AG	HITJ	JK FL-FLOP	71- 33
196♦	74LS109	HD74LS109AP	HITJ	JK FL-FLOP	69- 49
197	74LS109	M74LS109AP	MITA	JK FL-FLOP	69- 62
198	74LS109	M74LS109AP	MITJ	JK FL-FLOP	69- 62
199♦	74LS109	MB74LS109A	FCAJ	JK FL-FLOP	69- 63
200♦	74LS109	MB74LS109AM	FCAJ	JK FL-FLOP	69- 64
201♦	74LS109	N74LS109AF	MULB	JK FL-FLOP	69- 71
202♦	74LS109	N74LS109AF	PHIN	JK FL-FLOP	69- 71
203♦	74LS109	N74LS109AF	VALG	JK FL-FLOP	69- 71
204♦	74LS109	N74LS109AN	MULB	JK FL-FLOP	69- 72
205♦	74LS109	N74LS109AN	PHIN	JK FL-FLOP	69- 72
206♦	74LS109	N74LS109AN	RTCF	JK FL-FLOP	69- 72
207♦	74LS109	N74LS109AN	SIC	JK FL-FLOP	69- 72
208♦	74LS109	N74LS109AN	VALG	JK FL-FLOP	69- 72
209	74LS109	*N74LS109D	MULB	JK FL-FLOP	69- 73
210	74LS109	*N74LS109D	PHIN	JK FL-FLOP	69- 73
211	74LS109	*N74LS109D	RTCF	JK FL-FLOP	69- 73
212	74LS109	*N74LS109D	SIC	JK FL-FLOP	69- 73
213	74LS109	*N74LS109D	VALG	JK FL-FLOP	69- 73
214♦	74LS109	N74LS109N	MULB	JK FL-FLOP	69- 74
215♦	74LS109	N74LS109N	PHIN	JK FL-FLOP	69- 74
216♦	74LS109	N74LS109N	RTCF	JK FL-FLOP	69- 74
217♦	74LS109	N74LS109N	SIC	JK FL-FLOP	69- 74
218♦	74LS109	N74LS109N	VALG	JK FL-FLOP	69- 74
219	74LS109	*SN74LS109AD	TII	JK FL-FLOP	71- 36
220♦	74LS109	SN74LS109AJ	MOTA	JK FL-FLOP	71- 37

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

GENERIC PRODUCT INDEX

IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	74LS109	SN74LS109AN	MOTA	JK FL-FLOP	71- 38
2♦	74LS109	SN74LS109AN	TII	JK FL-FLOP	71- 38
3♦	74LS109	T74LS109B1	SGSI	JK FL-FLOP	67- 10
4♦	74LS109	T74LS109D1	SGSI	JK FL-FLOP	67- 11
5♦	74LS112	74LS112DC	FSC	JK FL-FLOP	71- 98
6♦	74LS112	74LS112PC	FSC	JK FL-FLOP	71- 99
7♦	74LS112	DM74LS112AN	NSC	JK FL-FLOP	72- 3
8♦	74LS112	DN74LS112P2	MATJ	JK FL-FLOP	72- 14
9	74LS112	*DN74LS112P5	MATJ	JK FL-FLOP	72- 15
10▼	74LS112	HD74LS112G	HITJ	JK FL-FLOP	71- 48
11♦	74LS112	HD74LS112P	HITJ	JK FL-FLOP	70- 41
12♦	74LS112	M74LS112AP	MITA	JK FL-FLOP	72- 24
13♦	74LS112	M74LS112AP	MITJ	JK FL-FLOP	72- 24
14♦	74LS112	MB74LS112A	FCAJ	JK FL-FLOP	70- 57
15♦	74LS112	MB74LS112AM	FCAJ	JK FL-FLOP	70- 58
16	74LS112	*N74LS112D	MULB	JK FL-FLOP	70- 91
17	74LS112	*N74LS112D	PHIN	JK FL-FLOP	70- 91
18	74LS112	*N74LS112D	RTCF	JK FL-FLOP	70- 91
19	74LS112	*N74LS112D	SIC	JK FL-FLOP	70- 91
20	74LS112	*N74LS112D	VALG	JK FL-FLOP	70- 91
21♦	74LS112	N74LS112F	MULB	JK FL-FLOP	70- 92
22♦	74LS112	N74LS112F	PHIN	JK FL-FLOP	70- 92
23♦	74LS112	N74LS112F	RTCF	JK FL-FLOP	70- 92
24♦	74LS112	N74LS112F	VALG	JK FL-FLOP	70- 92
25♦	74LS112	N74LS112N	MULB	JK FL-FLOP	70- 93
26♦	74LS112	N74LS112N	PHIN	JK FL-FLOP	70- 93
27♦	74LS112	N74LS112N	RTCF	JK FL-FLOP	70- 93
28♦	74LS112	N74LS112N	SIC	JK FL-FLOP	70- 93
29♦	74LS112	N74LS112N	VALG	JK FL-FLOP	70- 93
30	74LS112	*SN74LS112AD	TII	JK FL-FLOP	72- 53
31♦	74LS112	SN74LS112AJ	MOTA	JK FL-FLOP	72- 54
32♦	74LS112	SN74LS112AN	MOTA	JK FL-FLOP	72- 55
33♦	74LS112	SN74LS112AN	TII	JK FL-FLOP	72- 55
34♦	74LS112	T74LS112B1	SGSI	JK FL-FLOP	67- 12
35♦	74LS112	T74LS112D1	SGSI	JK FL-FLOP	67- 13
36♦	74LS113	74LS113PC	FSC	JK FL-FLOP	71-100
37♦	74LS113	DM74LS113AN	NSC	JK FL-FLOP	72- 4
38♦	74LS113	DN74LS113P1	MATJ	JK FL-FLOP	72- 16
39	74LS113	*DN74LS113P4	MATJ	JK FL-FLOP	72- 17
40▼	74LS113	HD74LS113G	HITJ	JK FL-FLOP	70- 42
41♦	74LS113	HD74LS113P	HITJ	JK FL-FLOP	70- 43
42♦	74LS113	M74LS113AP	MITA	JK FL-FLOP	72- 25
43♦	74LS113	M74LS113AP	MITJ	JK FL-FLOP	72- 25
44♦	74LS113	MB74LS113A	FCAJ	JK FL-FLOP	70- 59
45♦	74LS113	MB74LS113AM	FCAJ	JK FL-FLOP	70- 60
46♦	74LS113	N74LS113F	MULB	JK FL-FLOP	70- 94
47♦	74LS113	N74LS113F	PHIN	JK FL-FLOP	70- 94
48♦	74LS113	N74LS113F	RTCF	JK FL-FLOP	70- 94
49♦	74LS113	N74LS113F	VALG	JK FL-FLOP	70- 94
50♦	74LS113	N74LS113N	MULB	JK FL-FLOP	70- 95
51♦	74LS113	N74LS113N	PHIN	JK FL-FLOP	70- 95
52♦	74LS113	N74LS113N	RTCF	JK FL-FLOP	70- 95
53♦	74LS113	N74LS113N	SIC	JK FL-FLOP	70- 95
54♦	74LS113	N74LS113N	VALG	JK FL-FLOP	70- 95
55	74LS113	*SN74LS113AD	TII	JK FL-FLOP	72- 56
56♦	74LS113	SN74LS113AJ	MOTA	JK FL-FLOP	72- 57
57♦	74LS113	SN74LS113AN	MOTA	JK FL-FLOP	72- 58
58♦	74LS113	SN74LS113AN	TII	JK FL-FLOP	72- 58
59♦	74LS113	T74LS113B1	SGSI	JK FL-FLOP	72- 64
60♦	74LS113	T74LS113D1	SGSI	JK FL-FLOP	72- 65
61♦	74LS114	74LS114PC	FSC	JK FL-FLOP	71-101
62♦	74LS114	DM74LS114AN	NSC	JK FL-FLOP	72- 5
63♦	74LS114	DN74LS114P1	MATJ	JK FL-FLOP	72- 18
64	74LS114	*DN74LS114P4	MATJ	JK FL-FLOP	72- 19
65▼	74LS114	HD74LS114G	HITJ	JK FL-FLOP	70- 44
66♦	74LS114	HD74LS114P	HITJ	JK FL-FLOP	70- 45
67♦	74LS114	M74LS114AP	MITA	JK FL-FLOP	72- 26
68♦	74LS114	M74LS114AP	MITJ	JK FL-FLOP	72- 26
69♦	74LS114	MB74LS114A	FCAJ	JK FL-FLOP	70- 61
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133♦	74LS136	N74LS136F	RTCF	EX-OR GATE	92- 58
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135♦	74LS136	N74LS136N	MULB	EX-OR GATE	92- 59
136♦	74LS136	N74LS136N	PHIN	EX-OR GATE	92- 59
137♦	74LS136	N74LS136N	RTCF	EX-OR GATE	92- 59
138♦	74LS136	N74LS136N	SIC	EX-OR GATE	92- 59
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180♦	74LS161	N74LS161AD	RTCF	HEX CNTR	156- 85
181♦	74LS161	N74LS161AD	SIC	HEX CNTR	156- 85
182♦	74LS161	N74LS161AD	VALG	HEX CNTR	156- 85
183♦	74LS161	N74LS161AN	MULB	HEX CNTR	156- 86
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109♦	74LS175	MB74LS175	FCAJ	D FL-FLOP	54-108
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137♦	74LS181	N74LS181N	RTCF	4-BIT ALU	222- 78
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141♦	74LS181	SN74LS181N	MOTA	4-BIT ALU	222- 84
142♦	74LS181	SN74LS181N	TII	4-BIT ALU	222- 84
143♦	74LS182	SN74LS182J	MOTA	PARITY GEN	225- 41
144♦	74LS182	SN74LS182N	MOTA	PARITY GEN	225- 42
145♦	74LS183	MB74LS183	FCAJ	ADDER	198- 48
146♦	74LS183	MB74LS183M	FCAJ	ADDER	198- 49
147♦	74LS183	SN74LS183J	MOTA	ADDER	198-105
148♦	74LS183	SN74LS183N	MOTA	ADDER	198-104
149♦	74LS183	SN74LS183N	TII	ADDER	198-104
150♦	74LS190	74LS190PC	FSC	DEC CNTR	179-104
151♦	74LS190	DM74LS190N	NSC	DEC CNTR	178-108
152♦	74LS190	DN74LS190P2	MATJ	DEC CNTR	179- 3
153♦	74LS190	*DN74LS190P5	MATJ	DEC CNTR	179- 4
154▼	74LS190	HD74LS190G	HITJ	DEC CNTR	178- 62
155♦	74LS190	HD74LS190P	HITJ	DEC CNTR	178- 63
156♦	74LS190	M74LS190P	MITA	DEC CNTR	180- 1
157♦	74LS190	M74LS190P	MITJ	DEC CNTR	180- 1
158♦	74LS190	MB74LS190	FCAJ	DEC CNTR	178- 65
159♦	74LS190	MB74LS190M	FCAJ	DEC CNTR	178- 66
160♦	74LS190	N74LS190F	MULB	DEC CNTR	178- 67
161♦	74LS190	N74LS190F	PHIN	DEC CNTR	178- 67
162♦	74LS190	N74LS190F	VALG	DEC CNTR	178- 67
163♦	74LS190	N74LS190N	MULB	DEC CNTR	178- 68
164♦	74LS190	N74LS190N	PHIN	DEC CNTR	178- 68
165♦	74LS190	N74LS190N	VALG	DEC CNTR	178- 68
166♦	74LS190	*SN74LS190D	TII	DEC CNTR	179- 41
167♦	74LS190	SN74LS190J	MOTA	DEC CNTR	179- 42
168♦	74LS190	SN74LS190N	MOTA	DEC CNTR	179- 43
169♦	74LS190	SN74LS190N	TII	DEC CNTR	179- 43
170♦	74LS191	74LS191DC	FSC	HEX CNTR	163- 9
171♦	74LS191	74LS191PC	FSC	HEX CNTR	163- 10
172♦	74LS191	DM74LS191N	NSC	HEX CNTR	162- 4
173♦	74LS191	DN74LS191P2	MATJ	HEX CNTR	162- 9
174♦	74LS191	*DN74LS191P5	MATJ	HEX CNTR	162- 10
175▼	74LS191	HD74LS191G	HITJ	HEX CNTR	161- 74
176♦	74LS191	HD74LS191P	HITJ	HEX CNTR	161- 75
177♦	74LS191	M74LS191P	MITA	HEX CNTR	163- 23
178♦	74LS191	M74LS191P	MITJ	HEX CNTR	163- 23
179♦	74LS191	MB74LS191	FCAJ	HEX CNTR	161- 76
180♦	74LS191	MB74LS191M	FCAJ	HEX CNTR	161- 77
181♦	74LS191	*N74LS191D	MULB	HEX CNTR	161- 78
182♦	74LS191	*N74LS191D	PHIN	HEX CNTR	161- 78
183♦	74LS191	*N74LS191D	RTCF	HEX CNTR	161- 78
184♦	74LS191	*N74LS191D	SIC	HEX CNTR	161- 78
185♦	74LS191	*N74LS191D	VALG	HEX CNTR	161- 78
186♦	74LS191	N74LS191N	MULB	HEX CNTR	161- 79
187♦	74LS191	N74LS191N	PHIN	HEX CNTR	161- 79
188♦	74LS191	N74LS191N	RTCF	HEX CNTR	161- 79
189♦	74LS191	N74LS191N	SIC	HEX CNTR	161- 79
190♦	74LS191	N74LS191N	VALG	HEX CNTR	161- 79
191♦	74LS191	*SN74LS191D	TII	HEX CNTR	162- 45
192♦	74LS191	SN74LS191J	MOTA	HEX CNTR	162- 46
193♦	74LS191	SN74LS191N	MOTA	HEX CNTR	162- 47
194♦	74LS191	SN74LS191N	TII	HEX CNTR	162- 47
195♦	74LS192	74LS192DC	FSC	DEC CNTR	179-109
196♦	74LS192	74LS192PC	FSC	DEC CNTR	179-110
197♦	74LS192	DM74LS192N	NSC	DEC CNTR	179- 79
198♦	74LS192	DN74LS192P2	MATJ	DEC CNTR	179- 80
199♦	74LS192	*DN74LS192P5	MATJ	DEC CNTR	179- 81
200▼	74LS192	HD74LS192G	HITJ	DEC CNTR	179- 5
201♦	74LS192	HD74LS192P	HITJ	DEC CNTR	179- 6
202♦	74LS192	M74LS192P	MITA	DEC CNTR	180- 2
203♦	74LS192	M74LS192P	MITJ	DEC CNTR	180- 2
204♦	74LS192	MB74LS192	FCAJ	DEC CNTR	179- 10
205♦	74LS192	MB74LS192M	FCAJ	DEC CNTR	179- 11
206♦	74LS192	N74LS192F	MULB	DEC CNTR	179- 14
207♦	74LS192	N74LS192F	PHIN	DEC CNTR	179- 14
208♦	74LS192	N74LS192F	RTCF	DEC CNTR	179- 14
209♦	74LS192	N74LS192F	VALG	DEC CNTR	179- 14
210♦	74LS192	N74LS192N	MULB	DEC CNTR	179- 15
211♦	74LS192	N74LS192N	PHIN	DEC CNTR	179- 15
212♦	74LS192	N74LS192N	RTCF	DEC CNTR	179- 15
213♦	74LS192	N74LS192N	SIC	DEC CNTR	179- 15
214♦	74LS192	N74LS192N	VALG	DEC CNTR	179- 15
215♦	74LS192	*SN74LS192D	TII	DEC CNTR	179- 93
216♦	74LS192	SN74LS192J	MOTA	DEC CNTR	179- 94
217♦	74LS192	SN74LS192N	MOTA	DEC CNTR	179- 95
218♦	74LS192	SN74LS192N	TII	DEC CNTR	179- 95
219♦	74LS193	74LS193DC	FSC	HEX CNTR	163- 21
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3♦	74LS193	*DN74LS193P5	MATJ	HEX CNTR	162- 93
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5♦	74LS193	HD74LS193P	HITJ	HEX CNTR	162- 12
6♦	74LS193	M74LS193P	MITA	HEX CNTR	163- 18
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8♦	74LS193	MB74LS193	FCAJ	HEX CNTR	165- 37
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10♦	74LS193	*N74LS193D	MULB	HEX CNTR	162- 23
11♦	74LS193	*N74LS193D	PHIN	HEX CNTR	162- 23
12♦	74LS193	*N74LS193D	RTCF	HEX CNTR	162- 23
13♦	74LS193	*N74LS193D	SIC	HEX CNTR	162- 23
14♦	74LS193	*N74LS193D	VALG	HEX CNTR	162- 23
15♦	74LS193	N74LS193N	MULB	HEX CNTR	162- 24
16♦	74LS193	N74LS193N	PHIN	HEX CNTR	162- 24
17♦	74LS193	N74LS193N	RTCF	HEX CNTR	162- 24
18♦	74LS193	N74LS193N	SIC	HEX CNTR	162- 24
19♦	74LS193	N74LS193N	VALG	HEX CNTR	162- 24
20♦	74LS193	*SN74LS193D	TII	HEX CNTR	162-105
21♦	74LS193	SN74LS193J	MOTA	HEX CNTR	162-106
22♦	74LS193	SN74LS193N	MOTA	HEX CNTR	162-107
23♦	74LS193	SN74LS193N	TII	HEX CNTR	162-107
24♦	74LS196	74LS196PC	FSC	DEC CNTR	176- 19
25♦	74LS196	DM74LS196N	NSC	DEC CNTR	175- 56
26♦	74LS196	DN74LS196P1	MATJ	DEC CNTR	175- 57
27♦	74LS196	*DN74LS196P4	MATJ	DEC CNTR	175- 58
28♦	74LS196	M74LS196P	MITA	DEC CNTR	176- 45
29♦	74LS196	M74LS196P	MITJ	DEC CNTR	176- 45
30♦	74LS196	N74LS196F	MULB	DEC CNTR	174- 99
31♦	74LS196	N74LS196F	PHIN	DEC CNTR	174- 99
32♦	74LS196	N74LS196F	VALG	DEC CNTR	174- 99
33♦	74LS196	N74LS196N	MULB	DEC CNTR	174-100
34♦	74LS196	N74LS196N	PHIN	DEC CNTR	174-100
35♦	74LS196	N74LS196N	VALG	DEC CNTR	174-100
36♦	74LS196	*SN74LS196D	TII	DEC CNTR	175- 75
37♦	74LS196	SN74LS196J	MOTA	DEC CNTR	175- 76
38♦	74LS196	SN74LS196N	MOTA	DEC CNTR	175- 77
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40♦	74LS197	74LS197DC	FSC	HEX CNTR	158- 57
41♦	74LS197	74LS197PC	FSC	HEX CNTR	158- 58
42♦	74LS197	DM74LS197N	NSC	HEX CNTR	157- 88
43♦	74LS197	DN74LS197P1	MATJ	HEX CNTR	157- 89
44♦	74LS197	*DN74LS197P4	MATJ	HEX CNTR	157- 90
45♦	74LS197	M74LS197P	MITA	HEX CNTR	158- 89
46♦	74LS197	M74LS197P	MITJ	HEX CNTR	158- 89
47♦	74LS197	*N74LS197D	MULB	HEX CNTR	157- 16
48♦	74LS197	*N74LS197D	PHIN	HEX CNTR	157- 16
49♦	74LS197	*N74LS197D	RTCF	HEX CNTR	157- 16
50♦	74LS197	*N74LS197D	SIC	HEX CNTR	157- 16
51♦	74LS197	*N74LS197D	VALG	HEX CNTR	157- 16
52♦	74LS197	N74LS197N	MULB	HEX CNTR	157- 17
53♦	74LS197	N74LS197N	PHIN	HEX CNTR	157- 17
54♦	74LS197	N74LS197N	RTCF	HEX CNTR	157- 17
55♦	74LS197	N74LS197N	SIC	HEX CNTR	157- 17
56♦	74LS197	N74LS197N	VALG	HEX CNTR	157- 17
57♦	74LS197	*SN74LS197D	TII	HEX CNTR	157-107
58♦	74LS197	SN74LS197J	MOTA	HEX CNTR	157-108
59♦	74LS197	SN74LS197N	MOTA	HEX CNTR	157-109
60♦	74LS197	SN74LS197N	TII	HEX CNTR	157-109
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63♦	74LS221	HD74LS221P	HITJ	CLOCK/MV	190- 16
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65♦	74LS221	M74LS221P	MITJ	CLOCK/MV	190- 44
66♦	74LS221	MB74LS221	FCAJ	CLOCK/MV	190- 51
67♦	74LS221	MB74LS221M	FCAJ	CLOCK/MV	190- 52
68♦	74LS221	N74LS221F	MULB	CLOCK/MV	190-103
69♦	74LS221	N74LS221F	PHIN	CLOCK/MV	190-103
70♦	74LS221	N74LS221F	VALG	CLOCK/MV	190-103
71♦	74LS221	N74LS221N	MULB	CLOCK/MV	190-104
72♦	74LS221	N74LS221N	PHIN	CLOCK/MV	190-104
73♦	74LS221	N74LS221N	VALG	CLOCK/MV	190-104
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76♦	74LS221	SN74LS221N	MOTA	CLOCK/MV	191- 61
77♦	74LS221	SN74LS221N	TII	CLOCK/MV	191- 61
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79	74LS256	74LS256PC	FSC	4-BIT LCH	231- 21
80♦	74LS256	M74LS256P	MITA	4-BIT LCH	231- 78
81♦	74LS256	M74LS256P	MITJ	4-BIT LCH	231- 78
82♦	74LS256	*N74LS256D	MULB	4-BIT LCH	231- 79
83♦	74LS256	*N74LS256D	PHIN	4-BIT LCH	231- 79
84♦	74LS256	*N74LS256D	RTCF	4-BIT LCH	231- 79
85♦	74LS256	*N74LS256D	SIC	4-BIT LCH	231- 79
86♦	74LS256	*N74LS256D	VALG	4-BIT LCH	231- 79
87♦	74LS256	N74LS256F	MULB	4-BIT LCH	231-105
88♦	74LS256	N74LS256F	PHIN	4-BIT LCH	231-105
89♦	74LS256	N74LS256F	RTCF	4-BIT LCH	231-105
90♦	74LS256	N74LS256F	VALG	4-BIT LCH	231-105
91♦	74LS256	N74LS256N	MULB	4-BIT LCH	231- 80
92♦	74LS256	N74LS256N	PHIN	4-BIT LCH	231- 80
93♦	74LS256	N74LS256N	RTCF	4-BIT LCH	231- 80
94♦	74LS256	N74LS256N	SIC	4-BIT LCH	231- 80
95♦	74LS256	N74LS256N	VALG	4-BIT LCH	231- 80
96♦	74LS256	SN74LS256J	MOTA	4-BIT LCH	231- 63
97♦	74LS256	SN74LS256N	MOTA	4-BIT LCH	231- 64
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99♦	74LS259	74LS259PC	FSC	8-BIT LCH	238- 21
100♦	74LS259	DM74LS259N	NSC	8-BIT LCH	239- 30
101▼	74LS259	HD74LS259G	HITJ	8-BIT LCH	238- 91
102♦	74LS259	HD74LS259P	HITJ	8-BIT LCH	238- 92
103♦	74LS259	M74LS259P	MITA	8-BIT LCH	239- 31
104♦	74LS259	M74LS259P	MITJ	8-BIT LCH	239- 31
105♦	74LS259	*N74LS259D	MULB	8-BIT LCH	238- 52
106♦	74LS259	*N74LS259D	PHIN	8-BIT LCH	238- 52
107♦	74LS259	*N74LS259D	RTCF	8-BIT LCH	238- 52
108♦	74LS259	*N74LS259D	SIC	8-BIT LCH	238- 52
109♦	74LS259	*N74LS259D	VALG	8-BIT LCH	238- 52
110♦	74LS259	N74LS259F	MULB	8-BIT LCH	239- 32
111♦	74LS259	N74LS259F	PHIN	8-BIT LCH	239- 32
112♦	74LS259	N74LS259F	RTCF	8-BIT LCH	239- 32
113♦	74LS259	N74LS259F	VALG	8-BIT LCH	239- 32
114♦	74LS259	N74LS259N	MULB	8-BIT LCH	238- 53
115♦	74LS259	N74LS259N	PHIN	8-BIT LCH	238- 53
116♦	74LS259	N74LS259N	RTCF	8-BIT LCH	238- 53
117♦	74LS259	N74LS259N	SIC	8-BIT LCH	238- 53
118♦	74LS259	N74LS259N	VALG	8-BIT LCH	238- 53
119♦	74LS259	*SN74LS259BD	TII	8-BIT LCH	238- 38
120♦	74LS259	SN74LS259BN	TII	8-BIT LCH	238- 39
121♦	74LS259	SN74LS259J	MOTA	8-BIT LCH	239- 35
122♦	74LS259	SN74LS259N	MOTA	8-BIT LCH	239- 36
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124♦	74LS260	74LS260PC	FSC	NOR GATE	119- 29
125♦	74LS260	DN74LS260P1	MATJ	NOR GATE	119- 30
126♦	74LS260	*DN74LS260P4	MATJ	NOR GATE	119- 31
127♦	74LS260	*N74LS260D	MULB	NOR GATE	119- 32
128♦	74LS260	*N74LS260D	PHIN	NOR GATE	119- 32
129♦	74LS260	*N74LS260D	RTCF	NOR GATE	119- 32
130♦	74LS260	*N74LS260D	SIC	NOR GATE	119- 32
131♦	74LS260	*N74LS260D	VALG	NOR GATE	119- 32
132♦	74LS260	N74LS260N	MULB	NOR GATE	119- 33
133♦	74LS260	N74LS260N	PHIN	NOR GATE	119- 33
134♦	74LS260	N74LS260N	RTCF	NOR GATE	119- 33
135♦	74LS260	N74LS260N	SIC	NOR GATE	119- 33
136♦	74LS260	N74LS260N	VALG	NOR GATE	119- 33
137♦	74LS260	SN74LS260J	MOTA	NOR GATE	119- 38
138♦	74LS260	SN74LS260N	MOTA	NOR GATE	119- 39
139♦	74LS261	N74LS261F	MULB	MULTIPLIER	202- 36
140♦	74LS261	N74LS261F	PHIN	MULTIPLIER	202- 36
141♦	74LS261	N74LS261F	VALG	MULTIPLIER	202- 36
142♦	74LS261	N74LS261N	MULB	MULTIPLIER	202- 37
143♦	74LS261	N74LS261N	PHIN	MULTIPLIER	202- 37
144♦	74LS261	N74LS261N	VALG	MULTIPLIER	202- 37
145♦	74LS261	SN74LS261N	TII	MULTIPLIER	202- 41
146♦	74LS266	74LS266DC	FSC	EXNOR GATE	89- 91
147♦	74LS266	74LS266PC	FSC	EXNOR GATE	89- 92
148♦	74LS266	DM74LS266N	NSC	EXNOR GATE	90- 7
149♦	74LS266	DN74LS266P1	MATJ	EXNOR GATE	90- 8
150♦	74LS266	*DN74LS266P4	MATJ	EXNOR GATE	90- 9
151▼	74LS266	HD74LS266G	HITJ	EXNOR GATE	90- 87
152♦	74LS266	HD74LS266P	HITJ	EXNOR GATE	90- 88
153♦	74LS266	M74LS266P	MITA	EXNOR GATE	90- 23
154♦	74LS266	M74LS266P	MITJ	EXNOR GATE	90- 23
155♦	74LS266	MB74LS266	FCAJ	EXNOR GATE	90- 24
156♦	74LS266	MB74LS266M	FCAJ	EXNOR GATE	90- 25
157♦	74LS266	N74LS266F	MULB	EXNOR GATE	90- 43
158♦	74LS266	N74LS266F	PHIN	EXNOR GATE	90- 43
159♦	74LS266	N74LS266F	RTCF	EXNOR GATE	90- 43
160♦	74LS266	N74LS266F	VALG	EXNOR GATE	90- 43
161♦	74LS266	N74LS266N	MULB	EXNOR GATE	90- 44
162♦	74LS266	N74LS266N	PHIN	EXNOR GATE	90- 44
163♦	74LS266	N74LS266N	RTCF	EXNOR GATE	90- 44
164♦	74LS266	N74LS266N	SIC	EXNOR GATE	90- 44
165♦	74LS266	N74LS266N	VALG	EXNOR GATE	90- 44
166♦	74LS266	*SN74LS266D	TII	EXNOR GATE	90- 56
167♦	74LS266	SN74LS266J	MOTA	EXNOR GATE	90- 57
168♦	74LS266	SN74LS266N	MOTA	EXNOR GATE	90- 58
169♦	74LS266	SN74LS266N	TII	EXNOR GATE	90- 58
170♦	74LS273	74LS273DC	FSC	D FL-FLOP	60- 79
171♦	74LS273	74LS273PC(1)	FSC	D FL-FLOP	60- 80
172▼	74LS273	HD74LS273G	HITJ	D FL-FLOP	60- 95
173▼	74LS273	HD74LS273P	HITJ	D FL-FLOP	60- 96
174♦	74LS273	M74LS273P	MITA	D FL-FLOP	61- 96
175♦	74LS273	M74LS273P	MITJ	D FL-FLOP	61- 96
176	74LS273	*N74LS273D	MULB	D FL-FLOP	61- 1
177	74LS273	*N74LS273D	PHIN	D FL-FLOP	61- 1
178	74LS273	*N74LS273D	RTCF	D FL-FLOP	61- 1
179	74LS273	*N74LS273D	SIC	D FL-FLOP	61- 1
180	74LS273	*N74LS273D	VALG	D FL-FLOP	61- 1
181♦	74LS273	N74LS273N	MULB	D FL-FLOP	61- 2
182♦	74LS273	N74LS273N	PHIN	D FL-FLOP	61- 2
183♦	74LS273	N74LS273N	RTCF	D FL-FLOP	61- 2
184♦	74LS273	N74LS273N	SIC	D FL-FLOP	61- 2
185♦	74LS273	N74LS273N	VALG	D FL-FLOP	61- 2
186▼	74LS273	SN74LS273N	TII	D FL-FLOP	61- 23
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190♦	74LS279	DM74LS279N	NSC	4-BIT LCH	243- 75
191♦	74LS279	DN74LS279P2	MATJ	4-BIT LCH	243- 50
192♦	74LS279	*DN74LS279P5	MATJ	4-BIT LCH	243- 51
193▼	74LS279	HD74LS279G	HITJ	4-BIT LCH	243- 52
194♦	74LS279	HD74LS279P	HITJ	4-BIT LCH	243- 53
195♦	74LS279	M74LS279P	MITA	4-BIT LCH	243- 54
196♦	74LS279	M74LS279P	MITJ	4-BIT LCH	243- 54
197♦	74LS279	N74LS279F	MULB	4-BIT LCH	243- 55
198♦	74LS279	N74LS279F	PHIN	4-BIT LCH	243- 55
199♦	74LS279	N74LS279F	VALG	4-BIT LCH	243- 55
200♦	74LS279	N74LS279N	MULB	4-BIT LCH	243- 56
201♦	74LS279	N74LS279N	PHIN	4-BIT LCH	243- 56
202♦	74LS279	N74LS279N	VALG	4-BIT LCH	243- 56
203♦	74LS279	*SN74LS279AD	TII	4-BIT LCH	243- 67
204♦	74LS279	SN74LS279AN	TII	4-BIT LCH	243- 68
205♦	74LS279	SN74LS279J	MOTA	4-BIT LCH	243- 69
206♦	74LS279	SN74LS279N	MOTA	4-BIT LCH	243- 70
207▼	74LS280	HD74LS280G	HITJ	PARITY GEN	226-101
208♦	74LS280	HD74LS280P	HITJ	PARITY GEN	226-102
209♦	74LS280	M74LS280P	MITA	PARITY GEN	226-103
210♦	74LS280	M74LS280P	MITJ	PARITY GEN	226-103
211♦	74LS280	MB74LS280	FCAJ	PARITY GEN	226-104
212♦	74LS280	MB74LS280M	FCAJ	PARITY GEN	226-105
213	74LS280	*SN74LS280D	TII	PARITY GEN	226-108
214♦	74LS280	SN74LS280J	MOTA	PARITY GEN	226-109
215♦	74LS280	SN74LS280N	MOTA	PARITY GEN	226-110
216♦	74LS280	SN74LS280N	TII	PARITY GEN	226-110
217♦	74LS283	74LS283DC	FSC	ADDER	200- 7
218♦	74LS283	74LS283PC	FSC	ADDER	200- 8
219♦	74LS283	DM74LS283N	NSC	ADDER	200- 62
220♦	74LS283	DN74LS283P2	MATJ	ADDER	200- 13

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IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1	74LS283	*DN74LS283P5	MATJ	ADDER	200- 14
2▼	74LS283	HD74LS283G	HITJ	ADDER	200- 16
3♦	74LS283	HD74LS283P	HITJ	ADDER	200- 17
4♦	74LS283	M74LS283P	MITA	ADDER	200- 19
5♦	74LS283	M74LS283P	MITJ	ADDER	200- 19
6♦	74LS283	MB74LS283	FCAJ	ADDER	200- 22
7♦	74LS283	MB74LS283M	FCAJ	ADDER	200- 23
8	74LS283	*N74LS283D	MULB	ADDER	200- 28
9	74LS283	*N74LS283D	PHIN	ADDER	200- 28
10	74LS283	*N74LS283D	RTCF	ADDER	200- 28
11	74LS283	*N74LS283D	SIC	ADDER	200- 28
12	74LS283	*N74LS283D	VALG	ADDER	200- 28
13♦	74LS283	N74LS283N	MULB	ADDER	200- 29
14♦	74LS283	N74LS283N	PHIN	ADDER	200- 29
15♦	74LS283	N74LS283N	RTCF	ADDER	200- 29
16♦	74LS283	N74LS283N	SIC	ADDER	200- 29
17♦	74LS283	N74LS283N	VALG	ADDER	200- 29
18	74LS283	*SN74LS283D	TII	ADDER	200- 46
19♦	74LS283	SN74LS283J	MOTA	ADDER	200- 47
20♦	74LS283	SN74LS283N	MOTA	ADDER	200- 48
21♦	74LS283	SN74LS283N	TII	ADDER	200- 48
22♦	74LS283	T74LS283B1	SGSI	ADDER	200- 57
23♦	74LS283	T74LS283D1	SGSI	ADDER	200- 58
24♦	74LS290	74LS290DC	FSC	DEC CNTR	176- 5
25♦	74LS290	74LS290PC	FSC	DEC CNTR	176- 6
26♦	74LS290	DM74LS290N	NSC	DEC CNTR	175- 85
27♦	74LS290	DN74LS290P1	MATJ	DEC CNTR	175- 88
28♦	74LS290	*DN74LS290P4	MATJ	DEC CNTR	175- 89
29▼	74LS290	HD74LS290G	HITJ	DEC CNTR	173- 84
30♦	74LS290	HD74LS290P	HITJ	DEC CNTR	173- 85
31♦	74LS290	M74LS290P	MITA	DEC CNTR	176- 39
32♦	74LS290	M74LS290P	MITJ	DEC CNTR	176- 39
33♦	74LS290	*N74LS290D	MULB	DEC CNTR	175- 15
34♦	74LS290	*N74LS290D	PHIN	DEC CNTR	175- 15
35♦	74LS290	*N74LS290D	RTCF	DEC CNTR	175- 15
36♦	74LS290	*N74LS290D	SIC	DEC CNTR	175- 15
37♦	74LS290	*N74LS290D	VALG	DEC CNTR	175- 15
38♦	74LS290	N74LS290N	MULB	DEC CNTR	175- 16
39♦	74LS290	N74LS290N	PHIN	DEC CNTR	175- 16
40♦	74LS290	N74LS290N	RTCF	DEC CNTR	175- 16
41♦	74LS290	N74LS290N	SIC	DEC CNTR	175- 16
42♦	74LS290	N74LS290N	VALG	DEC CNTR	175- 16
43♦	74LS290	*SN74LS290D	TII	DEC CNTR	175- 99
44♦	74LS290	SN74LS290J	MOTA	DEC CNTR	175-100
45♦	74LS290	SN74LS290N	MOTA	DEC CNTR	175-101
46♦	74LS290	SN74LS290N	TII	DEC CNTR	175-101
47♦	74LS292	SN74LS292N	TII	FREQ DIVID	196- 60
48♦	74LS293	74LS293DC	FSC	HEX CNTR	158- 43
49♦	74LS293	74LS293PC	FSC	HEX CNTR	158- 44
50♦	74LS293	DM74LS293N	NSC	HEX CNTR	158- 7
51♦	74LS293	DN74LS293P1	MATJ	HEX CNTR	158- 12
52♦	74LS293	*DN74LS293P4	MATJ	HEX CNTR	158- 13
53▼	74LS293	HD74LS293G	HITJ	HEX CNTR	155- 67
54♦	74LS293	HD74LS293P	HITJ	HEX CNTR	155- 68
55♦	74LS293	M74LS293P	MITA	HEX CNTR	158- 60
56♦	74LS293	M74LS293P	MITJ	HEX CNTR	158- 60
57♦	74LS293	*N74LS293D	MULB	HEX CNTR	157- 53
58♦	74LS293	*N74LS293D	PHIN	HEX CNTR	157- 53
59♦	74LS293	*N74LS293D	RTCF	HEX CNTR	157- 53
60♦	74LS293	*N74LS293D	SIC	HEX CNTR	157- 53
61♦	74LS293	*N74LS293D	VALG	HEX CNTR	157- 53
62♦	74LS293	N74LS293N	MULB	HEX CNTR	157- 54
63♦	74LS293	N74LS293N	PHIN	HEX CNTR	157- 54
64♦	74LS293	N74LS293N	RTCF	HEX CNTR	157- 54
65♦	74LS293	N74LS293N	SIC	HEX CNTR	157- 54
66♦	74LS293	N74LS293N	VALG	HEX CNTR	157- 54
67♦	74LS293	*SN74LS293D	TII	HEX CNTR	158- 23
68♦	74LS293	SN74LS293J	MOTA	HEX CNTR	158- 24
69♦	74LS293	SN74LS293N	MOTA	HEX CNTR	158- 25
70♦	74LS293	SN74LS293N	TII	HEX CNTR	158- 25
71♦	74LS294	SN74LS294N	TII	FREQ DIVID	196- 59
72♦	74LS297	SN74LS297N	TII	SPECIAL	247- 53
73♦	74LS320	SN74LS320N	TII	CLOCK/MV	192-108
74♦	74LS321	SN74LS321N	TII	CLOCK/MV	192-109
75♦	74LS363	N74LS363F	MULB	8-BIT LCH	238- 54
76♦	74LS363	N74LS363F	PHIN	8-BIT LCH	238- 54
77♦	74LS363	N74LS363F	VALG	8-BIT LCH	238- 54
78♦	74LS363	N74LS363N	MULB	8-BIT LCH	237-106
79♦	74LS363	N74LS363N	PHIN	8-BIT LCH	237-106
80♦	74LS363	N74LS363N	RTCF	8-BIT LCH	237-106
81♦	74LS363	N74LS363N	SIC	8-BIT LCH	237-106
82♦	74LS363	N74LS363N	VALG	8-BIT LCH	237-106
83♦	74LS364	N74LS364F(1)	MULB	D FL-FLOP	62- 22
84♦	74LS364	N74LS364F(1)	PHIN	D FL-FLOP	62- 22
85♦	74LS364	N74LS364F(1)	VALG	D FL-FLOP	62- 22
86♦	74LS364	N74LS364N	MULB	D FL-FLOP	61- 63
87♦	74LS364	N74LS364N	PHIN	D FL-FLOP	61- 63
88♦	74LS364	N74LS364N	RTCF	D FL-FLOP	61- 63
89♦	74LS364	N74LS364N	SIC	D FL-FLOP	61- 63
90♦	74LS364	N74LS364N	VALG	D FL-FLOP	61- 63
91♦	74LS373	74LS373DC	FSC	3-BIT LCH	230- 4
92♦	74LS373	74LS373PC	FSC	8-BIT LCH	239- 4
93♦	74LS373	DM74LS373N	NSC	8-BIT LCH	236- 88
94♦	74LS373	DN74LS373P3	MATJ	8-BIT LCH	236- 89
95♦	74LS373	*DN74LS373P6	MATJ	8-BIT LCH	236- 90
96▼	74LS373	HD74LS373G	HITJ	8-BIT LCH	238- 24
97▼	74LS373	HD74LS373P	HITJ	8-BIT LCH	238- 25
98♦	74LS373	M74LS373P	MITA	8-BIT LCH	239- 5
99♦	74LS373	M74LS373P	MITJ	8-BIT LCH	239- 5
100♦	74LS373	*N74LS373D	MULB	8-BIT LCH	236- 91
101♦	74LS373	*N74LS373D	PHIN	8-BIT LCH	236- 91
102♦	74LS373	*N74LS373D	RTCF	8-BIT LCH	236- 91
103♦	74LS373	*N74LS373D	SIC	8-BIT LCH	236- 91
104♦	74LS373	*N74LS373D	VALG	8-BIT LCH	236- 91
105♦	74LS373	N74LS373N	MULB	8-BIT LCH	236- 92
106♦	74LS373	N74LS373N	PHIN	8-BIT LCH	236- 92
107♦	74LS373	N74LS373N	RTCF	8-BIT LCH	236- 92
108♦	74LS373	N74LS373N	SIC	8-BIT LCH	236- 92
109♦	74LS373	N74LS373N	VALG	8-BIT LCH	236- 92
110♦	74LS373	*SN74LS373DW	TII	8-BIT LCH	236-108
111▼	74LS373	SN74LS373J	MMI	8-BIT LCH	236-109
112▼	74LS373	SN74LS373J	MOTA	8-BIT LCH	236-109
113▼	74LS373	SN74LS373N	MMI	8-BIT LCH	236-110
114▼	74LS373	SN74LS373N	MOTA	8-BIT LCH	236-110
115▼	74LS373	SN74LS373N	TII	8-BIT LCH	236-110
116♦	74LS374	74LS374DC	FSC	D FL-FLOP	61- 47
117♦	74LS374	74LS374PC(1)	FSC	D FL-FLOP	61- 48
118♦	74LS374	DM74LS374N	NSC	8-BIT LCH	238- 3
119▼	74LS374	HD74LS374G	HITJ	D FL-FLOP	61- 61
120▼	74LS374	HD74LS374P	HITJ	D FL-FLOP	61- 62
121♦	74LS374	M74LS374P	MITA	D FL-FLOP	61- 97
122♦	74LS374	M74LS374P	MITJ	D FL-FLOP	61- 97
123	74LS374	*N74LS374D	MULB	D FL-FLOP	61- 64
124	74LS374	*N74LS374D	PHIN	D FL-FLOP	61- 64
125	74LS374	*N74LS374D	RTCF	D FL-FLOP	61- 64
126	74LS374	*N74LS374D	SIC	D FL-FLOP	61- 64
127	74LS374	*N74LS374D	VALG	D FL-FLOP	61- 64
128♦	74LS374	N74LS374N	MULB	D FL-FLOP	61- 65
129♦	74LS374	N74LS374N	PHIN	D FL-FLOP	61- 65
130♦	74LS374	N74LS374N	RTCF	D FL-FLOP	61- 65
131♦	74LS374	N74LS374N	SIC	D FL-FLOP	61- 65
132♦	74LS374	N74LS374N	VALG	D FL-FLOP	61- 65
133♦	74LS374	*SN74LS374DW	TII	D FL-FLOP	62- 33
134▼	74LS374	SN74LS374J	MMI	D FL-FLOP	62- 34
135▼	74LS374	SN74LS374J	MOTA	D FL-FLOP	62- 34
136▼	74LS374	SN74LS374N	MMI	D FL-FLOP	62- 35
137▼	74LS374	SN74LS374N	MOTA	D FL-FLOP	62- 35
138▼	74LS374	SN74LS374N	TII	D FL-FLOP	62- 35
139♦	74LS375	74LS375DC	FSC	4-BIT LCH	231- 22
140♦	74LS375	74LS375PC	FSC	4-BIT LCH	231- 23
141▼	74LS375	HD74LS375G	HITJ	4-BIT LCH	231- 28
142♦	74LS375	HD74LS375P	HITJ	4-BIT LCH	231- 29
143♦	74LS375	M74LS375P	MITA	4-BIT LCH	231- 31
144♦	74LS375	M74LS375P	MITJ	4-BIT LCH	231- 31
145♦	74LS375	*N74LS375D	MULB	4-BIT LCH	231- 35
146♦	74LS375	*N74LS375D	PHIN	4-BIT LCH	231- 35
147♦	74LS375	*N74LS375D	RTCF	4-BIT LCH	231- 35
148♦	74LS375	*N74LS375D	SIC	4-BIT LCH	231- 35
149♦	74LS375	*N74LS375D	VALG	4-BIT LCH	231- 35
150♦	74LS375	N74LS375F	MULB	4-BIT LCH	231- 36
151♦	74LS375	N74LS375F	PHIN	4-BIT LCH	231- 36
152♦	74LS375	N74LS375F	RTCF	4-BIT LCH	231- 36
153♦	74LS375	N74LS375F	VALG	4-BIT LCH	231- 36
154♦	74LS375	N74LS375N	MULB	4-BIT LCH	231- 37
155♦	74LS375	N74LS375N	PHIN	4-BIT LCH	231- 37
156♦	74LS375	N74LS375N	RTCF	4-BIT LCH	231- 37
157♦	74LS375	N74LS375N	SIC	4-BIT LCH	231- 37
158♦	74LS375	N74LS375N	VALG	4-BIT LCH	231- 37
159♦	74LS375	*SN74LS375D	TII	4-BIT LCH	231- 8
160♦	74LS375	SN74LS375J	MOTA	4-BIT LCH	231- 9
161♦	74LS375	SN74LS375N	MOTA	4-BIT LCH	231- 10
162♦	74LS375	SN74LS375N	TII	4-BIT LCH	231- 10
163♦	74LS377	74LS377DC	FSC	D FL-FLOP	60- 81
164♦	74LS377	74LS377PC	FSC	D FL-FLOP	60- 82
165♦	74LS377	M74LS377P	MITA	D FL-FLOP	61- 98
166♦	74LS377	M74LS377P	MITJ	D FL-FLOP	61- 98
167♦	74LS377	N74LS377D	MULB	D FL-FLOP	61- 3
168♦	74LS377	N74LS377D	PHIN	D FL-FLOP	61- 3
169♦	74LS377	N74LS377D	RTCF	D FL-FLOP	61- 3
170♦	74LS377	N74LS377D	SIC	D FL-FLOP	61- 3
171♦	74LS377	N74LS377D	VALG	D FL-FLOP	61- 3
172♦	74LS377	N74LS377N	MULB	D FL-FLOP	61- 4
173♦	74LS377	N74LS377N	PHIN	D FL-FLOP	61- 4
174♦	74LS377	N74LS377N	RTCF	D FL-FLOP	61- 4
175♦	74LS377	N74LS377N	SIC	D FL-FLOP	61- 4
176♦	74LS377	N74LS377N	VALG	D FL-FLOP	61- 4
177♦	74LS377	*SN74LS377DW	TII	D FL-FLOP	61-103
178	74LS377	*SN74LS377FN	TII	D FL-FLOP	61-104
179♦	74LS377	SN74LS377J	MOTA	D FL-FLOP	61-105
180♦	74LS377	SN74LS377N	MOTA	D FL-FLOP	61-106
181♦	74LS377	SN74LS377N	TII	D FL-FLOP	61-106
182♦	74LS378	74LS378DC	FSC	D FL-FLOP	56- 59
183	74LS378	74LS378PC	FSC	D FL-FLOP	56- 60
184♦	74LS378	N74LS378F	VALG	D FL-FLOP	56- 97
185♦	74LS378	N74LS378N	MULB	D FL-FLOP	56- 77
186♦	74LS378	N74LS378N	PHIN	D FL-FLOP	56- 77
187♦	74LS378	N74LS378N	RTCF	D FL-FLOP	56- 77
188♦	74LS378	N74LS378N	SIC	D FL-FLOP	56- 77
189♦	74LS378	N74LS378N	VALG	D FL-FLOP	56- 77
190	74LS378	*SN74LS378D	TII	D FL-FLOP	56-106
191♦	74LS378	SN74LS378J	MOTA	D FL-FLOP	56-107
192♦	74LS378	SN74LS378N	MOTA	D FL-FLOP	56-108
193♦	74LS378	SN74LS378N	TII	D FL-FLOP	56-108
194	74LS379	*SN74LS379D	TII	D FL-FLOP	55- 33
195♦	74LS379	SN74LS379J	MOTA	D FL-FLOP	55- 34
196♦	74LS379	SN74LS379N	MOTA	D FL-FLOP	55- 35
197♦	74LS379	SN74LS379N	TII	D FL-FLOP	55- 35
198♦	74LS381	AM74LS381DC	AMD	4-BIT ALU	222- 32
199♦	74LS381	AM74LS381DCB	AMD	4-BIT ALU	222- 33
200♦	74LS381	AM74LS381DM	AMD	4-BIT ALU	222- 34
201♦	74LS381	AM74LS381DMB	AMD	4-BIT ALU	222- 35
202	74LS381	*AM74LS381FM	AMD	4-BIT ALU	222- 36
203	74LS381	*AM74LS381FMB	AMD	4-BIT ALU	222- 37
204♦	74LS381	AM74LS381PC	AMD	4-BIT ALU	222- 38
205♦	74LS381	AM74LS381PCB	AMD	4-BIT ALU	222- 39
206	74LS381	*SN74LS381ADW	TII	4-BIT ALU	221- 91
207♦	74LS381	SN74LS381AN	TII	4-BIT ALU	221- 92
208♦	74LS381	SN74LS381J	AMD	4-BIT ALU	222- 40
209♦	74LS381	SN74LS381N	AMD	4-BIT ALU	222- 41
210	74LS382	*SN74LS382DW	TII	4-BIT ALU	222- 42
211♦	74LS384	SN74LS384N	TII	MULTIPLIER	202- 80
212♦	74LS385	SN74LS385J	MOTA	ADDER	198- 26
213♦	74LS385	SN74LS385N	MOTA	ADDER	198- 27
214♦	74LS385	SN74LS385N	TII	ADDER	198- 27
215♦	74LS386	DM74LS386N	NSC	EX-OR GATE	93- 64
216♦	74LS386	DN74LS386P1	MATJ	EX-OR GATE	93- 83
217♦	74LS386	*DN74LS386P4	MATJ	EX-OR GATE	93- 84
218▼	74LS386	HD74LS386G	HITJ	EX-OR GATE	93- 89
219♦	74LS386	HD74LS386P	HITJ	EX-OR GATE	93- 90
220♦	74LS386	M74LS386P	MITA	EX-OR GATE	92- 19

*Surface mount package style

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2♦	74LS386	MB74LS386	FCAJ	EX-OR GATE	92- 23
3♦	74LS386	MB74LS386M	FCAJ	EX-OR GATE	92- 24
4♦	74LS386	N74LS386F	MULB	EX-OR GATE	92- 60
5♦	74LS386	N74LS386F	PHIN	EX-OR GATE	92- 60
6♦	74LS386	N74LS386N	MULB	EX-OR GATE	92- 61
7♦	74LS386	N74LS386N	PHIN	EX-OR GATE	92- 61
8♦	74LS386	SN74LS386AN	TII	EX-OR GATE	94- 2
9♦	74LS386	SN74LS386J	MOTA	EX-OR GATE	92- 86
10♦	74LS386	SN74LS386N	MOTA	EX-OR GATE	92- 87
11♦	74LS390	74LS390DC	FSC	DEC CNTR	181- 37
12♦	74LS390	74LS390PC	FSC	DEC CNTR	181- 38
13♦	74LS390	DM74LS390N	NSC	DEC CNTR	181- 66
14♦	74LS390	DN74LS390P2	MATJ	DEC CNTR	181- 67
15♦	74LS390	*DN74LS390P5	MATJ	DEC CNTR	181- 68
16▼	74LS390	HD74LS390G	HITJ	DEC CNTR	181- 43
17♦	74LS390	HD74LS390P	HITJ	DEC CNTR	181- 44
18♦	74LS390	M74LS390P	MITA	DEC CNTR	181- 96
19♦	74LS390	M74LS390P	MITJ	DEC CNTR	181- 96
20♦	74LS390	N74LS390D	MULB	DEC CNTR	181- 54
21♦	74LS390	N74LS390D	PHIN	DEC CNTR	181- 54
22♦	74LS390	N74LS390D	RTCF	DEC CNTR	181- 54
23♦	74LS390	N74LS390D	SIC	DEC CNTR	181- 54
24♦	74LS390	N74LS390D	VALG	DEC CNTR	181- 54
25♦	74LS390	N74LS390N	MULB	DEC CNTR	181- 55
26♦	74LS390	N74LS390N	PHIN	DEC CNTR	181- 55
27♦	74LS390	N74LS390N	RTCF	DEC CNTR	181- 55
28♦	74LS390	N74LS390N	SIC	DEC CNTR	181- 55
29♦	74LS390	N74LS390N	VALG	DEC CNTR	181- 55
30♦	74LS390	*SN74LS390D	TII	DEC CNTR	181- 76
31♦	74LS390	SN74LS390J	MOTA	DEC CNTR	181- 77
32♦	74LS390	SN74LS390N	MOTA	DEC CNTR	181- 78
33♦	74LS390	SN74LS390N	TII	DEC CNTR	181- 78
34♦	74LS393	74LS393DC	FSC	HEX CNTR	164- 70
35♦	74LS393	74LS393PC	FSC	HEX CNTR	164- 71
36♦	74LS393	DM74LS393N	NSC	HEX CNTR	157- 75
37♦	74LS393	DN74LS393P1	MATJ	HEX CNTR	165- 10
38♦	74LS393	*DN74LS393P4	MATJ	HEX CNTR	165- 11
39▼	74LS393	HD74LS393G	HITJ	HEX CNTR	164- 97
40♦	74LS393	HD74LS393P	HITJ	HEX CNTR	164- 98
41♦	74LS393	M74LS393P	MITA	HEX CNTR	165- 36
42♦	74LS393	M74LS393P	MITJ	HEX CNTR	165- 36
43♦	74LS393	N74LS393D	MULB	HEX CNTR	164- 99
44♦	74LS393	N74LS393D	PHIN	HEX CNTR	164- 99
45♦	74LS393	N74LS393D	RTCF	HEX CNTR	164- 99
46♦	74LS393	N74LS393D	SIC	HEX CNTR	164- 99
47♦	74LS393	N74LS393D	VALG	HEX CNTR	164- 99
48♦	74LS393	N74LS393N	MULB	HEX CNTR	164-100
49♦	74LS393	N74LS393N	PHIN	HEX CNTR	164-100
50♦	74LS393	N74LS393N	RTCF	HEX CNTR	164-100
51♦	74LS393	N74LS393N	SIC	HEX CNTR	164-100
52♦	74LS393	N74LS393N	VALG	HEX CNTR	164-100
53♦	74LS393	*SN74LS393D	TII	HEX CNTR	165- 14
54♦	74LS393	SN74LS393J	MOTA	HEX CNTR	165- 15
55♦	74LS393	SN74LS393N	MOTA	HEX CNTR	165- 16
56♦	74LS393	SN74LS393N	TII	HEX CNTR	165- 16
57♦	74LS422	SN74LS422N	TII	CLOCK/MV	189- 8
58♦	74LS423	M74LS423P	MITA	CLOCK/MV	190- 45
59♦	74LS423	M74LS423P	MITJ	CLOCK/MV	190- 45
60	74LS423	*SN74LS423D	TII	CLOCK/MV	191- 62
61♦	74LS423	SN74LS423N	TII	CLOCK/MV	191- 63
62♦	74LS460	DM74LS460J	NSC	MAGN COMP	219- 16
63♦	74LS460	DM74LS460N	NSC	MAGN COMP	219- 17
64♦	74LS460	SN74LS460JS	MMI	MAGN COMP	219- 24
65♦	74LS460	SN74LS460NS	MMI	MAGN COMP	219- 25
66♦	74LS461	DM74LS461J	NSC	COUNTER	169- 7
67♦	74LS461	DM74LS461N	NSC	COUNTER	169- 8
68♦	74LS461	SN74LS461JS	MMI	COUNTER	169- 10
69♦	74LS461	SN74LS461NS	MMI	COUNTER	169- 11
70♦	74LS469	DM74LS469J	NSC	COUNTER	169- 9
71♦	74LS469	SN74LS469AJS	MMI	COUNTER	169- 61
72♦	74LS469	SN74LS469ANS	MMI	COUNTER	169- 62
73♦	74LS469	SN74LS469JS	MMI	COUNTER	169- 56
74♦	74LS469	SN74LS469NS	MMI	COUNTER	169- 57
75♦	74LS490	74LS490PC	FSC	DEC CNTR	181- 86
76♦	74LS490	DN74LS490P2	MATJ	DEC CNTR	181- 69
77♦	74LS490	*DN74LS490P5	MATJ	DEC CNTR	181- 70
78▼	74LS490	HD74LS490G	HITJ	DEC CNTR	181- 52
79♦	74LS490	HD74LS490P	HITJ	DEC CNTR	181- 53
80♦	74LS490	M74LS490P	MITA	DEC CNTR	180- 98
81♦	74LS490	M74LS490P	MITJ	DEC CNTR	180- 98
82♦	74LS490	N74LS490F	MULB	DEC CNTR	181- 56
83♦	74LS490	N74LS490F	PHIN	DEC CNTR	181- 56
84♦	74LS490	N74LS490F	RTCF	DEC CNTR	181- 56
85♦	74LS490	N74LS490F	VALG	DEC CNTR	181- 56
86♦	74LS490	N74LS490N	MULB	DEC CNTR	181- 71
87♦	74LS490	N74LS490N	PHIN	DEC CNTR	181- 71
88♦	74LS490	N74LS490N	RTCF	DEC CNTR	181- 71
89♦	74LS490	N74LS490N	SIC	DEC CNTR	181- 71
90♦	74LS490	N74LS490N	VALG	DEC CNTR	181- 71
91♦	74LS490	SN74LS490J	MOTA	DEC CNTR	181- 79
92♦	74LS490	SN74LS490N	MOTA	DEC CNTR	181- 80
93♦	74LS490	SN74LS490N	TII	DEC CNTR	181- 80
94♦	74LS491	DM74LS491J	NSC	COUNTER	169- 93
95♦	74LS491	DM74LS491N	NSC	COUNTER	169- 94
96♦	74LS491	SN74LS491AJS	MMI	COUNTER	169- 85
97♦	74LS491	SN74LS491ANS	MMI	COUNTER	169- 86
98♦	74LS491	*SN74LS491A28L	MMI	COUNTER	169- 87
99♦	74LS491	SN74LS491JS	MMI	COUNTER	169- 95
100♦	74LS491	SN74LS491NS	MMI	COUNTER	169- 96
101♦	74LS533	74LS533DC	FSC	3-BIT LCH	230- 9
102♦	74LS533	74LS533PC	FSC	3-BIT LCH	230- 10
103♦	74LS533	SN74LS533J	MMI	8-BIT LCH	237- 83
104♦	74LS533	SN74LS533N	MMI	8-BIT LCH	237- 84
105♦	74LS534	74LS534DC	FSC	D FL-FLOP	61- 49
106♦	74LS534	74LS534PC	FSC	D FL-FLOP	61- 50
107♦	74LS534	SN74LS534J	MMI	D FL-FLOP	62- 36
108♦	74LS534	SN74LS534N	MMI	D FL-FLOP	62- 37
109♦	74LS549	SN74LS549JS	MMI	2-BIT LCH	229- 68
110♦	74LS549	SN74LS549NS	MMI	2-BIT LCH	229- 69
111♦	74LS568	N74LS568AN	MULB	DEC CNTR	179-105
112♦	74LS568	N74LS568AN	PHIN	DEC CNTR	179-105
113♦	74LS568	N74LS568AN	RTCF	DEC CNTR	179-105
114♦	74LS568	N74LS568AN	SIC	DEC CNTR	179-105
115♦	74LS568	N74LS568AN	VALG	DEC CNTR	179-105
116♦	74LS568	N74LS568F	MULB	DEC CNTR	179- 16
117♦	74LS568	N74LS568F	PHIN	DEC CNTR	179- 16
118♦	74LS568	N74LS568F	RTCF	DEC CNTR	179- 16
119♦	74LS568	N74LS568F	VALG	DEC CNTR	179- 16
120♦	74LS568	N74LS568N	MULB	DEC CNTR	179- 17
121♦	74LS568	N74LS568N	PHIN	DEC CNTR	179- 17
122♦	74LS568	N74LS568N	RTCF	DEC CNTR	179- 17
123♦	74LS568	N74LS568N	SIC	DEC CNTR	179- 17
124♦	74LS568	N74LS568N	VALG	DEC CNTR	179- 17
125♦	74LS568	SN74LS568J	MOTA	DEC CNTR	179- 44
126♦	74LS568	SN74LS568N	MOTA	DEC CNTR	179- 45
127♦	74LS569	N74LS569AN	MULB	HEX CNTR	163- 13
128♦	74LS569	N74LS569AN	PHIN	HEX CNTR	163- 13
129♦	74LS569	N74LS569AN	RTCF	HEX CNTR	163- 13
130♦	74LS569	N74LS569AN	SIC	HEX CNTR	163- 13
131♦	74LS569	N74LS569AN	VALG	HEX CNTR	163- 13
132♦	74LS569	N74LS569F	MULB	HEX CNTR	162- 25
133♦	74LS569	N74LS569F	PHIN	HEX CNTR	162- 25
134♦	74LS569	N74LS569F	RTCF	HEX CNTR	162- 25
135♦	74LS569	N74LS569F	VALG	HEX CNTR	162- 25
136♦	74LS569	N74LS569N	MULB	HEX CNTR	162- 26
137♦	74LS569	N74LS569N	PHIN	HEX CNTR	162- 26
138♦	74LS569	N74LS569N	RTCF	HEX CNTR	162- 26
139♦	74LS569	N74LS569N	SIC	HEX CNTR	162- 26
140♦	74LS569	N74LS569N	VALG	HEX CNTR	162- 26
141♦	74LS569	SN74LS569J	MOTA	HEX CNTR	162- 48
142♦	74LS569	SN74LS569N	MOTA	HEX CNTR	162- 49
143♦	74LS590	SN74LS590N	TII	COUNTER	168- 5
144♦	74LS591	SN74LS591N	TII	COUNTER	169- 12
145♦	74LS592	SN74LS592N	TII	COUNTER	169- 15
146♦	74LS593	*SN74LS593DW	TII	COUNTER	169- 16
147♦	74LS593	SN74LS593N	TII	COUNTER	169- 17
148	74LS604	SN74LS604J	MOTA	8-BIT LCH	237- 35
149♦	74LS604	SN74LS604N	MOTA	8-BIT LCH	239-105
150	74LS605	SN74LS605J	MOTA	8-BIT LCH	233- 82
151♦	74LS605	SN74LS605N	MOTA	8-BIT LCH	240- 69
152♦	74LS605	SN74LS605N	TII	8-BIT LCH	240- 69
153	74LS606	SN74LS606J	MOTA	8-BIT LCH	237- 36
154♦	74LS606	SN74LS606N	MOTA	8-BIT LCH	240- 33
155	74LS607	SN74LS607J	MOTA	8-BIT LCH	233- 83
156♦	74LS607	SN74LS607N	MOTA	8-BIT LCH	240- 79
157♦	74LS607	SN74LS607N	TII	8-BIT LCH	240- 79
158♦	74LS624	*SN74LS624D	TII	CLOCK/MV	191-104
159▼	74LS624	SN74LS624N	TII	CLOCK/MV	191-105
160♦	74LS625	*SN74LS625D	TII	CLOCK/MV	191-110
161▼	74LS625	SN74LS625N	TII	CLOCK/MV	192- 1
162▼	74LS626	SN74LS626N	TII	CLOCK/MV	192- 2
163▼	74LS627	SN74LS627N	TII	CLOCK/MV	192- 3
164	74LS628	*SN74LS628D	TII	CLOCK/MV	191-106
165♦	74LS628	SN74LS628N	TII	CLOCK/MV	192- 9
166	74LS629	*SN74LS629D	TII	CLOCK/MV	192- 10
167♦	74LS629	SN74LS629N	TII	CLOCK/MV	192- 11
168♦	74LS630	SN74LS630N	TII	SPECIAL	245- 68
169♦	74LS631	SN74LS631N	TII	SPECIAL	245- 69
170♦	74LS636	SN74LS636N	TII	SPECIAL	245- 70
171♦	74LS637	SN74LS637N	TII	SPECIAL	245- 71
172♦	74LS651	SN74LS651JS(2)	MMI	8-BIT LCH	236- 29
173♦	74LS651	SN74LS651NS(2)	MMI	8-BIT LCH	236- 30
174♦	74LS652	SN74LS652JS(2)	MMI	8-BIT LCH	237- 37
175♦	74LS652	SN74LS652NS(2)	MMI	8-BIT LCH	237- 38
176♦	74LS653	SN74LS653JS(2)	MMI	8-BIT LCH	237- 85
177♦	74LS653	SN74LS653NS(2)	MMI	8-BIT LCH	237- 86
178▼	74LS668	HD74LS668G	HITJ	DEC CNTR	179- 7
179♦	74LS668	HD74LS668P	HITJ	DEC CNTR	179- 8
180♦	74LS668	M74LS668P	MITA	DEC CNTR	181- 97
181♦	74LS668	M74LS668P	MITJ	DEC CNTR	181- 97
182♦	74LS668	SN74LS668J	MOTA	DEC CNTR	179- 96
183♦	74LS668	SN74LS668N	MOTA	DEC CNTR	181- 98
184♦	74LS668	SN74LS668N	TII	DEC CNTR	181- 98
185▼	74LS669	HD74LS669G	HITJ	HEX CNTR	162- 13
186♦	74LS669	HD74LS669P	HITJ	HEX CNTR	162- 14
187♦	74LS669	M74LS669P	MITA	HEX CNTR	159- 83
188♦	74LS669	M74LS669P	MITJ	HEX CNTR	159- 83
189♦	74LS669	*SN74LS669D	TII	HEX CNTR	162-108
190♦	74LS669	SN74LS669J	MOTA	HEX CNTR	162-109
191♦	74LS669	SN74LS669N	MOTA	HEX CNTR	162-110
192♦	74LS669	SN74LS669N	TII	HEX CNTR	162-110
193♦	74LS681	SN74LS681N	TII	4-BIT ALU	222- 68
194♦	74LS682	M74LS682P	MITA	MAGN COMP	218- 54
195♦	74LS682	*SN74LS682DW	TII	MAGN COMP	218- 62
196♦	74LS682	SN74LS682N	TII	MAGN COMP	218- 63
197♦	74LS683	M74LS683P	MITA	MAGN COMP	218- 85
198♦	74LS683	SN74LS683J	MOTA	MAGN COMP	218- 92
199♦	74LS683	SN74LS683N	MOTA	MAGN COMP	218- 93
200♦	74LS683	SN74LS683N	TII	MAGN COMP	218- 93
201♦	74LS684	M74LS684P	MITA	MAGN COMP	218- 55
202♦	74LS684	*SN74LS684DW	TII	MAGN COMP	218- 64
203♦	74LS684	SN74LS684J	MOTA	MAGN COMP	218- 65
204♦	74LS684	SN74LS684N	TII	MAGN COMP	218- 66
205♦	74LS685	M74LS685P	MITA	MAGN COMP	218- 86
206♦	74LS685	SN74LS685J	MOTA	MAGN COMP	218- 94
207♦	74LS685	SN74LS685N	MOTA	MAGN COMP	218- 95
208♦	74LS685	SN74LS685N	TII	MAGN COMP	218- 95
209♦	74LS686	SN74LS686J	MOTA	MAGN COMP	218- 48
210♦	74LS686	SN74LS686N	MOTA	MAGN COMP	218- 49
211♦	74LS686	SN74LS686NT	TII	MAGN COMP	218- 67
212♦	74LS687	SN74LS687J	MOTA	MAGN COMP	218- 71
213♦	74LS687	SN74LS687N	MOTA	MAGN COMP	218- 72
214♦	74LS687	SN74LS687NT	TII	MAGN COMP	218- 73
215♦	74LS688	M74LS688P	MITA	MAGN COMP	218- 52
216♦	74LS688	*SN74LS688DW	TII	MAGN COMP	218- 44
217♦	74LS688	SN74LS688J	MOTA	MAGN COMP	218- 68
218♦	74LS688	SN74LS688N	TII	MAGN COMP	218- 45
219♦	74LS689	M74LS689P	MITA	MAGN COMP	218- 75
220♦	74LS689	SN74LS689N	MOTA	MAGN COMP	218- 78

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

GENERIC PRODUCT INDEX

IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	74LS689	SN74LS689N	TII	MAGN COMP	218- 78
2♦	74LS690	SN74LS690N	TII	DEC CNTR	174- 19
3♦	74LS691	SN74LS691N	TII	HEX CNTR	156- 36
4♦	74LS692	SN74LS692N	TII	DEC CNTR	174- 20
5♦	74LS693	SN74LS693N	TII	HEX CNTR	156- 37
6♦	74LS696	SN74LS696N	TII	DEC CNTR	178- 78
7♦	74LS697	*SN74LS697DW	TII	HEX CNTR	161- 89
8♦	74LS697	SN74LS697N	TII	HEX CNTR	161- 90
9♦	74LS698	SN74LS698N	TII	DEC CNTR	178- 79
10♦	74LS699	*SN74LS699DW	TII	HEX CNTR	161- 91
11♦	74LS699	SN74LS699N	TII	HEX CNTR	161- 92
12♦	74LS716	SN74LS716J	MOTA	DEC CNTR	173- 13
13♦	74LS716	SN74LS716N	MOTA	DEC CNTR	173- 14
14♦	74LS718	SN74LS718J	MOTA	DEC CNTR	173- 15
15♦	74LS718	SN74LS718N	MOTA	DEC CNTR	173- 16
16♦	74PC00	MM74PC00J	NSC	NAND GATE	98- 81
17♦	74PC00	MM74PC00JI	NSC	NAND GATE	98- 82
18♦	74PC00	MM74PC00N	NSC	NAND GATE	98- 83
19♦	74PC00	MM74PC00NI	NSC	NAND GATE	98- 84
20♦	74PC02	MM74PC02J	NSC	NOR GATE	113- 94
21♦	74PC02	MM74PC02JI	NSC	NOR GATE	113- 95
22♦	74PC02	MM74PC02N	NSC	NOR GATE	113- 96
23♦	74PC02	MM74PC02NI	NSC	NOR GATE	113- 97
24♦	74PC08	MM74PC08J	NSC	AND GATE	77- 78
25♦	74PC08	MM74PC08JI	NSC	AND GATE	77- 79
26♦	74PC08	MM74PC08N	NSC	AND GATE	77- 80
27♦	74PC08	MM74PC08NI	NSC	AND GATE	77- 81
28♦	74PC32	MM74PC32J	NSC	OR GATE	121- 54
29♦	74PC32	MM74PC32JI	NSC	OR GATE	121- 55
30♦	74PC32	MM74PC32N	NSC	OR GATE	121- 56
31♦	74PC32	MM74PC32NI	NSC	OR GATE	121- 57
32	74PC74	MM74PC74	NSC	D FL-FLOP	51- 2
33	74PC74	MM74PC74I	NSC	D FL-FLOP	51- 3
34▼	74PCT273	P74PCT273DC	PSC	D FL-FLOP	64- 51
35▼	74PCT273	*P74PCT273LC	PSC	D FL-FLOP	64- 52
36▼	74PCT273	P74PCT273PC	PSC	D FL-FLOP	64- 53
37▼	74PCT373	P74PCT373DC	PSC	8-BIT LCH	234- 15
38▼	74PCT373	*P74PCT373LC	PSC	8-BIT LCH	234- 98
39▼	74PCT373	P74PCT373PC	PSC	8-BIT LCH	234- 16
40▼	74PCT533	P74PCT533DC	PSC	8-BIT LCH	234- 17
41▼	74PCT533	*P74PCT533LC	PSC	8-BIT LCH	234- 18
42▼	74PCT533	P74PCT533PC	PSC	8-BIT LCH	234- 19
43♦	74S00	74S00DC	FSC	NAND GATE	95- 69
44♦	74S00	74S00PC	FSC	NAND GATE	95- 70
45♦	74S00	DM74S00N	NSC	NAND GATE	96- 7
46♦	74S00	*N74S00D	MULB	NAND GATE	96-107
47♦	74S00	*N74S00D	PHIN	NAND GATE	96-107
48♦	74S00	*N74S00D	RTCF	NAND GATE	96-107
49♦	74S00	*N74S00D	SIC	NAND GATE	96-107
50♦	74S00	*N74S00D	VALG	NAND GATE	96-107
51♦	74S00	N74S00N	MULB	NAND GATE	96-108
52♦	74S00	N74S00N	PHIN	NAND GATE	96-108
53♦	74S00	N74S00N	RTCF	NAND GATE	96-108
54♦	74S00	N74S00N	SIC	NAND GATE	96-108
55♦	74S00	N74S00N	VALG	NAND GATE	96-108
56♦	74S00	*SN74S00D	TII	NAND GATE	97- 80
57♦	74S00	SN74S00N	TII	NAND GATE	97- 81
58♦	74S02	74S02PC	FSC	NOR GATE	112- 51
59♦	74S02	DM74S02N	NSC	NOR GATE	113- 66
60♦	74S02	*N74S02D	MULB	NOR GATE	112- 94
61♦	74S02	*N74S02D	PHIN	NOR GATE	112- 94
62♦	74S02	*N74S02D	RTCF	NOR GATE	112- 94
63♦	74S02	*N74S02D	SIC	NOR GATE	112- 94
64♦	74S02	*N74S02D	VALG	NOR GATE	112- 94
65♦	74S02	N74S02N	MULB	NOR GATE	112- 95
66♦	74S02	N74S02N	PHIN	NOR GATE	112- 95
67♦	74S02	N74S02N	RTCF	NOR GATE	112- 95
68♦	74S02	N74S02N	SIC	NOR GATE	112- 95
69♦	74S02	N74S02N	VALG	NOR GATE	112- 95
70♦	74S02	*SN74S02D	TII	NOR GATE	113- 5
71♦	74S02	SN74S02N	TII	NOR GATE	113- 6
72♦	74S03	74S03DC	FSC	NAND GATE	95- 71
73♦	74S03	74S03PC	FSC	NAND GATE	95- 72
74♦	74S03	DM74S03N	NSC	NAND GATE	96- 8
75♦	74S03	*N74S03D	MULB	NAND GATE	96-109
76♦	74S03	*N74S03D	PHIN	NAND GATE	96-109
77♦	74S03	*N74S03D	RTCF	NAND GATE	96-109
78♦	74S03	*N74S03D	SIC	NAND GATE	96-109
79♦	74S03	*N74S03D	VALG	NAND GATE	96-109
80♦	74S03	N74S03F	MULB	NAND GATE	96-110
81♦	74S03	N74S03F	PHIN	NAND GATE	96-110
82♦	74S03	N74S03F	RTCF	NAND GATE	96-110
83♦	74S03	N74S03F	VALG	NAND GATE	96-110
84♦	74S03	N74S03N	MULB	NAND GATE	97- 1
85♦	74S03	N74S03N	PHIN	NAND GATE	97- 1
86♦	74S03	N74S03N	RTCF	NAND GATE	97- 1
87♦	74S03	N74S03N	VALG	NAND GATE	97- 1
88♦	74S03	*SN74S03D	TII	NAND GATE	97- 82
89♦	74S03	SN74S03N	TII	NAND GATE	97- 83
90♦	74S08	74S08DC	FSC	AND GATE	76- 15
91♦	74S08	74S08PC	FSC	AND GATE	76- 16
92♦	74S08	DM74S08N	NSC	AND GATE	77- 57
93♦	74S08	*N74S08D	MULB	AND GATE	76- 73
94♦	74S08	*N74S08D	PHIN	AND GATE	76- 73
95♦	74S08	*N74S08D	RTCF	AND GATE	76- 73
96♦	74S08	*N74S08D	VALG	AND GATE	76- 73
97♦	74S08	N74S08F	MULB	AND GATE	76- 74
98♦	74S08	N74S08F	PHIN	AND GATE	76- 74
99♦	74S08	N74S08F	RTCF	AND GATE	76- 74
100♦	74S08	N74S08F	VALG	AND GATE	76- 74
101♦	74S08	N74S08N	MULB	AND GATE	76- 75
102♦	74S08	N74S08N	PHIN	AND GATE	76- 75
103♦	74S08	N74S08N	RTCF	AND GATE	76- 75
104♦	74S08	N74S08N	SIC	AND GATE	76- 75
105♦	74S08	N74S08N	VALG	AND GATE	76- 75
106♦	74S08	*SN74S08D	TII	AND GATE	76-105
107♦	74S08	SN74S08N	TII	AND GATE	76-106
108♦	74S09	DM74S09N	NSC	AND GATE	77- 76
109♦	74S09	N74S09F	MULB	AND GATE	77- 49
110♦	74S09	N74S09F	PHIN	AND GATE	77- 49
111♦	74S09	N74S09F	VALG	AND GATE	77- 49
112♦	74S09	N74S09N	MULB	AND GATE	77- 50
113♦	74S09	N74S09N	PHIN	AND GATE	77- 50
114♦	74S09	N74S09N	VALG	AND GATE	77- 50
115♦	74S09	*SN74S09D	TII	AND GATE	77- 54
116♦	74S09	SN74S09N	TII	AND GATE	77- 55
117♦	74S10	74S10DC	FSC	NAND GATE	101- 27
118♦	74S10	74S10PC	FSC	NAND GATE	101- 28
119♦	74S10	DM74S10N	NSC	NAND GATE	101- 51
120♦	74S10	*N74S10D	MULB	NAND GATE	101- 96
121♦	74S10	*N74S10D	PHIN	NAND GATE	101- 96
122♦	74S10	*N74S10D	RTCF	NAND GATE	101- 96
123♦	74S10	*N74S10D	SIC	NAND GATE	101- 96
124♦	74S10	*N74S10D	VALG	NAND GATE	101- 96
125♦	74S10	N74S10N	MULB	NAND GATE	101- 97
126♦	74S10	N74S10N	PHIN	NAND GATE	101- 97
127♦	74S10	N74S10N	RTCF	NAND GATE	101- 97
128♦	74S10	N74S10N	SIC	NAND GATE	101- 97
129♦	74S10	N74S10N	VALG	NAND GATE	101- 97
130♦	74S10	*SN74S10D	TII	NAND GATE	102- 50
131♦	74S10	SN74S10N	TII	NAND GATE	102- 31
132♦	74S11	74S11DC	FSC	AND GATE	79- 41
133♦	74S11	74S11PC	FSC	AND GATE	79- 42
134♦	74S11	DM74S11N	NSC	AND GATE	79- 62
135♦	74S11	*N74S11D	MULB	AND GATE	79- 97
136♦	74S11	*N74S11D	PHIN	AND GATE	79- 97
137♦	74S11	*N74S11D	RTCF	AND GATE	79- 97
138♦	74S11	*N74S11D	SIC	AND GATE	79- 97
139♦	74S11	*N74S11D	VALG	AND GATE	79- 97
140♦	74S11	N74S11N	MULB	AND GATE	79- 98
141♦	74S11	N74S11N	PHIN	AND GATE	79- 98
142♦	74S11	N74S11N	RTCF	AND GATE	79- 98
143♦	74S11	N74S11N	SIC	AND GATE	79- 98
144♦	74S11	N74S11N	VALG	AND GATE	79- 98
145♦	74S11	*SN74S11D	TII	AND GATE	80- 21
146♦	74S11	SN74S11N	TII	AND GATE	80- 22
147♦	74S15	74S15PC	FSC	AND GATE	79- 43
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149♦	74S15	N74S15F	MULB	AND GATE	79- 99
150♦	74S15	N74S15F	PHIN	AND GATE	79- 99
151♦	74S15	N74S15F	VALG	AND GATE	79- 99
152♦	74S15	N74S15N	MULB	AND GATE	79-100
153♦	74S15	N74S15N	PHIN	AND GATE	79-100
154♦	74S15	N74S15N	VALG	AND GATE	79-100
155♦	74S15	*SN74S15D	TII	AND GATE	80- 23
156♦	74S15	SN74S15N	TII	AND GATE	80- 24
157♦	74S20	74S20DC	FSC	NAND GATE	105- 67
158♦	74S20	74S20PC	FSC	NAND GATE	105- 68
159♦	74S20	DM74S20N	NSC	NAND GATE	105- 69
160♦	74S20	*N74S20D	MULB	NAND GATE	105- 74
161♦	74S20	*N74S20D	PHIN	NAND GATE	105- 74
162♦	74S20	*N74S20D	RTCF	NAND GATE	105- 74
163♦	74S20	*N74S20D	SIC	NAND GATE	105- 74
164♦	74S20	*N74S20D	VALG	NAND GATE	105- 74
165♦	74S20	N74S20N	MULB	NAND GATE	105- 75
166♦	74S20	N74S20N	PHIN	NAND GATE	105- 75
167♦	74S20	N74S20N	RTCF	NAND GATE	105- 75
168♦	74S20	N74S20N	SIC	NAND GATE	105- 75
169♦	74S20	N74S20N	VALG	NAND GATE	105- 75
170♦	74S20	*SN74S20D	TII	NAND GATE	105- 82
171♦	74S20	SN74S20N	TII	NAND GATE	105- 83
172♦	74S22	74S22DC	FSC	NAND GATE	104- 41
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174♦	74S22	DM74S22N	NSC	NAND GATE	104- 87
175♦	74S22	N74S22F	MULB	NAND GATE	105- 19
176♦	74S22	N74S22F	PHIN	NAND GATE	105- 19
177♦	74S22	N74S22F	VALG	NAND GATE	105- 19
178♦	74S22	N74S22N	MULB	NAND GATE	105- 20
179♦	74S22	N74S22N	PHIN	NAND GATE	105- 20
180♦	74S22	N74S22N	VALG	NAND GATE	105- 20
181♦	74S22	*SN74S22D	TII	NAND GATE	105- 46
182♦	74S22	SN74S22N	TII	NAND GATE	105- 47
183♦	74S30	74S30DC	FSC	NAND GATE	110- 19
184♦	74S30	74S30PC	FSC	NAND GATE	110- 20
185♦	74S30	DM74S30N	NSC	NAND GATE	109- 48
186♦	74S30	*SN74S30D	TII	NAND GATE	109- 18
187♦	74S30	SN74S30N	TII	NAND GATE	109- 19
188♦	74S32	74S32DC	FSC	OR GATE	120- 13
189♦	74S32	74S32PC	FSC	OR GATE	120- 14
190♦	74S32	DM74S32N	NSC	OR GATE	121- 46
191♦	74S32	*N74S32D	MULB	OR GATE	120- 65
192♦	74S32	*N74S32D	PHIN	OR GATE	120- 65
193♦	74S32	*N74S32D	RTCF	OR GATE	120- 65
194♦	74S32	*N74S32D	SIC	OR GATE	120- 65
195♦	74S32	*N74S32D	VALG	OR GATE	120- 65
196♦	74S32	N74S32N	MULB	OR GATE	120- 66
197♦	74S32	N74S32N	PHIN	OR GATE	120- 66
198♦	74S32	N74S32N	RTCF	OR GATE	120- 66
199♦	74S32	N74S32N	SIC	OR GATE	120- 66
200♦	74S32	N74S32N	VALG	OR GATE	120- 66
201♦	74S32	*SN74S32D	TII	OR GATE	120- 82
202♦	74S32	SN74S32N	TII	OR GATE	120- 83
203♦	74S40	DM74S40N	NSC	NAND GATE	106- 5
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205♦	74S51	74S51PC	FSC	AND-OR-INV	85- 79
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207♦	74S51	*N74S51D	PHIN	AND-OR-INV	86- 5
208♦	74S51	*N74S51D	RTCF	AND-OR-INV	86- 5
209♦	74S51	*N74S51D	SIC	AND-OR-INV	86- 5
210♦	74S51	*N74S51D	VALG	AND-OR-INV	86- 5
211♦	74S51	N74S51N	MULB	AND-OR-INV	86- 6
212♦	74S51	N74S51N	PHIN	AND-OR-INV	86- 6
213♦	74S51	N74S51N	RTCF	AND-OR-INV	86- 6
214♦	74S51	N74S51N	SIC	AND-OR-INV	86- 6
215♦	74S51	N74S51N	VALG	AND-OR-INV	86- 6
216♦	74S51	*SN74S51D	TII	AND-OR-INV	86- 69
217♦	74S51	SN74S51N	TII	AND-OR-INV	86- 70
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219♦	74S64	74S64PC	FSC	AND-OR-INV	88- 31
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50♦	74S85	N74S85N	SIC	MAGN COMP	216- 63
51♦	74S85	N74S85N	VALG	MAGN COMP	216- 63
52	74S85	*SN74S85D	TII	MAGN COMP	216- 67
53♦	74S85	SN74S85N	TII	MAGN COMP	216- 68
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55♦	74S86	74S86PC	FSC	EX-OR GATE	93- 74
56♦	74S86	DM74S86N	NSC	EX-OR GATE	93- 24
57♦	74S86	*N74S86D	MULB	EX-OR GATE	93- 25
58♦	74S86	*N74S86D	PHIN	EX-OR GATE	93- 25
59♦	74S86	*N74S86D	RTCF	EX-OR GATE	93- 25
60♦	74S86	*N74S86D	SIC	EX-OR GATE	93- 25
61♦	74S86	*N74S86D	VALG	EX-OR GATE	93- 25
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65♦	74S86	N74S86N	SIC	EX-OR GATE	93- 26
66♦	74S86	N74S86N	VALG	EX-OR GATE	93- 26
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77♦	74S112	N74S112D	PHIN	JK FL-FLOP	73- 76
78♦	74S112	N74S112D	RTCF	JK FL-FLOP	73- 76
79♦	74S112	N74S112D	SIC	JK FL-FLOP	73- 76
80♦	74S112	N74S112D	VALG	JK FL-FLOP	73- 76
81♦	74S112	N74S112N	MULB	JK FL-FLOP	73- 77
82♦	74S112	N74S112N	PHIN	JK FL-FLOP	73- 77
83♦	74S112	N74S112N	RTCF	JK FL-FLOP	73- 77
84♦	74S112	N74S112N	SIC	JK FL-FLOP	73- 77
85♦	74S112	N74S112N	VALG	JK FL-FLOP	73- 77
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87♦	74S112	SN74S112N	TII	JK FL-FLOP	74- 49
88♦	74S113	74S113PC	FSC	JK FL-FLOP	74- 25
89♦	74S113	DM74S113N	NSC	JK FL-FLOP	74- 30
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91♦	74S113	N74S113F	PHIN	JK FL-FLOP	73- 78
92♦	74S113	N74S113F	VALG	JK FL-FLOP	73- 78
93♦	74S113	N74S113N	MULB	JK FL-FLOP	73- 79
94♦	74S113	N74S113N	PHIN	JK FL-FLOP	73- 79
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96♦	74S113	N74S113N	SIC	JK FL-FLOP	73- 79
97♦	74S113	N74S113N	VALG	JK FL-FLOP	73- 79
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102♦	74S114	N74S114F	PHIN	JK FL-FLOP	73- 80
103♦	74S114	N74S114F	VALG	JK FL-FLOP	73- 80
104♦	74S114	N74S114N	MULB	JK FL-FLOP	73- 81
105♦	74S114	N74S114N	PHIN	JK FL-FLOP	73- 81
106♦	74S114	N74S114N	VALG	JK FL-FLOP	73- 81
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110♦	74S124	SN74S124N	TII	CLOCK/MV	192- 14
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112♦	74S133	74S133PC	FSC	NAND GATE	111- 53
113♦	74S133	*N74S133D	MULB	NAND GATE	111- 54
114♦	74S133	*N74S133D	PHIN	NAND GATE	111- 54
115♦	74S133	*N74S133D	RTCF	NAND GATE	111- 54
116♦	74S133	*N74S133D	SIC	NAND GATE	111- 54
117♦	74S133	*N74S133D	VALG	NAND GATE	111- 54
118♦	74S133	N74S133F	MULB	NAND GATE	111- 55
119♦	74S133	N74S133F	PHIN	NAND GATE	111- 55
120♦	74S133	N74S133F	VALG	NAND GATE	111- 55
121♦	74S133	N74S133N	MULB	NAND GATE	111- 56
122♦	74S133	N74S133N	PHIN	NAND GATE	111- 56
123♦	74S133	N74S133N	RTCF	NAND GATE	111- 56
124♦	74S133	N74S133N	SIC	NAND GATE	111- 56
125♦	74S133	N74S133N	VALG	NAND GATE	111- 56
126♦	74S133	*N74S133W	MULB	NAND GATE	111- 57
127♦	74S133	*N74S133W	PHIN	NAND GATE	111- 57
128♦	74S133	*SN74S133D	TII	NAND GATE	111- 61
129♦	74S133	*SN74S133FN	TII	NAND GATE	111- 62
130♦	74S133	SN74S133N	TII	NAND GATE	111- 63
131♦	74S134	*N74S134D	MULB	NAND GATE	111- 38
132♦	74S134	*N74S134D	PHIN	NAND GATE	111- 38
133♦	74S134	*N74S134D	RTCF	NAND GATE	111- 38
134♦	74S134	*N74S134D	SIC	NAND GATE	111- 38
135♦	74S134	*N74S134D	VALG	NAND GATE	111- 38
136♦	74S134	N74S134F	MULB	NAND GATE	111- 39
137♦	74S134	N74S134F	PHIN	NAND GATE	111- 39
138♦	74S134	N74S134F	VALG	NAND GATE	111- 39
139♦	74S134	N74S134N	MULB	NAND GATE	111- 40
140♦	74S134	N74S134N	PHIN	NAND GATE	111- 40
141♦	74S134	N74S134N	RTCF	NAND GATE	111- 40
142♦	74S134	N74S134N	SIC	NAND GATE	111- 40
143♦	74S134	N74S134N	VALG	NAND GATE	111- 40
144♦	74S134	*N74S134W	MULB	NAND GATE	111- 41
145♦	74S134	*N74S134W	PHIN	NAND GATE	111- 41
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151♦	74S135	N74S135F	PHIN	MULTI-GATE	95- 1
152♦	74S135	N74S135F	VALG	MULTI-GATE	95- 1
153♦	74S135	N74S135N	MULB	MULTI-GATE	95- 2
154♦	74S135	N74S135N	PHIN	MULTI-GATE	95- 2
155♦	74S135	N74S135N	RTCF	MULTI-GATE	95- 2
156♦	74S135	N74S135N	SIC	MULTI-GATE	95- 2
157♦	74S135	N74S135N	VALG	MULTI-GATE	95- 2
158♦	74S135	*SN74S135D	TII	MULTI-GATE	94-109
159♦	74S135	SN74S135N	TII	MULTI-GATE	94-110
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161♦	74S138	N74S138N(2)	MULB	DECODER	125- 33
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163♦	74S138	SN74S138N(2)	AMD	DECODER	125- 50
164♦	74S138	SN74S138N(2)	TII	DECODER	125- 50
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167♦	74S160	SN74S160N	AMD	DEC CNTR	176- 54
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175♦	74S163	*SN74S163D	TII	HEX CNTR	158- 76
176♦	74S163	SN74S163N	TII	HEX CNTR	158- 77
177♦	74S168	*N74S168AD	MULB	DEC CNTR	180- 3
178♦	74S168	*N74S168AD	PHIN	DEC CNTR	180- 3
179♦	74S168	*N74S168AD	RTCF	DEC CNTR	180- 3
180♦	74S168	*N74S168AD	SIC	DEC CNTR	180- 3
181♦	74S168	*N74S168AD	VALG	DEC CNTR	180- 3
182♦	74S168	N74S168AN	MULB	DEC CNTR	180- 4
183♦	74S168	N74S168AN	PHIN	DEC CNTR	180- 4
184♦	74S168	N74S168AN	RTCF	DEC CNTR	180- 4
185♦	74S168	N74S168AN	SIC	DEC CNTR	180- 4
186♦	74S168	N74S168AN	VALG	DEC CNTR	180- 4
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188♦	74S168	N74S168N	MULB	DEC CNTR	180- 6
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191♦	74S169	*N74S169AD	MULB	HEX CNTR	163- 24
192♦	74S169	*N74S169AD	PHIN	HEX CNTR	163- 24
193♦	74S169	*N74S169AD	RTCF	HEX CNTR	163- 24
194♦	74S169	*N74S169AD	SIC	HEX CNTR	163- 24
195♦	74S169	*N74S169AD	VALG	HEX CNTR	163- 24
196♦	74S169	N74S169AN	MULB	HEX CNTR	163- 25
197♦	74S169	N74S169AN	PHIN	HEX CNTR	163- 25
198♦	74S169	N74S169AN	RTCF	HEX CNTR	163- 25
199♦	74S169	N74S169AN	VALG	HEX CNTR	163- 25
200♦	74S169	N74S169F	MULB	HEX CNTR	163- 26
201♦	74S169	N74S169N	MULB	HEX CNTR	163- 27
202♦	74S169	N74S169N	SIC	HEX CNTR	163- 27
203♦	74S169	*SN74S169D	TII	HEX CNTR	163- 59
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27♦	74S181	N74S181N	PHIN	4-BIT ALU	221- 62
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39♦	74S182	DM74S182N	NSC	PARITY GEN	224- 52
40	74S182	*N74S182D	MULB	PARITY GEN	224- 90
41	74S182	*N74S182D	PHIN	PARITY GEN	224- 90
42	74S182	*N74S182D	RTCF	PARITY GEN	224- 90
43	74S182	*N74S182D	SIC	PARITY GEN	224- 90
44	74S182	*N74S182D	VALG	PARITY GEN	224- 90
45♦	74S182	N74S182F	MULB	PARITY GEN	224- 91
46♦	74S182	N74S182F	PHIN	PARITY GEN	224- 91
47♦	74S182	N74S182F	VALG	PARITY GEN	224- 91
48♦	74S182	N74S182N	MULB	PARITY GEN	224- 92
49♦	74S182	N74S182N	PHIN	PARITY GEN	224- 92
50♦	74S182	N74S182N	RTCF	PARITY GEN	224- 92
51♦	74S182	N74S182N	SIC	PARITY GEN	224- 92
52♦	74S182	N74S182N	VALG	PARITY GEN	224- 92
53	74S182	*SN74S182D	TII	PARITY GEN	224-102
54♦	74S182	SN74S182J	MMI	PARITY GEN	224-103
55♦	74S182	SN74S182J16	MMI	PARITY GEN	224-104
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61♦	74S196	N74S196F	PHIN	DEC CNTR	176- 52
62♦	74S196	*SN74S196D	TII	DEC CNTR	176- 92
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64♦	74S197	DM74S197N	NSC	HEX CNTR	158- 94
65♦	74S197	N74S197F	MULB	HEX CNTR	158- 95
66♦	74S197	N74S197F	PHIN	HEX CNTR	158- 95
67♦	74S197	*SN74S197D	TII	HEX CNTR	159- 23
68♦	74S197	SN74S197N	TII	HEX CNTR	159- 24
69♦	74S260	*N74S260D	MULB	NOR GATE	119- 17
70♦	74S260	*N74S260D	PHIN	NOR GATE	119- 17
71♦	74S260	*N74S260D	RTCF	NOR GATE	119- 17
72♦	74S260	*N74S260D	SIC	NOR GATE	119- 17
73♦	74S260	*N74S260D	VALG	NOR GATE	119- 17
74♦	74S260	N74S260N	MULB	NOR GATE	119- 18
75♦	74S260	N74S260N	PHIN	NOR GATE	119- 18
76♦	74S260	N74S260N	RTCF	NOR GATE	119- 18
77♦	74S260	N74S260N	SIC	NOR GATE	119- 18
78♦	74S260	N74S260N	VALG	NOR GATE	119- 18
79♦	74S260	*SN74S260D	TII	NOR GATE	119- 23
80♦	74S260	SN74S260N	TII	NOR GATE	119- 24
81	74S273	*N74S273D	MULB	D FL-FLOP	62- 91
82	74S273	*N74S273D	PHIN	D FL-FLOP	62- 91
83	74S273	*N74S273D	RTCF	D FL-FLOP	62- 91
84	74S273	*N74S273D	SIC	D FL-FLOP	62- 91
85	74S273	*N74S273D	VALG	D FL-FLOP	62- 91
86♦	74S273	N74S273F(1)	MULB	D FL-FLOP	63- 15
87♦	74S273	N74S273F(1)	PHIN	D FL-FLOP	63- 15
88♦	74S273	N74S273F(1)	VALG	D FL-FLOP	63- 15
89♦	74S273	N74S273N	MULB	D FL-FLOP	62- 92
90♦	74S273	N74S273N	PHIN	D FL-FLOP	62- 92
91♦	74S273	N74S273N	RTCF	D FL-FLOP	62- 92
92♦	74S273	N74S273N	SIC	D FL-FLOP	62- 92
93♦	74S273	N74S273N	VALG	D FL-FLOP	62- 92
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96♦	74S280	N74S280F	PHIN	PARITY GEN	226- 72
97♦	74S280	N74S280F	VALG	PARITY GEN	226- 72
98♦	74S280	N74S280N	MULB	PARITY GEN	226- 73
99♦	74S280	N74S280N	PHIN	PARITY GEN	226- 73
100♦	74S280	N74S280N	RTCF	PARITY GEN	226- 73
101♦	74S280	N74S280N	SIC	PARITY GEN	226- 73
102♦	74S280	N74S280N	VALG	PARITY GEN	226- 73
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106♦	74S283	SN74S283N	TII	ADDER	199-100
107♦	74S373	DM74S373N	NSC	8-BIT LCH	234- 96
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109	74S373	*N74S373D	PHIN	8-BIT LCH	235- 64
110	74S373	*N74S373D	RTCF	8-BIT LCH	235- 64
111	74S373	*N74S373D	SIC	8-BIT LCH	235- 64
112	74S373	*N74S373D	VALG	8-BIT LCH	235- 64
113♦	74S373	N74S373F	MULB	8-BIT LCH	235- 65
114♦	74S373	N74S373N	MULB	8-BIT LCH	235- 66
115♦	74S373	N74S373N	PHIN	8-BIT LCH	235- 66
116♦	74S373	N74S373N	RTCF	8-BIT LCH	235- 66
117♦	74S373	N74S373N	VALG	8-BIT LCH	235- 66
118♦	74S373	*SN74S373DW	TII	8-BIT LCH	235- 68
119▼	74S373	SN74S373J	AMD	8-BIT LCH	237- 1
120▼	74S373	SN74S373J	MMI	8-BIT LCH	237- 1
121♦	74S373	SN74S373N(1)	AMD	8-BIT LCH	237- 2
122♦	74S373	SN74S373N(1)	MMI	8-BIT LCH	237- 2
123♦	74S373	SN74S373N(1)	TII	8-BIT LCH	237- 2
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126♦	74S374	*AM74S374FM	AMD	D FL-FLOP	57- 96
127♦	74S374	AM74S374PC	AMD	D FL-FLOP	57- 97
128♦	74S374	DM74S374N	NSC	8-BIT LCH	236- 22
129	74S374	*N74S374D	MULB	D FL-FLOP	62- 93
130	74S374	*N74S374D	PHIN	D FL-FLOP	62- 93
131	74S374	*N74S374D	RTCF	D FL-FLOP	62- 93
132	74S374	*N74S374D	SIC	D FL-FLOP	62- 93
133	74S374	*N74S374D	VALG	D FL-FLOP	62- 93
134♦	74S374	N74S374N	MULB	D FL-FLOP	62- 94
135♦	74S374	N74S374N	PHIN	D FL-FLOP	62- 94
136♦	74S374	N74S374N	RTCF	D FL-FLOP	62- 94
137♦	74S374	N74S374N	SIC	D FL-FLOP	62- 94
138♦	74S374	N74S374N	VALG	D FL-FLOP	62- 94
139♦	74S374	*SN74S374DW	TII	D FL-FLOP	63- 89
140	74S374	SN74S374J(1)	MMI	8-BIT LCH	238- 10
141▼	74S374	SN74S374N	MMI	D FL-FLOP	62- 38
142♦	74S381	DM74S381N	NSC	4-BIT ALU	221- 96
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144♦	74S381	SN74S381J	MMI	4-BIT ALU	221- 38
145♦	74S381	SN74S381J20	MMI	4-BIT ALU	221- 71
146♦	74S381	SN74S381N	MMI	4-BIT ALU	221- 93
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154▼	74S531	SN74S531N	MMI	8-BIT LCH	235- 98
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157♦	74S533	SN74S533N	AMD	8-BIT LCH	237- 4
158♦	74S533	SN74S533N	MMI	8-BIT LCH	237- 4
159♦	74S534	N74S534F	MULB	D FL-FLOP	62- 95
160♦	74S534	N74S534F	RTCF	D FL-FLOP	62- 95
161♦	74S534	N74S534F	VALG	D FL-FLOP	62- 95
162♦	74S534	N74S534N	MULB	D FL-FLOP	62- 96
163♦	74S534	N74S534N	PHIN	D FL-FLOP	62- 96
164♦	74S534	N74S534N	RTCF	D FL-FLOP	62- 96
165♦	74S534	N74S534N	SIC	D FL-FLOP	62- 96
166♦	74S534	N74S534N	VALG	D FL-FLOP	62- 96
167♦	74S534	SN74S534J	MMI	D FL-FLOP	63- 90
168♦	74S534	SN74S534N	MMI	D FL-FLOP	63- 91
169♦	74S535	SN74S535J(1)	MMI	8-BIT LCH	237- 5
170♦	74S535	SN74S535N(1)	MMI	8-BIT LCH	237- 6
171♦	74S536	SN74S536J(1)	MMI	D FL-FLOP	63- 92
172♦	74S536	SN74S536N(1)	MMI	D FL-FLOP	63- 93
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177♦	74S557	SN74S557J40	MMI	MULTIPLIER	202- 93
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179♦	74S558	SN74S558J	MMI	MULTIPLIER	203- 22
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184♦	74SC273	74SC273P(A)	STX	D FL-FLOP	57- 85
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187♦	74SC373	74SC373P	STX	8-BIT LCH	240- 6
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197♦	74SC393	74SC393D(A)	STX	HEX CNTR	164- 73
198♦	74SC393	74SC393P(A)	STX	HEX CNTR	164- 74
199♦	74SC533	74SC533C	STX	8-BIT LCH	240- 7
200♦	74SC533	74SC533D	STX	8-BIT LCH	240- 8
201♦	74SC533	74SC533P	STX	8-BIT LCH	240- 9
202♦	74SC533	MV74SC533(A)	PLSB	8-BIT LCH	240- 65
203♦	74SC534	74SC534C	STX	D FL-FLOP	59- 23
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205♦	74SC534	74SC534P	STX	D FL-FLOP	59- 25
206♦	74SC534	MV74SC534(A)	PLSB	D FL-FLOP	59- 73
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208♦	74SC563	74SC563D	STX	8-BIT LCH	240- 11
209♦	74SC563	74SC563P	STX	8-BIT LCH	240- 12
210♦	74SC563	MV74SC563(A)	PLSB	8-BIT LCH	240- 66
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78	76Z14	*76Z14A040T	SPR	TIME DELAY	135- 55
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122	76Z16	76Z16A100T	SPR	TIME DELAY	135- 99
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164♦	92	RG92DC	RTN	EX-OR GATE	94- 68
165♦	93	*RG93CJ	RTN	EX-OR GATE	94- 69
166♦	93	*RG93CK	RTN	EX-OR GATE	94- 70
167♦	93	RG93DC	RTN	EX-OR GATE	94- 71
168♦	93L01	93L01DC	FSC	DECODER	126- 31
169♦	93L01	93L01DM	FSC	DECODER	126- 32
170	93L01	*93L01FM	FSC	DECODER	126- 33
171♦	93L08	93L08DC	FSC	4-BIT LCH	231- 74
172♦	93L08	93L08DM	FSC	4-BIT LCH	231- 75
173	93L08	*93L08FM	FSC	4-BIT LCH	231- 76
174♦	93L08	93L08PC	FSC	4-BIT LCH	231- 77
175♦	93L10	93L10DC	FSC	DEC CNTR	173- 63
176♦	93L10	93L10DM	FSC	DEC CNTR	173- 64
177♦	93L10	*93L10FM	FSC	DEC CNTR	173- 65
178♦	93L10	93L10PC	FSC	DEC CNTR	173- 66
179♦	93L14	93L14DC	FSC	4-BIT LCH	232- 3
180♦	93L14	93L14DM	FSC	4-BIT LCH	232- 4
181	93L14	*93L14FM	FSC	4-BIT LCH	232- 5
182	93L14	93L14PC	FSC	4-BIT LCH	232- 6
183♦	93L16	93L16DC	FSC	HEX CNTR	155- 35
184♦	93L16	93L16DM	FSC	HEX CNTR	155- 36
185♦	93L16	*93L16FM	FSC	HEX CNTR	155- 37
186♦	93L16	93L16PC	FSC	HEX CNTR	155- 38
187♦	93L24	93L24DC	FSC	MAGN COMP	218- 15
188♦	93L24	93L24DM	FSC	MAGN COMP	218- 16
189	93L24	*93L24FM	FSC	MAGN COMP	218- 17
190♦	93L24	93L24PC	FSC	MAGN COMP	218- 18
191♦	93L34	93L34DC	FSC	8-BIT LCH	239- 15
192♦	93L34	93L34DM	FSC	8-BIT LCH	239- 16
193	93L34	*93L34FM	FSC	8-BIT LCH	239- 17
194♦	93L34	93L34PC	FSC	8-BIT LCH	239- 18
195	93L41	*93L41FM	FSC	4-BIT ALU	221- 99
196♦	93S10	93S10DC	AMD	DEC CNTR	176- 46
197♦	93S10	93S10DC	FSC	DEC CNTR	176- 46
198♦	93S10	93S10DM	FSC	DEC CNTR	176- 47
199♦	93S10	*93S10FM	FSC	DEC CNTR	176- 48
200♦	93S10	93S10PC	AMD	DEC CNTR	176- 49
201♦	93S16	93S16DC	AMD	HEX CNTR	158- 90
202♦	93S16	93S16DC	FSC	HEX CNTR	158- 90
203♦	93S16	93S16DM	FSC	HEX CNTR	158- 91
204♦	93S16	*93S16FM	FSC	HEX CNTR	158- 92
205♦	93S16	93S16PC	AMD	HEX CNTR	158- 93
206♦	93S41	93S41DC	FSC	4-BIT ALU	220-110
207♦	93S41	93S41DM	FSC	4-BIT ALU	221- 1
208	93S41	*93S41FM	FSC	4-BIT ALU	221- 2
209♦	93S41	93S41PC	FSC	4-BIT ALU	221- 3
210♦	93S42	93S42DC	FSC	PARITY GEN	224-109
211♦	93S42	93S42DM	FSC	PARITY GEN	224-110
212	93S42	*93S42FM	FSC	PARITY GEN	225- 1
213♦	93S42	93S42PC	FSC	PARITY GEN	225- 2
214♦	93S43	93S43DC	FSC	MULTIPLIER	202- 29
215♦	93S43	93S43DM	FSC	MULTIPLIER	202- 30
216	93S43	*93S43FM	FSC	MULTIPLIER	202- 31
217♦	93S43	93S43PC	FSC	MULTIPLIER	202- 32
218♦	93S46	93S46DC	FSC	MAGN COMP	215- 44
219♦	93S46	93S46DM	FSC	MAGN COMP	215- 45
220	93S46	*93S46FM	FSC	MAGN COMP	215- 46

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3♦	93S47	93S47DM	FSC	MAGN COMP	215- 50
4	93S47	*93S47FM	FSC	MAGN COMP	215- 51
5	93S47	93S47PC	FSC	MAGN COMP	215- 52
6♦	93S48	93S48DC	AMD	PARITY GEN	227-110
7♦	93S48	93S48PC	AMD	PARITY GEN	228- 1
8♦	93S62	93S62DC	FSC	PARITY GEN	226- 86
9♦	93S62	93S62DM	FSC	PARITY GEN	226- 87
10♦	93S62	*93S62FM	FSC	PARITY GEN	226- 88
11♦	93S62	93S62PC	FSC	PARITY GEN	226- 89
12♦	96L02	96L02DC	FSC	CLOCK/MV	189- 35
13♦	96L02	96L02DM	FSC	CLOCK/MV	189- 36
14	96L02	*96L02FM	FSC	CLOCK/MV	189- 37
15	96L02	96L02PC	FSC	CLOCK/MV	189- 38
16♦	96LS02	96LS02DC	FSC	CLOCK/MV	189- 39
17♦	96LS02	96LS02DM	FSC	CLOCK/MV	189- 40
18	96LS02	*96LS02FM	FSC	CLOCK/MV	189- 41
19	96LS02	96LS02PC	FSC	CLOCK/MV	189- 42
20♦	96S02	96S02DC	FSC	CLOCK/MV	189- 43
21	96S02	96S02PC	FSC	CLOCK/MV	189- 44
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23	99-5006	*SMD99-5006	DDD	TIME DELAY	135- 30
24	99-5008	*SMD99-5008	DDD	TIME DELAY	135- 31
25	99-5010	*SMD99-5010	DDD	TIME DELAY	135- 32
26	99-5012	*SMD99-5012	DDD	TIME DELAY	149-107
27	99-5016	*SMD99-5016	DDD	TIME DELAY	149-108
28	99-5020	*SMD99-5020	DDD	TIME DELAY	149-109
29	99-5030	*SMD99-5030	DDD	TIME DELAY	149-110
30	99-5035	*SMD99-5035	DDD	TIME DELAY	150- 1
31	99-5040	*SMD99-5040	DDD	TIME DELAY	150- 2
32	99-5045	*SMD99-5045	DDD	TIME DELAY	150- 3
33	99-5050	*SMD99-5050	DDD	TIME DELAY	150- 4
34	99-5060	*SMD99-5060	DDD	TIME DELAY	150- 5
35	99-5075	*SMD99-5075	DDD	TIME DELAY	150- 6
36	99-5100	*SMD99-5100	DDD	TIME DELAY	150- 7
37	99-5125	*SMD99-5125	DDD	TIME DELAY	150- 8
38	99-5150	*SMD99-5150	DDD	TIME DELAY	150- 9
39	99-5175	*SMD99-5175	DDD	TIME DELAY	150- 10
40	99-5200	*SMD99-5200	DDD	TIME DELAY	150- 11
41	99-5250	*SMD99-5250	DDD	TIME DELAY	150- 12
42	99C5004	*SMD99C5004	DDD	TIME DELAY	141- 82
43	99C5006	*SMD99C5006	DDD	TIME DELAY	141- 83
44	99C5008	*SMD99C5008	DDD	TIME DELAY	141- 84
45	99C5010	*SMD99C5010	DDD	TIME DELAY	141- 85
46	99C5012	*SMD99C5012	DDD	TIME DELAY	141- 86
47	99C5016	*SMD99C5016	DDD	TIME DELAY	141- 87
48	99C5020	*SMD99C5020	DDD	TIME DELAY	141- 88
49	99C5030	*SMD99C5030	DDD	TIME DELAY	141- 89
50	99C5035	*SMD99C5035	DDD	TIME DELAY	141- 90
51	99C5040	*SMD99C5040	DDD	TIME DELAY	141- 91
52	99C5045	*SMD99C5045	DDD	TIME DELAY	141- 92
53	99C5050	*SMD99C5050	DDD	TIME DELAY	141- 93
54	99C5060	*SMD99C5060	DDD	TIME DELAY	141- 94
55	99C5075	*SMD99C5075	DDD	TIME DELAY	141- 95
56	99C5100	*SMD99C5100	DDD	TIME DELAY	141- 96
57	99C5125	*SMD99C5125	DDD	TIME DELAY	141- 97
58	99C5150	*SMD99C5150	DDD	TIME DELAY	141- 98
59	99C5175	*SMD99C5175	DDD	TIME DELAY	141- 99
60	99C5200	*SMD99C5200	DDD	TIME DELAY	141-100
61	99C5250	*SMD99C5250	DDD	TIME DELAY	141-101
62	99F5004	*SMD99F5004	DDD	TIME DELAY	150- 13
63	99F5006	*SMD99F5006	DDD	TIME DELAY	150- 14
64	99F5008	*SMD99F5008	DDD	TIME DELAY	150- 15
65	99F5010	*SMD99F5010	DDD	TIME DELAY	150- 16
66	99F5012	*SMD99F5012	DDD	TIME DELAY	150- 17
67	99F5016	*SMD99F5016	DDD	TIME DELAY	150- 18
68	99F5020	*SMD99F5020	DDD	TIME DELAY	150- 19
69	99F5025	*SMD99F5025	DDD	TIME DELAY	150- 20
70	99F5030	*SMD99F5030	DDD	TIME DELAY	150- 21
71	99F5035	*SMD99F5035	DDD	TIME DELAY	150- 22
72	99F5040	*SMD99F5040	DDD	TIME DELAY	150- 23
73	99F5045	*SMD99F5045	DDD	TIME DELAY	150- 24
74	99F5050	*SMD99F5050	DDD	TIME DELAY	150- 25
75	99F5060	*SMD99F5060	DDD	TIME DELAY	150- 26
76	99F5075	*SMD99F5075	DDD	TIME DELAY	150- 27
77▼	99F5100	*SMD99F5100	DDD	TIME DELAY	150- 28
78▼	99F5125	*SMD99F5125	DDD	TIME DELAY	150- 29
79▼	99F5150	*SMD99F5150	DDD	TIME DELAY	150- 30
80▼	99F5175	*SMD99F5175	DDD	TIME DELAY	150- 31
81▼	99F5200	*SMD99F5200	DDD	TIME DELAY	150- 32
82▼	99F5250	*SMD99F5250	DDD	TIME DELAY	150- 33
83	99F50100	*SMD99F50100	DDD	TIME DELAY	150- 34
84	99F50125	*SMD99F50125	DDD	TIME DELAY	150- 35
85	99F50150	*SMD99F50150	DDD	TIME DELAY	150- 36
86	99F50175	*SMD99F50175	DDD	TIME DELAY	150- 37
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89	0100	DE0100	VLR	TIME DELAY	142- 51
90	0100	*SM0100	VLR	TIME DELAY	149-102
91	100	*BTTLDL100	TNL	TIME DELAY	145- 45
92	100	*BTTLDL100M	TNL	TIME DELAY	145- 46
93	100	CCO100A	CCL	CLOCK/MV	191-100
94	100	*CTTLDL100	TNL	TIME DELAY	145- 61
95	100	*CTTLDL100M	TNL	TIME DELAY	145- 62
96♦	100	D2ECL100	RHB	TIME DELAY	141-108
97♦	100	DDU4C100	DDD	TIME DELAY	141- 16
98	100	DDU6-100	DDD	TIME DELAY	137- 76
99	100	DDU7-100	DDD	TIME DELAY	137- 86
100♦	100	DDU7F100	DDD	TIME DELAY	146- 77
101	100	DDU7J100	DDD	TIME DELAY	146- 88
102♦	100	DECL100	RHB	TIME DELAY	142- 67
103♦	100	DTZM1-100	RHB	TIME DELAY	137-108
104	100	ECLDL100	TNL	TIME DELAY	142- 77
105	100	ECLDL100M	TNL	TIME DELAY	142- 78
106♦	100	ECLPWG100	RHB	TIME DELAY	152- 58
107	100	EKLDL100	TNL	TIME DELAY	142-108
108	100	EKLPG100	TNL	TIME DELAY	132- 52
109♦	100	FDM100	RHB	TIME DELAY	128- 81
110♦	100	FDM-100	RHB	TIME DELAY	128- 94
111♦	100	FECL100	RHB	TIME DELAY	128- 15
112▼	100	*FMM100FG(A)	FCAJ	FREQ DIVID	195- 68
113♦	100	FSDM100	RHB	TIME DELAY	128-107
114	100	HTTLDL100	TNL	TIME DELAY	149- 56
115♦	100	MDM100	RHB	TIME DELAY	130- 66
116	100	MDU2-100	DDD	TIME DELAY	129- 54
117	100	MDU2F100	DDD	TIME DELAY	129- 75
118	100	MDU3-100	DDD	TIME DELAY	130- 79
119	100	MDU3F100	DDD	TIME DELAY	130- 95
120♦	100	MECL100	RHB	TIME DELAY	130- 14
121♦	100	MSDM100	RHB	TIME DELAY	130-100
122♦	100	RED100/120	LSC	FREQ DIVID	195-108
123	100	*RF100CJ	RTN	JK FL-FLOP	71- 49
124	100	*RF100CK	RTN	JK FL-FLOP	71- 50
125♦	100	RF100DC	RTN	JK FL-FLOP	71- 51
126♦	100	SDM100	RHB	TIME DELAY	140- 63
127	100	STTLDL100	TNL	TIME DELAY	150- 46
128	100	STTLDL100M	TNL	TIME DELAY	150- 47
129	100	TTLDL100	TNL	TIME DELAY	150- 66
130	100	TTLDL100M	TNL	TIME DELAY	150- 67
131♦	100	TTLOS100	RHB	CLOCK/MV	188- 5
132	100	TTLPW100	TNL	SPECIAL	247- 80
133♦	100	TTLPW100M	TNL	SPECIAL	247- 81
134♦	100	TTLPWG100	RHB	TIME DELAY	153- 23
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136♦	101	FCJ101	PHIN	JK FL-FLOP	64- 92
137♦	101	FCY101	PHIN	AND GATE	83- 36
138♦	101	FJH101-7430	PHIN	NAND GATE	109- 53
139♦	101	FJK101-74121	PHIN	CLOCK/MV	188- 64
140♦	101	FJY101-7460	PHIN	AND GATE	81- 55
141♦	101	FZH101	VALG	NAND GATE	101- 12
142♦	101	FZH101A	SIEG	NAND GATE	101- 13
143♦	101	FZJ101	SIEG	JK FL-FLOP	64- 82
144♦	101	FZJ101	VALG	JK FL-FLOP	64- 82
145♦	101	FZK101	SIEG	SPECIAL	246- 35
146♦	101	FZL101(2)	SIEG	DECODER	126- 80
147♦	101	FZL101(2)	VALG	DECODER	126- 80
148	101	*RF101CJ	RTN	JK FL-FLOP	71- 52
149	101	*RF101CK	RTN	JK FL-FLOP	71- 53
150♦	101	RF101DC	RTN	JK FL-FLOP	71- 54
151♦	102	H102D1	SGSI	NAND GATE	101- 6
152♦	102	H102D2	SGSI	NAND GATE	101- 7
153♦	102	H102D6	SGSI	NAND GATE	101- 8
154	102	*RF102CJ	RTN	JK FL-FLOP	71- 55
155	102	*RF102CK	RTN	JK FL-FLOP	71- 56
156♦	102	RF102DC	RTN	JK FL-FLOP	71- 57
157♦	103	H103D1	SGSI	NAND GATE	104- 23
158♦	103	H103D2	SGSI	NAND GATE	104- 24
159♦	103	H103D6	SGSI	NAND GATE	104- 25
160	103	*RF103CJ	RTN	JK FL-FLOP	71- 58
161	103	*RF103CK	RTN	JK FL-FLOP	71- 59
162♦	103	RF103DC	RTN	JK FL-FLOP	71- 60
163♦	104	H104D1	SGSI	NAND GATE	108- 97
164♦	104	H104D2	SGSI	NAND GATE	108- 98
165♦	104	H104D6	SGSI	NAND GATE	108- 99
166♦	104	RDD104	LSC	FREQ DIVID	196- 23
167♦	105	FZH105A	SIEG	NAND GATE	95- 46
168♦	105	FZJ105	SIEG	JK FL-FLOP	64- 83
169♦	105	FZK105	SIEG	SPECIAL	246- 36
170♦	105	FZL105(2)	SIEG	DECODER	126- 81
171♦	105	H105D1	SGSI	AND-OR-INV	89- 73
172♦	105	H105D2	SGSI	AND-OR-INV	89- 74
173♦	105	H105D6	SGSI	AND-OR-INV	89- 75
174	108	PDU108-1	DDD	TIME DELAY	132- 57
175	108	PDU108-2	DDD	TIME DELAY	132- 58
176	108	PDU108-3	DDD	TIME DELAY	132- 59
177	108	PDU108-5	DDD	TIME DELAY	132- 60
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179	108	PDU108-20	DDD	TIME DELAY	132- 62
180	108	PDU108-40	DDD	TIME DELAY	132- 63
181	108	PDU108-50	DDD	TIME DELAY	132- 64
182	108	PDU108H1	DDD	TIME DELAY	132- 65
183	108	PDU108H2	DDD	TIME DELAY	132- 66
184	108	PDU108H3	DDD	TIME DELAY	132- 67
185	108	PDU108H4	DDD	TIME DELAY	132- 68
186	108	PDU108H5	DDD	TIME DELAY	132- 69
187	108	PDU108H6	DDD	TIME DELAY	132- 70
188	108	PDU108H7	DDD	TIME DELAY	132- 71
189	108	PDU108H8	DDD	TIME DELAY	132- 72
190	108	PDU108H9	DDD	TIME DELAY	132- 73
191	108	PDU108H10	DDD	TIME DELAY	132- 74
192	108	PDU108H12	DDD	TIME DELAY	132- 75
193	108	PDU108H20	DDD	TIME DELAY	132- 76
194	108	PDU108H25	DDD	TIME DELAY	132- 77
195	108	PDU108H30	DDD	TIME DELAY	132- 78
196	108	PDU108H35	DDD	TIME DELAY	132- 79
197	108	PDU108H40	DDD	TIME DELAY	132- 80
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199	108	PDU108H50	DDD	TIME DELAY	132- 82
200	108	PDU108H.5	DDD	TIME DELAY	132- 83
201	108	PDU108.5	DDD	TIME DELAY	132- 84
202♦	109	H109D1	SGSI	AND GATE	83- 38
203♦	109	H109D2	SGSI	AND GATE	83- 39
204♦	109	H109D6	SGSI	AND GATE	83- 40
205♦	110	H110D1	SGSI	JK FL-FLOP	67- 16
206♦	110	H110D2	SGSI	JK FL-FLOP	67- 17
207♦	110	H110D6	SGSI	JK FL-FLOP	67- 18
208	110	*RF110CJ	RTN	JK FL-FLOP	71- 61
209	110	*RF110CK	RTN	JK FL-FLOP	71- 62
210♦	110	RF110DC	RTN	JK FL-FLOP	71- 63
211♦	110	*RG110CJ	RTN	AND-OR-INV	89- 32
212♦	110	*RG110CK	RTN	AND-OR-INV	89- 33
213♦	110	RG110DC	RTN	AND-OR-INV	89- 34
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215♦	110	SAJ110	VALG	FREQ DIVID	193- 97
216♦	111	FCH111	PHIN	NOR GATE	119-110
217♦	111	FCJ111	PHIN	JK FL-FLOP	64- 89
218♦	111	FJH111-7420	PHIN	NAND GATE	106- 60
219♦	111	FJJ111-7472	PHIN	JK FL-FLOP	64-100
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3♦	111	FZJ111	VALG	JK FL-FLOP	64- 84
4♦	111	H111D1	SGSI	JK FL-FLOP	67- 19
5♦	111	H111D2	SGSI	JK FL-FLOP	67- 20
6♦	111	H111D6	SGSI	JK FL-FLOP	67- 21
7	111	*RF111CJ	RTN	JK FL-FLOP	71- 64
8	111	*RF111CK	RTN	JK FL-FLOP	71- 65
9♦	111	RF111DC	RTN	JK FL-FLOP	71- 66
10♦	111	*RG111CJ	RTN	AND-OR-INV	89- 35
11♦	111	*RG111CK	RTN	AND-OR-INV	89- 36
12♦	111	RG111DC	RTN	AND-OR-INV	89- 37
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14▼	112	LMU112DC	LDI	MULTIPLIER	203-110
15▼	112	LMU112DMB55	LDI	MULTIPLIER	204- 1
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17▼	112	LMU112PC55	LDI	MULTIPLIER	204- 3
18▼	112	LMU112PC	LDI	MULTIPLIER	204- 4
19♦	112	MPY112KJ4C	TRW	MULTIPLIER	204- 52
20♦	112	MPY112KJ4G(A)	TRW	MULTIPLIER	204- 53
21	112	*RF112CJ	RTN	JK FL-FLOP	71- 67
22	112	*RF112CK	RTN	JK FL-FLOP	71- 68
23♦	112	RF112DC	RTN	JK FL-FLOP	71- 69
24♦	112	*RG112CJ	RTN	AND-OR-INV	89- 38
25♦	112	*RG112CK	RTN	AND-OR-INV	89- 39
26♦	112	RG112DC	RTN	AND-OR-INV	89- 40
27	113	*RF113CJ	RTN	JK FL-FLOP	71- 70
28	113	*RF113CK	RTN	JK FL-FLOP	71- 71
29♦	113	RF113DC	RTN	JK FL-FLOP	71- 72
30♦	113	*RG113CJ	RTN	AND-OR-INV	89- 41
31♦	113	*RG113CK	RTN	AND-OR-INV	89- 42
32♦	113	RG113DC	RTN	AND-OR-INV	89- 43
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35♦	117	H117D1	SGSI	CLOCK/MV	188- 65
36♦	117	H117D6	SGSI	CLOCK/MV	188- 66
37	120	EKLDL120	TNL	TIME DELAY	142-109
38	120	*RF120CJ	RTN	JK FL-FLOP	72- 99
39	120	*RF120CK	RTN	JK FL-FLOP	72-100
40♦	120	RF120DC	RTN	JK FL-FLOP	72-101
41♦	120	*RG120CJ	RTN	NAND GATE	111- 22
42♦	120	*RG120CK	RTN	NAND GATE	111- 23
43♦	120	RG120DC	RTN	NAND GATE	111- 24
44♦	121	FCH121	PHIN	NOR GATE	119- 40
45♦	121	FCJ121	PHIN	JK FL-FLOP	67- 46
46♦	121	FJH121-7410	PHIN	NAND GATE	101- 60
47♦	121	FJJ121-7473	PHIN	JK FL-FLOP	67- 80
48♦	121	FZH121	SIEG	NAND GATE	108-107
49♦	121	FZH121	VALG	NAND GATE	108-107
50♦	121	FZJ121	SIEG	JK FL-FLOP	67- 14
51♦	121	FZJ121	VALG	JK FL-FLOP	67- 14
52	121	*RF121CJ	RTN	JK FL-FLOP	72-102
53	121	*RF121CK	RTN	JK FL-FLOP	72-103
54♦	121	RF121DC	RTN	JK FL-FLOP	72-104
55♦	121	*RG121CJ	RTN	NAND GATE	111- 25
56♦	121	*RG121CK	RTN	NAND GATE	111- 26
57♦	121	RG121DC	RTN	NAND GATE	111- 27
58♦	122	H122D1	SGSI	NAND GATE	96- 32
59♦	122	H122D2	SGSI	NAND GATE	96- 33
60♦	122	H122D6	SGSI	NAND GATE	96- 34
61	122	*RF122CJ	RTN	JK FL-FLOP	72-105
62	122	*RF122CK	RTN	JK FL-FLOP	72-106
63♦	122	RF122DC	RTN	JK FL-FLOP	72-107
64♦	122	*RG122CJ	RTN	NAND GATE	111- 28
65♦	122	*RG122CK	RTN	NAND GATE	111- 29
66♦	122	RG122DC	RTN	NAND GATE	111- 30
67	123	*RF123CJ	RTN	JK FL-FLOP	72-108
68	123	*RF123CK	RTN	JK FL-FLOP	72-109
69♦	123	RF123DC	RTN	JK FL-FLOP	72-110
70♦	123	*RG123CJ	RTN	NAND GATE	111- 31
71♦	123	*RG123CK	RTN	NAND GATE	111- 32
72♦	123	RG123DC	RTN	NAND GATE	111- 33
73♦	124	H124D1	SGSI	NAND GATE	104- 96
74♦	124	H124D2	SGSI	NAND GATE	104- 97
75♦	124	H124D6	SGSI	NAND GATE	104- 98
76	0125	*SM0125	VLR	TIME DELAY	149-103
77	125	*BTTLDL125	TNL	TIME DELAY	145- 47
78	125	*BTTLDL125M	TNL	TIME DELAY	145- 48
79	125	*CTTLDL125	TNL	TIME DELAY	145- 63
80	125	*CTTLDL125M	TNL	TIME DELAY	145- 64
81♦	125	DDU4C125	DDD	TIME DELAY	141- 17
82	125	DDU6-125	DDD	TIME DELAY	137- 77
83	125	ECLDL125	TNL	TIME DELAY	142- 79
84	125	ECLDL125M	TNL	TIME DELAY	142- 80
85♦	125	FZH125	SIEG	NAND GATE	108-108
86♦	125	FZJ125	SIEG	JK FL-FLOP	67- 15
87	125	HTTLDL125	TNL	TIME DELAY	149- 57
88	125	MDU2-125	DDD	TIME DELAY	129- 55
89	125	MDU2F125	DDD	TIME DELAY	129- 76
90	125	STTLDL125	TNL	TIME DELAY	150- 48
91	125	STTLDL125M	TNL	TIME DELAY	150- 49
92	125	TTLDL125	TNL	TIME DELAY	150- 68
93	125	TTLDL125M	TNL	TIME DELAY	150- 69
94	130	*RF130CJ	RTN	JK FL-FLOP	73- 1
95	130	*RF130CK	RTN	JK FL-FLOP	73- 2
96♦	130	RF130DC	RTN	JK FL-FLOP	73- 3
97♦	131	FCH131	PHIN	NOR GATE	119- 41
98♦	131	FCJ131	PHIN	JK FL-FLOP	67- 47
99♦	131	FJH131-7400	PHIN	NAND GATE	96- 29
100♦	131	FJJ131-7474	PHIN	D FL-FLOP	51- 19
101♦	131	FZH131	SIEG	NAND GATE	108-109
102♦	131	FZH131	VALG	NAND GATE	108-109
103♦	131	FZJ131	SIEG	D FL-FLOP	53- 99
104♦	131	FZJ131	VALG	D FL-FLOP	53- 99
105	131	*RF131CJ	RTN	JK FL-FLOP	73- 4
106	131	*RF131CK	RTN	JK FL-FLOP	73- 5
107♦	131	RF131DC	RTN	JK FL-FLOP	73- 6
108	132	*RF132CJ	RTN	JK FL-FLOP	73- 7
109	132	*RF132CK	RTN	JK FL-FLOP	73- 8
110♦	132	RF132DC	RTN	JK FL-FLOP	73- 9
111	133	*RF133CJ	RTN	JK FL-FLOP	73- 10
112	133	*RF133CK	RTN	JK FL-FLOP	73- 11
113♦	133	RF133DC	RTN	JK FL-FLOP	73- 12
114	133	*SH133C01	SIEG	D FL-FLOP	53- 70
115♦	133	SH133C0116	SIEG	D FL-FLOP	50- 45
116♦	135	FZH135	SIEG	NAND GATE	108-110
117♦	135	FZJ135	SIEG	D FL-FLOP	53-100
118	138	PDU138-1	DDD	TIME DELAY	134- 74
119	138	PDU138-2	DDD	TIME DELAY	134- 75
120	138	PDU138-3	DDD	TIME DELAY	134- 76
121	138	PDU138-5	DDD	TIME DELAY	134- 77
122	138	PDU138-10	DDD	TIME DELAY	134- 78
123	138	PDU138-15	DDD	TIME DELAY	131- 90
124	138	PDU138-20	DDD	TIME DELAY	131- 91
125	138	PDU138-40	DDD	TIME DELAY	131- 92
126	138	PDU138-50	DDD	TIME DELAY	131- 93
127	138	PDU138.5	DDD	TIME DELAY	134- 79
128♦	140	*RG140CJ	RTN	NAND GATE	98- 44
129♦	140	*RG140CK	RTN	NAND GATE	98- 45
130♦	140	RG140DC	RTN	NAND GATE	98- 46
131▼	140	SAK140	MULB	SPECIAL	246-102
132▼	140	SAK140	PHIN	SPECIAL	246-102
133♦	141	FCH141	PHIN	NOR GATE	116- 46
134♦	141	FCJ141	PHIN	COUNTER	166- 22
135♦	141	FJH141-7440	PHIN	NAND GATE	106- 61
136♦	141	FJJ141-7490	PHIN	DEC CNTR	173- 23
137♦	141	FZH141	SIEG	NAND GATE	109- 1
138♦	141	FZH141	VALG	NAND GATE	109- 1
139♦	141	FZJ141	VALG	COUNTER	165- 66
140♦	141	FZJ141A	SIEG	COUNTER	165- 67
141♦	141	*RG141CJ	RTN	NAND GATE	98- 47
142♦	141	*RG141CK	RTN	NAND GATE	98- 48
143♦	141	RG141DC	RTN	NAND GATE	98- 49
144♦	141	SAJ141	SIEG	FREQ DIVID	193- 98
145♦	142	*RG142CJ	RTN	NAND GATE	98- 50
146♦	142	*RG142CK	RTN	NAND GATE	98- 51
147♦	142	RG142DC	RTN	NAND GATE	98- 52
148♦	143	*RG143CJ	RTN	NAND GATE	98- 53
149♦	143	*RG143CK	RTN	NAND GATE	98- 54
150♦	143	RG143DC	RTN	NAND GATE	98- 55
151♦	145	FZH145	SIEG	NAND GATE	109- 2
152♦	145	FZJ145A	SIEG	COUNTER	165- 68
153	0150	DE0150	VLR	TIME DELAY	142- 52
154	0150	*SM0150	VLR	TIME DELAY	149-104
155	150	*BTTLDL150	TNL	TIME DELAY	145- 49
156	150	*BTTLDL150M	TNL	TIME DELAY	145- 50
157	150	*CTTLDL150	TNL	TIME DELAY	145- 65
158	150	*CTTLDL150M	TNL	TIME DELAY	145- 66
159♦	150	D2ECL150	RHB	TIME DELAY	141-109
160♦	150	DDU4C150	DDD	TIME DELAY	141- 18
161	150	DDU6-150	DDD	TIME DELAY	137- 78
162	150	DDU7-150	DDD	TIME DELAY	137- 87
163♦	150	DDU7F150	DDD	TIME DELAY	146- 78
164	150	DDU7J150	DDD	TIME DELAY	146- 89
165♦	150	DECL150	RHB	TIME DELAY	142- 68
166♦	150	DTZM1-150	RHB	TIME DELAY	137-109
167	150	ECLDL150	TNL	TIME DELAY	142- 81
168	150	ECLDL150M	TNL	TIME DELAY	142- 82
169♦	150	FDM150	RHB	TIME DELAY	128- 82
170♦	150	FDM-150	RHB	TIME DELAY	128- 95
171♦	150	FECL150	RHB	TIME DELAY	128- 16
172♦	150	FSDM150	RHB	TIME DELAY	128-108
173	150	HTTLDL150	TNL	TIME DELAY	149- 58
174	150	MDU2-150	DDD	TIME DELAY	129- 56
175	150	MDU2F150	DDD	TIME DELAY	129- 77
176♦	150	MECL150	RHB	TIME DELAY	130- 15
177♦	150	MSDM150	RHB	TIME DELAY	130-101
178♦	150	*RG150CJ	RTN	MULTI-GATE	94- 87
179♦	150	*RG150CK	RTN	MULTI-GATE	94- 88
180♦	150	RG150DC	RTN	MULTI-GATE	94- 89
181♦	150	SDM150	RHB	TIME DELAY	140- 64
182	150	STTLDL150	TNL	TIME DELAY	150- 50
183	150	STTLDL150M	TNL	TIME DELAY	150- 51
184	150	TTLDL150	TNL	TIME DELAY	150- 70
185	150	TTLDL150M	TNL	TIME DELAY	150- 71
186	150	TTLPW150	TNL	SPECIAL	247- 82
187♦	150	TTLPW150M	TNL	SPECIAL	247- 83
188♦	151	FCH151	PHIN	NOR GATE	116- 47
189♦	151	FJH151-7450	PHIN	AND-OR-INV	85-102
190♦	151	FZH151	SIEG	AND-OR GTE	85- 21
191♦	151	FZH151	VALG	AND-OR GTE	85- 21
192♦	151	FZJ151	VALG	COUNTER	165- 69
193♦	151	FZJ151A	SIEG	COUNTER	165- 70
194♦	151	*RG151CJ	RTN	MULTI-GATE	94- 90
195♦	151	*RG151CK	RTN	MULTI-GATE	94- 91
196♦	151	RG151DC	RTN	MULTI-GATE	94- 92
197♦	152	*RG152CJ	RTN	AND-OR GTE	84- 99
198♦	152	*RG152CK	RTN	AND-OR GTE	84-100
199♦	152	RG152DC	RTN	AND-OR GTE	84-101
200♦	153	*RG153CJ	RTN	AND-OR GTE	84-102
201♦	153	*RG153CK	RTN	AND-OR GTE	84-103
202♦	153	RG153DC	RTN	AND-OR GTE	84-104
203♦	155	FZH155	SIEG	AND-OR GTE	85- 31
204♦	155	FZJ155A	SIEG	COUNTER	165- 71
205	155	K155AG1	USSR	CLOCK/MV	190- 25
206	155	K155ID3	USSR	DECODER	126-109
207♦	155	K155IE1	USSR	COUNTER	165- 53
208♦	155	K155IE2	USSR	COUNTER	165- 54
209♦	155	K155IE4	USSR	COUNTER	165- 55
210♦	155	K155IE6	USSR	COUNTER	165- 56
211♦	155	K155IE7	USSR	COUNTER	165- 57
212	155	K155IE8	USSR	FREQ DIVID	195- 80
213♦	155	K155IE9	USSR	COUNTER	165- 58
214	155	K155IM1	USSR	ADDER	198- 99
215	155	K155IM2	USSR	ADDER	199- 3
216	155	K155IM3	USSR	ADDER	201- 78
217♦	155	K155IP3	USSR	4-BIT ALU	220- 16
218♦	155	K155LA1	USSR	NAND GATE	110-105
219♦	155	K155LA2	USSR	NAND GATE	110-106
220♦	155	K155LA3	USSR	NAND GATE	111- 1

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

GENERIC PRODUCT INDEX

IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	155	K155LA6	USSR	NAND GATE	110-107
2♦	155	K155LA7	USSR	NAND GATE	110-108
3♦	155	K155LA8	USSR	NAND GATE	111- 2
4♦	155	K155LA11	USSR	NAND GATE	111- 3
5♦	155	K155LA12	USSR	NAND GATE	111- 4
6♦	155	K155LD1	USSR	OR GATE	123- 92
7♦	155	K155LD3	USSR	OR GATE	124-103
8♦	155	K155LE1	USSR	NOR GATE	119-106
9♦	155	K155LE2	USSR	NOR GATE	119-101
10♦	155	K155LE3	USSR	NOR GATE	119-102
11♦	155	K155LE6	USSR	NOR GATE	119-107
12♦	155	K155LI1	USSR	AND GATE	76- 36
13♦	155	K155LI5	USSR	AND GATE	81- 56
14♦	155	K155LL1	USSR	OR GATE	124-104
15♦	155	K155LN4	USSR	MULTI-GATE	95- 17
16♦	155	K155LP7	USSR	NAND GATE	104-100
17♦	155	K155LR1	USSR	MULTI-GATE	95- 3
18♦	155	K155LR3	USSR	MULTI-GATE	95- 41
19♦	155	K155LR4	USSR	MULTI-GATE	95- 35
20	155	K155TM2	USSR	D FL-FLOP	50- 51
21	155	K155TM5	USSR	D FL-FLOP	53- 97
22	155	K155TM7	USSR	D FL-FLOP	53- 98
23♦	155	K155TV1	USSR	JK FL-FLOP	66- 93
24♦	156	H156D1	SGSI	COUNTER	165- 79
25♦	156	H156D2	SGSI	COUNTER	165- 80
26♦	156	H156D6	SGSI	COUNTER	165- 81
27♦	157	H157D1	SGSI	COUNTER	165- 82
28♦	157	H157D2	SGSI	COUNTER	165- 83
29♦	157	H157D6	SGSI	COUNTER	165- 84
30♦	158	H158D1	SGSI	DECODER	126- 82
31♦	158	H158D2	SGSI	DECODER	126- 83
32♦	158	H158D6	SGSI	DECODER	126- 84
33	159	H159D1	SGSI	JK FL-FLOP	64- 78
34	160	EKLDL160	TNL	TIME DELAY	142-110
35♦	161	FCH161	PHIN	NOR GATE	116- 48
36♦	161	FJH161-7451	PHIN	AND-OR-INV	85-103
37	165	H165D1	SGSI	JK FL-FLOP	64- 79
38	166	H166D1	SGSI	JK FL-FLOP	64- 80
39♦	167	H167D1	SGSI	EX-OR GATE	91- 4
40♦	168	H168D1	SGSI	EX-OR GATE	91- 2
41♦	170	*RG170CJ	RTN	NAND GATE	105- 53
42♦	170	*RG170CK	RTN	NAND GATE	105- 54
43♦	170	RG170DC	RTN	NAND GATE	105- 55
44♦	171	FCH171	PHIN	NOR GATE	116- 49
45♦	171	FJH171-7453	PHIN	AND-OR-INV	86-104
46♦	171	FZH171	SIEG	NAND GATE	108- 40
47♦	171	FZH171	VALG	NAND GATE	108- 40
48♦	171	*RG171CJ	RTN	NAND GATE	105- 56
49♦	171	*RG171CK	RTN	NAND GATE	105- 57
50♦	171	RG171DC	RTN	NAND GATE	105- 58
51♦	172	*RG172CJ	RTN	NAND GATE	105- 59
52♦	172	*RG172CK	RTN	NAND GATE	105- 60
53♦	172	RG172DC	RTN	NAND GATE	105- 61
54♦	173	*RG173CJ	RTN	NAND GATE	105- 62
55♦	173	*RG173CK	RTN	NAND GATE	105- 63
56♦	173	RG173DC	RTN	NAND GATE	105- 64
57♦	175	DDU4C175	DDD	TIME DELAY	141- 19
58	175	DDU6-175	DDD	TIME DELAY	137- 79
59♦	175	FZH175	SIEG	NAND GATE	108- 41
60♦	175	LM175D(1)	NSC	CLOCK/MV	188- 20
61♦	175	MDU2F175	DDD	TIME DELAY	129- 78
62	176	K176ID1	USSR	DECODER	126-110
63♦	176	K176IE1	USSR	COUNTER	165- 59
64♦	176	K176IE2	USSR	COUNTER	165- 91
65♦	176	K176IE3	USSR	COUNTER	167- 72
66♦	176	K176IE4	USSR	COUNTER	167- 73
67♦	176	K176IE8	USSR	DEC CNTR	182-104
68♦	176	K176LA7	USSR	NAND GATE	111- 6
69♦	176	K176LA8	USSR	NAND GATE	110-109
70♦	176	K176LA9	USSR	NAND GATE	104- 27
71♦	176	K176LE5	USSR	NOR GATE	119-108
72♦	176	K176LE6	USSR	NOR GATE	119-105
73♦	176	K176LE10	USSR	NOR GATE	119- 42
74♦	176	K176LI1	USSR	AND GATE	83- 44
75♦	176	K176LP2	USSR	EX-OR GATE	91- 3
76♦	176	K176LP4	USSR	NOR GATE	112- 38
77♦	176	K176LP11	USSR	AND-OR-INV	87- 81
78♦	176	K176LP12	USSR	NAND GATE	110-110
79♦	176	K176LS1	USSR	AND-OR GTE	85- 30
80	176	K176TM2	USSR	D FL-FLOP	50- 52
81	176	K176TV1	USSR	JK FL-FLOP	67- 24
82♦	180	*RG180CJ	RTN	AND GATE	81- 90
83♦	180	*RG180CK	RTN	AND GATE	81- 91
84♦	180	RG180DC	RTN	AND GATE	81- 92
85♦	181	FCH181	PHIN	NOR GATE	114- 19
86♦	181	FJH181-7454	PHIN	AND-OR-INV	86-105
87♦	181	*RG181CJ	RTN	AND GATE	81- 93
88♦	181	*RG181CK	RTN	AND GATE	81- 94
89♦	181	RG181DC	RTN	AND GATE	81- 95
90♦	182	*RG182CJ	RTN	AND GATE	81- 96
91♦	182	*RG182CK	RTN	AND GATE	81- 97
92♦	182	RG182DC	RTN	AND GATE	81- 98
93♦	183	*RG183CJ	RTN	AND GATE	81- 99
94♦	183	*RG183CK	RTN	AND GATE	81-100
95♦	183	RG183DC	RTN	AND GATE	81-101
96♦	191	FCH191	PHIN	NOR GATE	114- 20
97♦	191	FCJ191	PHIN	JK FL-FLOP	67- 48
98♦	191	FJJ191-7476	PHIN	JK FL-FLOP	68- 3
99♦	191	FZH191	SIEG	NAND GATE	108- 45
100♦	191	FZH191	VALG	NAND GATE	108- 45
101♦	195	FZH195	SIEG	NAND GATE	108- 46
102	0200	DE0200	VLR	TIME DELAY	142- 53
103	0200	*SM0200	VLR	TIME DELAY	149-105
104	200	*BTTLDL200	TNL	TIME DELAY	145- 51
105	200	*BTTLDL200M	TNL	TIME DELAY	145- 52
106	200	*CTTLDL200	TNL	TIME DELAY	145- 67
107	200	*CTTLDL200M	TNL	TIME DELAY	145- 68
108♦	200	D2ECL200	RHB	TIME DELAY	141-110
109♦	200	DDU4C200	DDD	TIME DELAY	141- 20
110	200	DDU6-200	DDD	TIME DELAY	137- 80
111	200	DDU7-200	DDD	TIME DELAY	137- 88
112♦	200	DDU7F200	DDD	TIME DELAY	146- 79
113	200	DDU7J200	DDD	TIME DELAY	146- 90
114♦	200	DECL200	RHB	TIME DELAY	142- 69
115♦	200	DTZM1-200	RHB	TIME DELAY	137-110
116	200	ECLDL200	TNL	TIME DELAY	142- 83
117	200	ECLDL200M	TNL	TIME DELAY	142- 84
118	200	EKLDL200	TNL	TIME DELAY	143- 1
119♦	200	FDM200	RHB	TIME DELAY	128- 83
120♦	200	FDM-200	RHB	TIME DELAY	128- 96
121♦	200	FECL200	RHB	TIME DELAY	128- 17
122♦	200	FSDM200	RHB	TIME DELAY	128-109
123	200	HTTLDL200	TNL	TIME DELAY	149- 59
124	200	MDU2-200	DDD	TIME DELAY	129- 57
125	200	MDU2F200	DDD	TIME DELAY	129- 79
126♦	200	MECL200	RHB	TIME DELAY	130- 16
127♦	200	MSDM200	RHB	TIME DELAY	130-102
128	200	*RF200CJ	RTN	JK FL-FLOP	66- 41
129	200	*RF200CK	RTN	JK FL-FLOP	66- 42
130♦	200	RF200DC	RTN	JK FL-FLOP	66- 43
131♦	200	*RG200CJ	RTN	NAND GATE	109- 94
132♦	200	*RG200CK	RTN	NAND GATE	109- 95
133♦	200	RG200DC	RTN	NAND GATE	109- 96
134♦	200	SDM200	RHB	TIME DELAY	140- 65
135	200	STTLDL200	TNL	TIME DELAY	150- 52
136	200	STTLDL200M	TNL	TIME DELAY	150- 53
137	200	TTLDL200	TNL	TIME DELAY	150- 72
138	200	TTLDL200M	TNL	TIME DELAY	150- 73
139	200	TTLPW200	TNL	SPECIAL	247- 84
140♦	200	TTLPW200M	TNL	SPECIAL	247- 85
141♦	201	201JHT1006L	TAI	TIME DELAY	144- 63
142♦	201	201JHT1006P	TAI	TIME DELAY	144- 64
143♦	201	201JHT1506L	TAI	TIME DELAY	144- 65
144♦	201	201JHT1506P	TAI	TIME DELAY	144- 66
145♦	201	201JHT2006L	TAI	TIME DELAY	144- 67
146♦	201	201JHT2006P	TAI	TIME DELAY	144- 68
147♦	201	201JHT2007L	TAI	TIME DELAY	144- 69
148♦	201	201JHT2007P	TAI	TIME DELAY	144- 70
149♦	201	201JHT2506L	TAI	TIME DELAY	144- 71
150♦	201	201JHT2506P	TAI	TIME DELAY	144- 72
151♦	201	201JHT2507L	TAI	TIME DELAY	144- 73
152♦	201	201JHT2507P	TAI	TIME DELAY	144- 74
153♦	201	201JHT5007L	TAI	TIME DELAY	144- 75
154♦	201	201JHT5007P	TAI	TIME DELAY	144- 76
155♦	201	201RHT1006L	TAI	TIME DELAY	144- 77
156♦	201	201RHT1006P	TAI	TIME DELAY	144- 78
157♦	201	201RHT1506L	TAI	TIME DELAY	144- 79
158♦	201	201RHT1506P	TAI	TIME DELAY	144- 80
159♦	201	201RHT2006L	TAI	TIME DELAY	144- 81
160♦	201	201RHT2006P	TAI	TIME DELAY	144- 82
161♦	201	201RHT2007L	TAI	TIME DELAY	144- 83
162♦	201	201RHT2007P	TAI	TIME DELAY	144- 84
163♦	201	201RHT2506L	TAI	TIME DELAY	144- 85
164♦	201	201RHT2506P	TAI	TIME DELAY	144- 86
165♦	201	201RHT2507L	TAI	TIME DELAY	144- 87
166♦	201	201RHT2507P	TAI	TIME DELAY	144- 88
167♦	201	201RHT5007L	TAI	TIME DELAY	144- 89
168♦	201	201RHT5007P	TAI	TIME DELAY	144- 90
169♦	201	201RHT7507L	TAI	TIME DELAY	144- 91
170♦	201	201RHT7507P	TAI	TIME DELAY	144- 92
171♦	201	FCJ201	PHIN	JK FL-FLOP	66- 92
172	201	*RF201CJ	RTN	JK FL-FLOP	66- 44
173	201	*RF201CK	RTN	JK FL-FLOP	66- 45
174♦	201	RF201DC	RTN	JK FL-FLOP	66- 46
175♦	201	*RG201CJ	RTN	NAND GATE	111- 14
176♦	201	*RG201CK	RTN	NAND GATE	111- 15
177♦	201	RG201DC	RTN	NAND GATE	111- 16
178♦	202	H202B1	SGSI	NAND GATE	101- 9
179	202	*RF202CJ	RTN	JK FL-FLOP	66- 47
180	202	*RF202CK	RTN	JK FL-FLOP	66- 48
181♦	202	RF202DC	RTN	JK FL-FLOP	66- 49
182♦	202	*RG202CJ	RTN	NAND GATE	109- 97
183♦	202	*RG202CK	RTN	NAND GATE	109- 98
184♦	202	RG202DC	RTN	NAND GATE	109- 99
185♦	203	H203B1	SGSI	NAND GATE	104- 26
186	203	*RF203CJ	RTN	JK FL-FLOP	66- 50
187	203	*RF203CK	RTN	JK FL-FLOP	66- 51
188♦	203	RF203DC	RTN	JK FL-FLOP	66- 52
189♦	203	*RG203CJ	RTN	NAND GATE	109-100
190♦	203	*RG203CK	RTN	NAND GATE	109-101
191♦	203	RG203DC	RTN	NAND GATE	109-102
192♦	204	H204B1	SGSI	NAND GATE	108-100
193♦	205	H205B1	SGSI	AND-OR-INV	89- 76
194♦	209	H209B1	SGSI	AND GATE	83- 41
195♦	210	H210B1	SGSI	JK FL-FLOP	67- 22
196	210	*RF210CJ	RTN	JK FL-FLOP	66- 53
197	210	*RF210CK	RTN	JK FL-FLOP	66- 54
198♦	210	RF210DC	RTN	JK FL-FLOP	66- 55
199♦	210	*RG210CJ	RTN	AND-OR-INV	89- 44
200♦	210	*RG210CK	RTN	AND-OR-INV	89- 45
201♦	210	RG210DC	RTN	AND-OR-INV	89- 46
202♦	211	FCJ211	PHIN	JK FL-FLOP	67- 49
203♦	211	FJJ211-7493	PHIN	HEX CNTR	154-110
204♦	211	FZH211	SIEG	NAND GATE	104- 29
205♦	211	FZH211	VALG	NAND GATE	104- 29
206♦	211	H211B1(1)	SGSI	JK FL-FLOP	67- 23
207	211	*RF211CJ	RTN	JK FL-FLOP	66- 56
208	211	*RF211CK	RTN	JK FL-FLOP	66- 57
209♦	211	RF211DC	RTN	JK FL-FLOP	66- 58
210♦	211	*RG211CJ	RTN	AND-OR-INV	89- 47
211♦	211	*RG211CK	RTN	AND-OR-INV	89- 48
212♦	211	RG211DC	RTN	AND-OR-INV	89- 49
213	212	*RF212CJ	RTN	JK FL-FLOP	66- 59
214	212	*RF212CK	RTN	JK FL-FLOP	66- 60
215♦	212	RF212DC	RTN	JK FL-FLOP	66- 61
216♦	212	*RG212CJ	RTN	AND-OR-INV	89- 50
217♦	212	*RG212CK	RTN	AND-OR-INV	89- 51
218♦	212	RG212DC	RTN	AND-OR-INV	89- 52
219	213	*RF213CJ	RTN	JK FL-FLOP	66- 62
220	213	*RF213CK	RTN	JK FL-FLOP	66- 63

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LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	213	RF213DC	RTN	JK FL-FLOP	66- 64
2♦	213	*RG213CJ	RTN	AND-OR-INV	89- 53
3♦	213	*RG213CK	RTN	AND-OR-INV	89- 54
4♦	213	RG213DC	RTN	AND-OR-INV	89- 55
5♦	215	FZH215B	SIEG	NAND GATE	104- 30
6▼	216	*LMU216JC45	LDI	MULTIPLIER	206- 55
7▼	216	*LMU216JC55	LDI	MULTIPLIER	206- 56
8▼	216	*LMU216JC65	LDI	MULTIPLIER	206- 57
9▼	216	*LMU216KC45	LDI	MULTIPLIER	206- 58
10▼	216	*LMU216KC55	LDI	MULTIPLIER	206- 59
11▼	216	*LMU216KC65	LDI	MULTIPLIER	206- 60
12	216	*TMC216HC1A	TRW	MULTIPLIER	214- 13
13	216	*TMC216HC1C	TRW	MULTIPLIER	213- 81
14	216	*TMC216HC1F	TRW	MULTIPLIER	214- 14
15	216	*TMC216HC1G	TRW	MULTIPLIER	213- 82
16♦	216	TMC216HJ3A	TRW	MULTIPLIER	214- 15
17♦	216	TMC216HJ3C	TRW	MULTIPLIER	213- 83
18♦	216	TMC216HJ3F	TRW	MULTIPLIER	214- 16
19♦	216	TMC216HJ3G	TRW	MULTIPLIER	213- 84
20	216	*TMC216HL1A	TRW	MULTIPLIER	214- 17
21	216	*TMC216HL1C	TRW	MULTIPLIER	213- 85
22	216	*TMC216HL1F	TRW	MULTIPLIER	214- 18
23	216	*TMC216HL1G	TRW	MULTIPLIER	213- 86
24▼	217	*LMU217JC45	LDI	MULTIPLIER	206- 61
25▼	217	*LMU217JC55	LDI	MULTIPLIER	206- 62
26▼	217	*LMU217JC65	LDI	MULTIPLIER	206- 63
27▼	217	*LMU217KC45	LDI	MULTIPLIER	206- 64
28▼	217	*LMU217KC55	LDI	MULTIPLIER	206- 65
29▼	217	*LMU217KC65	LDI	MULTIPLIER	206- 66
30♦	220	*RG220CJ	RTN	NAND GATE	98- 7
31♦	220	*RG220CK	RTN	NAND GATE	98- 8
32♦	220	RG220DC	RTN	NAND GATE	98- 9
33♦	221	FCH221	PHIN	NOR GATE	115- 55
34♦	221	FCJ221(1)	PHIN	D FL-FLOP	54- 3
35♦	221	FJH221-7402	PHIN	NOR GATE	112- 71
36♦	221	*RG221CJ	RTN	NAND GATE	98- 10
37♦	221	*RG221CK	RTN	NAND GATE	98- 11
38♦	221	RG221DC	RTN	NAND GATE	98- 12
39	222	DDU222-4	DDD	TIME DELAY	148- 19
40	222	DDU222-6	DDD	TIME DELAY	148- 20
41	222	DDU222-8	DDD	TIME DELAY	148- 21
42	222	DDU222-10	DDD	TIME DELAY	148- 22
43	222	DDU222-12	DDD	TIME DELAY	148- 23
44	222	DDU222-16	DDD	TIME DELAY	148- 24
45	222	DDU222-20	DDD	TIME DELAY	148- 25
46	222	DDU222-30	DDD	TIME DELAY	148- 26
47	222	DDU222-35	DDD	TIME DELAY	148- 27
48	222	DDU222-40	DDD	TIME DELAY	148- 28
49	222	DDU222-45	DDD	TIME DELAY	148- 29
50	222	DDU222-50	DDD	TIME DELAY	148- 30
51	222	DDU222-60	DDD	TIME DELAY	148- 31
52	222	DDU222-75	DDD	TIME DELAY	148- 32
53	222	DDU222-100	DDD	TIME DELAY	148- 33
54	222	DDU222-125	DDD	TIME DELAY	148- 34
55	222	DDU222-150	DDD	TIME DELAY	148- 35
56	222	DDU222-175	DDD	TIME DELAY	148- 36
57	222	DDU222-200	DDD	TIME DELAY	148- 37
58	222	DDU222-250	DDD	TIME DELAY	148- 38
59	222	DDU222-300	DDD	TIME DELAY	148- 39
60	222	DDU222-350	DDD	TIME DELAY	148- 40
61	222	DDU222-400	DDD	TIME DELAY	148- 41
62	222	DDU222-450	DDD	TIME DELAY	148- 42
63	222	DDU222-500	DDD	TIME DELAY	148- 43
64	222	DDU222C4	DDD	TIME DELAY	141- 62
65	222	DDU222C6	DDD	TIME DELAY	141- 63
66	222	DDU222C8	DDD	TIME DELAY	141- 64
67	222	DDU222C10	DDD	TIME DELAY	141- 65
68	222	DDU222C12	DDD	TIME DELAY	141- 66
69	222	DDU222C16	DDD	TIME DELAY	141- 67
70	222	DDU222C20	DDD	TIME DELAY	141- 68
71	222	DDU222C30	DDD	TIME DELAY	141- 69
72	222	DDU222C35	DDD	TIME DELAY	141- 70
73	222	DDU222C40	DDD	TIME DELAY	141- 71
74	222	DDU222C45	DDD	TIME DELAY	141- 72
75	222	DDU222C50	DDD	TIME DELAY	141- 73
76	222	DDU222C60	DDD	TIME DELAY	141- 74
77	222	DDU222C75	DDD	TIME DELAY	141- 75
78	222	DDU222C100	DDD	TIME DELAY	141- 76
79	222	DDU222C125	DDD	TIME DELAY	141- 77
80	222	DDU222C150	DDD	TIME DELAY	141- 78
81	222	DDU222C175	DDD	TIME DELAY	141- 79
82	222	DDU222C200	DDD	TIME DELAY	141- 80
83	222	DDU222C250	DDD	TIME DELAY	141- 81
84	222	DDU222F4	DDD	TIME DELAY	148- 44
85	222	DDU222F6	DDD	TIME DELAY	148- 45
86	222	DDU222F8	DDD	TIME DELAY	148- 46
87	222	DDU222F10	DDD	TIME DELAY	148- 47
88	222	DDU222F12	DDD	TIME DELAY	148- 48
89	222	DDU222F16	DDD	TIME DELAY	148- 49
90	222	DDU222F20	DDD	TIME DELAY	148- 50
91	222	DDU222F25	DDD	TIME DELAY	148- 51
92	222	DDU222F30	DDD	TIME DELAY	148- 52
93	222	DDU222F35	DDD	TIME DELAY	148- 53
94	222	DDU222F40	DDD	TIME DELAY	148- 54
95	222	DDU222F45	DDD	TIME DELAY	148- 55
96	222	DDU222F50	DDD	TIME DELAY	148- 56
97	222	DDU222F60	DDD	TIME DELAY	148- 57
98	222	DDU222F75	DDD	TIME DELAY	148- 58
99	222	DDU222F100	DDD	TIME DELAY	148- 59
100	222	DDU222F125	DDD	TIME DELAY	148- 60
101	222	DDU222F150	DDD	TIME DELAY	148- 61
102	222	DDU222F175	DDD	TIME DELAY	148- 62
103	222	DDU222F200	DDD	TIME DELAY	148- 63
104	222	DDU222F250	DDD	TIME DELAY	148- 64
105♦	222	H222B1	SGSI	NAND GATE	96- 35
106♦	222	*RG222CJ	RTN	NAND GATE	98- 13
107♦	222	*RG222CK	RTN	NAND GATE	98- 14
108♦	222	RG222DC	RTN	NAND GATE	98- 15
109♦	223	*RG223CJ	RTN	NAND GATE	98- 16
110♦	223	*RG223CK	RTN	NAND GATE	98- 17
111♦	223	RG223DC	RTN	NAND GATE	98- 18
112	224	DDU224F10	DDD	TIME DELAY	148- 65
113	224	DDU224F20	DDD	TIME DELAY	148- 66
114	224	DDU224F25	DDD	TIME DELAY	148- 67
115	224	DDU224F50	DDD	TIME DELAY	148- 68
116	224	DDU224F100	DDD	TIME DELAY	148- 69
117	224	DDU224F150	DDD	TIME DELAY	148- 70
118	224	DDU224F200	DDD	TIME DELAY	148- 71
119	224	DDU224F250	DDD	TIME DELAY	148- 72
120	224	DDU224F300	DDD	TIME DELAY	148- 73
121	224	DDU224F400	DDD	TIME DELAY	148- 74
122	224	DDU224F500	DDD	TIME DELAY	148- 75
123♦	224	H224B1	SGSI	NAND GATE	104- 99
124♦	227	H227B1	SGSI	CLOCK/MV	187- 23
125♦	230	*RG230CJ	RTN	AND-OR-INV	87- 95
126♦	230	*RG230CK	RTN	AND-OR-INV	87- 96
127♦	230	RG230DC	RTN	AND-OR-INV	87- 97
128♦	231	FCH231	PHIN	NAND GATE	108- 79
129♦	231	FJH231-7401	PHIN	NAND GATE	99- 1
130♦	231	FZH231	SIEG	NAND GATE	108-105
131♦	231	FZH231	VALG	NAND GATE	108-105
132♦	231	*RG231CJ	RTN	AND-OR-INV	87- 98
133♦	231	*RG231CK	RTN	AND-OR-INV	87- 99
134♦	231	RG231DC	RTN	AND-OR-INV	87-100
135♦	232	*RG232CJ	RTN	AND-OR-INV	87-101
136♦	232	*RG232CK	RTN	AND-OR-INV	87-102
137♦	232	RG232DC	RTN	AND-OR-INV	87-103
138♦	233	*RG233CJ	RTN	AND-OR-INV	87-104
139♦	233	*RG233CK	RTN	AND-OR-INV	87-105
140♦	233	RG233DC	RTN	AND-OR-INV	87-106
141♦	235	FZH235	SIEG	NAND GATE	108-106
142♦	240	*RG240CJ	RTN	NAND GATE	105- 98
143♦	240	*RG240CK	RTN	NAND GATE	105- 99
144♦	240	RG240DC	RTN	NAND GATE	105-100
145♦	241	*RG241CJ	RTN	NAND GATE	105-101
146♦	241	*RG241CK	RTN	NAND GATE	105-102
147♦	241	RG241DC	RTN	NAND GATE	105-103
148♦	242	*RG242CJ	RTN	NAND GATE	105-104
149♦	242	*RG242CK	RTN	NAND GATE	105-105
150♦	242	RG242DC	RTN	NAND GATE	105-106
151♦	243	*RG243CJ	RTN	NAND GATE	105-107
152♦	243	*RG243CK	RTN	NAND GATE	105-108
153♦	243	RG243DC	RTN	NAND GATE	105-109
154	0250	DE0250	VLR	TIME DELAY	142- 54
155	0250	*SM0250	VLR	TIME DELAY	149-106
156♦	250	D2ECL250	RHB	TIME DELAY	142- 1
157♦	250	DDU4C250	DDD	TIME DELAY	141- 21
158	250	DDU6-250	DDD	TIME DELAY	137- 81
159	250	DDU7-250	DDD	TIME DELAY	137- 89
160♦	250	DDU7F250	DDD	TIME DELAY	146- 80
161	250	DDU7J250	DDD	TIME DELAY	146- 91
162♦	250	DECL250	RHB	TIME DELAY	142- 70
163♦	250	DTZM1-250	RHB	TIME DELAY	138- 1
164	250	ECLDL250	TNL	TIME DELAY	142- 85
165	250	ECLDL250M	TNL	TIME DELAY	142- 86
166♦	250	FDM250	RHB	TIME DELAY	128- 84
167♦	250	FDM-250	RHB	TIME DELAY	128- 97
168♦	250	FSDM250	RHB	TIME DELAY	128-110
169	250	HTTLDL250	TNL	TIME DELAY	149- 60
170	250	MDU2-250	DDD	TIME DELAY	129- 58
171	250	MDU2F250	DDD	TIME DELAY	129- 80
172	250	*RF250CJ	RTN	JK FL-FLOP	65-106
173	250	*RF250CK	RTN	JK FL-FLOP	65-107
174♦	250	RF250DC	RTN	JK FL-FLOP	65-108
175♦	250	*RG250CJ	RTN	AND-OR-INV	87- 43
176♦	250	*RG250CK	RTN	AND-OR-INV	87- 44
177♦	250	RG250DC	RTN	AND-OR-INV	87- 45
178♦	250	SAJ250A(2)	PHIN	CLOCK/MV	192- 67
179♦	250	SAJ250B(2)	PHIN	CLOCK/MV	192- 68
180♦	250	SDM250	RHB	TIME DELAY	140- 66
181	250	STTLDL250	TNL	TIME DELAY	150- 54
182	250	STTLDL250M	TNL	TIME DELAY	150- 55
183	250	TTLDL250	TNL	TIME DELAY	150- 74
184	250	TTLDL250M	TNL	TIME DELAY	150- 75
185	250	TTLPW250	TNL	SPECIAL	247- 86
186♦	250	TTLPW250M	TNL	SPECIAL	247- 87
187♦	251	FJJ251-7492	PHIN	COUNTER	167- 76
188♦	251	FZH251	SIEG	AND GATE	81- 33
189♦	251	FZH251	VALG	AND GATE	81- 33
190	251	*RF251CJ	RTN	JK FL-FLOP	65-109
191	251	*RF251CK	RTN	JK FL-FLOP	65-110
192♦	251	RF251DC	RTN	JK FL-FLOP	66- 1
193♦	251	*RG251CJ	RTN	AND-OR-INV	87- 46
194♦	251	*RG251CK	RTN	AND-OR-INV	87- 47
195♦	251	RG251DC	RTN	AND-OR-INV	87- 48
196	252	*RF252CJ	RTN	JK FL-FLOP	66- 2
197	252	*RF252CK	RTN	JK FL-FLOP	66- 3
198♦	252	RF252DC	RTN	JK FL-FLOP	66- 4
199♦	252	*RG252CJ	RTN	AND-OR-INV	87- 49
200♦	252	*RG252CK	RTN	AND-OR-INV	87- 50
201♦	252	RG252DC	RTN	AND-OR-INV	87- 51
202	253	*RF253CJ	RTN	JK FL-FLOP	66- 5
203	253	*RF253CK	RTN	JK FL-FLOP	66- 6
204♦	253	RF253DC	RTN	JK FL-FLOP	66- 7
205♦	253	*RG253CJ	RTN	AND-OR-INV	87- 52
206♦	253	*RG253CK	RTN	AND-OR-INV	87- 53
207♦	253	RG253DC	RTN	AND-OR-INV	87- 54
208♦	255	FZH255B	SIEG	AND GATE	81- 34
209♦	256	H256B1	SGSI	COUNTER	165- 85
210♦	257	H257B1	SGSI	COUNTER	165- 86
211♦	258	H258B1	SGSI	DECODER	126- 85
212	260	*RF260CJ	RTN	JK FL-FLOP	66- 8
213	260	*RF260CK	RTN	JK FL-FLOP	66- 9
214♦	260	RF260DC	RTN	JK FL-FLOP	66- 10
215♦	260	*RG260CJ	RTN	NAND GATE	109- 20
216♦	260	*RG260CK	RTN	NAND GATE	109- 21
217♦	260	RG260DC	RTN	NAND GATE	109- 22
218♦	261	FJH261-7442	PHIN	DECODER	126- 79
219♦	261	FJJ261-74107	PHIN	JK FL-FLOP	67- 81
220♦	261	FZH261	SIEG	NAND GATE	108- 47

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1♦	261	FZH261	VALG	NAND GATE	108- 47
2	261	*RF261CJ	RTN	JK FL-FLOP	66- 11
3	261	*RF261CK	RTN	JK FL-FLOP	66- 12
4♦	261	RF261DC	RTN	JK FL-FLOP	66- 13
5♦	261	*RG261CJ	RTN	NAND GATE	109- 23
6♦	261	*RG261CK	RTN	NAND GATE	109- 24
7♦	261	RG261DC	RTN	NAND GATE	109- 25
8	262	*RF262CJ	RTN	JK FL-FLOP	66- 14
9	262	*RF262CK	RTN	JK FL-FLOP	66- 15
10♦	262	RF262DC	RTN	JK FL-FLOP	66- 16
11♦	262	*RG262CJ	RTN	NAND GATE	109- 26
12♦	262	*RG262CK	RTN	NAND GATE	109- 27
13♦	262	RG262DC	RTN	NAND GATE	109- 28
14	263	*RF263CJ	RTN	JK FL-FLOP	66- 17
15	263	*RF263CK	RTN	JK FL-FLOP	66- 18
16♦	263	RF263DC	RTN	JK FL-FLOP	66- 19
17♦	263	*RG263CJ	RTN	NAND GATE	109- 29
18♦	263	*RG263CK	RTN	NAND GATE	109- 30
19♦	263	RG263DC	RTN	NAND GATE	109- 31
20♦	265	FZH265B	SIEG	NAND GATE	101- 16
21♦	270	*RG270CJ	RTN	OR GATE	123- 93
22♦	270	*RG270CK	RTN	OR GATE	123- 94
23♦	270	RG270DC	RTN	OR GATE	123- 95
24♦	271	FZH271	SIEG	EX-OR GATE	94- 52
25♦	271	FZH271	VALG	EX-OR GATE	94- 52
26♦	271	*RG271CJ	RTN	OR GATE	123- 96
27♦	271	*RG271CK	RTN	OR GATE	123- 97
28♦	271	RG271DC	RTN	OR GATE	123- 98
29♦	272	*RG272CJ	RTN	OR GATE	123- 99
30♦	272	*RG272CK	RTN	OR GATE	123-100
31♦	272	RG272DC	RTN	OR GATE	123-101
32♦	273	*RG273CJ	RTN	OR GATE	123-102
33♦	273	*RG273CK	RTN	OR GATE	123-103
34♦	273	RG273DC	RTN	OR GATE	123-104
35♦	275	FZH275	SIEG	EX-OR GATE	94- 53
36♦	275	LM275D(1)	NSC	CLOCK/MV	188- 21
37♦	280	*RG280CJ	RTN	AND GATE	82- 27
38♦	280	*RG280CK	RTN	AND GATE	82- 28
39♦	280	RG280DC	RTN	AND GATE	82- 29
40♦	281	FZH281	SIEG	NOR GATE	117- 51
41♦	281	FZH281	VALG	NOR GATE	117- 51
42♦	281	*RG281CJ	RTN	AND GATE	82- 30
43♦	281	*RG281CK	RTN	AND GATE	82- 31
44♦	281	RG281DC	RTN	AND GATE	82- 32
45♦	282	*RG282CJ	RTN	AND GATE	82- 33
46♦	282	*RG282CK	RTN	AND GATE	82- 34
47♦	282	RG282DC	RTN	AND GATE	82- 35
48♦	283	*RG283CJ	RTN	AND GATE	82- 36
49♦	283	*RG283CK	RTN	AND GATE	82- 37
50♦	283	RG283DC	RTN	AND GATE	82- 38
51♦	285	FZH285B	SIEG	NOR GATE	117- 52
52♦	290	*RG290CJ	RTN	MULTI-GATE	95- 5
53♦	290	*RG290CK	RTN	MULTI-GATE	95- 6
54♦	290	RG290DC	RTN	MULTI-GATE	95- 7
55♦	291	FJH291-7403	PHIN	NAND GATE	96- 30
56♦	291	FZH291	SIEG	OR GATE	123- 82
57♦	291	FZH291	VALG	OR GATE	123- 82
58♦	291	*RG291CJ	RTN	MULTI-GATE	95- 8
59♦	291	*RG291CK	RTN	MULTI-GATE	95- 9
60♦	291	RG291DC	RTN	MULTI-GATE	95- 10
61♦	292	*RG292CJ	RTN	MULTI-GATE	95- 11
62♦	292	*RG292CK	RTN	MULTI-GATE	95- 12
63♦	292	RG292DC	RTN	MULTI-GATE	95- 13
64♦	293	*RG293CJ	RTN	MULTI-GATE	95- 14
65♦	293	*RG293CK	RTN	MULTI-GATE	95- 15
66♦	293	RG293DC	RTN	MULTI-GATE	95- 16
67♦	295	FZH295B	SIEG	OR GATE	123- 83
68	300	DDU7-300	DDD	TIME DELAY	137- 90
69♦	300	DDU7F300	DDD	TIME DELAY	146- 81
70	300	DDU7J300	DDD	TIME DELAY	146- 92
71♦	300	DTZM1-300	RHB	TIME DELAY	138- 2
72	300	*E300D2	SGSI	T-FL-FLOP	75- 75
73	300	*E300D7	SGSI	T-FL-FLOP	75- 76
74♦	300	E300F2	SGSI	T-FL-FLOP	75- 77
75♦	300	E300F7	SGSI	T-FL-FLOP	75- 78
76	300	ECLDL300	TNL	TIME DELAY	142- 87
77	300	ECLDL300M	TNL	TIME DELAY	142- 88
78♦	300	FDM300	RHB	TIME DELAY	128- 85
79♦	300	FDM-300	RHB	TIME DELAY	128- 98
80♦	300	FSDM300	RHB	TIME DELAY	129- 1
81♦	300	RED300/360	LSC	FREQ DIVID	196- 1
82♦	300	*RG300CJ	RTN	AND-OR-INV	88-106
83♦	300	*RG300CK	RTN	AND-OR-INV	88-107
84♦	300	RG300DC	RTN	AND-OR-INV	88-108
85♦	300	SDM300	RHB	TIME DELAY	140- 67
86♦	300	SP300A	MULB	MULTI-GATE	94-108
87♦	300	SP300A	PHIN	MULTI-GATE	94-108
88	300	TTLPW300	TNL	SPECIAL	247- 88
89♦	300	TTLPW300M	TNL	SPECIAL	247- 89
90▼	301	DMT301-1	DDD	TIME DELAY	137- 93
91▼	301	DMT301-2	DDD	TIME DELAY	137- 94
92▼	301	DMT301-3	DDD	TIME DELAY	137- 95
93▼	301	DMT301-4	DDD	TIME DELAY	137- 96
94▼	301	DMT301-5	DDD	TIME DELAY	137- 97
95▼	301	DMT301-6	DDD	TIME DELAY	137- 98
96▼	301	DMT301-7	DDD	TIME DELAY	137- 99
97▼	301	DMT301-8	DDD	TIME DELAY	137-100
98▼	301	DMT301-9	DDD	TIME DELAY	137-101
99♦	301	*E301D2	SGSI	NAND GATE	108- 89
100♦	301	*E301D7	SGSI	NAND GATE	108- 90
101♦	301	E301F2	SGSI	NAND GATE	108- 91
102♦	301	E301F7	SGSI	NAND GATE	108- 92
103	301	ECLPG301	TNL	TIME DELAY	132- 3
104	301	ECLPG301M	TNL	TIME DELAY	132- 4
105♦	301	FCH301	PHIN	DECODER	126- 78
106♦	301	FJH301-7426	PHIN	NAND GATE	96- 31
107♦	301	FZH301	SIEG	NOR GATE	115- 11
108♦	301	*RG301CJ	RTN	AND-OR-INV	88-109
109♦	301	*RG301CK	RTN	AND-OR-INV	88-110
110♦	301	RG301DC	RTN	AND-OR-INV	89- 1
111♦	301	SP301A	MULB	MULTI-GATE	94- 86
112♦	301	SP301A	PHIN	MULTI-GATE	94- 86
113▼	302	DMT302-1	DDD	TIME DELAY	137-102
114▼	302	DMT302-2	DDD	TIME DELAY	137-103
115▼	302	DMT302-3	DDD	TIME DELAY	137-104
116♦	302	*E302D2	SGSI	NAND GATE	100- 89
117♦	302	*E302D7	SGSI	NAND GATE	100- 90
118♦	302	E302F2	SGSI	NAND GATE	96- 27
119♦	302	E302F7	SGSI	NAND GATE	96- 28
120	302	ECLPG302	TNL	TIME DELAY	132- 5
121	302	ECLPG302M	TNL	TIME DELAY	132- 6
122♦	302	*RG302CJ	RTN	AND-OR-INV	89- 2
123♦	302	*RG302CK	RTN	AND-OR-INV	89- 3
124♦	302	RG302DC	RTN	AND-OR-INV	89- 4
125♦	302	SP302A	MULB	AND GATE	77- 67
126♦	302	SP302A	PHIN	AND GATE	77- 67
127▼	303	DMT303-1	DDD	TIME DELAY	137-105
128♦	303	*E303D2	SGSI	NAND GATE	103-104
129♦	303	*E303D7	SGSI	NAND GATE	103-105
130♦	303	E303F2	SGSI	NAND GATE	101- 58
131♦	303	E303F7	SGSI	NAND GATE	101- 59
132	303	ECLPG303	TNL	TIME DELAY	132- 7
133	303	ECLPG303M	TNL	TIME DELAY	132- 8
134♦	303	*RG303CJ	RTN	AND-OR-INV	89- 5
135♦	303	*RG303CK	RTN	AND-OR-INV	89- 6
136♦	303	RG303DC	RTN	AND-OR-INV	89- 7
137♦	304	*E304D2	SGSI	NAND GATE	104- 92
138♦	304	*E304D7	SGSI	NAND GATE	104- 93
139♦	304	E304F2	SGSI	NAND GATE	104- 94
140♦	304	E304F7	SGSI	NAND GATE	104- 95
141	304	ECLPG304	TNL	TIME DELAY	132- 9
142	304	ECLPG304M	TNL	TIME DELAY	132- 10
143♦	304	SP304A	MULB	AND GATE	83- 37
144♦	304	SP304A	PHIN	AND GATE	83- 37
145♦	305	*E305D2	SGSI	NAND GATE	108- 93
146♦	305	*E305D7	SGSI	NAND GATE	108- 94
147♦	305	E305F2	SGSI	NAND GATE	108- 95
148♦	305	E305F7	SGSI	NAND GATE	108- 96
149	305	ECLPG305	TNL	TIME DELAY	132- 11
150	305	ECLPG305M	TNL	TIME DELAY	132- 12
151♦	305	FZH305	SIEG	NOR GATE	115- 12
152♦	305	SP305A	MULB	AND GATE	83- 42
153♦	305	SP305A	PHIN	AND GATE	83- 42
154♦	306	*E306D2	SGSI	NAND GATE	108-101
155♦	306	*E306D7	SGSI	NAND GATE	108-102
156♦	306	E306F2	SGSI	NAND GATE	108-103
157♦	306	E306F7	SGSI	NAND GATE	108-104
158	306	ECLPG306	TNL	TIME DELAY	132- 13
159	306	ECLPG306M	TNL	TIME DELAY	132- 14
160♦	306	SP306A	MULB	AND GATE	79- 21
161♦	306	SP306A	PHIN	AND GATE	79- 21
162	307	ECLPG307	TNL	TIME DELAY	132- 15
163	307	ECLPG307M	TNL	TIME DELAY	132- 16
164	308	ECLPG308	TNL	TIME DELAY	132- 17
165	308	ECLPG308M	TNL	TIME DELAY	132- 18
166	309	ECLPG309	TNL	TIME DELAY	132- 19
167	309	ECLPG309M	TNL	TIME DELAY	132- 20
168	310	ECLPG310	TNL	TIME DELAY	132- 21
169	310	ECLPG310M	TNL	TIME DELAY	132- 22
170♦	310	*RG310CJ	RTN	AND-OR-INV	86- 26
171♦	310	*RG310CK	RTN	AND-OR-INV	86- 27
172♦	310	RG310DC	RTN	AND-OR-INV	86- 28
173♦	311	FJH311-7401	PHIN	NAND GATE	99- 2
174♦	311	FJH311-7401S1	PHIN	NAND GATE	99- 3
175♦	311	*RG311CJ	RTN	AND-OR-INV	86- 29
176♦	311	*RG311CK	RTN	AND-OR-INV	86- 30
177♦	311	RG311DC	RTN	AND-OR-INV	86- 31
178♦	312	*RG312CJ	RTN	AND-OR-INV	86- 32
179♦	312	*RG312CK	RTN	AND-OR-INV	86- 33
180♦	312	RG312DC	RTN	AND-OR-INV	86- 34
181♦	313	*RG313CJ	RTN	AND-OR-INV	86- 35
182♦	313	*RG313CK	RTN	AND-OR-INV	86- 36
183♦	313	RG313DC	RTN	AND-OR-INV	86- 37
184♦	314	SP314A	MULB	NOR GATE	119- 43
185♦	314	SP314A	PHIN	NOR GATE	119- 43
186	315	ECLPG315	TNL	TIME DELAY	132- 23
187	315	ECLPG315M	TNL	TIME DELAY	132- 24
188♦	317	SP317A	MULB	NOR GATE	117-110
189♦	317	SP317A	PHIN	NOR GATE	117-110
190	320	ECLPG320	TNL	TIME DELAY	132- 25
191	320	ECLPG320M	TNL	TIME DELAY	132- 26
192♦	320	*RG320CJ	RTN	NAND GATE	102- 72
193♦	320	*RG320CK	RTN	NAND GATE	102- 73
194♦	320	RG320DC	RTN	NAND GATE	102- 74
195♦	320	XR320P	EXR	CLOCK/MV	189- 14
196♦	321	*RG321CJ	RTN	NAND GATE	102- 75
197♦	321	*RG321CK	RTN	NAND GATE	102- 76
198♦	321	RG321DC	RTN	NAND GATE	102- 77
199♦	321	SP321A	MULB	JK FL-FLOP	67- 84
200♦	321	SP321A	PHIN	JK FL-FLOP	67- 84
201♦	322	*RG322CJ	RTN	NAND GATE	102- 78
202♦	322	*RG322CK	RTN	NAND GATE	102- 79
203♦	322	RG322DC	RTN	NAND GATE	102- 80
204♦	322	SP322B	MULB	JK FL-FLOP	67- 7
205♦	322	SP322B	PHIN	JK FL-FLOP	67- 7
206♦	323	*RG323CJ	RTN	NAND GATE	102- 81
207♦	323	*RG323CK	RTN	NAND GATE	102- 82
208♦	323	RG323DC	RTN	NAND GATE	102- 83
209	325	ECLPG325	TNL	TIME DELAY	132- 27
210	325	ECLPG325M	TNL	TIME DELAY	132- 28
211♦	326	TSC326AL	TSC	NAND GATE	101- 15
212♦	328	SP328A	MULB	D FL-FLOP	50- 53
213♦	328	SP328A	PHIN	D FL-FLOP	50- 53
214	330	ECLPG330	TNL	TIME DELAY	132- 29
215	330	ECLPG330M	TNL	TIME DELAY	132- 30
216♦	333	SP333A	MULB	OR GATE	122-106
217♦	333	SP333A	PHIN	OR GATE	122-106
218♦	333	TSC333AL	TSC	MULTI-GATE	94- 93
219♦	334	SP334A	MULB	OR GATE	124- 93
220♦	334	SP334A	PHIN	OR GATE	124- 93

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

GENERIC PRODUCT INDEX

IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1	335	ECLPG335	TNL	TIME DELAY	132- 31
2	335	ECLPG335M	TNL	TIME DELAY	132- 32
3♦	337	SP337A	MULB	NAND GATE	108- 74
4♦	337	SP337A	PHIN	NAND GATE	108- 74
5	340	ECLPG340	TNL	TIME DELAY	132- 33
6	340	ECLPG340M	TNL	TIME DELAY	132- 34
7	345	ECLPG345	TNL	TIME DELAY	132- 35
8	345	ECLPG345M	TNL	TIME DELAY	132- 36
9♦	350	DTZM1-350	RHB	TIME DELAY	138- 3
10	350	ECLDL350	TNL	TIME DELAY	142- 89
11	350	ECLDL350M	TNL	TIME DELAY	142- 90
12	350	ECLPG350	TNL	TIME DELAY	132- 37
13	350	ECLPG350M	TNL	TIME DELAY	132- 38
14♦	350	FDM350	RHB	TIME DELAY	128- 86
15♦	350	FDM-350	RHB	TIME DELAY	128- 99
16♦	350	FSDM350	RHB	TIME DELAY	129- 2
17♦	350	SDM350	RHB	TIME DELAY	140- 68
18♦	352	SP352A	MULB	NAND GATE	108- 73
19♦	352	SP352A	PHIN	NAND GATE	108- 73
20♦	356	SP356A	MULB	NAND GATE	108- 58
21♦	356	SP356A	PHIN	NAND GATE	108- 58
22♦	357	SP357A	MULB	NAND GATE	100- 41
23♦	357	SP357A	PHIN	NAND GATE	100- 41
24♦	358	SP358A	MULB	NAND GATE	100- 42
25♦	358	SP358A	PHIN	NAND GATE	100- 42
26♦	360	S360B110	SIEG	COUNTER	186- 15
27♦	360	S360B110C	SIEG	COUNTER	186- 16
28♦	360	S360B114(A)	SIEG	COUNTER	186- 14
29	362	SP362A	MULB	CLOCK/MV	189- 13
30	362	SP362A	PHIN	CLOCK/MV	189- 13
31♦	370	SP370A	MULB	NOR GATE	116- 31
32♦	370	SP370A	PHIN	NOR GATE	116- 31
33♦	374	SP374A	MULB	OR GATE	123- 30
34♦	374	SP374A	PHIN	OR GATE	123- 30
35♦	375	LM375D(1)	NSC	CLOCK/MV	188- 22
36♦	375	LM375N(1)	NSC	CLOCK/MV	188- 23
37♦	375	SP375A	MULB	OR GATE	123- 31
38♦	375	SP375A	PHIN	OR GATE	123- 31
39♦	377	SP377A	MULB	NAND GATE	103- 55
40♦	377	SP377A	PHIN	NAND GATE	103- 55
41♦	380	SP380A	MULB	NOR GATE	113- 93
42♦	380	SP380A	PHIN	NOR GATE	113- 93
43♦	381	ESM381	THEF	SPECIAL	246- 89
44	381	L4C381GC	LDI	16-BIT ALU	223- 2
45	381	L4C381GM	LDI	16-BIT ALU	223- 3
46	381	*L4C381JC	LDI	16-BIT ALU	223- 4
47	381	*L4C381JM	LDI	16-BIT ALU	223- 5
48	381	*L4C381KC	LDI	16-BIT ALU	223- 6
49	381	*L4C381KM	LDI	16-BIT ALU	223- 7
50	381	*L4C381LC	LDI	16-BIT ALU	223- 8
51	381	*L4C381LM	LDI	16-BIT ALU	223- 9
52♦	381	SP381A	MULB	NOR GATE	114- 72
53♦	381	SP381A	PHIN	NOR GATE	114- 72
54♦	382	ESM382	THEF	SPECIAL	246- 90
55♦	383	ESM383	THEF	AND GATE	79- 7
56♦	384	SP384A	MULB	OR GATE	121- 97
57♦	384	SP384A	PHIN	OR GATE	121- 97
58♦	387	SP387A	MULB	NAND GATE	100- 18
59♦	387	SP387A	PHIN	NAND GATE	100- 18
60	400	DDU7-400	DDD	TIME DELAY	137- 91
61♦	400	DDU7F400	DDD	TIME DELAY	146- 82
62	400	DDU7J400	DDD	TIME DELAY	146- 93
63♦	400	DTZM1-400	RHB	TIME DELAY	138- 4
64	400	ECLDL400	TNL	TIME DELAY	142- 91
65	400	ECLDL400M	TNL	TIME DELAY	142- 92
66♦	400	FDM400	RHB	TIME DELAY	128- 87
67♦	400	FDM-400	RHB	TIME DELAY	128-100
68♦	400	FSDM400	RHB	TIME DELAY	129- 3
69♦	400	MB400	FCAJ	NAND GATE	96- 53
70♦	400	MB400M	FCAJ	NAND GATE	96- 54
71♦	400	SDM400	RHB	TIME DELAY	140- 69
72♦	400	SFC400E	THEF	NAND GATE	97- 35
73♦	400	SFC400EM	THEF	NAND GATE	97- 36
74♦	400	SFC400ET	THEF	NAND GATE	97- 37
75♦	400	SFC400HE	THEF	NAND GATE	97- 38
76♦	400	SFC400HEM	THEF	NAND GATE	97- 39
77♦	400	SFC400HJM	THEF	NAND GATE	97- 40
78♦	400	SFC400HKM	THEF	NAND GATE	97- 41
79♦	400	*SFC400HPM	THEF	NAND GATE	98- 57
80♦	400	SFC400JM	THEF	NAND GATE	97- 42
81♦	400	SFC400KM	THEF	NAND GATE	97- 43
82♦	400	SFC400LE	THEF	NAND GATE	97- 44
83♦	400	SFC400LEM	THEF	NAND GATE	97- 45
84♦	400	SFC400LJM	THEF	NAND GATE	97- 46
85♦	400	SFC400LKM	THEF	NAND GATE	97- 47
86♦	400	*SFC400LPM	THEF	NAND GATE	100- 57
87♦	400	SFC400LSE	THEF	NAND GATE	97- 48
88♦	400	SFC400LSEM	THEF	NAND GATE	97- 49
89♦	400	*SFC400PM	THEF	NAND GATE	99- 6
90♦	400	SFC400SE	THEF	NAND GATE	97- 50
91♦	400	SFC400SJM	THEF	NAND GATE	97- 51
92♦	400	SFC400SKM	THEF	NAND GATE	97- 52
93	400	TTLPW400	TNL	SPECIAL	247- 90
94♦	400	TTLPW400M	TNL	SPECIAL	247- 91
95♦	401	MB401	FCAJ	NAND GATE	96- 55
96♦	401	MB401M	FCAJ	NAND GATE	96- 56
97▼	401	RCS401	THD	CLOCK/MV	192- 52
98♦	401	SFC401AE	THEF	NAND GATE	97- 53
99♦	401	SFC401E	THEF	NAND GATE	99- 7
100♦	401	SFC401EM	THEF	NAND GATE	99- 8
101♦	401	SFC401ET	THEF	NAND GATE	99- 9
102♦	401	SFC401HE	THEF	NAND GATE	97- 54
103♦	401	SFC401HEM	THEF	NAND GATE	97- 55
104♦	401	SFC401HJM	THEF	NAND GATE	97- 56
105♦	401	SFC401HKM	THEF	NAND GATE	97- 57
106♦	401	*SFC401HPM	THEF	NAND GATE	98- 77
107♦	401	SFC401JM	THEF	NAND GATE	99- 10
108♦	401	SFC401KM	THEF	NAND GATE	99- 11
109♦	401	SFC401LSE	THEF	NAND GATE	99- 67
110♦	401	SFC401LSEM	THEF	NAND GATE	99- 68
111♦	401	*SFC401PM	THEF	NAND GATE	99- 12
112♦	402	MB402	FCAJ	NAND GATE	104-109
113♦	402	MB402M	FCAJ	NAND GATE	104-110
114♦	402	SFC402E	THEF	NOR GATE	112-106
115♦	402	SFC402EM	THEF	NOR GATE	112-107
116♦	402	SFC402ET	THEF	NOR GATE	112-108
117♦	402	SFC402EV	THEF	NOR GATE	112-109
118♦	402	*SFC402P	THEF	NOR GATE	113-102
119♦	402	*SFC402PM	THEF	NOR GATE	113-103
120♦	403	MB403	FCAJ	NAND GATE	109- 49
121♦	403	MB403M	FCAJ	NAND GATE	109- 50
122♦	403	SFC403E	THEF	NAND GATE	97- 58
123♦	403	SFC403EM	THEF	NAND GATE	97- 59
124♦	403	SFC403ET	THEF	NAND GATE	97- 60
125♦	403	SFC403EV	THEF	NAND GATE	97- 61
126♦	403	SFC403LE	THEF	NAND GATE	97- 62
127♦	403	SFC403LEM	THEF	NAND GATE	97- 63
128♦	404	MB404	FCAJ	NAND GATE	106- 39
129♦	404	MB404M	FCAJ	NAND GATE	106- 40
130♦	405	MB405	FCAJ	AND-OR-INV	85-105
131♦	405	MB405M	FCAJ	AND-OR-INV	85-106
132♦	406	MB406	FCAJ	AND GATE	81- 62
133♦	406	MB406M	FCAJ	AND GATE	81- 63
134♦	407	MB407	FCAJ	JK FL-FLOP	65- 35
135♦	407	MB407M	FCAJ	JK FL-FLOP	65- 36
136♦	408	MB408	FCAJ	ADDER	198- 46
137♦	408	MB408M	FCAJ	ADDER	198- 47
138♦	408	SFC408E	THEF	AND GATE	76- 95
139♦	408	SFC408EM	THEF	AND GATE	76- 96
140♦	408	SFC408ET	THEF	AND GATE	76- 97
141♦	408	SFC408EV	THEF	AND GATE	76- 98
142♦	408	*SFC408P	THEF	AND GATE	77-102
143♦	408	*SFC408PM	THEF	AND GATE	77-103
144♦	409	SFC409E	THEF	AND GATE	78- 17
145♦	409	SFC409EM	THEF	AND GATE	78- 18
146♦	409	SFC409ET	THEF	AND GATE	78- 19
147♦	409	SFC409EV	THEF	AND GATE	78- 20
148♦	409	*SFC409P	THEF	AND GATE	78- 21
149♦	409	*SFC409PM	THEF	AND GATE	78- 22
150♦	410	MB410	FCAJ	JK FL-FLOP	68- 54
151♦	410	MB410M	FCAJ	JK FL-FLOP	68- 55
152♦	410	SFC410E	THEF	NAND GATE	102- 10
153♦	410	SFC410EM	THEF	NAND GATE	102- 11
154♦	410	SFC410ET	THEF	NAND GATE	102- 12
155♦	410	SFC410HE	THEF	NAND GATE	102- 13
156♦	410	SFC410HEM	THEF	NAND GATE	102- 14
157♦	410	*SFC410HP	THEF	NAND GATE	102- 85
158♦	410	*SFC410HPM	THEF	NAND GATE	102- 86
159♦	410	SFC410LE	THEF	NAND GATE	102- 15
160♦	410	SFC410LEM	THEF	NAND GATE	102- 16
161♦	410	SFC410LPM	THEF	NAND GATE	102- 17
162♦	410	SFC410PM	THEF	NAND GATE	102- 95
163♦	411	MB411	FCAJ	AND-OR-INV	87- 7
164♦	411	MB411M	FCAJ	AND-OR-INV	87- 8
165♦	411	SFC411HE	THEF	AND GATE	80- 6
166♦	411	SFC411HEM	THEF	AND GATE	80- 7
167♦	411	*SFC411HP	THEF	AND GATE	80- 53
168♦	411	*SFC411HPM	THEF	AND GATE	80- 54
169♦	416	MB416	FCAJ	NAND GATE	96- 57
170♦	416	MB416M	FCAJ	NAND GATE	96- 58
171♦	417	MB417	FCAJ	NOR GATE	112- 81
172♦	417	MB417M	FCAJ	NOR GATE	112- 82
173♦	420	MB420	FCAJ	D FL-FLOP	51- 63
174♦	420	MB420M	FCAJ	D FL-FLOP	51- 64
175♦	420	SFC420E	THEF	NAND GATE	106- 75
176♦	420	SFC420EM	THEF	NAND GATE	107- 13
177♦	420	SFC420ET	THEF	NAND GATE	107- 14
178♦	420	SFC420HE	THEF	NAND GATE	106- 3
179♦	420	SFC420HEM	THEF	NAND GATE	106- 57
180♦	420	SFC420HPM	THEF	NAND GATE	106- 4
181♦	420	SFC420LE	THEF	NAND GATE	107- 86
182♦	420	SFC420LEM	THEF	NAND GATE	107- 87
183♦	420	SFC420PM	THEF	NAND GATE	106- 76
184♦	421	SFC421HE	THEF	AND GATE	82- 49
185♦	421	SFC421HEM	THEF	AND GATE	82- 50
186♦	426	SFC426E	THEF	NAND GATE	99- 19
187♦	426	SFC426EM	THEF	NAND GATE	99- 20
188♦	426	SFC426ET	THEF	NAND GATE	99- 21
189♦	429	L429C01D	LDI	16-BIT ALU	223- 10
190♦	429	L429C01G	LDI	16-BIT ALU	223- 11
191	429	*L429C01J	LDI	16-BIT ALU	223- 12
192	429	*L429C01K	LDI	16-BIT ALU	223- 13
193♦	429	L429C01P	LDI	16-BIT ALU	223- 14
194♦	430	MB430	FCAJ	1-BIT LCH	229- 10
195♦	430	MB430M	FCAJ	1-BIT LCH	229- 11
196♦	430	SFC430E	THEF	NAND GATE	109- 88
197♦	430	SFC430EM	THEF	NAND GATE	110- 32
198♦	430	SFC430ET	THEF	NAND GATE	110- 33
199♦	430	SFC430HE	THEF	NAND GATE	109- 14
200♦	430	SFC430HEM	THEF	NAND GATE	109- 56
201♦	430	SFC430HPM	THEF	NAND GATE	109- 15
202♦	430	SFC430LE	THEF	NAND GATE	110- 56
203♦	430	SFC430LEM	THEF	NAND GATE	110- 57
204♦	430	SFC430PM	THEF	NAND GATE	109- 89
205♦	431	MB431	FCAJ	NAND GATE	96- 59
206♦	431	MB431M	FCAJ	NAND GATE	96- 60
207♦	433	MB433	FCAJ	NAND GATE	96- 61
208♦	433	MB433M	FCAJ	NAND GATE	96- 62
209♦	435	MB435	FCAJ	NAND GATE	96- 63
210♦	435	MB435M	FCAJ	NAND GATE	96- 64
211♦	440	MB440	FCAJ	CLOCK/MV	190- 53
212♦	440	MB440M	FCAJ	CLOCK/MV	190- 54
213♦	442	MB442	FCAJ	DECODER	127- 16
214♦	442	MB442M	FCAJ	DECODER	127- 17
215♦	442	SFC442E	THEF	DECODER	127- 71
216♦	442	SFC442EM	THEF	DECODER	127- 72
217♦	442	SFC442ET	THEF	DECODER	127- 73
218♦	447	MB447	FCAJ	PARITY GEN	226- 20
219♦	447	MB447M	FCAJ	PARITY GEN	226- 21
220♦	448	MB448	FCAJ	MAGN COMP	216- 48

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IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	448	MB448M	FCAJ	MAGN COMP	216- 49
2♦	449	MB449	FCAJ	EX-OR GATE	92- 25
3♦	449	MB449M	FCAJ	EX-OR GATE	92- 26
4♦	450	DTZM1-450	RHB	TIME DELAY	138- 5
5	450	ECLDL450	TNL	TIME DELAY	142- 93
6	450	ECLDL450M	TNL	TIME DELAY	142- 94
7♦	450	FDM450	RHB	TIME DELAY	128- 88
8♦	450	FDM-450	RHB	TIME DELAY	128-101
9♦	450	FSDM450	RHB	TIME DELAY	129- 4
10♦	450	MB450	FCAJ	DEC CNTR	174- 83
11♦	450	MB450M	FCAJ	DEC CNTR	174- 84
12♦	450	SDM450	RHB	TIME DELAY	140- 70
13♦	450	SFC450E	THEF	AND-OR-INV	86- 51
14♦	450	SFC450EM	THEF	AND-OR-INV	86- 52
15♦	450	SFC450ET	THEF	AND-OR-INV	86- 53
16♦	450	SFC450HE	THEF	AND-OR-INV	86- 54
17♦	450	SFC450HPM	THEF	AND-OR-INV	86- 55
18♦	450	SFC450PM	THEF	AND-OR-INV	86- 56
19♦	451	MB451	FCAJ	DEC CNTR	174- 85
20♦	451	MB451M	FCAJ	DEC CNTR	174- 86
21♦	451	SFC451E	THEF	AND-OR-INV	86- 57
22♦	451	SFC451EM	THEF	AND-OR-INV	86- 58
23♦	451	SFC451ET	THEF	AND-OR-INV	86- 59
24♦	451	SFC451HE	THEF	AND-OR-INV	86- 60
25♦	451	SFC451HEM	THEF	AND-OR-INV	86- 61
26♦	451	*SFC451HPM	THEF	AND-OR-INV	86- 62
27♦	451	SFC451LE	THEF	AND-OR-INV	86- 63
28♦	451	SFC451LEM	THEF	AND-OR-INV	86- 64
29♦	451	SFC451PM	THEF	AND-OR-INV	86- 65
30♦	453	SFC453E	THEF	AND-OR-INV	87- 18
31♦	453	SFC453EM	THEF	AND-OR-INV	87- 19
32♦	453	SFC453ET	THEF	AND-OR-INV	87- 20
33♦	453	SFC453HE	THEF	AND-OR-INV	87- 21
34♦	453	SFC453HPM	THEF	AND-OR-INV	87- 61
35♦	453	SFC453PM	THEF	AND-OR-INV	87- 62
36♦	454	SFC454E	THEF	AND-OR-INV	87- 22
37♦	454	SFC454EM	THEF	AND-OR-INV	87- 23
38♦	454	SFC454ET	THEF	AND-OR-INV	87- 24
39♦	454	SFC454HE	THEF	AND-OR-INV	87- 63
40♦	454	SFC454HEM	THEF	AND-OR-INV	87- 64
41♦	454	*SFC454HPM	THEF	AND-OR-INV	87- 65
42♦	454	SFC454LE	THEF	AND-OR-INV	89- 77
43♦	454	SFC454LEM	THEF	AND-OR-INV	89- 78
44♦	454	SFC454PM	THEF	AND-OR-INV	87- 66
45♦	456	MB456	FCAJ	DEC CNTR	179- 67
46♦	456	MB456M	FCAJ	DEC CNTR	179- 68
47♦	457	MB457	FCAJ	DEC CNTR	179- 69
48♦	457	MB457M	FCAJ	DEC CNTR	179- 70
49♦	458	MB458	FCAJ	4-BIT ALU	220- 20
50♦	458	MB458M	FCAJ	4-BIT ALU	220- 21
51♦	459	MB459	FCAJ	PARITY GEN	224- 13
52♦	459	MB459M	FCAJ	PARITY GEN	224- 14
53♦	460	SFC460E	THEF	AND GATE	81- 82
54♦	460	SFC460EM	THEF	AND GATE	81- 83
55♦	460	SFC460ET	THEF	AND GATE	81- 84
56♦	460	SFC460PM	THEF	AND GATE	81- 85
57♦	471	SL471(A)	PLSB	DECODER	125- 61
58♦	472	SFC472E	THEF	JK FL-FLOP	65- 15
59♦	472	SFC472EM	THEF	JK FL-FLOP	65- 65
60♦	472	SFC472ET	THEF	JK FL-FLOP	65- 66
61♦	472	SFC472HE	THEF	JK FL-FLOP	65- 67
62♦	472	SFC472HPM	THEF	JK FL-FLOP	65- 68
63♦	472	SFC472LE	THEF	JK FL-FLOP	64- 90
64♦	472	SFC472LEM	THEF	JK FL-FLOP	64- 91
65♦	472	SFC472PM	THEF	JK FL-FLOP	65- 69
66♦	473	SFC473E	THEF	JK FL-FLOP	68- 22
67♦	473	SFC473EM	THEF	JK FL-FLOP	68- 72
68♦	473	SFC473ET	THEF	JK FL-FLOP	68- 73
69♦	473	SFC473LE	THEF	JK FL-FLOP	67- 33
70♦	473	SFC473LEM	THEF	JK FL-FLOP	67- 34
71	473	SFC473PM	THEF	JK FL-FLOP	67- 6
72♦	474	SFC474E	THEF	D FL-FLOP	51- 81
73♦	474	SFC474EM	THEF	D FL-FLOP	51- 82
74♦	474	SFC474ET	THEF	D FL-FLOP	51- 83
75♦	474	SFC474HE	THEF	D FL-FLOP	52- 32
76♦	474	SFC474HEM	THEF	D FL-FLOP	52- 33
77♦	474	*SFC474HPM	THEF	D FL-FLOP	52- 34
78♦	474	SFC474LE	THEF	D FL-FLOP	50- 58
79♦	474	SFC474LEM	THEF	D FL-FLOP	50- 59
80♦	474	*SFC474PM	THEF	D FL-FLOP	51- 84
81♦	475	SFC475E	THEF	2-BIT LCH	229- 93
82♦	475	SFC475EM	THEF	2-BIT LCH	229- 94
83♦	475	SFC475ET	THEF	2-BIT LCH	229- 95
84♦	475	SFC475JM	THEF	2-BIT LCH	229- 96
85♦	475	SFC475KM	THEF	2-BIT LCH	229- 97
86♦	476	SFC476E	THEF	JK FL-FLOP	68- 74
87♦	476	SFC476EM	THEF	JK FL-FLOP	68- 75
88♦	476	SFC476ET	THEF	JK FL-FLOP	68- 76
89♦	480	MM480	NSC	NOR GATE	115- 56
90♦	481	MM481	NSC	EX-OR GATE	91- 6
91♦	483	MM483	NSC	JK FL-FLOP	64- 87
92♦	483	SFC483ALSE	THEF	ADDER	200- 90
93♦	483	SFC483ALSEM	THEF	ADDER	200- 91
94♦	483	SFC483E	THEF	ADDER	200- 92
95♦	483	SFC483EM	THEF	ADDER	200- 93
96♦	483	SFC483ET	THEF	ADDER	200- 94
97♦	483	SFC483JM	THEF	ADDER	200- 95
98♦	483	SFC483KM	THEF	ADDER	200- 96
99♦	485	SFC485E	THEF	MAGN COMP	216- 87
100♦	485	SFC485EM	THEF	MAGN COMP	216- 88
101♦	485	SFC485ET	THEF	MAGN COMP	216- 89
102♦	485	SFC485JM	THEF	MAGN COMP	216- 90
103♦	485	SFC485KM	THEF	MAGN COMP	216- 91
104♦	486	SFC486E	THEF	EX-OR GATE	93- 48
105♦	486	SFC486EM	THEF	EX-OR GATE	93- 49
106♦	486	SFC486ET	THEF	EX-OR GATE	93- 50
107♦	486	*SFC486PM	THEF	EX-OR GATE	93- 51
108♦	490	SFC490E	THEF	DEC CNTR	173- 95
109♦	490	SFC490EM	THEF	DEC CNTR	173- 96
110♦	490	SFC490ET	THEF	DEC CNTR	173- 97
111♦	490	*SFC490PM	THEF	DEC CNTR	173- 98
112♦	492	SFC492E	THEF	COUNTER	167- 83
113♦	492	SFC492EM	THEF	COUNTER	167- 84
114♦	492	SFC492ET	THEF	COUNTER	167- 85
115♦	492	*SFC492PM	THEF	COUNTER	167- 86
116♦	493	SFC493E	THEF	HEX CNTR	155- 90
117♦	493	SFC493EM	THEF	HEX CNTR	155- 91
118♦	493	SFC493ET	THEF	HEX CNTR	155- 92
119♦	493	SFC493LE	THEF	HEX CNTR	154- 46
120♦	493	SFC493LEM	THEF	HEX CNTR	154- 47
121♦	493	*SFC493PM	THEF	HEX CNTR	155- 93
122	0500	DE0500	VLR	TIME DELAY	142- 55
123	500	DDU7-500	DDD	TIME DELAY	137- 92
124♦	500	DDU7F500	DDD	TIME DELAY	146- 83
125	500	DDU7J500	DDD	TIME DELAY	146- 94
126♦	500	DTZM1-500	RHB	TIME DELAY	138- 6
127	500	ECLDL500	TNL	TIME DELAY	142- 95
128	500	ECLDL500M	TNL	TIME DELAY	142- 96
129♦	500	FDM500	RHB	TIME DELAY	128- 89
130♦	500	FDM-500	RHB	TIME DELAY	128-102
131♦	500	FSDM500	RHB	TIME DELAY	129- 5
132	500	HTTLDL500	TNL	TIME DELAY	149- 61
133♦	500	MSM500	OKIJ	NAND GATE	101- 10
134♦	500	RED500/600	LSC	FREQ DIVID	196- 2
135♦	500	SDM500	RHB	TIME DELAY	140- 71
136	500	STTLDL500	TNL	TIME DELAY	150- 56
137	500	STTLDL500M	TNL	TIME DELAY	150- 57
138	500	TTLDL500	TNL	TIME DELAY	150- 76
139	500	TTLDL500M	TNL	TIME DELAY	150- 77
140♦	500	TTLPW500	TNL	SPECIAL	247- 92
141♦	500	TTLPW500M	TNL	SPECIAL	247- 93
142♦	501	MSM501RS	OKIJ	NAND GATE	101- 2
143♦	502	MSM502	OKIJ	NAND GATE	108- 43
144♦	503	*GP503J/1RZ	RCA	MULTIPLIER	203- 69
145♦	503	MSM503RS	OKIJ	NAND GATE	108- 28
146♦	504	MSM504RS	OKIJ	NAND GATE	110- 95
147♦	505	MSM505	OKIJ	NOR GATE	115- 9
148♦	505	MSM505RS	OKIJ	NOR GATE	115- 7
149♦	506	MSM506	OKIJ	NOR GATE	119- 8
150♦	506	MSM506RS	OKIJ	NOR GATE	119- 4
151♦	507	MSM507	OKIJ	NOR GATE	119- 94
152♦	507	MSM507RS	OKIJ	NOR GATE	119- 90
153▼	510	CY7C510-45DC(A)	CYP	MULTIPLIER	207- 51
154▼	510	*CY7C510-45JC(A)	CYP	MULTIPLIER	207- 52
155▼	510	*CY7C510-45LC	CYP	MULTIPLIER	207- 53
156▼	510	CY7C510-45PC(A)	CYP	MULTIPLIER	207- 54
157▼	510	CY7C510-55DC(A)	CYP	MULTIPLIER	208- 41
158▼	510	CY7C510-55DMB(A)	CYP	MULTIPLIER	208- 42
159▼	510	*CY7C510-55JC(A)	CYP	MULTIPLIER	208- 43
160▼	510	*CY7C510-55LC(A)	CYP	MULTIPLIER	208- 44
161▼	510	*CY7C510-55LMB	CYP	MULTIPLIER	208- 45
162▼	510	CY7C510-55PC(A)	CYP	MULTIPLIER	208- 46
163▼	510	CY7C510-65DC(A)	CYP	MULTIPLIER	209- 40
164▼	510	CY7C510-65DMB(A)	CYP	MULTIPLIER	209- 41
165▼	510	*CY7C510-65JC(A)	CYP	MULTIPLIER	209- 42
166▼	510	*CY7C510-65LC(A)	CYP	MULTIPLIER	209- 43
167▼	510	*CY7C510-65LMB(A)	CYP	MULTIPLIER	209- 44
168▼	510	CY7C510-65PC(A)	CYP	MULTIPLIER	209- 45
169▼	510	CY7C510-75DC(A)	CYP	MULTIPLIER	210- 57
170▼	510	CY7C510-75DMB(A)	CYP	MULTIPLIER	210- 58
171▼	510	*CY7C510-75JC(A)	CYP	MULTIPLIER	210- 59
172▼	510	*CY7C510-75LC(A)	CYP	MULTIPLIER	210- 60
173▼	510	*CY7C510-75LMB(A)	CYP	MULTIPLIER	210- 61
174▼	510	CY7C510-75PC(A)	CYP	MULTIPLIER	210- 62
175♦	510	MSM510	OKIJ	AND-OR GTE	85- 23
176♦	510	MSM510RS	OKIJ	AND-OR GTE	84- 65
177♦	512	MSM512	OKIJ	AND-OR GTE	85- 28
178♦	512	MSM512RS	OKIJ	AND-OR GTE	84- 62
179♦	514	MSM514	OKIJ	AND-OR GTE	85- 29
180♦	514	MSM514RS	OKIJ	AND-OR GTE	84- 63
181▼	516	CY7C516-45DC(A)	CYP	MULTIPLIER	207- 55
182▼	516	*CY7C516-45JC(A)	CYP	MULTIPLIER	207- 56
183▼	516	*CY7C516-45LC(A)	CYP	MULTIPLIER	207- 57
184▼	516	CY7C516-45PC(A)	CYP	MULTIPLIER	207- 58
185▼	516	CY7C516-55DC(A)	CYP	MULTIPLIER	208- 47
186▼	516	*CY7C516-55JC(A)	CYP	MULTIPLIER	208- 48
187▼	516	*CY7C516-55LC(A)	CYP	MULTIPLIER	208- 49
188▼	516	*CY7C516-55LMB(A)	CYP	MULTIPLIER	208- 50
189▼	516	CY7C516-55PC(A)	CYP	MULTIPLIER	208- 51
190▼	516	CY7C516-65DC(A)	CYP	MULTIPLIER	209- 46
191▼	516	CY7C516-65DMB(A)	CYP	MULTIPLIER	209- 47
192▼	516	*CY7C516-65JC(A)	CYP	MULTIPLIER	209- 48
193▼	516	*CY7C516-65LC(A)	CYP	MULTIPLIER	209- 49
194▼	516	*CY7C516-65LMB(A)	CYP	MULTIPLIER	209- 50
195▼	516	CY7C516-65PC(A)	CYP	MULTIPLIER	209- 51
196▼	516	CY7C516-75DC(A)	CYP	MULTIPLIER	210- 63
197▼	516	CY7C516-75DMB(A)	CYP	MULTIPLIER	210- 64
198▼	516	*CY7C516-75JC(A)	CYP	MULTIPLIER	210- 65
199▼	516	*CY7C516-75LC(A)	CYP	MULTIPLIER	210- 66
200▼	516	*CY7C516-75LMB(A)	CYP	MULTIPLIER	210- 67
201▼	516	CY7C516-75PC(A)	CYP	MULTIPLIER	210- 68
202▼	517	CY7C517-45DC(A)	CYP	MULTIPLIER	207- 59
203▼	517	*CY7C517-45JC(A)	CYP	MULTIPLIER	207- 60
204▼	517	*CY7C517-45LC(A)	CYP	MULTIPLIER	207- 61
205▼	517	CY7C517-45PC(A)	CYP	MULTIPLIER	207- 62
206▼	517	CY7C517-55DC(A)	CYP	MULTIPLIER	208- 52
207▼	517	CY7C517-55DMB(A)	CYP	MULTIPLIER	208- 53
208▼	517	*CY7C517-55JC(A)	CYP	MULTIPLIER	208- 54
209▼	517	*CY7C517-55LC(A)	CYP	MULTIPLIER	208- 55
210▼	517	*CY7C517-55LMB(A)	CYP	MULTIPLIER	208- 56
211▼	517	CY7C517-55PC(A)	CYP	MULTIPLIER	208- 57
212▼	517	CY7C517-65DC(A)	CYP	MULTIPLIER	209- 52
213▼	517	CY7C517-65DMB(A)	CYP	MULTIPLIER	209- 53
214▼	517	*CY7C517-65JC(A)	CYP	MULTIPLIER	209- 54
215▼	517	*CY7C517-65LC(A)	CYP	MULTIPLIER	209- 55
216▼	517	*CY7C517-65LMB(A)	CYP	MULTIPLIER	209- 56
217▼	517	CY7C517-65PC(A)	CYP	MULTIPLIER	209- 57
218▼	517	CY7C517-75DC(A)	CYP	MULTIPLIER	210- 69
219▼	517	*CY7C517-75JC(A)	CYP	MULTIPLIER	210- 70
220▼	517	*CY7C517-75LC(A)	CYP	MULTIPLIER	210- 71

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1▼	517	*CY7C517-75LMB(A)	CYP	MULTIPLIER	210- 72
2▼	517	CY7C517-75PC(A)	CYP	MULTIPLIER	210- 73
3♦	0529	SAB0529	SIEG	TIME DELAY	131- 88
4♦	0529	SAB0529	SIT	TIME DELAY	131- 88
5▼	0529	*SAB0529G	SIEG	TIME DELAY	131- 89
6▼	0529	*SAB0529G	SIT	TIME DELAY	131- 89
7♦	530	MSM530	OKIJ	D FL-FLOP	50- 57
8♦	530	MSM530RS	OKIJ	D FL-FLOP	50- 62
9♦	531	MSM531	OKIJ	JK FL-FLOP	67- 25
10♦	531	MSM531RS	OKIJ	JK FL-FLOP	67- 44
11♦	551	MSM551	OKIJ	COUNTER	165- 92
12♦	551	MSM551RS	OKIJ	COUNTER	165- 93
13♦	552	MSM552RS(2)	OKIJ	COUNTER	165- 94
14♦	557	LMU557DC	LDI	MULTIPLIER	203- 39
15♦	557	LMU557DM	LDI	MULTIPLIER	203- 40
16♦	557	LMU557PC	LDI	MULTIPLIER	203- 41
17♦	557	LMU557PM	LDI	MULTIPLIER	203- 42
18♦	558	LMU558DC	LDI	MULTIPLIER	203- 43
19♦	558	LMU558DM	LDI	MULTIPLIER	203- 44
20♦	558	LMU558PC	LDI	MULTIPLIER	203- 45
21♦	558	LMU558PM	LDI	MULTIPLIER	203- 46
22♦	564	MSM564RS(2)	OKIJ	DECODER	127- 37
23♦	580	MM580	NSC	NOR GATE	115- 57
24♦	580	MSM580RS	OKIJ	ADDER	199- 2
25♦	581	MM581	NSC	EX-OR GATE	91- 7
26♦	581	MSM581	OKIJ	EX-OR GATE	92- 54
27♦	581	MSM581RS	OKIJ	EX-OR GATE	92- 55
28♦	582	MSM582RS	OKIJ	MAGN COMP	217- 94
29♦	583	MM583	NSC	JK FL-FLOP	64- 88
30♦	600	PXO600	STK	CLOCK/MV	192- 71
31♦	601	MB601	FCAJ	NAND GATE	96- 65
32♦	602	MB602	FCAJ	NAND GATE	101- 70
33♦	603	MB603	FCAJ	NAND GATE	106- 12
34♦	604	MB604	FCAJ	NAND GATE	109- 16
35♦	605	MB605	FCAJ	NAND GATE	106- 13
36♦	606	MB606	FCAJ	AND-OR-INV	85-107
37♦	607	MB607	FCAJ	AND GATE	81- 64
38♦	609	MB609	FCAJ	JK FL-FLOP	65-105
39♦	613	MB613	FCAJ	AND-OR-INV	89- 81
40♦	614	MB614	FCAJ	AND GATE	82- 26
41♦	616	SP616A	MULB	NAND GATE	108- 76
42♦	616	SP616A	PHIN	NAND GATE	108- 76
43♦	618	MB618	FCAJ	JK FL-FLOP	70- 63
44♦	620	SP620A	MULB	JK FL-FLOP	64- 93
45♦	620	SP620A	PHIN	JK FL-FLOP	64- 93
46♦	629	H629B1	SGSI	SPECIAL	245- 79
47♦	629	SP629A	MULB	RST F-FLOP	75- 53
48♦	629	SP629A	PHIN	RST F-FLOP	75- 53
49♦	631	SP631A	MULB	AND GATE	76-109
50♦	631	SP631A	PHIN	AND GATE	76-109
51♦	632	H632B1	SGSI	SPECIAL	245- 80
52♦	656	U656BS	ALGG	FREQ DIVID	195- 59
53♦	659	SP659A	MULB	NAND GATE	108- 75
54♦	659	SP659A	PHIN	NAND GATE	108- 75
55▼	660	MC660L	MOTA	NAND GATE	108- 83
56▼	660	MC660P	MOTA	NAND GATE	108- 84
57▼	661	MC661L	MOTA	NAND GATE	108- 85
58▼	661	MC661P	MOTA	NAND GATE	108- 86
59▼	662	MC662L	MOTA	NAND GATE	108- 87
60▼	662	MC662P	MOTA	NAND GATE	108- 88
61▼	663	MC663L	MOTA	JK FL-FLOP	67- 28
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63▼	664	MC664L	MOTA	RS FL-FLOP	75- 36
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68▼	668	MC668P	MOTA	NAND GATE	100-107
69▼	669	MC669L	MOTA	NAND GATE	105- 1
70▼	669	MC669P	MOTA	NAND GATE	105- 2
71▼	670	MC670L	MOTA	NAND GATE	104- 14
72▼	670	MC670P	MOTA	NAND GATE	104- 15
73♦	670	SP670A	MULB	NAND GATE	103- 83
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81▼	674	MC674L	MOTA	AND-OR-INV	86- 78
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115♦	730	M730B1	SGSI	COUNTER	165-108
116♦	730	M730D1	SGSI	COUNTER	165-109
117♦	731	M731B1	SGSI	COUNTER	165-110
118♦	731	M731D1	SGSI	COUNTER	166- 1
119♦	750	M750B1	SGSI	COUNTER	166- 2
120♦	750	M750D1	SGSI	COUNTER	166- 3
121♦	752	M752B1	SGSI	COUNTER	166- 4
122♦	752	M752D1	SGSI	COUNTER	166- 5
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148▼	839	MC839L	MOTA	DEC CNTR	174- 95
149▼	839	MC839P	MOTA	DEC CNTR	174- 96
150▼	844	MC844L	MOTA	NAND GATE	105- 7
151▼	844	MC844P	MOTA	NAND GATE	105- 8
152▼	845	MC845L	MOTA	RS FL-FLOP	75- 21
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155▼	846	MC846P	MOTA	NAND GATE	96- 79
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157▼	848	MC848P	MOTA	RS FL-FLOP	75- 24
158▼	849	MC849L	MOTA	NAND GATE	96- 80
159▼	849	MC849P	MOTA	NAND GATE	96- 81
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179▼	862	MC862L	MOTA	NAND GATE	101- 78
180▼	862	MC862P	MOTA	NAND GATE	101- 79
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195▼	901	CY7C901-69DC	CYP	4-BIT ALU	222- 15
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215♦	921	921HM	FSC	NOR GATE	112- 43
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68♦	961	961DM	FSC	NAND GATE	104- 53
69♦	961	*961FM	FSC	NAND GATE	104- 54
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71♦	962	962DM	FSC	NAND GATE	101- 29
72♦	962	*962FM	FSC	NAND GATE	103- 89
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89	994	*RM994CJ	RTN	JK FL-FLOP	66-110
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92♦	997	RM997DC	RTN	JK FL-FLOP	67- 3
93	999	*RM999CJ	RTN	JK FL-FLOP	67- 4
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109♦	1005	N1005A	MULB	AND-OR-INV	89- 11
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114♦	1008	ADSP1008AKD	ANA	MULTIPLIER	203- 10
115♦	1008	ADSP1008ASD	ANA	MULTIPLIER	203- 47
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120♦	1008	TDC1008J4C	TRW	MULTIPLIER	203- 59
121♦	1008	TDC1008J4F	TRW	MULTIPLIER	203- 68
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123♦	1009	ADSP1009AJD	ANA	MULTIPLIER	205- 14
124♦	1009	ADSP1009AJG	ANA	MULTIPLIER	205- 15
125♦	1009	ADSP1009AJN	ANA	MULTIPLIER	205- 16
126♦	1009	ADSP1009AKD	ANA	MULTIPLIER	204- 89
127♦	1009	ADSP1009AKG	ANA	MULTIPLIER	204- 90
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130♦	1009	ADSP1009ATD	ANA	MULTIPLIER	205- 17
131♦	1009	ADSP1009ATG(A)	ANA	MULTIPLIER	205- 18
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133♦	1009	LMA1009DC(A)	LDI	MULTIPLIER	205- 29
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135♦	1009	LMA1009DM(A)	LDI	MULTIPLIER	205- 59
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157♦	1010	ADSP1010AKG	ANA	MULTIPLIER	211- 57
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159♦	1010	ADSP1010ASD	ANA	MULTIPLIER	213- 49
160♦	1010	ADSP1010ASG	ANA	MULTIPLIER	213- 50
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170♦	1010	L1010L45CC	LAT	MULTIPLIER	207- 97
171	1010	*L1010L45L	LAT	MULTIPLIER	207- 98
172	1010	*L1010L45LC	LAT	MULTIPLIER	207- 99
173♦	1010	L1010L65C	LAT	MULTIPLIER	209-110
174♦	1010	L1010L65CC	LAT	MULTIPLIER	210- 1
175	1010	*L1010L65L	LAT	MULTIPLIER	210- 2
176	1010	*L1010L65LC	LAT	MULTIPLIER	210- 3
177♦	1010	L1010L90C	LAT	MULTIPLIER	212- 3
178♦	1010	L1010L90CC	LAT	MULTIPLIER	212- 4
179	1010	*L1010L90L	LAT	MULTIPLIER	212- 5
180	1010	*L1010L90LC	LAT	MULTIPLIER	212- 6
181▼	1010	LMA1010DC45	LDI	MULTIPLIER	207-100
182▼	1010	LMA1010DC55	LDI	MULTIPLIER	208-110
183▼	1010	LMA1010DC65	LDI	MULTIPLIER	210- 4
184♦	1010	LMA1010DC	LDI	MULTIPLIER	213- 21
185▼	1010	LMA1010DMB55	LDI	MULTIPLIER	209- 1
186▼	1010	LMA1010DMB65	LDI	MULTIPLIER	210- 5
187▼	1010	LMA1010DMB75	LDI	MULTIPLIER	211- 16
188▼	1010	LMA1010DMB	LDI	MULTIPLIER	213- 74
189▼	1010	LMA1010GC45	LDI	MULTIPLIER	207-101
190▼	1010	LMA1010GC55	LDI	MULTIPLIER	209- 2
191▼	1010	LMA1010GC65	LDI	MULTIPLIER	210- 6
192♦	1010	LMA1010GC	LDI	MULTIPLIER	213- 22
193▼	1010	LMA1010GMB55	LDI	MULTIPLIER	209- 3
194▼	1010	LMA1010GMB65	LDI	MULTIPLIER	210- 7
195▼	1010	LMA1010GMB75	LDI	MULTIPLIER	211- 17
196▼	1010	LMA1010GMB	LDI	MULTIPLIER	213- 75
197▼	1010	*LMA1010JC45	LDI	MULTIPLIER	207-102
198▼	1010	*LMA1010JC55	LDI	MULTIPLIER	209- 4
199▼	1010	*LMA1010JC65	LDI	MULTIPLIER	210- 8
200♦	1010	*LMA1010JC	LDI	MULTIPLIER	213- 23
201▼	1010	*LMA1010KC45	LDI	MULTIPLIER	207-103
202▼	1010	*LMA1010KC55	LDI	MULTIPLIER	209- 5
203▼	1010	*LMA1010KC65	LDI	MULTIPLIER	210- 9
204▼	1010	*LMA1010KC	LDI	MULTIPLIER	213- 24
205▼	1010	LMA1010PC45	LDI	MULTIPLIER	207-104
206▼	1010	LMA1010PC55	LDI	MULTIPLIER	209- 6
207▼	1010	LMA1010PC65	LDI	MULTIPLIER	210- 10
208▼	1010	LMA1010PC	LDI	MULTIPLIER	213- 25
209♦	1010	MP1010CD	MPS	MULTIPLIER	208- 9
210♦	1010	*MP1010CL	MPS	MULTIPLIER	208- 10
211♦	1010	MP1010MD	MPS	MULTIPLIER	209- 27
212♦	1010	*MP1010ML	MPS	MULTIPLIER	209- 28
213♦	1010	N1010A	MULB	AND-OR-INV	85- 65
214♦	1010	N1010A	PHIN	AND-OR-INV	85- 65
215	1010	*TDC1010C1A	TRW	MULTIPLIER	214- 30
216	1010	*TDC1010C1F	TRW	MULTIPLIER	214- 31
217♦	1010	TDC1010J1A	TRW	MULTIPLIER	214- 32
218♦	1010	TDC1010J1C	TRW	MULTIPLIER	213-105
219♦	1010	TDC1010J1F	TRW	MULTIPLIER	214- 33
220♦	1010	TDC1010J1G	TRW	MULTIPLIER	213-106

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4♦	1010	WTL1010AJC	WET	MULTIPLIER	213- 37
5♦	1010	WTL1010AJM	WET	MULTIPLIER	213- 90
6♦	1010	WTL1010JC	WET	MULTIPLIER	213- 87
7♦	1010	WTL1010JM	WET	MULTIPLIER	214- 40
8♦	1010	ZN1010E	FERB	CLOCK/MV	189- 15
9♦	1010	*ZN1010F	FERB	CLOCK/MV	189- 16
10♦	1011	N1011A	MULB	AND-OR-INV	85- 66
11♦	1011	N1011A	PHIN	AND-OR-INV	85- 66
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13♦	1012	ADSP1012AJG(A)	ANA	MULTIPLIER	205- 1
14♦	1012	ADSP1012AJN(A)	ANA	MULTIPLIER	205- 2
15♦	1012	ADSP1012AKD(A)	ANA	MULTIPLIER	204- 65
16♦	1012	ADSP1012AKG(A)	ANA	MULTIPLIER	204- 66
17♦	1012	ADSP1012AKN(A)	ANA	MULTIPLIER	204- 67
18♦	1012	ADSP1012ASD(A)	ANA	MULTIPLIER	205- 19
19♦	1012	ADSP1012ASG(A)	ANA	MULTIPLIER	205- 20
20♦	1012	ADSP1012ATD(A)	ANA	MULTIPLIER	205- 3
21♦	1012	ADSP1012ATG(A)	ANA	MULTIPLIER	205- 4
22	1012	ADSP1012TG	ANA	MULTIPLIER	205-105
23♦	1012	N1012A	MULB	NAND GATE	95- 47
24♦	1012	N1012A	PHIN	NAND GATE	95- 47
25♦	1013	N1013A	MULB	JK FL-FLOP	66- 65
26♦	1013	N1013A	PHIN	JK FL-FLOP	66- 65
27♦	1014	N1014A	MULB	RS FL-FLOP	75- 30
28♦	1014	N1014A	PHIN	RS FL-FLOP	75- 30
29♦	1015	N1015A	MULB	RS FL-FLOP	75- 31
30♦	1015	N1015A	PHIN	RS FL-FLOP	75- 31
31♦	1016	ADSP1016AJD	ANA	MULTIPLIER	212- 99
32♦	1016	ADSP1016AJG	ANA	MULTIPLIER	212-100
33▼	1016	ADSP1016AJN	ANA	MULTIPLIER	212-101
34♦	1016	ADSP1016AKD	ANA	MULTIPLIER	212- 43
35♦	1016	ADSP1016AKG	ANA	MULTIPLIER	212- 44
36▼	1016	ADSP1016AKN	ANA	MULTIPLIER	212- 45
37♦	1016	ADSP1016ASD	ANA	MULTIPLIER	213- 51
38♦	1016	ADSP1016ASG	ANA	MULTIPLIER	213- 52
39♦	1016	ADSP1016ATD	ANA	MULTIPLIER	212-102
40♦	1016	ADSP1016ATG	ANA	MULTIPLIER	212-103
41♦	1016	N1016A	MULB	RS FL-FLOP	75- 32
42♦	1016	N1016A	PHIN	RS FL-FLOP	75- 32
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46	1016	PDU1016-4	DDD	TIME DELAY	132- 88
47	1016	PDU1016-6	DDD	TIME DELAY	132- 89
48	1016	PDU1016-8	DDD	TIME DELAY	132- 90
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50	1016	PDU1016-12	DDD	TIME DELAY	132- 92
51	1016	PDU1016-15	DDD	TIME DELAY	132- 93
52	1016	PDU1016-20	DDD	TIME DELAY	132- 94
53	1016	PDU1016-25	DDD	TIME DELAY	132- 95
54	1016	PDU1016-30	DDD	TIME DELAY	132- 96
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62	1016	PDU1016H1	DDD	TIME DELAY	132-104
63	1016	PDU1016H2	DDD	TIME DELAY	132-105
64	1016	PDU1016H3	DDD	TIME DELAY	132-106
65	1016	PDU1016H4	DDD	TIME DELAY	132-107
66	1016	PDU1016H5	DDD	TIME DELAY	132-108
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68	1016	PDU1016H7	DDD	TIME DELAY	132-110
69	1016	PDU1016H8	DDD	TIME DELAY	133- 1
70	1016	PDU1016H9	DDD	TIME DELAY	133- 2
71	1016	PDU1016H10	DDD	TIME DELAY	133- 3
72	1016	PDU1016H12	DDD	TIME DELAY	133- 4
73	1016	PDU1016H15	DDD	TIME DELAY	133- 5
74	1016	PDU1016H20	DDD	TIME DELAY	133- 6
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79	1016	PDU1016H45	DDD	TIME DELAY	133- 11
80	1016	PDU1016H50	DDD	TIME DELAY	133- 12
81	1016	PDU1016H60	DDD	TIME DELAY	133- 13
82	1016	PDU1016H80	DDD	TIME DELAY	133- 14
83	1016	PDU1016H100	DDD	TIME DELAY	133- 15
84	1016	PDU1016H.5	DDD	TIME DELAY	133- 16
85	1016	PDU1016.5	DDD	TIME DELAY	133- 17
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87♦	1016	WTL1016AJC	WET	MULTIPLIER	212- 77
88♦	1016	WTL1016AJM	WET	MULTIPLIER	212- 78
89♦	1016	WTL1016JC	WET	MULTIPLIER	213- 78
90♦	1016	WTL1016JM	WET	MULTIPLIER	214- 19
91♦	1018	SAB1018A(1)	RTCF	FREQ DIVID	197- 96
92♦	1018	SAB1018P(2)	RTCF	FREQ DIVID	197- 97
93♦	1020	DDU3J1020	DDD	TIME DELAY	128- 39
94	1020	DDU4-1020	DDD	TIME DELAY	128- 52
95	1020	DDU4F1020	DDD	TIME DELAY	128- 65
96♦	1022	TDC1022J1C	TRW	FPOINT ALU	223- 35
97♦	1022	TDC1022J1G(A)	TRW	FPOINT ALU	223- 36
98♦	1024	ADSP1024AJG(A)	ANA	MULTIPLIER	214- 68
99♦	1024	ADSP1024AKG(A)	ANA	MULTIPLIER	214- 67
100♦	1024	ADSP1024ASG(A)	ANA	MULTIPLIER	214- 70
101♦	1024	ADSP1024ATG(A)	ANA	MULTIPLIER	214- 69
102♦	1024	N1024A	MULB	AND-OR-INV	85- 64
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104	1025	N1025A	MULB	SPECIAL	245- 81
105	1025	N1025A	PHIN	SPECIAL	245- 81
106♦	1027	N1027A	MULB	JK FL-FLOP	64- 81
107♦	1027	N1027A	PHIN	JK FL-FLOP	64- 81
108♦	1030	DDU3J1030	DDD	TIME DELAY	128- 40
109	1030	DDU4-1030	DDD	TIME DELAY	128- 53
110	1030	DDU4F1030	DDD	TIME DELAY	128- 66
111▼	1030	DS1030-100(A)	DAL	TIME DELAY	136- 65
112▼	1030	DS1030-125(A)	DAL	TIME DELAY	136- 66
113▼	1030	DS1030-150(A)	DAL	TIME DELAY	136- 67
114▼	1030	DS1030-175(A)	DAL	TIME DELAY	136- 68
115▼	1030	DS1030-200(A)	DAL	TIME DELAY	136- 69
116▼	1030	DS1030-250(A)	DAL	TIME DELAY	136- 70
117▼	1030	DS1030-500(A)	DAL	TIME DELAY	136- 71
118▼	1031	DS1031-100(A)	DAL	TIME DELAY	136- 72
119▼	1031	DS1031-125(A)	DAL	TIME DELAY	136- 73
120▼	1031	DS1031-150	DAL	TIME DELAY	136- 74
121▼	1031	DS1031-175(A)	DAL	TIME DELAY	136- 75
122▼	1031	DS1031-200(A)	DAL	TIME DELAY	136- 76
123▼	1031	DS1031-250(A)	DAL	TIME DELAY	136- 77
124▼	1031	DS1031-500(A)	DAL	TIME DELAY	136- 78
125▼	1031	*DS1031S-100(A)	DAL	TIME DELAY	136- 79
126▼	1031	*DS1031S-125	DAL	TIME DELAY	136- 80
127▼	1031	*DS1031S-150(A)	DAL	TIME DELAY	136- 81
128▼	1031	*DS1031S-175(A)	DAL	TIME DELAY	136- 82
129▼	1031	*DS1031S-200(A)	DAL	TIME DELAY	136- 83
130▼	1031	*DS1031S-250(A)	DAL	TIME DELAY	136- 84
131▼	1031	*DS1031S-500(A)	DAL	TIME DELAY	136- 85
132	1032	PDU1032H1	DDD	TIME DELAY	133- 18
133	1032	PDU1032H2	DDD	TIME DELAY	133- 19
134	1032	PDU1032H3	DDD	TIME DELAY	133- 20
135	1032	PDU1032H4	DDD	TIME DELAY	133- 21
136	1032	PDU1032H5	DDD	TIME DELAY	133- 22
137	1032	PDU1032H6	DDD	TIME DELAY	133- 23
138	1032	PDU1032H8	DDD	TIME DELAY	133- 24
139	1032	PDU1032H10	DDD	TIME DELAY	133- 25
140	1032	PDU1032H12	DDD	TIME DELAY	133- 26
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142	1032	PDU1032H20	DDD	TIME DELAY	133- 28
143	1032	PDU1032H.5	DDD	TIME DELAY	133- 29
144♦	1032	WTL1032JC5	WET	MULTIPLIER	214- 49
145♦	1032	WTL1032JC8	WET	MULTIPLIER	214- 41
146♦	1032	WTL1032JM5	WET	MULTIPLIER	214- 50
147♦	1032	WTL1032JM8	WET	MULTIPLIER	214- 42
148	1032	*WTL1032LC5	WET	MULTIPLIER	214- 51
149	1032	*WTL1032LC8	WET	MULTIPLIER	214- 43
150	1032	*WTL1032LM5	WET	MULTIPLIER	214- 52
151	1032	*WTL1032LM8	WET	MULTIPLIER	214- 44
152♦	1033	N1033A	MULB	RS FL-FLOP	75- 33
153♦	1033	N1033A	PHIN	RS FL-FLOP	75- 33
154♦	1033	*TDC1033(A)	TRW	FPOINT ALU	223- 34
155♦	1033	WTL1033JC5	WET	MULTIPLIER	214- 53
156♦	1033	WTL1033JC8	WET	MULTIPLIER	214- 45
157♦	1033	WTL1033JM5	WET	MULTIPLIER	214- 54
158♦	1033	WTL1033JM8	WET	MULTIPLIER	214- 46
159	1033	*WTL1033LC5	WET	MULTIPLIER	214- 55
160	1033	*WTL1033LC8	WET	MULTIPLIER	214- 47
161	1033	*WTL1033LM5	WET	MULTIPLIER	214- 56
162	1033	*WTL1033LM8	WET	MULTIPLIER	214- 48
163♦	1034	SA1034(2)	SIC	FREQ DIVID	193- 99
164♦	1034	SAB1034P	PHIN	FREQ DIVID	195- 12
165♦	1034	SAF1034E	PHIN	FREQ DIVID	195- 14
166♦	1034	SAF1034E	RTCF	FREQ DIVID	195- 14
167	1034	*ZN1034D(1)	FERB	FREQ DIVID	195- 81
168♦	1034	ZN1034E	FERB	FREQ DIVID	195- 82
169♦	1034	ZN1034E(1)	FERB	FREQ DIVID	195- 83
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171♦	1034	ZN1034T(1)	FERB	FREQ DIVID	195- 85
172♦	1040	DDU3J1040	DDD	TIME DELAY	128- 41
173	1040	DDU4-1040	DDD	TIME DELAY	128- 54
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175	1042	*TDC1042(A)	TRW	MULTIPLIER	214- 66
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177▼	1043	LMA1043DC55	LDI	MULTIPLIER	209- 7
178▼	1043	LMA1043DC65	LDI	MULTIPLIER	210- 11
179♦	1043	LMA1043DC	LDI	MULTIPLIER	213- 26
180▼	1043	LMA1043DMB55	LDI	MULTIPLIER	209- 8
181▼	1043	LMA1043DMB65	LDI	MULTIPLIER	210- 12
182▼	1043	LMA1043DMB75	LDI	MULTIPLIER	211- 18
183▼	1043	LMA1043DMB	LDI	MULTIPLIER	213- 76
184▼	1043	LMA1043GC45	LDI	MULTIPLIER	207-106
185▼	1043	LMA1043GC55	LDI	MULTIPLIER	209- 9
186▼	1043	LMA1043GC65	LDI	MULTIPLIER	210- 13
187♦	1043	LMA1043GC	LDI	MULTIPLIER	213- 27
188▼	1043	LMA1043GMB55	LDI	MULTIPLIER	209- 10
189▼	1043	LMA1043GMB65	LDI	MULTIPLIER	210- 14
190▼	1043	LMA1043GMB75	LDI	MULTIPLIER	211- 19
191▼	1043	LMA1043GMB	LDI	MULTIPLIER	213- 77
192▼	1043	*LMA1043JC45	LDI	MULTIPLIER	207-107
193▼	1043	*LMA1043JC55	LDI	MULTIPLIER	209- 11
194▼	1043	*LMA1043JC65	LDI	MULTIPLIER	210- 15
195♦	1043	*LMA1043JC	LDI	MULTIPLIER	213- 28
196▼	1043	*LMA1043KC45	LDI	MULTIPLIER	207-108
197▼	1043	*LMA1043KC55	LDI	MULTIPLIER	209- 12
198▼	1043	*LMA1043KC65	LDI	MULTIPLIER	210- 16
199▼	1043	*LMA1043KC	LDI	MULTIPLIER	213- 29
200▼	1043	LMA1043PC45	LDI	MULTIPLIER	207-109
201▼	1043	LMA1043PC55	LDI	MULTIPLIER	209- 13
202▼	1043	LMA1043PC65	LDI	MULTIPLIER	210- 17
203▼	1043	LMA1043PC	LDI	MULTIPLIER	213- 30
204♦	1043	TDC1043J3C(A)	TRW	MULTIPLIER	212- 69
205♦	1043	TDC1043J3G(A)	TRW	MULTIPLIER	212- 70
206♦	1046	SAB1046	VALG	FREQ DIVID	195- 24
207♦	1047	SAB1047	VALG	FREQ DIVID	194- 90
208♦	1048	SAB1048	VALG	FREQ DIVID	195- 13
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210	1050	DDU4-1050	DDD	TIME DELAY	128- 55
211	1050	DDU4F1050	DDD	TIME DELAY	128- 68
212♦	1059	SAA1059(A)	PHIN	FREQ DIVID	196- 63
213♦	1060	DDU3J1060	DDD	TIME DELAY	128- 43
214	1060	DDU4-1060	DDD	TIME DELAY	128- 56
215	1060	DDU4F1060	DDD	TIME DELAY	128- 69
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217	1064	PDU1064H1	DDD	TIME DELAY	133- 31
218	1064	PDU1064H2	DDD	TIME DELAY	133- 32
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6♦	1065	WTL1065GCD	WET	MULTIPLIER	214- 84
7♦	1078	SAB1078AD	PHIN	FREQ DIVID	197- 94
8♦	1078	SAB1078AP	PHIN	FREQ DIVID	197- 95
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11♦	1080	ADSP1080AJD	ANA	MULTIPLIER	202-104
12♦	1080	ADSP1080AJN	ANA	MULTIPLIER	202-105
13♦	1080	ADSP1080AKN	ANA	MULTIPLIER	202-101
14♦	1080	ADSP1080ASD	ANA	MULTIPLIER	203- 11
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17	1080	DDU4-1080	DDD	TIME DELAY	128- 57
18	1080	DDU4F1080	DDD	TIME DELAY	128- 70
19♦	1081	ADSP1081AJD	ANA	MULTIPLIER	202-107
20♦	1081	ADSP1081AJN	ANA	MULTIPLIER	202-108
21♦	1081	ADSP1081AKD	ANA	MULTIPLIER	202-102
22♦	1081	ADSP1081AKN	ANA	MULTIPLIER	202-103
23♦	1081	ADSP1081ASD	ANA	MULTIPLIER	203- 12
24♦	1081	ADSP1081ATD	ANA	MULTIPLIER	202-109
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31▼	1101	ADSP1101SG(A)	ANA	MULTIPLIER	210- 54
32▼	1101	ADSP1101TG(A)	ANA	MULTIPLIER	210- 55
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35▼	1102	ADSP1102JN(A)	ANA	MULTIPLIER	206- 2
36▼	1102	ADSP1102KD(A)	ANA	MULTIPLIER	206- 3
37▼	1102	ADSP1102KG(A)	ANA	MULTIPLIER	206- 4
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140♦	1906	*MC1906F	MOTA	AND GATE	77-109
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142♦	1907	*MC1907F	MOTA	AND GATE	78- 34
143♦	1907	MC1907L	MOTA	AND GATE	76- 63
144♦	1908	*MC1908F	MOTA	OR GATE	121- 96
145♦	1908	MC1908L	MOTA	OR GATE	120- 51
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148♦	1909	MC1909L	MOTA	OR GATE	120- 52
149	1910	DL1910	VLR	TIME DELAY	148- 99
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157♦	1912	MC1912L	MOTA	EX-OR GATE	94- 18
158♦	1912	PC1912B	WDC	FREQ DIVID	196- 74
159♦	1912	PC1912F	WDC	FREQ DIVID	196- 75
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169♦	1918	MC1918L	MOTA	NAND GATE	96- 85
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171	1920	DL1920	VLR	TIME DELAY	148-109
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173♦	1943	WD1943-00AD	WDC	FREQ DIVID	193- 49
174♦	1943	WD1943-00CD	WDC	FREQ DIVID	193- 50
175♦	1943	WD1943-00M	WDC	FREQ DIVID	193- 51
176♦	1943	WD1943-02AD	WDC	FREQ DIVID	193- 52
177♦	1943	WD1943-02CD	WDC	FREQ DIVID	193- 53
178♦	1943	WD1943-02M	WDC	FREQ DIVID	193- 54
179♦	1943	WD1943-03AD	WDC	FREQ DIVID	193- 55
180♦	1943	WD1943-03CD	WDC	FREQ DIVID	193- 56
181♦	1943	WD1943-03M	WDC	FREQ DIVID	193- 57
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183♦	1943	WD1943-04CD	WDC	FREQ DIVID	193- 59
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151	2245	*WTL2245ALCA	WET	MULTIPLIER	211- 46
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153	2245	WTL2245GCD	WET	MULTIPLIER	213- 41
154	2245	WTL2245GMD	WET	MULTIPLIER	213- 42
155♦	2245	WTL2245JC	WET	MULTIPLIER	213- 43
156♦	2245	WTL2245JM	WET	MULTIPLIER	213- 44
157♦	2245	WTL2245LCA	WET	MULTIPLIER	213- 45
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197	2442	DL2442	VLR	TIME DELAY	151- 2
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199	2451	DL2451	VLR	TIME DELAY	151- 4
200	2452	DL2452	VLR	TIME DELAY	151- 5
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133	4002	MC4002L	MOTA	DECODER	126- 1
134	4002	MC4002P	MOTA	DECODER	126- 2
135♦	4002	MN4002B	MATJ	NOR GATE	118- 78
136♦	4002	MSM4002	OKIJ	NOR GATE	119- 5
137♦	4002	MSM4002RS	OKIJ	NOR GATE	119- 9
138♦	4002	SCL4002B	SSS	NOR GATE	119- 1
139♦	4002	TC4002BP	IMTM	NOR GATE	119- 7
140♦	4002	TC4002BP	TOSJ	NOR GATE	119- 7
141♦	4007	MC4007L	MOTA	DECODER	126- 11
142♦	4007	MC4007P	MOTA	DECODER	126- 12
143	4008	883C4008B	SSS	ADDER	201- 19
144♦	4008	4008BDC	FSC	ADDER	201- 5
145♦	4008	4008BDM	FSC	ADDER	201- 6
146	4008	*4008BFC	FSC	ADDER	201- 7
147	4008	*4008BFM	FSC	ADDER	201- 8
148	4008	4008BPC	FSC	ADDER	201- 9
149	4008	BCL4008B	SSS	ADDER	201- 20
150	4008	CD4008AD	RCA	ADDER	201- 53
151	4008	CD4008AE	RCA	ADDER	201- 63
152	4008	CD4008AF	RCA	ADDER	201- 54
153♦	4008	CD4008BCJ	NSC	ADDER	201- 13
154♦	4008	CD4008BCN	NSC	ADDER	201- 14
155	4008	CD4008BD	RCA	ADDER	201- 45
156	4008	CD4008BE	RCA	ADDER	201- 46
157	4008	CD4008BF	RCA	ADDER	201- 47
158♦	4008	CD4008BMJ	NSC	ADDER	201- 15
159	4008	*CD4008BMW	NSC	ADDER	201- 16
160♦	4008	CM4008AD	SOD	ADDER	201- 55
161♦	4008	CM4008AE	SOD	ADDER	201- 64
162	4008	HBC4008AD	SGSI	ADDER	201- 56
163	4008	HBC4008AF	SGSI	ADDER	201- 57
164	4008	*HBC4008AK	SGSI	ADDER	201- 58
165	4008	HBF4008AE	SGSI	ADDER	201- 65
166	4008	HBF4008AF	SGSI	ADDER	201- 66
167♦	4008	HCC4008BD	SGSI	ADDER	201- 21
168♦	4008	HCC4008BF	SGSI	ADDER	201- 22
169	4008	*HCC4008BK	SGSI	ADDER	201- 23
170♦	4008	HCF4008BE	SGSI	ADDER	201- 24
171♦	4008	HCF4008BF	SGSI	ADDER	201- 25
172	4008	HEF4008	RTCF	ADDER	201- 3
173♦	4008	HEF4008B	VALG	ADDER	201- 2
174♦	4008	HEF4008BD	MULB	ADDER	201- 10
175♦	4008	HEF4008BD	PHIN	ADDER	201- 10
176♦	4008	HEF4008BD	RTCF	ADDER	201- 10
177♦	4008	HEF4008BD	VALG	ADDER	201- 10
178♦	4008	HEF4008BP	MULB	ADDER	201- 11
179♦	4008	HEF4008BP	PHIN	ADDER	201- 11
180♦	4008	HEF4008BP	RTCF	ADDER	201- 11
181♦	4008	HEF4008BP	VALG	ADDER	201- 11
182♦	4008	HEF4008BPN	SIC	ADDER	201- 4
183♦	4008	*HEF4008BT	MULB	ADDER	201- 12
184♦	4008	*HEF4008BT	PHIN	ADDER	201- 12
185♦	4008	*HEF4008BT	RTCF	ADDER	201- 12
186♦	4008	*HEF4008BT	VALG	ADDER	201- 12
187	4008	*HEF4008BTD	SIC	ADDER	200-109
188♦	4008	HEF4008P	MULB	ADDER	200-106
189♦	4008	HEF4008P	PHIN	ADDER	200-106
190♦	4008	HEF4008P	VALG	ADDER	200-106
191♦	4008	MC4008L	MOTA	PARITY GEN	226- 13
192♦	4008	MC4008P	MOTA	PARITY GEN	226- 14
193♦	4008	MSM4008	OKIJ	ADDER	201- 59
194♦	4008	MSM4008RS	OKIJ	ADDER	201- 76
195♦	4008	SCL4008B	SSS	ADDER	201- 77
196♦	4008	TC4008BP	IMTM	ADDER	201- 48
197♦	4008	TC4008BP	TOSJ	ADDER	201- 48
198♦	4010	MC4010L	MOTA	PARITY GEN	226- 6
199♦	4010	MC4010P	MOTA	PARITY GEN	226- 7
200♦	4011	883C4011B	SSS	NAND GATE	100- 83
201♦	4011	883C4011UB	SSS	NAND GATE	100- 24
202♦	4011	4011A	MULB	NAND GATE	101- 1
203♦	4011	4011A	PHIN	NAND GATE	101- 1
204♦	4011	4011BDC	FSC	NAND GATE	100- 19
205♦	4011	4011BDM	FSC	NAND GATE	100- 20
206♦	4011	*4011BFC	FSC	NAND GATE	100- 21
207♦	4011	*4011BFM	FSC	NAND GATE	100- 22
208♦	4011	4011BPC	FSC	NAND GATE	100- 23
209♦	4011	BCL4011B	SSS	NAND GATE	100- 84
210♦	4011	BCL4011UB	SSS	NAND GATE	100- 26
211▼	4011	BU4011B	RHM	NAND GATE	95- 91
212▼	4011	*BU4011BF	RHM	NAND GATE	95- 92
213♦	4011	CD4011AD	RCA	NAND GATE	99- 84
214♦	4011	CD4011AE	BELI	NAND GATE	100- 27
215♦	4011	CD4011AE	RCA	NAND GATE	100- 27
216♦	4011	CD4011AF	BELI	NAND GATE	99- 85
217♦	4011	CD4011AF	RCA	NAND GATE	99- 85
218♦	4011	CD4011BCJ	NSC	NAND GATE	100- 60
219♦	4011	CD4011BCN	NSC	NAND GATE	100- 61
220♦	4011	CD4011BD	RCA	NAND GATE	100-101

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

GENERIC PRODUCT INDEX

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LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	4011	CD4011BE	BELI	NAND GATE	100-102
2♦	4011	CD4011BE	RCA	NAND GATE	100-102
3♦	4011	CD4011BF	BELI	NAND GATE	100-103
4♦	4011	CD4011BF	RCA	NAND GATE	100-103
5♦	4011	CD4011BMJ	NSC	NAND GATE	100- 62
6♦	4011	*CD4011BMW	NSC	NAND GATE	100- 63
7♦	4011	CD4011CJ	NSC	NAND GATE	100- 28
8♦	4011	CD4011CN	NSC	NAND GATE	100- 29
9♦	4011	CD4011MJ	NSC	NAND GATE	99- 86
10♦	4011	*CD4011MW	NSC	NAND GATE	99- 87
11♦	4011	CD4011UBD	RCA	NAND GATE	100- 52
12♦	4011	CD4011UBE	RCA	NAND GATE	100- 53
13♦	4011	CD4011UBF	RCA	NAND GATE	100- 54
14♦	4011	CM4011AD	SOD	NAND GATE	99- 88
15♦	4011	CM4011AE	SOD	NAND GATE	100- 30
16♦	4011	HBC4011AD	SGSI	NAND GATE	99- 89
17♦	4011	HBC4011AF	SGSI	NAND GATE	99- 90
18♦	4011	*HBC4011AK	SGSI	NAND GATE	99- 91
19♦	4011	HBF4011AE	SGSI	NAND GATE	100- 31
20♦	4011	HBF4011AF	SGSI	NAND GATE	100- 32
21♦	4011	HCC4011BD	SGSI	NAND GATE	100- 91
22♦	4011	HCC4011BF	SGSI	NAND GATE	100- 92
23♦	4011	*HCC4011BK	SGSI	NAND GATE	100- 93
24♦	4011	HCF4011BE	SGSI	NAND GATE	100- 94
25♦	4011	HCF4011BF	SGSI	NAND GATE	100- 95
26♦	4011	HEF4011	RTCF	NAND GATE	99- 74
27♦	4011	HEF4011BD	MULB	NAND GATE	100- 10
28♦	4011	HEF4011BD	PHIN	NAND GATE	100- 10
29♦	4011	HEF4011BD	RTCF	NAND GATE	100- 10
30♦	4011	HEF4011BD	VALG	NAND GATE	100- 10
31♦	4011	HEF4011BP	MULB	NAND GATE	100- 11
32♦	4011	HEF4011BP	PHIN	NAND GATE	100- 11
33♦	4011	HEF4011BP	RTCF	NAND GATE	100- 11
34♦	4011	HEF4011BP	VALG	NAND GATE	100- 11
35♦	4011	HEF4011BPN	SIC	NAND GATE	99- 75
36♦	4011	*HEF4011BT	MULB	NAND GATE	100- 12
37♦	4011	*HEF4011BT	PHIN	NAND GATE	100- 12
38♦	4011	*HEF4011BT	RTCF	NAND GATE	100- 12
39♦	4011	*HEF4011BT	VALG	NAND GATE	100- 12
40♦	4011	*HEF4011BTD	SIC	NAND GATE	99- 76
41♦	4011	HEF4011P	MULB	NAND GATE	99- 43
42♦	4011	HEF4011P	PHIN	NAND GATE	99- 43
43♦	4011	HEF4011P	VALG	NAND GATE	99- 43
44♦	4011	HEF4011U	RTCF	NAND GATE	99- 77
45♦	4011	HEF4011UBD	MULB	NAND GATE	100- 33
46♦	4011	HEF4011UBD	PHIN	NAND GATE	100- 33
47♦	4011	HEF4011UBD	RTCF	NAND GATE	100- 33
48♦	4011	HEF4011UBD	VALG	NAND GATE	100- 33
49♦	4011	HEF4011UBP	MULB	NAND GATE	100- 34
50♦	4011	HEF4011UBP	PHIN	NAND GATE	100- 34
51♦	4011	HEF4011UBP	RTCF	NAND GATE	100- 34
52♦	4011	HEF4011UBP	VALG	NAND GATE	100- 34
53♦	4011	HEF4011UBPN	SIC	NAND GATE	98- 85
54♦	4011	*HEF4011UBT	MULB	NAND GATE	100- 35
55♦	4011	*HEF4011UBT	PHIN	NAND GATE	100- 35
56♦	4011	*HEF4011UBT	RTCF	NAND GATE	100- 35
57♦	4011	*HEF4011UBT	VALG	NAND GATE	100- 35
58♦	4011	*HEF4011UBTD	SIC	NAND GATE	99- 92
59♦	4011	LC4011B	TSAJ	NAND GATE	100-104
60♦	4011	*LC4011BM	TSAJ	NAND GATE	99- 93
61♦	4011	M4011BP	MITJ	NAND GATE	100-105
62♦	4011	M4011UBP	MITJ	NAND GATE	100- 66
63♦	4011	MN4011B	MATJ	NAND GATE	100- 56
64♦	4011	MSM4011	OKIJ	NAND GATE	101- 3
65♦	4011	MSM4011RS	OKIJ	NAND GATE	101- 11
66♦	4011	SCL4011B	SSS	NAND GATE	100-108
67♦	4011	SCL4011UB	SSS	NAND GATE	100-109
68♦	4011	TC4011BP	IMTM	NAND GATE	100-110
69♦	4011	TC4011BP	TOSJ	NAND GATE	100-110
70♦	4011	TC4011UBP	TOSJ	NAND GATE	100- 81
71♦	4011	*UPD4011BG	NECJ	NAND GATE	100- 82
72♦	4012	883C4012B	SSS	NAND GATE	107- 98
73♦	4012	4012A	MULB	NAND GATE	108- 42
74♦	4012	4012A	PHIN	NAND GATE	108- 42
75♦	4012	4012BDC	FSC	NAND GATE	107- 60
76♦	4012	4012BDM	FSC	NAND GATE	107- 61
77♦	4012	*4012BFC	FSC	NAND GATE	107- 62
78♦	4012	*4012BFM	FSC	NAND GATE	107- 63
79♦	4012	4012BPC	FSC	NAND GATE	107- 64
80♦	4012	BCL4012B	SSS	NAND GATE	107-100
81♦	4012	CD4012AD	RCA	NAND GATE	107- 42
82♦	4012	CD4012AE	BELI	NAND GATE	107- 65
83♦	4012	CD4012AE	RCA	NAND GATE	107- 65
84♦	4012	CD4012AF	BELI	NAND GATE	107- 43
85♦	4012	CD4012AF	RCA	NAND GATE	107- 43
86♦	4012	CD4012BD	RCA	NAND GATE	108- 23
87♦	4012	CD4012BE	RCA	NAND GATE	108- 24
88♦	4012	CD4012BF	RCA	NAND GATE	108- 25
89♦	4012	CD4012CJ	NSC	NAND GATE	107- 66
90♦	4012	CD4012CN	NSC	NAND GATE	107- 67
91♦	4012	CD4012MJ	NSC	NAND GATE	107- 44
92♦	4012	*CD4012MW	NSC	NAND GATE	107- 45
93♦	4012	CD4012UBD	RCA	NAND GATE	107- 81
94♦	4012	CD4012UBE	RCA	NAND GATE	107- 82
95♦	4012	CD4012UBF	RCA	NAND GATE	107- 83
96♦	4012	CM4012AD	SOD	NAND GATE	107- 91
97♦	4012	CM4012AE	SOD	NAND GATE	108- 3
98♦	4012	HBC4012AD	SGSI	NAND GATE	107- 92
99♦	4012	HBC4012AF	SGSI	NAND GATE	107- 93
100♦	4012	*HBC4012AK	SGSI	NAND GATE	107- 94
101♦	4012	HBF4012AE	SGSI	NAND GATE	108- 6
102♦	4012	HBF4012AF	SGSI	NAND GATE	108- 7
103♦	4012	HCC4012BD	SGSI	NAND GATE	107-102
104♦	4012	HCC4012BF	SGSI	NAND GATE	107-103
105♦	4012	*HCC4012BK	SGSI	NAND GATE	107-104
106♦	4012	HCF4012BE	SGSI	NAND GATE	107-105
107♦	4012	HCF4012BF	SGSI	NAND GATE	107-106
108♦	4012	HEF4012	RTCF	NAND GATE	107- 68
109♦	4012	HEF4012BD	MULB	NAND GATE	107- 69
110♦	4012	HEF4012BD	PHIN	NAND GATE	107- 69
111♦	4012	HEF4012BD	RTCF	NAND GATE	107- 69
112♦	4012	HEF4012BD	VALG	NAND GATE	107- 69
113♦	4012	HEF4012BP	MULB	NAND GATE	107- 70
114♦	4012	HEF4012BP	PHIN	NAND GATE	107- 70
115♦	4012	HEF4012BP	RTCF	NAND GATE	107- 70
116♦	4012	HEF4012BP	VALG	NAND GATE	107- 70
117♦	4012	HEF4012BPN	SIC	NAND GATE	107- 71
118♦	4012	*HEF4012BT	MULB	NAND GATE	107- 72
119♦	4012	*HEF4012BT	PHIN	NAND GATE	107- 72
120♦	4012	*HEF4012BT	RTCF	NAND GATE	107- 72
121♦	4012	*HEF4012BT	VALG	NAND GATE	107- 72
122♦	4012	*HEF4012BTD	SIC	NAND GATE	107- 73
123♦	4012	HEF4012P	MULB	NAND GATE	107- 39
124♦	4012	HEF4012P	PHIN	NAND GATE	107- 39
125♦	4012	HEF4012P	VALG	NAND GATE	107- 39
126♦	4012	LC4012B	TSAJ	NAND GATE	107- 97
127♦	4012	M4012BP	MITJ	NAND GATE	108- 38
128♦	4012	MN4012B	MATJ	NAND GATE	107- 85
129♦	4012	MSM4012	OKIJ	NAND GATE	108- 29
130♦	4012	MSM4012RS	OKIJ	NAND GATE	108- 44
131♦	4012	SCL4012B	SSS	NAND GATE	108- 26
132♦	4012	TC4012BP	IMTM	NAND GATE	108- 39
133♦	4012	TC4012BP	TOSJ	NAND GATE	108- 39
134	4013	883C4013B	SSS	D FL-FLOP	51- 51
135♦	4013	4013BDC	FSC	D FL-FLOP	50- 89
136♦	4013	4013BDM	FSC	D FL-FLOP	50- 90
137	4013	*4013BFC	FSC	D FL-FLOP	50- 91
138	4013	*4013BFM	FSC	D FL-FLOP	50- 92
139♦	4013	4013BPC	FSC	D FL-FLOP	50- 93
140	4013	BCL4013B	SSS	D FL-FLOP	51- 56
141	4013	CD4013AD	RCA	D FL-FLOP	50-100
142	4013	CD4013AE	BELI	D FL-FLOP	50-101
143	4013	CD4013AE	RCA	D FL-FLOP	50-101
144	4013	CD4013AF	BELI	D FL-FLOP	50-102
145	4013	CD4013AF	RCA	D FL-FLOP	50-102
146♦	4013	CD4013BCJ	NSC	D FL-FLOP	50- 81
147♦	4013	CD4013BCN	NSC	D FL-FLOP	50- 82
148♦	4013	CD4013BD	RCA	D FL-FLOP	50- 85
149♦	4013	CD4013BE	RCA	D FL-FLOP	50- 86
150♦	4013	CD4013BF	RCA	D FL-FLOP	50- 87
151♦	4013	*CD4013BK	RCA	D FL-FLOP	50- 88
152♦	4013	CD4013BMJ	NSC	D FL-FLOP	50- 83
153	4013	*CD4013BMW	NSC	D FL-FLOP	50- 84
154♦	4013	CM4013AD	SOD	D FL-FLOP	50-103
155♦	4013	CM4013AE	SOD	D FL-FLOP	50-104
156	4013	HBC4013AD	SGSI	D FL-FLOP	50-105
157	4013	HBC4013AF	SGSI	D FL-FLOP	50-106
158	4013	*HBC4013AK	SGSI	D FL-FLOP	50-107
159	4013	HBF4013AE	SGSI	D FL-FLOP	50-108
160	4013	HBF4013AF	SGSI	D FL-FLOP	50-109
161♦	4013	HCC4013BD	SGSI	D FL-FLOP	51- 13
162♦	4013	HCC4013BF	SGSI	D FL-FLOP	51- 14
163	4013	*HCC4013BK	SGSI	D FL-FLOP	51- 15
164♦	4013	HCF4013BE	SGSI	D FL-FLOP	51- 16
165♦	4013	HCF4013BF	SGSI	D FL-FLOP	51- 17
166	4013	HEF4013	RTCF	D FL-FLOP	51- 26
167♦	4013	HEF4013BD	PHIN	D FL-FLOP	51- 95
168♦	4013	HEF4013BP	PHIN	D FL-FLOP	51- 96
169♦	4013	HEF4013BPN	SIC	D FL-FLOP	51- 27
170♦	4013	*HEF4013BT	PHIN	D FL-FLOP	51- 97
171	4013	*HEF4013BTD	SIC	D FL-FLOP	52- 35
172♦	4013	HEF4013P	MULB	D FL-FLOP	51- 24
173♦	4013	HEF4013P	PHIN	D FL-FLOP	51- 24
174♦	4013	HEF4013P	VALG	D FL-FLOP	51- 24
175♦	4013	LC4013B	TSAJ	D FL-FLOP	52- 62
176	4013	*LC4013BM	TSAJ	D FL-FLOP	50- 64
177♦	4013	M4013BP	MITJ	D FL-FLOP	50- 65
178♦	4013	MN4013B	MATJ	D FL-FLOP	52- 36
179♦	4013	MSM4013	OKIJ	D FL-FLOP	51- 7
180♦	4013	MSM4013RS	OKIJ	D FL-FLOP	50- 63
181♦	4013	NJU4013BD	NJRC	D FL-FLOP	51- 46
182♦	4013	*NJU4013BM	NJRC	D FL-FLOP	51- 47
183	4013	SCL4013B	SSS	D FL-FLOP	50- 79
184♦	4013	TC4013BP	IMTM	D FL-FLOP	50- 80
185♦	4013	TC4013BP	TOSJ	D FL-FLOP	50- 80
186	4013	*UPD4013BG	NECJ	D FL-FLOP	51- 18
187♦	4015	MC4015L	MOTA	D FL-FLOP	49- 75
188♦	4015	MC4015P	MOTA	D FL-FLOP	49- 76
189♦	4015	MM4015	NSC	SPECIAL	247- 13
190♦	4016	*MC4016F	MOTA	MOD-N CNTR	185- 44
191♦	4016	MC4016L	MOTA	MOD-N CNTR	185- 45
192♦	4016	MC4016P	MOTA	MOD-N CNTR	185- 46
193♦	4017	883C4017B	SSS	DEC CNTR	183- 33
194♦	4017	4017BDC	FSC	DEC CNTR	183- 21
195♦	4017	4017BDM	FSC	DEC CNTR	183- 22
196♦	4017	*4017BFC	FSC	DEC CNTR	183- 23
197♦	4017	*4017BFM	FSC	DEC CNTR	183- 24
198♦	4017	4017BPC	FSC	DEC CNTR	183- 25
199♦	4017	BCL4017B	SSS	DEC CNTR	183- 34
200♦	4017	CD4017AD	RCA	DEC CNTR	183- 1
201♦	4017	CD4017AE	RCA	DEC CNTR	183- 2
202♦	4017	CD4017AF	RCA	DEC CNTR	183- 3
203♦	4017	CD4017BCJ	NSC	DEC CNTR	183- 17
204♦	4017	CD4017BCN	NSC	DEC CNTR	183- 18
205♦	4017	CD4017BD	RCA	DEC CNTR	183- 4
206♦	4017	CD4017BE	RCA	DEC CNTR	183- 5
207♦	4017	CD4017BF	RCA	DEC CNTR	183- 6
208♦	4017	CD4017BMJ	NSC	DEC CNTR	183- 19
209♦	4017	*CD4017BMW	NSC	DEC CNTR	183- 20
210♦	4017	CM4017AD	SOD	DEC CNTR	183- 7
211♦	4017	CM4017AE	SOD	DEC CNTR	183- 8
212♦	4017	HBC4017AD	SGSI	DEC CNTR	183- 9
213♦	4017	HBC4017AF	SGSI	DEC CNTR	183- 10
214♦	4017	*HBC4017AK	SGSI	DEC CNTR	183- 11
215♦	4017	HBF4017AE	SGSI	DEC CNTR	183- 12
216♦	4017	HBF4017AF	SGSI	DEC CNTR	183- 13
217♦	4017	HCC4017BD	SGSI	DEC CNTR	183- 35
218♦	4017	HCC4017BF	SGSI	DEC CNTR	183- 36
219♦	4017	*HCC4017BK	SGSI	DEC CNTR	183- 37
220♦	4017	HCF4017BE	SGSI	DEC CNTR	183- 38

*Surface mount package style

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IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

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1♦	4017	HCF4017BF	SGSI	DEC CNTR	183- 39
2♦	4017	HEF4017	RTCF	DEC CNTR	183- 28
3♦	4017	HEF4017BD	MULB	DEC CNTR	183- 60
4♦	4017	HEF4017BD	PHIN	DEC CNTR	183- 60
5♦	4017	HEF4017BD	RTCF	DEC CNTR	183- 60
6♦	4017	HEF4017BD	VALG	DEC CNTR	183- 60
7♦	4017	HEF4017BP	MULB	DEC CNTR	183- 61
8♦	4017	HEF4017BP	PHIN	DEC CNTR	183- 61
9♦	4017	HEF4017BP	RTCF	DEC CNTR	183- 61
10♦	4017	HEF4017BP	VALG	DEC CNTR	183- 61
11♦	4017	HEF4017BPN	SIC	DEC CNTR	183- 29
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13♦	4017	*HEF4017BT	PHIN	DEC CNTR	183- 62
14♦	4017	*HEF4017BT	RTCF	DEC CNTR	183- 62
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16♦	4017	*HEF4017BTD	SIC	DEC CNTR	183- 63
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18♦	4017	HEF4017P	PHIN	DEC CNTR	183- 30
19♦	4017	HEF4017P	VALG	DEC CNTR	183- 30
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22♦	4017	MC4017L	MOTA	MOD-N CNTR	185- 48
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25♦	4017	MSM4017	OKIJ	DEC CNTR	183- 14
26♦	4017	MSM4017RS	OKIJ	DEC CNTR	182-105
27♦	4017	SCL4017B	SSS	DEC CNTR	183- 40
28♦	4017	TC4017BP	IMTM	DEC CNTR	182-110
29♦	4017	TC4017BP	TOSJ	DEC CNTR	182-110
30♦	4018	883C4018B	SSS	MOD-N CNTR	185- 91
31♦	4018	4018BDC	FSC	MOD-N CNTR	185- 71
32♦	4018	4018BDM	FSC	MOD-N CNTR	185- 72
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34♦	4018	*4018BFM	FSC	MOD-N CNTR	185- 74
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38♦	4018	CD4018AE	BELI	MOD-N CNTR	185- 77
39♦	4018	CD4018AE	RCA	MOD-N CNTR	185- 77
40♦	4018	CD4018AF	BELI	MOD-N CNTR	185- 78
41♦	4018	CD4018AF	RCA	MOD-N CNTR	185- 78
42♦	4018	CD4018BCJ	NSC	MOD-N CNTR	185- 79
43♦	4018	CD4018BCN	NSC	MOD-N CNTR	185- 80
44♦	4018	CD4018BD	RCA	MOD-N CNTR	185- 93
45♦	4018	CD4018BE	RCA	MOD-N CNTR	185- 94
46♦	4018	CD4018BF	RCA	MOD-N CNTR	185- 95
47♦	4018	CD4018BMJ	NSC	MOD-N CNTR	185- 81
48♦	4018	*CD4018BMW	NSC	MOD-N CNTR	185- 82
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50♦	4018	CM4018AE	SOD	MOD-N CNTR	185- 84
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53♦	4018	*HBC4018AK	SGSI	MOD-N CNTR	185- 87
54♦	4018	HBF4018AE	SGSI	MOD-N CNTR	185- 88
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59♦	4018	HCF4018BE	SGSI	MOD-N CNTR	185-106
60♦	4018	HCF4018BF	SGSI	MOD-N CNTR	185-107
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63♦	4018	HEF4018BD	PHIN	MOD-N CNTR	185- 99
64♦	4018	HEF4018BD	RTCF	MOD-N CNTR	185- 99
65♦	4018	HEF4018BD	VALG	MOD-N CNTR	185- 99
66♦	4018	HEF4018BP	MULB	MOD-N CNTR	185-100
67♦	4018	HEF4018BP	PHIN	MOD-N CNTR	185-100
68♦	4018	HEF4018BP	RTCF	MOD-N CNTR	185-100
69♦	4018	HEF4018BP	VALG	MOD-N CNTR	185-100
70♦	4018	HEF4018BPN	SIC	MOD-N CNTR	185- 97
71♦	4018	*HEF4018BT	MULB	MOD-N CNTR	185-101
72♦	4018	*HEF4018BT	PHIN	MOD-N CNTR	185-101
73♦	4018	*HEF4018BT	RTCF	MOD-N CNTR	185-101
74♦	4018	*HEF4018BT	VALG	MOD-N CNTR	185-101
75♦	4018	*HEF4018BTD	SIC	MOD-N CNTR	185-102
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78♦	4018	HEF4018P	VALG	MOD-N CNTR	185- 98
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82♦	4018	MC4018P	MOTA	MOD-N CNTR	185- 52
83♦	4018	SCL4018B	SSS	MOD-N CNTR	185- 90
84♦	4018	TC4018BP	IMTM	MOD-N CNTR	185- 57
85♦	4018	TC4018BP	TOSJ	MOD-N CNTR	185- 57
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87♦	4019	BCL4019B	SSS	AND-OR GTE	84- 86
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89♦	4019	CD4019AE(2)	RCA	AND-OR GTE	84- 79
90♦	4019	*CD4019AF(2)	RCA	AND-OR GTE	84- 74
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97♦	4019	CM4019AE	SOD	AND-OR GTE	84- 80
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99♦	4019	HCC4019BF	SGSI	AND-OR GTE	84- 68
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114♦	4020	*4020BFC	FSC	COUNTER	171- 41
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116♦	4020	4020BPC	FSC	COUNTER	171- 43
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119♦	4020	CD4020AE	RCA	COUNTER	171- 6
120♦	4020	CD4020AF	RCA	COUNTER	171- 7
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126♦	4020	CD4020BMJ	NSC	COUNTER	170-102
127♦	4020	*CD4020BMW	NSC	COUNTER	170-103
128♦	4020	CM4020AD	SOD	COUNTER	171- 16
129♦	4020	CM4020AE	SOD	COUNTER	171- 17
130♦	4020	HBC4020AD	SGSI	COUNTER	171- 8
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132♦	4020	*HBC4020AK	SGSI	COUNTER	171- 10
133♦	4020	HBF4020AE	SGSI	COUNTER	171- 11
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175♦	4022	CD4022AD	RCA	OCTAL CNTR	184- 85
176♦	4022	CD4022AE	RCA	OCTAL CNTR	184- 86
177♦	4022	CD4022AF	RCA	OCTAL CNTR	184- 87
178♦	4022	CD4022BCJ	NSC	OCTAL CNTR	184- 79
179♦	4022	CD4022BCN	NSC	OCTAL CNTR	184- 80
180♦	4022	CD4022BD	RCA	OCTAL CNTR	184- 88
181♦	4022	CD4022BE	RCA	OCTAL CNTR	184- 89
182♦	4022	CD4022BF	RCA	OCTAL CNTR	184- 90
183♦	4022	CD4022BMJ	NSC	OCTAL CNTR	184- 81
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98♦	4024	HEF4024BD	PHIN	COUNTER	168- 59
99♦	4024	HEF4024BD	RTCF	COUNTER	168- 59
100♦	4024	HEF4024BD	VALG	COUNTER	168- 59
101♦	4024	HEF4024BP	MULB	COUNTER	168- 58
102♦	4024	HEF4024BP	PHIN	COUNTER	168- 58
103♦	4024	HEF4024BP	RTCF	COUNTER	168- 58
104♦	4024	HEF4024BP	VALG	COUNTER	168- 58
105♦	4024	HEF4024BPN	SIC	COUNTER	168- 68
106♦	4024	*HEF4024BT	MULB	COUNTER	168- 60
107♦	4024	*HEF4024BT	PHIN	COUNTER	168- 60
108♦	4024	*HEF4024BT	RTCF	COUNTER	168- 60
109♦	4024	*HEF4024BT	VALG	COUNTER	168- 60
110♦	4024	*HEF4024BTD	SIC	COUNTER	168- 92
111♦	4024	HEF4024P	MULB	COUNTER	168- 88
112♦	4024	HEF4024P	PHIN	COUNTER	168- 88
113♦	4024	HEF4024P	VALG	COUNTER	168- 88
114♦	4024	M4024BP	MITJ	COUNTER	168- 17
115♦	4024	*MC4024F	MOTA	CLOCK/MV	188- 15
116♦	4024	MC4024L	MOTA	CLOCK/MV	192- 6
117♦	4024	MC4024L,P	MOTA	CLOCK/MV	188- 16
118♦	4024	MC4024P	MOTA	CLOCK/MV	192- 7
119♦	4024	MN4024B	MATJ	COUNTER	168- 93
120♦	4024	MSM4024RS	OKIJ	COUNTER	168- 19
121♦	4024	SCL4024B	SSS	COUNTER	168- 40
122♦	4024	TC4024BP	IMTM	COUNTER	168- 18
123♦	4024	TC4024BP	TOSJ	COUNTER	168- 18
124♦	4025	883C4025B	SSS	NOR GATE	116-100
125♦	4025	4025A	MULB	NOR GATE	117- 17
126♦	4025	4025A	PHIN	NOR GATE	117- 17
127♦	4025	4025BDC	FSC	NOR GATE	116- 77
128♦	4025	4025BDM	FSC	NOR GATE	116- 78
129♦	4025	*4025BFC	FSC	NOR GATE	116- 79
130♦	4025	*4025BFM	FSC	NOR GATE	116- 80
131♦	4025	4025BPC	FSC	NOR GATE	116- 81
132♦	4025	BCL4025B	SSS	NOR GATE	116-101
133♦	4025	CD4025AD	RCA	NOR GATE	116- 87
134♦	4025	CD4025AF	RCA	NOR GATE	116- 88
135♦	4025	CD4025BCJ	NSC	NOR GATE	116- 96
136♦	4025	CD4025BCN	NSC	NOR GATE	116- 97
137♦	4025	CD4025BD	RCA	NOR GATE	117- 13
138♦	4025	CD4025BE	RCA	NOR GATE	117- 14
139♦	4025	CD4025BF	RCA	NOR GATE	117- 15
140♦	4025	CD4025BMJ	NSC	NOR GATE	116- 98
141♦	4025	*CD4025BMW	NSC	NOR GATE	116- 99
142♦	4025	CD4025CJ	NSC	NOR GATE	116- 91
143♦	4025	CD4025CN	NSC	NOR GATE	116- 92
144♦	4025	CD4025MJ	NSC	NOR GATE	116- 69
145♦	4025	*CD4025MW	NSC	NOR GATE	116- 70
146♦	4025	CM4025AD	SOD	NOR GATE	116- 71
147♦	4025	CM4025AE	SOD	NOR GATE	116- 93
148♦	4025	HBC4025AD	SGSI	NOR GATE	116- 72
149♦	4025	HBC4025AF	SGSI	NOR GATE	116- 73
150♦	4025	*HBC4025AK	SGSI	NOR GATE	116- 74
151♦	4025	HBF4025AE	SGSI	NOR GATE	116- 94
152♦	4025	HBF4025AF	SGSI	NOR GATE	116- 95
153♦	4025	HCC4025BD	SGSI	NOR GATE	116-102
154♦	4025	HCC4025BF	SGSI	NOR GATE	116-103
155♦	4025	*HCC4025BK	SGSI	NOR GATE	116-104
156♦	4025	HCF4025BE	SGSI	NOR GATE	116-105
157♦	4025	HCF4025BF	SGSI	NOR GATE	116-106
158♦	4025	HEF4025	RTCF	NOR GATE	116- 53
159♦	4025	HEF4025BD	MULB	NOR GATE	116- 82
160♦	4025	HEF4025BD	PHIN	NOR GATE	116- 82
161♦	4025	HEF4025BD	RTCF	NOR GATE	116- 82
162♦	4025	HEF4025BD	VALG	NOR GATE	116- 82
163♦	4025	HEF4025BP	MULB	NOR GATE	116- 83
164♦	4025	HEF4025BP	PHIN	NOR GATE	116- 83
165♦	4025	HEF4025BP	RTCF	NOR GATE	116- 83
166♦	4025	HEF4025BP	VALG	NOR GATE	116- 83
167♦	4025	HEF4025BPN	SIC	NOR GATE	116- 54
168♦	4025	*HEF4025BT	MULB	NOR GATE	116- 84
169♦	4025	*HEF4025BT	PHIN	NOR GATE	116- 84
170♦	4025	*HEF4025BT	RTCF	NOR GATE	116- 84
171♦	4025	*HEF4025BT	VALG	NOR GATE	116- 84
172♦	4025	*HEF4025BTD	SIC	NOR GATE	116- 55
173♦	4025	HEF4025P	MULB	NOR GATE	116- 89
174♦	4025	HEF4025P	PHIN	NOR GATE	116- 89
175♦	4025	HEF4025P	VALG	NOR GATE	116- 89
176♦	4025	LC4025B	TSAJ	NOR GATE	117- 19
177♦	4025	M4025BP	MITJ	NOR GATE	117- 22
178♦	4025	MN4025B	MATJ	NOR GATE	116- 90
179♦	4025	MSM4025	OKIJ	NOR GATE	117- 18
180♦	4025	MSM4025RS	OKIJ	NOR GATE	117- 21
181♦	4025	SCL4025B	SSS	NOR GATE	117- 16
182♦	4025	TC4025BP	IMTM	NOR GATE	117- 20
183♦	4025	TC4025BP	TOSJ	NOR GATE	117- 20
184♦	4025	*UPD4025BG	NECJ	NOR GATE	116-109
185♦	4026	CD4026AD	RCA	DEC CNTR	183- 92
186♦	4026	CD4026AE	RCA	DEC CNTR	183- 93
187♦	4026	CD4026AF	RCA	DEC CNTR	183- 94
188♦	4026	CD4026BD	RCA	DEC CNTR	184- 2
189♦	4026	CD4026BE	RCA	DEC CNTR	184- 3
190♦	4026	CD4026BF	RCA	DEC CNTR	184- 4
191♦	4026	CM4026AD	SOD	DEC CNTR	183- 98
192♦	4026	CM4026AE	SOD	DEC CNTR	183- 99
193♦	4026	HBC4026AD	SGSI	DEC CNTR	183-102
194♦	4026	HBC4026AF	SGSI	DEC CNTR	183-103
195♦	4026	*HBC4026AK	SGSI	DEC CNTR	183-104
196♦	4026	HBF4026AE	SGSI	DEC CNTR	183-108
197♦	4026	HBF4026AF	SGSI	DEC CNTR	183-109
198♦	4026	HCC4026BD	SGSI	DEC CNTR	184- 9
199♦	4026	HCC4026BF	SGSI	DEC CNTR	184- 10
200♦	4026	*HCC4026BK	SGSI	DEC CNTR	184- 11
201♦	4026	HCF4026BE	SGSI	DEC CNTR	184- 15
202♦	4026	HCF4026BF	SGSI	DEC CNTR	184- 16
203♦	4026	MC4026L	MOTA	ADDER	198- 50
204♦	4026	MC4026P	MOTA	ADDER	198- 51
205♦	4026	SCL4026AB	SSS	DEC CNTR	183- 90
206	4027	883C4027B	SSS	JK FL-FLOP	67- 78
207♦	4027	4027B	MULB	JK FL-FLOP	66- 67
208♦	4027	4027B	PHIN	JK FL-FLOP	66- 67
209♦	4027	4027BDC	FSC	JK FL-FLOP	67- 73
210♦	4027	4027BDM	FSC	JK FL-FLOP	67- 74
211	4027	*4027BFC	FSC	JK FL-FLOP	67- 75
212	4027	*4027BFM	FSC	JK FL-FLOP	67- 76
213	4027	4027BPC	FSC	JK FL-FLOP	67- 77
214	4027	BCL4027B	SSS	JK FL-FLOP	67- 79
215	4027	CD4027AD	RCA	JK FL-FLOP	67- 55
216	4027	CD4027AE	RCA	JK FL-FLOP	67- 56
217	4027	CD4027AF	RCA	JK FL-FLOP	67- 57
218♦	4027	CD4027BCJ	NSC	JK FL-FLOP	67- 51
219♦	4027	CD4027BCN	NSC	JK FL-FLOP	67- 52
220♦	4027	CD4027BD	RCA	JK FL-FLOP	68- 23

*Surface mount package style

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2♦	4027	CD4027BF	RCA	JK FL-FLOP	68- 25
3♦	4027	*CD4027BK	RCA	JK FL-FLOP	68- 26
4♦	4027	CD4027BMJ	NSC	JK FL-FLOP	67- 53
5	4027	*CD4027BMW	NSC	JK FL-FLOP	67- 54
6♦	4027	CM4027AD	SOD	JK FL-FLOP	67- 58
7♦	4027	CM4027AE	SOD	JK FL-FLOP	67- 59
8	4027	HBC4027AD	SGSI	JK FL-FLOP	67- 60
9	4027	HBC4027AF	SGSI	JK FL-FLOP	67- 61
10	4027	*HBC4027AK	SGSI	JK FL-FLOP	67- 62
11	4027	HBF4027AE	SGSI	JK FL-FLOP	67- 63
12	4027	HBF4027AF	SGSI	JK FL-FLOP	67- 64
13♦	4027	HCC4027BD	SGSI	JK FL-FLOP	67- 65
14♦	4027	HCC4027BF	SGSI	JK FL-FLOP	67- 66
15	4027	*HCC4027BK	SGSI	JK FL-FLOP	67- 67
16♦	4027	HCF4027BE	SGSI	JK FL-FLOP	67- 68
17♦	4027	HCF4027BF	SGSI	JK FL-FLOP	67- 69
18	4027	HEF4027	RTCF	JK FL-FLOP	67- 92
19♦	4027	HEF4027BD	MULB	JK FL-FLOP	68- 4
20♦	4027	HEF4027BD	PHIN	JK FL-FLOP	68- 4
21♦	4027	HEF4027BD	RTCF	JK FL-FLOP	68- 4
22♦	4027	HEF4027BD	VALG	JK FL-FLOP	68- 4
23♦	4027	HEF4027BP	MULB	JK FL-FLOP	68- 5
24♦	4027	HEF4027BP	PHIN	JK FL-FLOP	68- 5
25♦	4027	HEF4027BP	RTCF	JK FL-FLOP	68- 5
26♦	4027	HEF4027BP	VALG	JK FL-FLOP	68- 5
27♦	4027	HEF4027BPN	SIC	JK FL-FLOP	67- 93
28♦	4027	*HEF4027BT	PHIN	JK FL-FLOP	68- 6
29	4027	*HEF4027BTD	SIC	JK FL-FLOP	68-109
30♦	4027	HEF4027P	MULB	JK FL-FLOP	68- 27
31♦	4027	HEF4027P	PHIN	JK FL-FLOP	68- 27
32♦	4027	HEF4027P	VALG	JK FL-FLOP	68- 27
33♦	4027	LC4027B	TSAJ	JK FL-FLOP	66- 94
34♦	4027	M4027BP	MITJ	JK FL-FLOP	67- 35
35♦	4027	MN4027B	MATJ	JK FL-FLOP	69- 2
36♦	4027	MSM4027	OKIJ	JK FL-FLOP	67- 70
37♦	4027	MSM4027RS	OKIJ	JK FL-FLOP	67- 45
38♦	4027	SCL4027B	SSS	JK FL-FLOP	67- 50
39♦	4027	TC4027BP	IMTM	JK FL-FLOP	67- 36
40♦	4027	TC4027BP	TOSJ	JK FL-FLOP	67- 36
41	4027	*UPD4027BG	NECJ	JK FL-FLOP	67-107
42	4028	883C4028B	SSS	DECODER	126- 34
43♦	4028	4028BDC	FSC	DECODER	126- 36
44♦	4028	4028BDM	FSC	DECODER	126- 37
45	4028	*4028BFC	FSC	DECODER	126- 38
46	4028	*4028BFM	FSC	DECODER	126- 39
47	4028	4028BPC	FSC	DECODER	126- 40
48	4028	BCL4028B	SSS	DECODER	126- 52
49▼	4028	BU4028B	RHM	DECODER	126- 53
50▼	4028	*BU4028BF	RHM	DECODER	126- 54
51	4028	CD4028AD	RCA	DECODER	126- 61
52	4028	CD4028AE	RCA	DECODER	126- 62
53	4028	CD4028AF	RCA	DECODER	126- 63
54♦	4028	CD4028BCJ(2)	NSC	DECODER	126- 64
55♦	4028	CD4028BCN(2)	NSC	DECODER	126- 65
56	4028	CD4028BD	RCA	DECODER	126- 66
57	4028	CD4028BE	RCA	DECODER	126- 67
58	4028	CD4028BF	RCA	DECODER	126- 68
59♦	4028	CD4028BMJ(2)	NSC	DECODER	126- 69
60	4028	*CD4028BMW(2)	NSC	DECODER	126- 70
61♦	4028	CM4028AD	SOD	DECODER	126- 71
62♦	4028	CM4028AE	SOD	DECODER	126- 72
63	4028	HBC4028AD	SGSI	DECODER	126- 86
64	4028	HBC4028AF	SGSI	DECODER	126- 87
65	4028	*HBC4028AK	SGSI	DECODER	126- 88
66	4028	HBF4028AE	SGSI	DECODER	126- 89
67	4028	HBF4028AF	SGSI	DECODER	126- 90
68♦	4028	HCC4028BD	SGSI	DECODER	126- 91
69♦	4028	HCC4028BF	SGSI	DECODER	126- 92
70	4028	*HCC4028BK	SGSI	DECODER	126- 93
71♦	4028	HCF4028BE	SGSI	DECODER	126- 94
72♦	4028	HCF4028BF	SGSI	DECODER	126- 95
73	4028	HEF4028	RTCF	DECODER	126-101
74♦	4028	HEF4028B	VALG	DECODER	126-102
75♦	4028	HEF4028BD	PHIN	DECODER	126-103
76♦	4028	HEF4028BP	PHIN	DECODER	126-104
77♦	4028	HEF4028BPN	SIC	DECODER	126-105
78♦	4028	*HEF4028BT	PHIN	DECODER	126-106
79♦	4028	*HEF4028BTD	SIC	DECODER	126-107
80♦	4028	HEF4028P	MULB	DECODER	126-108
81♦	4028	HEF4028P	PHIN	DECODER	126-108
82♦	4028	HEF4028P	VALG	DECODER	126-108
83♦	4028	LC4028B	TSAJ	DECODER	127- 1
84♦	4028	M4028BP(2)	MITJ	DECODER	127- 12
85♦	4028	*MC4028F	MOTA	ADDER	198- 52
86♦	4028	MC4028L	MOTA	ADDER	198- 53
87♦	4028	MC4028P	MOTA	ADDER	198- 54
88♦	4028	MN4028B	MATJ	DECODER	127- 36
89♦	4028	MSM4028	OKIJ	DECODER	127- 38
90♦	4028	MSM4028RS	OKIJ	DECODER	127- 39
91♦	4028	SCL4028B	SSS	DECODER	127- 70
92♦	4028	TC4028BP	IMTM	DECODER	127- 81
93♦	4028	TC4028BP	TOSJ	DECODER	127- 81
94	4028	*UPD4028BG	NECJ	DECODER	127- 83
95♦	4029	883C4029B	SSS	HEX CNTR	160- 73
96♦	4029	4029BDC	FSC	HEX CNTR	160- 23
97♦	4029	4029BDM	FSC	HEX CNTR	160- 24
98♦	4029	*4029BFC	FSC	HEX CNTR	160- 25
99♦	4029	*4029BFM	FSC	HEX CNTR	160- 26
100♦	4029	4029BPC	FSC	HEX CNTR	160- 27
101♦	4029	BCL4029B	SSS	HEX CNTR	160- 76
102♦	4029	CD4029AD	RCA	HEX CNTR	160- 5
103♦	4029	CD4029AE	RCA	HEX CNTR	160- 6
104♦	4029	CD4029AF	RCA	HEX CNTR	160- 7
105♦	4029	CD4029BCJ	NSC	HEX CNTR	159-106
106♦	4029	CD4029BCN	NSC	HEX CNTR	159-107
107♦	4029	CD4029BD	RCA	HEX CNTR	160- 39
108♦	4029	CD4029BE	RCA	HEX CNTR	160- 40
109♦	4029	CD4029BF	RCA	HEX CNTR	160- 41
110♦	4029	CD4029BMJ	NSC	HEX CNTR	159-108
111♦	4029	*CD4029BMW	NSC	HEX CNTR	159-109
112♦	4029	CM4029AD	SOD	HEX CNTR	160- 12
113♦	4029	CM4029AE	SOD	HEX CNTR	160- 13
114♦	4029	HBC4029AD	SGSI	HEX CNTR	160- 14
115♦	4029	HBC4029AF	SGSI	HEX CNTR	160- 15
116♦	4029	*HBC4029AK	SGSI	HEX CNTR	160- 16
117♦	4029	HBF4029AE	SGSI	HEX CNTR	160- 17
118♦	4029	HBF4029AF	SGSI	HEX CNTR	160- 18
119♦	4029	HCC4029BD	SGSI	HEX CNTR	160- 79
120♦	4029	HCC4029BF	SGSI	HEX CNTR	160- 80
121♦	4029	*HCC4029BK	SGSI	HEX CNTR	160- 81
122♦	4029	HCF4029BE	SGSI	HEX CNTR	160- 85
123♦	4029	HCF4029BF	SGSI	HEX CNTR	160- 86
124♦	4029	HEF4029	RTCF	HEX CNTR	161- 62
125♦	4029	HEF4029B	VALG	HEX CNTR	160- 92
126♦	4029	HEF4029BD	MULB	HEX CNTR	162- 15
127♦	4029	HEF4029BD	PHIN	HEX CNTR	162- 15
128♦	4029	HEF4029BD	RTCF	HEX CNTR	162- 15
129♦	4029	HEF4029BD	VALG	HEX CNTR	162- 15
130♦	4029	HEF4029BP	MULB	HEX CNTR	162- 16
131♦	4029	HEF4029BP	PHIN	HEX CNTR	162- 16
132♦	4029	HEF4029BP	RTCF	HEX CNTR	162- 16
133♦	4029	HEF4029BP	VALG	HEX CNTR	162- 16
134♦	4029	HEF4029BPN	SIC	HEX CNTR	161- 63
135♦	4029	*HEF4029BT	MULB	HEX CNTR	162- 17
136♦	4029	*HEF4029BT	PHIN	HEX CNTR	162- 17
137♦	4029	*HEF4029BT	RTCF	HEX CNTR	162- 17
138♦	4029	*HEF4029BT	VALG	HEX CNTR	162- 17
139♦	4029	*HEF4029BTD	SIC	HEX CNTR	163- 11
140♦	4029	HEF4029P	MULB	HEX CNTR	160- 93
141♦	4029	HEF4029P	PHIN	HEX CNTR	160- 93
142♦	4029	HEF4029P	VALG	HEX CNTR	160- 93
143♦	4029	M4029BP	MITJ	HEX CNTR	159- 94
144♦	4029	MN4029B	MATJ	HEX CNTR	163- 12
145♦	4029	MSM4029RS	OKIJ	HEX CNTR	159- 92
146♦	4029	SCL4029B	SSS	HEX CNTR	160- 33
147♦	4029	TC4029BP	IMTM	HEX CNTR	159- 95
148♦	4029	TC4029BP	TOSJ	HEX CNTR	159- 95
149♦	4029	*UPD4029BG	NECJ	HEX CNTR	160- 72
150♦	4030	883C4030B	SSS	EX-OR GATE	91- 48
151♦	4030	4030BDC	FSC	EX-OR GATE	91- 50
152♦	4030	4030BDM	FSC	EX-OR GATE	91- 51
153♦	4030	*4030BFC	FSC	EX-OR GATE	94- 27
154♦	4030	*4030BFM	FSC	EX-OR GATE	94- 28
155♦	4030	4030BPC	FSC	EX-OR GATE	91- 52
156♦	4030	BCL4030B	SSS	EX-OR GATE	91- 56
157▼	4030	BU4030B	RHM	EX-OR GATE	91- 58
158▼	4030	*BU4030BF	RHM	EX-OR GATE	91- 59
159♦	4030	CD4030AD	RCA	EX-OR GATE	91- 66
160♦	4030	CD4030AE	BELI	EX-OR GATE	91- 67
161♦	4030	CD4030AE	RCA	EX-OR GATE	91- 67
162♦	4030	CD4030AF	BELI	EX-OR GATE	91- 68
163♦	4030	CD4030AF	RCA	EX-OR GATE	91- 68
164♦	4030	CD4030BD	RCA	EX-OR GATE	91- 69
165♦	4030	CD4030BE	BELI	EX-OR GATE	91- 70
166♦	4030	CD4030BE	RCA	EX-OR GATE	91- 70
167♦	4030	CD4030BF	BELI	EX-OR GATE	91- 71
168♦	4030	CD4030BF	RCA	EX-OR GATE	91- 71
169♦	4030	CD4030CJ	NSC	EX-OR GATE	91- 72
170♦	4030	CD4030CN	NSC	EX-OR GATE	91- 73
171♦	4030	CD4030MJ	NSC	EX-OR GATE	91- 74
172♦	4030	*CD4030MW	NSC	EX-OR GATE	94- 38
173♦	4030	CM4030AD	SOD	EX-OR GATE	91- 81
174♦	4030	CM4030AE	SOD	EX-OR GATE	91- 82
175♦	4030	HBC4030AD	SGSI	EX-OR GATE	91-104
176♦	4030	HBC4030AF	SGSI	EX-OR GATE	91-105
177♦	4030	*HBC4030AK	SGSI	EX-OR GATE	94- 39
178♦	4030	HBF4030AE	SGSI	EX-OR GATE	91-106
179♦	4030	HBF4030AF	SGSI	EX-OR GATE	91-107
180♦	4030	HCC4030BD	SGSI	EX-OR GATE	91-108
181♦	4030	HCC4030BF	SGSI	EX-OR GATE	91-109
182♦	4030	*HCC4030BK	SGSI	EX-OR GATE	94- 19
183♦	4030	HCF4030BE	SGSI	EX-OR GATE	92- 2
184♦	4030	HCF4030BF	SGSI	EX-OR GATE	92- 3
185♦	4030	HEF4030	RTCF	EX-OR GATE	92- 6
186♦	4030	HEF4030BD	MULB	EX-OR GATE	94- 31
187♦	4030	HEF4030BD	PHIN	EX-OR GATE	94- 31
188♦	4030	HEF4030BD	RTCF	EX-OR GATE	94- 31
189♦	4030	HEF4030BD	VALG	EX-OR GATE	94- 31
190♦	4030	HEF4030BP	MULB	EX-OR GATE	94- 32
191♦	4030	HEF4030BP	PHIN	EX-OR GATE	94- 32
192♦	4030	HEF4030BP	RTCF	EX-OR GATE	94- 32
193♦	4030	HEF4030BP	VALG	EX-OR GATE	94- 32
194♦	4030	HEF4030BPN	SIC	EX-OR GATE	94- 24
195♦	4030	*HEF4030BT	MULB	EX-OR GATE	94- 33
196♦	4030	*HEF4030BT	PHIN	EX-OR GATE	94- 33
197♦	4030	*HEF4030BT	RTCF	EX-OR GATE	94- 33
198♦	4030	*HEF4030BT	VALG	EX-OR GATE	94- 33
199♦	4030	*HEF4030BTD	SIC	EX-OR GATE	92- 7
200♦	4030	HEF4030P	MULB	EX-OR GATE	92- 8
201♦	4030	HEF4030P	PHIN	EX-OR GATE	92- 8
202♦	4030	HEF4030P	VALG	EX-OR GATE	92- 8
203♦	4030	M4030BP	MITJ	EX-OR GATE	92- 20
204♦	4030	MC4030L	MOTA	ADDER	198- 55
205♦	4030	MC4030P	MOTA	ADDER	198- 56
206♦	4030	MN4030B	MATJ	EX-OR GATE	92- 52
207♦	4030	MSM4030	OKIJ	EX-OR GATE	92- 56
208♦	4030	MSM4030RS	OKIJ	EX-OR GATE	92- 57
209♦	4030	SCL4030B	SSS	EX-OR GATE	92- 73
210♦	4030	TC4030BP	IMTM	EX-OR GATE	92- 96
211♦	4030	TC4030BP	TOSJ	EX-OR GATE	92- 96
212♦	4030	*UPD4030BG	NECJ	EX-OR GATE	94- 41
213	4032	CD4032AD	RCA	ADDER	199- 10
214	4032	CD4032AE	RCA	ADDER	199- 22
215	4032	CD4032AF	RCA	ADDER	199- 11
216	4032	CD4032BD	RCA	ADDER	199- 4
217	4032	CD4032BE	RCA	ADDER	199- 5
218	4032	CD4032BF	RCA	ADDER	199- 6
219♦	4032	CM4032AD	SOD	ADDER	199- 14
220♦	4032	CM4032AE	SOD	ADDER	199- 24

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

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1♦	4032	HBC4032AD	SGSI	ADDER	199- 16
2♦	4032	HBC4032AF	SGSI	ADDER	199- 17
3	4032	*HBC4032AK	SGSI	ADDER	199- 18
4♦	4032	HBF4032AE	SGSI	ADDER	199- 26
5♦	4032	HBF4032AF	SGSI	ADDER	199- 27
6♦	4032	HCC4032BD	SGSI	ADDER	199- 30
7♦	4032	HCC4032BF	SGSI	ADDER	199- 31
8	4032	*HCC4032BK	SGSI	ADDER	199- 32
9♦	4032	HCF4032BE	SGSI	ADDER	199- 36
10♦	4032	HCF4032BF	SGSI	ADDER	199- 37
11	4032	MC4032F	MOTA	DECODER	125- 56
12	4032	MC4032L	MOTA	DECODER	125- 57
13	4032	MC4032P	MOTA	DECODER	125- 58
14♦	4032	TC4032BP	IMTM	ADDER	198- 97
15♦	4032	TC4032BP	TOSJ	ADDER	198- 97
16♦	4033	CD4033AD	RCA	DEC CNTR	183- 95
17♦	4033	CD4033AE	RCA	DEC CNTR	183- 96
18♦	4033	CD4033AF	RCA	DEC CNTR	183- 97
19♦	4033	CD4033BD	RCA	DEC CNTR	184- 5
20♦	4033	CD4033BE	RCA	DEC CNTR	184- 6
21♦	4033	CD4033BF	RCA	DEC CNTR	184- 7
22♦	4033	CD4033BH	RCA	DEC CNTR	184- 8
23♦	4033	CM4033AD	SOD	DEC CNTR	183-100
24♦	4033	CM4033AE	SOD	DEC CNTR	183-101
25♦	4033	HBC4033AD	SGSI	DEC CNTR	183-105
26♦	4033	HBC4033AF	SGSI	DEC CNTR	183-106
27♦	4033	*HBC4033AK	SGSI	DEC CNTR	183-107
28♦	4033	HBF4033AE	SGSI	DEC CNTR	183-110
29♦	4033	HBF4033AF	SGSI	DEC CNTR	184- 1
30♦	4033	HCC4033BD	SGSI	DEC CNTR	184- 12
31♦	4033	HCC4033BF	SGSI	DEC CNTR	184- 13
32♦	4033	*HCC4033BK	SGSI	DEC CNTR	184- 14
33♦	4033	HCF4033BE	SGSI	DEC CNTR	184- 17
34♦	4033	HCF4033BF	SGSI	DEC CNTR	184- 18
35♦	4033	SCL4033AB	SSS	DEC CNTR	183- 91
36♦	4035	MC4035L	MOTA	4-BIT LCH	232- 11
37♦	4035	MC4035P	MOTA	4-BIT LCH	232- 12
38♦	4037	CM4037AD	SOD	AND-OR GTE	85- 12
39♦	4037	CM4037AE	SOD	AND-OR GTE	85- 13
40♦	4037	HBC4037AD	SGSI	AND-OR GTE	85- 14
41♦	4037	HBC4037AF	SGSI	AND-OR GTE	85- 15
42♦	4037	*HBC4037AK	SGSI	AND-OR GTE	85- 16
43♦	4037	HBF4037AE	SGSI	AND-OR GTE	85- 17
44♦	4037	HBF4037AF	SGSI	AND-OR GTE	85- 18
45♦	4037	MC4037L	MOTA	4-BIT LCH	231- 32
46♦	4037	MC4037P	MOTA	4-BIT LCH	231- 33
47	4038	CD4038AD	RCA	ADDER	199- 12
48	4038	CD4038AE	RCA	ADDER	199- 23
49	4038	CD4038AF	RCA	ADDER	199- 13
50	4038	CD4038BD	RCA	ADDER	199- 7
51	4038	CD4038BE	RCA	ADDER	199- 8
52	4038	CD4038BF	RCA	ADDER	199- 9
53♦	4038	CM4038AD	SOD	ADDER	199- 15
54♦	4038	CM4038AE	SOD	ADDER	199- 25
55♦	4038	HBC4038AD	SGSI	ADDER	199- 19
56♦	4038	HBC4038AF	SGSI	ADDER	199- 20
57	4038	*HBC4038AK	SGSI	ADDER	199- 21
58♦	4038	HBF4038AE	SGSI	ADDER	199- 28
59♦	4038	HBF4038AF	SGSI	ADDER	199- 29
60♦	4038	HCC4038BD	SGSI	ADDER	199- 33
61♦	4038	HCC4038BF	SGSI	ADDER	199- 34
62	4038	*HCC4038BK	SGSI	ADDER	199- 35
63♦	4038	HCF4038BE	SGSI	ADDER	199- 38
64♦	4038	HCF4038BF	SGSI	ADDER	199- 39
65♦	4038	MC4038P	MOTA	DECODER	125- 29
66♦	4038	TC4038BP	IMTM	ADDER	198- 98
67♦	4038	TC4038BP	TOSJ	ADDER	198- 98
68♦	4040	883C4040B	SSS	COUNTER	170- 20
69♦	4040	4040BDC	FSC	COUNTER	170- 35
70♦	4040	4040BDM	FSC	COUNTER	170- 36
71♦	4040	*4040BFC	FSC	COUNTER	170- 37
72♦	4040	*4040BFM	FSC	COUNTER	170- 38
73♦	4040	4040BPC	FSC	COUNTER	170- 39
74♦	4040	BCL4040B	SSS	COUNTER	170- 21
75♦	4040	CD4040AD	RCA	COUNTER	170- 9
76♦	4040	CD4040AE	RCA	COUNTER	170- 10
77♦	4040	CD4040AF	RCA	COUNTER	170- 11
78♦	4040	CD4040BCJ	NSC	COUNTER	169-109
79♦	4040	CD4040BCN	NSC	COUNTER	169-110
80♦	4040	CD4040BD	RCA	COUNTER	170- 12
81♦	4040	CD4040BE	RCA	COUNTER	170- 13
82♦	4040	CD4040BF	RCA	COUNTER	170- 14
83♦	4040	CD4040BMJ	NSC	COUNTER	170- 1
84♦	4040	*CD4040BMW	NSC	COUNTER	170- 2
85♦	4040	CM4040AD	SOD	COUNTER	170- 15
86♦	4040	CM4040AE	SOD	COUNTER	170- 16
87♦	4040	HBC4040AD	SGSI	COUNTER	170- 3
88♦	4040	HBC4040AF	SGSI	COUNTER	170- 4
89♦	4040	*HBC4040AK	SGSI	COUNTER	170- 5
90♦	4040	HBF4040AE	SGSI	COUNTER	170- 6
91♦	4040	HBF4040AF	SGSI	COUNTER	170- 7
92♦	4040	HCC4040BD	SGSI	COUNTER	170- 52
93♦	4040	HCC4040BF	SGSI	COUNTER	170- 53
94♦	4040	*HCC4040BK	SGSI	COUNTER	170- 54
95♦	4040	HCF4040BE	SGSI	COUNTER	170- 55
96♦	4040	HCF4040BF	SGSI	COUNTER	170- 56
97♦	4040	HEF4040	RTCF	COUNTER	170- 41
98♦	4040	HEF4040BD	MULB	COUNTER	169-101
99♦	4040	HEF4040BD	PHIN	COUNTER	169-101
100♦	4040	HEF4040BD	RTCF	COUNTER	169-101
101♦	4040	HEF4040BD	VALG	COUNTER	169-101
102♦	4040	HEF4040BP	MULB	COUNTER	169-102
103♦	4040	HEF4040BP	PHIN	COUNTER	169-102
104♦	4040	HEF4040BP	RTCF	COUNTER	169-102
105♦	4040	HEF4040BP	VALG	COUNTER	169-102
106♦	4040	HEF4040BPN	SIC	COUNTER	170- 42
107♦	4040	*HEF4040BT	MULB	COUNTER	169-103
108♦	4040	*HEF4040BT	PHIN	COUNTER	169-103
109♦	4040	*HEF4040BT	RTCF	COUNTER	169-103
110♦	4040	*HEF4040BT	VALG	COUNTER	169-103
111♦	4040	*HEF4040BTD	SIC	COUNTER	170- 66
112♦	4040	HEF4040P	MULB	COUNTER	170- 59
113♦	4040	HEF4040P	PHIN	COUNTER	170- 59
114♦	4040	HEF4040P	VALG	COUNTER	170- 59
115♦	4040	LC4040B	TSAJ	COUNTER	170- 8
116♦	4040	M4040BP	MITJ	COUNTER	169-106
117♦	4040	MC4040P	MOTA	DECODER	126- 19
118♦	4040	MN4040B	MATJ	COUNTER	170- 67
119♦	4040	MSM4040	OKIJ	COUNTER	170- 19
120♦	4040	MSM4040RS	OKIJ	COUNTER	169-108
121♦	4040	SCL4040B	SSS	COUNTER	166- 25
122♦	4040	TC4040BP	IMTM	COUNTER	169-107
123♦	4040	TC4040BP	TOSJ	COUNTER	169-107
124♦	4041	SDA4041	SIEG	FREQ DIVID	195- 7
125♦	4042	883C4042B	SSS	4-BIT LCH	232- 37
126♦	4042	4042BDC	FSC	4-BIT LCH	232- 29
127♦	4042	4042BDM	FSC	4-BIT LCH	232- 30
128♦	4042	*4042BFC	FSC	4-BIT LCH	232- 31
129♦	4042	*4042BFM	FSC	4-BIT LCH	232- 32
130♦	4042	4042BPC	FSC	4-BIT LCH	232- 33
131♦	4042	BCL4042B	SSS	4-BIT LCH	232- 43
132▼	4042	BU4042B	RHM	4-BIT LCH	230- 11
133▼	4042	*BU4042BF	RHM	4-BIT LCH	230- 12
134♦	4042	CD4042AD(1)	RCA	4-BIT LCH	232- 98
135♦	4042	CD4042AE(1)	RCA	4-BIT LCH	233- 4
136♦	4042	CD4042AF(1)	RCA	4-BIT LCH	232- 99
137♦	4042	CD4042BCJ	NSC	4-BIT LCH	232- 61
138♦	4042	CD4042BCN	NSC	4-BIT LCH	232- 62
139♦	4042	CD4042BD	RCA	4-BIT LCH	232- 90
140♦	4042	CD4042BE	RCA	4-BIT LCH	232- 91
141♦	4042	CD4042BF	RCA	4-BIT LCH	232- 92
142♦	4042	CD4042BMJ	NSC	4-BIT LCH	232- 63
143♦	4042	*CD4042BMW	NSC	4-BIT LCH	232- 64
144♦	4042	HBC4042AD(1)	SGSI	4-BIT LCH	232- 86
145♦	4042	HBC4042AF(1)	SGSI	4-BIT LCH	232- 87
146♦	4042	*HBC4042AK(1)	SGSI	4-BIT LCH	232- 88
147♦	4042	HBF4042AE(1)	SGSI	4-BIT LCH	232-108
148♦	4042	HBF4042AF(1)	SGSI	4-BIT LCH	232-109
149♦	4042	HCC4042BD	SGSI	4-BIT LCH	232- 50
150♦	4042	HCC4042BF	SGSI	4-BIT LCH	232- 51
151♦	4042	*HCC4042BK	SGSI	4-BIT LCH	232- 52
152♦	4042	HCF4042BE	SGSI	4-BIT LCH	232- 53
153♦	4042	HCF4042BF	SGSI	4-BIT LCH	232- 54
154♦	4042	HEF4042	RTCF	4-BIT LCH	232- 34
155♦	4042	HEF4042BD	MULB	4-BIT LCH	232- 44
156♦	4042	HEF4042BD	PHIN	4-BIT LCH	232- 44
157♦	4042	HEF4042BD	RTCF	4-BIT LCH	232- 44
158♦	4042	HEF4042BD	VALG	4-BIT LCH	232- 44
159♦	4042	HEF4042BP	MULB	4-BIT LCH	232- 45
160♦	4042	HEF4042BP	PHIN	4-BIT LCH	232- 45
161♦	4042	HEF4042BP	RTCF	4-BIT LCH	232- 45
162♦	4042	HEF4042BP	VALG	4-BIT LCH	232- 45
163♦	4042	HEF4042BPN	SIC	4-BIT LCH	232- 35
164♦	4042	*HEF4042BT	MULB	4-BIT LCH	232- 46
165♦	4042	*HEF4042BT	PHIN	4-BIT LCH	232- 46
166♦	4042	*HEF4042BT	RTCF	4-BIT LCH	232- 46
167♦	4042	*HEF4042BT	VALG	4-BIT LCH	232- 46
168♦	4042	*HEF4042BTD	SIC	4-BIT LCH	232- 36
169♦	4042	HEF4042P	MULB	4-BIT LCH	232- 89
170♦	4042	HEF4042P	PHIN	4-BIT LCH	232- 89
171♦	4042	HEF4042P	VALG	4-BIT LCH	232- 89
172♦	4042	M4042BP	MITJ	4-BIT LCH	230- 13
173♦	4042	MC4042L,P	MOTA	SPECIAL	246- 50
174♦	4042	MSM4042	OKIJ	4-BIT LCH	233- 8
175♦	4042	MSM4042RS	OKIJ	LATCH	229- 9
176♦	4042	SCL4042B	SSS	4-BIT LCH	232- 58
177♦	4042	TC4042BP	IMTM	4-BIT LCH	233- 7
178♦	4042	TC4042BP	TOSJ	4-BIT LCH	233- 7
179♦	4042	*UPD4042BG	NECJ	4-BIT LCH	232- 97
180♦	4043	883C4043B	SSS	4-BIT LCH	243-100
181♦	4043	4043BDC	FSC	4-BIT LCH	243- 86
182♦	4043	4043BDM	FSC	4-BIT LCH	243- 87
183♦	4043	*4043BFC	FSC	4-BIT LCH	243- 88
184♦	4043	*4043BFM	FSC	4-BIT LCH	243- 89
185♦	4043	4043BPC	FSC	4-BIT LCH	243- 90
186♦	4043	BCL4043B	SSS	4-BIT LCH	243-102
187♦	4043	CD4043AD	RCA	4-BIT LCH	244- 38
188♦	4043	CD4043AE	RCA	4-BIT LCH	244- 54
189♦	4043	CD4043AF	RCA	4-BIT LCH	244- 39
190♦	4043	CD4043BD	RCA	4-BIT LCH	244- 30
191♦	4043	CD4043BE	RCA	4-BIT LCH	244- 31
192♦	4043	CD4043BF	RCA	4-BIT LCH	244- 32
193♦	4043	CD4043CJ	NSC	4-BIT LCH	244- 55
194♦	4043	CD4043CN	NSC	4-BIT LCH	244- 56
195♦	4043	CD4043MJ	NSC	4-BIT LCH	244- 40
196♦	4043	*CD4043MW	NSC	4-BIT LCH	244- 41
197♦	4043	HBC4043AD	SGSI	4-BIT LCH	244- 46
198♦	4043	HBC4043AF	SGSI	4-BIT LCH	244- 47
199♦	4043	*HBC4043AK	SGSI	4-BIT LCH	244- 48
200♦	4043	HBF4043AE	SGSI	4-BIT LCH	244- 60
201♦	4043	HBF4043AF	SGSI	4-BIT LCH	244- 61
202♦	4043	HCC4043BD	SGSI	4-BIT LCH	243-104
203♦	4043	HCC4043BF	SGSI	4-BIT LCH	243-105
204♦	4043	*HCC4043BK	SGSI	4-BIT LCH	243-106
205♦	4043	HCF4043BE	SGSI	4-BIT LCH	243-110
206♦	4043	HCF4043BF	SGSI	4-BIT LCH	244- 1
207♦	4043	HEF4043	RTCF	4-BIT LCH	243- 76
208♦	4043	HEF4043BD	MULB	4-BIT LCH	243- 94
209♦	4043	HEF4043BD	PHIN	4-BIT LCH	243- 94
210♦	4043	HEF4043BD	RTCF	4-BIT LCH	243- 94
211♦	4043	HEF4043BD	VALG	4-BIT LCH	243- 94
212♦	4043	HEF4043BP	MULB	4-BIT LCH	243- 95
213♦	4043	HEF4043BP	PHIN	4-BIT LCH	243- 95
214♦	4043	HEF4043BP	RTCF	4-BIT LCH	243- 95
215♦	4043	HEF4043BP	VALG	4-BIT LCH	243- 95
216♦	4043	HEF4043BPN	SIC	4-BIT LCH	243- 77
217♦	4043	*HEF4043BT	MULB	4-BIT LCH	243- 96
218♦	4043	*HEF4043BT	PHIN	4-BIT LCH	243- 96
219♦	4043	*HEF4043BT	RTCF	4-BIT LCH	243- 96
220♦	4043	*HEF4043BT	VALG	4-BIT LCH	243- 96

*Surface mount package style

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1♦	4043	*HEF4043BTD	SIC	4-BIT LCH	243- 78
2♦	4043	HEF4043P	MULB	4-BIT LCH	243- 79
3♦	4043	HEF4043P	PHIN	4-BIT LCH	243- 79
4♦	4043	HEF4043P	VALG	4-BIT LCH	243- 79
5♦	4043	M4043BP	MITJ	4-BIT LCH	243- 40
6♦	4043	MSM4043	OKIJ	4-BIT LCH	244- 64
7♦	4043	MSM4043RS	OKIJ	4-BIT LCH	244- 66
8♦	4043	SCL4043B	SSS	4-BIT LCH	244- 36
9♦	4043	TC4043BP	IMTM	4-BIT LCH	244- 52
10♦	4043	TC4043BP	TOSJ	4-BIT LCH	244- 52
11♦	4044	883C4044B	SSS	4-BIT LCH	243-101
12♦	4044	4044BDC	FSC	4-BIT LCH	243- 81
13♦	4044	4044BDM	FSC	4-BIT LCH	243- 82
14♦	4044	*4044BFC	FSC	4-BIT LCH	243- 83
15♦	4044	*4044BFM	FSC	4-BIT LCH	243- 84
16♦	4044	4044BPC	FSC	4-BIT LCH	243- 85
17♦	4044	BCL4044B	SSS	4-BIT LCH	243-103
18♦	4044	CD4044AD	RCA	4-BIT LCH	244- 42
19♦	4044	CD4044AE	RCA	4-BIT LCH	244- 57
20♦	4044	CD4044AF	RCA	4-BIT LCH	244- 43
21♦	4044	CD4044BD	RCA	4-BIT LCH	244- 33
22♦	4044	CD4044BE	RCA	4-BIT LCH	244- 34
23♦	4044	CD4044BF	RCA	4-BIT LCH	244- 35
24♦	4044	CD4044CJ	NSC	4-BIT LCH	244- 58
25♦	4044	CD4044CN	NSC	4-BIT LCH	244- 59
26♦	4044	CD4044MJ	NSC	4-BIT LCH	244- 44
27♦	4044	*CD4044MW	NSC	4-BIT LCH	244- 45
28♦	4044	HBC4044AD	SGSI	4-BIT LCH	244- 49
29♦	4044	HBC4044AF	SGSI	4-BIT LCH	244- 50
30♦	4044	*HBC4044AK	SGSI	4-BIT LCH	244- 51
31♦	4044	HBF4044AE	SGSI	4-BIT LCH	244- 62
32♦	4044	HBF4044AF	SGSI	4-BIT LCH	244- 63
33♦	4044	HCC4044BD	SGSI	4-BIT LCH	243-107
34♦	4044	HCC4044BF	SGSI	4-BIT LCH	243-108
35♦	4044	*HCC4044BK	SGSI	4-BIT LCH	243-109
36♦	4044	HCF4044BE	SGSI	4-BIT LCH	244- 2
37♦	4044	HCF4044BF	SGSI	4-BIT LCH	244- 3
38♦	4044	HEF4044	RTCF	4-BIT LCH	243- 91
39♦	4044	HEF4044BD	MULB	4-BIT LCH	243- 97
40♦	4044	HEF4044BD	PHIN	4-BIT LCH	243- 97
41♦	4044	HEF4044BD	RTCF	4-BIT LCH	243- 97
42♦	4044	HEF4044BD	VALG	4-BIT LCH	243- 97
43♦	4044	HEF4044BP	MULB	4-BIT LCH	243- 98
44♦	4044	HEF4044BP	PHIN	4-BIT LCH	243- 98
45♦	4044	HEF4044BP	RTCF	4-BIT LCH	243- 98
46♦	4044	HEF4044BP	VALG	4-BIT LCH	243- 98
47♦	4044	HEF4044BPN	SIC	4-BIT LCH	243- 92
48♦	4044	*HEF4044BT	PHIN	4-BIT LCH	243- 99
49♦	4044	*HEF4044BT	RTCF	4-BIT LCH	243- 99
50♦	4044	*HEF4044BT	VALG	4-BIT LCH	243- 99
51♦	4044	*HEF4044BTD	SIC	4-BIT LCH	243- 93
52♦	4044	HEF4044P	MULB	4-BIT LCH	243- 80
53♦	4044	HEF4044P	PHIN	4-BIT LCH	243- 80
54♦	4044	HEF4044P	VALG	4-BIT LCH	243- 80
55♦	4044	M4044BP	MITJ	4-BIT LCH	243- 41
56	4044	*MC4044F	MOTA	SPECIAL	247- 19
57♦	4044	MC4044L	MOTA	SPECIAL	247- 20
58♦	4044	MC4044P	MOTA	SPECIAL	247- 21
59♦	4044	MSM4044	OKIJ	4-BIT LCH	244- 65
60♦	4044	MSM4044RS	OKIJ	4-BIT LCH	244- 67
61♦	4044	SCL4044B	SSS	4-BIT LCH	244- 37
62♦	4044	TC4044BP	IMTM	4-BIT LCH	244- 53
63♦	4044	TC4044BP	TOSJ	4-BIT LCH	244- 53
64♦	4045	4045BDC	FSC	FREQ DIVID	194- 39
65♦	4045	4045BDM	FSC	FREQ DIVID	194- 40
66	4045	*4045BFC	FSC	FREQ DIVID	194- 41
67	4045	*4045BFM	FSC	FREQ DIVID	194- 42
68♦	4045	4045BPC	FSC	FREQ DIVID	194- 43
69♦	4045	CD4045AD	RCA	FREQ DIVID	194- 44
70♦	4045	CD4045AE	RCA	FREQ DIVID	194- 45
71♦	4045	CD4045AF	RCA	FREQ DIVID	194- 46
72♦	4045	CD4045AK	RCA	FREQ DIVID	194- 47
73♦	4045	CD4045BD	RCA	FREQ DIVID	194- 48
74♦	4045	CD4045BE	RCA	FREQ DIVID	194- 49
75♦	4045	CD4045BF	RCA	FREQ DIVID	194- 50
76♦	4045	CD4045BH	RCA	FREQ DIVID	194- 51
77	4045	CM4045AD	SOD	FREQ DIVID	194- 52
78	4045	CM4045AE	SOD	FREQ DIVID	194- 53
79♦	4045	HBC4045AD	SGSI	FREQ DIVID	194- 54
80♦	4045	HBC4045AF	SGSI	FREQ DIVID	194- 55
81	4045	*HBC4045AK	SGSI	FREQ DIVID	194- 56
82▼	4045	HBF4045AE	SGSI	FREQ DIVID	194- 57
83▼	4045	HBF4045AF	SGSI	FREQ DIVID	194- 58
84♦	4045	HCC4045BD	SGSI	COUNTER	172- 24
85♦	4045	HCC4045BF	SGSI	COUNTER	172- 25
86♦	4045	*HCC4045BK	SGSI	COUNTER	172- 26
87♦	4045	HCF4045BE	SGSI	COUNTER	172- 27
88♦	4045	HCF4045BF	SGSI	COUNTER	172- 28
89♦	4047	4047BDC	FSC	CLOCK/MV	187- 4
90♦	4047	4047BDM	FSC	CLOCK/MV	187- 5
91	4047	*4047BFC	FSC	CLOCK/MV	187- 6
92	4047	*4047BFM	FSC	CLOCK/MV	187- 7
93♦	4047	4047BPC	FSC	CLOCK/MV	187- 8
94	4047	BCL4047B	SSS	CLOCK/MV	187- 9
95	4047	CD4047AD	RCA	CLOCK/MV	187- 10
96	4047	CD4047AE	RCA	CLOCK/MV	187- 11
97	4047	CD4047AF	RCA	CLOCK/MV	187- 12
98♦	4047	CD4047BCJ	NSC	CLOCK/MV	187- 13
99♦	4047	CD4047BCN	NSC	CLOCK/MV	187- 14
100	4047	CD4047BD	RCA	CLOCK/MV	187- 15
101	4047	CD4047BE	RCA	CLOCK/MV	187- 16
102	4047	CD4047BF	RCA	CLOCK/MV	187- 17
103♦	4047	CD4047BMJ	NSC	CLOCK/MV	187- 18
104	4047	*CD4047BMW	NSC	CLOCK/MV	187- 19
105	4047	CM4047AD	SOD	CLOCK/MV	187- 20
106	4047	CM4047AE	SOD	CLOCK/MV	187- 21
107	4047	*CM4047AF	SOD	CLOCK/MV	187- 22
108	4047	HBC4047AD	SGSI	CLOCK/MV	187- 24
109	4047	*HBC4047AK	SGSI	CLOCK/MV	187- 25
110	4047	HBF4047AE	SGSI	CLOCK/MV	187- 26
111♦	4047	HCC4047BD	SGSI	CLOCK/MV	187- 27
112♦	4047	HCC4047BF	SGSI	CLOCK/MV	187- 28
113	4047	*HCC4047BK	SGSI	CLOCK/MV	187- 29
114♦	4047	HCF4047BE	SGSI	CLOCK/MV	187- 30
115♦	4047	HCF4047BF	SGSI	CLOCK/MV	187- 31
116	4047	HEF4047	RTCF	CLOCK/MV	187- 32
117♦	4047	HEF4047B	VALG	CLOCK/MV	187- 33
118♦	4047	HEF4047BD	MULB	CLOCK/MV	187- 34
119♦	4047	HEF4047BD	PHIN	CLOCK/MV	187- 34
120♦	4047	HEF4047BD	RTCF	CLOCK/MV	187- 34
121♦	4047	HEF4047BD	VALG	CLOCK/MV	187- 34
122♦	4047	HEF4047BP	MULB	CLOCK/MV	187- 35
123♦	4047	HEF4047BP	PHIN	CLOCK/MV	187- 35
124♦	4047	HEF4047BP	RTCF	CLOCK/MV	187- 35
125♦	4047	HEF4047BP	VALG	CLOCK/MV	187- 35
126♦	4047	HEF4047BPN	SIC	CLOCK/MV	187- 36
127♦	4047	*HEF4047BT	MULB	CLOCK/MV	187- 37
128♦	4047	*HEF4047BT	PHIN	CLOCK/MV	187- 37
129♦	4047	*HEF4047BT	RTCF	CLOCK/MV	187- 37
130♦	4047	*HEF4047BT	VALG	CLOCK/MV	187- 37
131	4047	*HEF4047BTD	SIC	CLOCK/MV	187- 38
132	4047	SCL4047B	SSS	CLOCK/MV	189- 18
133♦	4047	TC4047BP	IMTM	CLOCK/MV	187- 39
134♦	4047	TC4047BP	TOSJ	CLOCK/MV	187- 39
135♦	4048	CD4048AD	RCA	MULTI-GATE	95- 18
136♦	4048	CD4048AE	RCA	MULTI-GATE	95- 19
137♦	4048	CD4048AF	RCA	MULTI-GATE	95- 20
138♦	4048	CD4048BCJ	NSC	MULTI-GATE	95- 21
139♦	4048	CD4048BCN	NSC	MULTI-GATE	95- 22
140♦	4048	CD4048BD	RCA	MULTI-GATE	95- 23
141♦	4048	CD4048BE	RCA	MULTI-GATE	95- 24
142♦	4048	CD4048BF	RCA	MULTI-GATE	95- 25
143♦	4048	CD4048BMJ	NSC	MULTI-GATE	95- 26
144♦	4048	*CD4048BMW	NSC	MULTI-GATE	95- 27
145♦	4048	CM4048AD	SOD	MULTI-GATE	95- 28
146♦	4048	CM4048AE	SOD	MULTI-GATE	95- 29
147♦	4048	HBC4048AD	SGSI	MULTI-GATE	95- 30
148♦	4048	HBC4048AF	SGSI	MULTI-GATE	95- 31
149♦	4048	HBC4048AK	SGSI	MULTI-GATE	95- 32
150♦	4048	HBF4048AE	SGSI	MULTI-GATE	95- 33
151♦	4048	*HBF4048AF	SGSI	MULTI-GATE	95- 34
152♦	4048	HCC4048BD	SGSI	MULTI-GATE	95- 36
153♦	4048	HCC4048BF	SGSI	MULTI-GATE	95- 37
154♦	4048	*HCC4048BK	SGSI	MULTI-GATE	95- 38
155♦	4048	HCF4048BE	SGSI	MULTI-GATE	95- 39
156♦	4048	HCF4048BF	SGSI	MULTI-GATE	95- 40
157♦	4048	MC4048P	MOTA	DECODER	125- 30
158♦	4050	MC4050L	MOTA	DEC CNTR	184- 19
159♦	4050	MC4050P	MOTA	DEC CNTR	184- 20
160	4057	CD4057AD	RCA	4-BIT ALU	222- 98
161	4057	HBC4057AD	SGSI	4-BIT ALU	222- 99
162	4057	HBF4057AD	SGSI	4-BIT ALU	222-100
163	4059	CD4059AD	RCA	FREQ DIVID	196- 24
164	4059	CD4059AE	RCA	FREQ DIVID	196- 25
165♦	4059	HBC4059AD	SGSI	FREQ DIVID	196- 18
166	4059	*HBC4059AK	SGSI	FREQ DIVID	196- 19
167♦	4059	HBF4059AD	SGSI	FREQ DIVID	196- 20
168	4059	HBF4059AE	SGSI	FREQ DIVID	196- 21
169♦	4059	HEF4059BD	MULB	FREQ DIVID	196- 41
170♦	4059	HEF4059BD	PHIN	FREQ DIVID	196- 41
171♦	4059	HEF4059BD	RTCF	FREQ DIVID	196- 41
172♦	4059	HEF4059BD	VALG	FREQ DIVID	196- 41
173♦	4059	HEF4059BP	MULB	FREQ DIVID	196- 42
174♦	4059	HEF4059BP	PHIN	FREQ DIVID	196- 42
175♦	4059	HEF4059BP	RTCF	FREQ DIVID	196- 42
176♦	4059	HEF4059BP	VALG	FREQ DIVID	196- 42
177♦	4059	HEF4059BPN	SIC	FREQ DIVID	195- 96
178♦	4059	*HEF4059BT	PHIN	FREQ DIVID	195-103
179♦	4060	883C4060B	SSS	COUNTER	171- 24
180♦	4060	BCL4060B	SSS	COUNTER	171- 26
181♦	4060	CD4060AD	RCA	COUNTER	170-104
182♦	4060	CD4060AE	RCA	COUNTER	170-105
183♦	4060	CD4060AF	RCA	COUNTER	170-106
184♦	4060	CD4060BCJ	NSC	COUNTER	170-107
185♦	4060	CD4060BCN	NSC	COUNTER	170-108
186♦	4060	CD4060BD	RCA	COUNTER	171- 46
187♦	4060	CD4060BE	RCA	COUNTER	171- 47
188♦	4060	CD4060BF	RCA	COUNTER	171- 48
189♦	4060	CD4060BMJ	NSC	COUNTER	170-109
190♦	4060	*CD4060BMW	NSC	COUNTER	170-110
191♦	4060	HBC4060AD	SGSI	COUNTER	170- 94
192♦	4060	HBC4060AF	SGSI	COUNTER	170- 95
193♦	4060	*HBC4060AK	SGSI	COUNTER	170- 96
194♦	4060	HBF4060AE	SGSI	COUNTER	170- 92
195♦	4060	HBF4060AF	SGSI	COUNTER	170- 93
196♦	4060	HCC4060BD	SGSI	COUNTER	171- 79
197♦	4060	HCC4060BF	SGSI	COUNTER	171- 80
198♦	4060	*HCC4060BK	SGSI	COUNTER	171- 81
199♦	4060	HCF4060BE	SGSI	COUNTER	171- 84
200♦	4060	HCF4060BF	SGSI	COUNTER	171- 85
201♦	4060	HEF4060BD	MULB	COUNTER	171- 67
202♦	4060	HEF4060BD	PHIN	COUNTER	171- 67
203♦	4060	HEF4060BD	RTCF	COUNTER	171- 67
204♦	4060	HEF4060BD	VALG	COUNTER	171- 67
205♦	4060	HEF4060BP	MULB	COUNTER	171- 68
206♦	4060	HEF4060BP	PHIN	COUNTER	171- 68
207♦	4060	HEF4060BP	RTCF	COUNTER	171- 68
208♦	4060	HEF4060BP	VALG	COUNTER	171- 68
209♦	4060	HEF4060BPN	SIC	COUNTER	170- 81
210♦	4060	*HEF4060BT	MULB	COUNTER	171- 69
211♦	4060	*HEF4060BT	PHIN	COUNTER	171- 69
212♦	4060	*HEF4060BT	RTCF	COUNTER	171- 69
213♦	4060	*HEF4060BT	VALG	COUNTER	171- 69
214♦	4060	*HEF4060BTD	SIC	COUNTER	171- 51
215♦	4060	SCL4060B	SSS	COUNTER	171- 19
216	4063	CD4063BD	RCA	MAGN COMP	217- 88
217	4063	CD4063BE	RCA	MAGN COMP	217- 89
218	4063	CD4063BF	RCA	MAGN COMP	217- 90
219♦	4063	HCC4063BD	SGSI	MAGN COMP	217- 65
220♦	4063	HCC4063BF	SGSI	MAGN COMP	217- 66

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

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IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	[1] GENERIC NUMBER	[2] MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1	4063	*HCC4063BK	SGSI	MAGN COMP	217- 67
2♦	4063	HCF4063BE	SGSI	MAGN COMP	217- 68
3♦	4063	HCF4063BF	SGSI	MAGN COMP	217- 69
4♦	4063	M4063BP	MITJ	MAGN COMP	217- 86
5♦	4063	TC4063BP	IMTM	MAGN COMP	217- 87
6♦	4063	TC4063BP	TOSJ	MAGN COMP	217- 87
7♦	4068	883C4068B	SSS	NAND GATE	110- 69
8♦	4068	4068BDC	FSC	NAND GATE	110- 61
9♦	4068	4068BDM	FSC	NAND GATE	110- 62
10♦	4068	*4068BFC	FSC	NAND GATE	110- 63
11♦	4068	*4068BFM	FSC	NAND GATE	110- 64
12♦	4068	4068BPC	FSC	NAND GATE	110- 65
13♦	4068	BCL4068B	SSS	NAND GATE	110- 70
14♦	4068	CD4068BD	RCA	NAND GATE	110- 92
15♦	4068	CD4068BE	RCA	NAND GATE	110- 93
16♦	4068	CD4068BF	RCA	NAND GATE	110- 94
17♦	4068	HCC4068BD	SGSI	NAND GATE	110- 99
18♦	4068	HCC4068BF	SGSI	NAND GATE	110-100
19♦	4068	*HCC4068BK	SGSI	NAND GATE	110-101
20♦	4068	HCF4068BE	SGSI	NAND GATE	110-102
21♦	4068	HCF4068BF	SGSI	NAND GATE	110-103
22♦	4068	HEF4068	RTCF	NAND GATE	110- 58
23♦	4068	HEF4068BD	MULB	NAND GATE	110- 66
24♦	4068	HEF4068BD	PHIN	NAND GATE	110- 66
25♦	4068	HEF4068BD	RTCF	NAND GATE	110- 66
26♦	4068	HEF4068BD	VALG	NAND GATE	110- 66
27♦	4068	HEF4068BP	MULB	NAND GATE	110- 67
28♦	4068	HEF4068BP	PHIN	NAND GATE	110- 67
29♦	4068	HEF4068BP	RTCF	NAND GATE	110- 67
30♦	4068	HEF4068BP	VALG	NAND GATE	110- 67
31♦	4068	HEF4068BPN	SIC	NAND GATE	110- 59
32♦	4068	*HEF4068BT	MULB	NAND GATE	110- 68
33♦	4068	*HEF4068BT	PHIN	NAND GATE	110- 68
34♦	4068	*HEF4068BT	RTCF	NAND GATE	110- 68
35♦	4068	*HEF4068BT	VALG	NAND GATE	110- 68
36♦	4068	*HEF4068BTD	SIC	NAND GATE	110- 60
37♦	4068	HEF4068P	MULB	NAND GATE	110- 44
38♦	4068	HEF4068P	PHIN	NAND GATE	110- 44
39♦	4068	HEF4068P	VALG	NAND GATE	110- 44
40♦	4068	M4068BP	MITJ	NAND GATE	110- 97
41♦	4068	MSM4068	OKIJ	NAND GATE	110- 96
42♦	4068	MSM4068RS	OKIJ	NAND GATE	110-104
43♦	4068	SCL4068B	SSS	NAND GATE	110- 91
44♦	4068	TC4068BP	IMTM	NAND GATE	110- 98
45♦	4068	TC4068BP	TOSJ	NAND GATE	110- 98
46♦	4068	*UPD4068BG	NECJ	NAND GATE	110- 88
47♦	4070	883C4070B	SSS	EX-OR GATE	91- 49
48♦	4070	4070BDC	FSC	EX-OR GATE	91- 53
49♦	4070	4070BDM	FSC	EX-OR GATE	91- 54
50♦	4070	*4070BFC	FSC	EX-OR GATE	94- 29
51♦	4070	*4070BFM	FSC	EX-OR GATE	94- 30
52♦	4070	4070BPC	FSC	EX-OR GATE	91- 55
53♦	4070	BCL4070B	SSS	EX-OR GATE	91- 57
54▼	4070	BU4070B	RHM	EX-OR GATE	91- 60
55▼	4070	*BU4070BF	RHM	EX-OR GATE	91- 61
56♦	4070	CD4070BCJ	NSC	EX-OR GATE	91- 75
57♦	4070	CD4070BCN	NSC	EX-OR GATE	91- 76
58♦	4070	CD4070BD	RCA	EX-OR GATE	91- 77
59♦	4070	CD4070BE	RCA	EX-OR GATE	91- 78
60♦	4070	CD4070BF	RCA	EX-OR GATE	91- 79
61♦	4070	CD4070BMJ	NSC	EX-OR GATE	91- 80
62♦	4070	*CD4070BMW	NSC	EX-OR GATE	94- 37
63♦	4070	HCC4070BD	SGSI	EX-OR GATE	91-110
64♦	4070	HCC4070BF	SGSI	EX-OR GATE	92- 1
65♦	4070	*HCC4070BK	SGSI	EX-OR GATE	94- 26
66♦	4070	HCF4070BE	SGSI	EX-OR GATE	92- 4
67♦	4070	HCF4070BF	SGSI	EX-OR GATE	92- 5
68♦	4070	HEF4070	RTCF	EX-OR GATE	92- 9
69♦	4070	HEF4070BD	MULB	EX-OR GATE	94- 34
70♦	4070	HEF4070BD	PHIN	EX-OR GATE	94- 34
71♦	4070	HEF4070BD	RTCF	EX-OR GATE	94- 34
72♦	4070	HEF4070BD	VALG	EX-OR GATE	94- 34
73♦	4070	HEF4070BP	MULB	EX-OR GATE	94- 35
74♦	4070	HEF4070BP	PHIN	EX-OR GATE	94- 35
75♦	4070	HEF4070BP	RTCF	EX-OR GATE	94- 35
76♦	4070	HEF4070BP	VALG	EX-OR GATE	94- 35
77♦	4070	HEF4070BPN	SIC	EX-OR GATE	92- 10
78♦	4070	*HEF4070BT	MULB	EX-OR GATE	94- 36
79♦	4070	*HEF4070BT	PHIN	EX-OR GATE	94- 36
80♦	4070	*HEF4070BT	RTCF	EX-OR GATE	94- 36
81♦	4070	*HEF4070BT	VALG	EX-OR GATE	94- 36
82♦	4070	*HEF4070BTD	SIC	EX-OR GATE	92- 11
83♦	4070	HEF4070P	MULB	EX-OR GATE	92- 12
84♦	4070	HEF4070P	PHIN	EX-OR GATE	92- 12
85♦	4070	HEF4070P	VALG	EX-OR GATE	92- 12
86♦	4070	LC4070B	TSAJ	EX-OR GATE	92- 13
87♦	4070	MN4070B	MATJ	EX-OR GATE	92- 53
88♦	4070	SCL4070B	SSS	EX-OR GATE	92- 74
89♦	4071	883C4071B	SSS	OR GATE	121-109
90♦	4071	4071BDC	FSC	OR GATE	121- 88
91♦	4071	4071BDM	FSC	OR GATE	121- 89
92♦	4071	*4071BFC	FSC	OR GATE	121- 90
93♦	4071	*4071BFM	FSC	OR GATE	121- 91
94♦	4071	4071BPC	FSC	OR GATE	121- 92
95♦	4071	BCL4071B	SSS	OR GATE	121-110
96♦	4071	CD4071BCJ	NSC	OR GATE	121-105
97♦	4071	CD4071BCN	NSC	OR GATE	121-106
98♦	4071	CD4071BD	RCA	OR GATE	122- 17
99♦	4071	CD4071BE	RCA	OR GATE	122- 18
100♦	4071	CD4071BF	RCA	OR GATE	122- 19
101♦	4071	CD4071BMJ	NSC	OR GATE	121-107
102♦	4071	*CD4071BMW	NSC	OR GATE	121-108
103♦	4071	HCC4071BD	SGSI	OR GATE	122- 25
104♦	4071	HCC4071BF	SGSI	OR GATE	122- 26
105♦	4071	*HCC4071BK	SGSI	OR GATE	122- 27
106♦	4071	HCF4071BE	SGSI	OR GATE	122- 28
107♦	4071	HCF4071BF	SGSI	OR GATE	122- 29
108♦	4071	HEF4071	RTCF	OR GATE	121- 93
109♦	4071	HEF4071BD	MULB	OR GATE	121-101
110♦	4071	HEF4071BD	PHIN	OR GATE	121-101
111♦	4071	HEF4071BD	RTCF	OR GATE	121-101
112♦	4071	HEF4071BD	VALG	OR GATE	121-101
113♦	4071	HEF4071BP	MULB	OR GATE	121-102
114♦	4071	HEF4071BP	PHIN	OR GATE	121-102
115♦	4071	HEF4071BP	RTCF	OR GATE	121-102
116♦	4071	HEF4071BP	VALG	OR GATE	121-102
117♦	4071	HEF4071BPN	SIC	OR GATE	121- 94
118♦	4071	*HEF4071BT	MULB	OR GATE	121-103
119♦	4071	*HEF4071BT	PHIN	OR GATE	121-103
120♦	4071	*HEF4071BT	RTCF	OR GATE	121-103
121♦	4071	*HEF4071BT	VALG	OR GATE	121-103
122♦	4071	*HEF4071BTD	SIC	OR GATE	121- 95
123♦	4071	HEF4071P	MULB	OR GATE	121-100
124♦	4071	HEF4071P	PHIN	OR GATE	121-100
125♦	4071	HEF4071P	VALG	OR GATE	121-100
126♦	4071	LC4071B	TSAJ	OR GATE	122- 20
127♦	4071	M4071BP	MITJ	OR GATE	122- 21
128♦	4071	MN4071B	MATJ	OR GATE	121-104
129♦	4071	MSM4071	OKIJ	OR GATE	122- 23
130♦	4071	MSM4071RS	OKIJ	OR GATE	122- 30
131♦	4071	SCL4071B	SSS	OR GATE	122- 16
132♦	4071	TC4071BP	IMTM	OR GATE	122- 22
133♦	4071	TC4071BP	TOSJ	OR GATE	122- 22
134♦	4071	*UPD4071BG	NECJ	OR GATE	122- 24
135♦	4072	883C4072B	SSS	OR GATE	124- 19
136♦	4072	4072BDC	FSC	OR GATE	123-110
137♦	4072	4072BDM	FSC	OR GATE	124- 1
138♦	4072	*4072BFC	FSC	OR GATE	124- 2
139♦	4072	*4072BFM	FSC	OR GATE	124- 3
140♦	4072	4072BPC	FSC	OR GATE	124- 4
141♦	4072	BCL4072B	SSS	OR GATE	124- 20
142♦	4072	CD4072BD	RCA	OR GATE	124- 37
143♦	4072	CD4072BE	RCA	OR GATE	124- 38
144♦	4072	CD4072BF	RCA	OR GATE	124- 39
145♦	4072	HCC4072BD	SGSI	OR GATE	124- 43
146♦	4072	HCC4072BF	SGSI	OR GATE	124- 44
147♦	4072	*HCC4072BK	SGSI	OR GATE	124- 45
148♦	4072	HCF4072BE	SGSI	OR GATE	124- 46
149♦	4072	HCF4072BF	SGSI	OR GATE	124- 47
150♦	4072	HEF4072	RTCF	OR GATE	124- 12
151♦	4072	HEF4072BD	PHIN	OR GATE	124- 15
152♦	4072	HEF4072BD	RTCF	OR GATE	124- 15
153♦	4072	HEF4072BD	VALG	OR GATE	124- 15
154♦	4072	HEF4072BP	MULB	OR GATE	124- 16
155♦	4072	HEF4072BP	PHIN	OR GATE	124- 16
156♦	4072	HEF4072BP	RTCF	OR GATE	124- 16
157♦	4072	HEF4072BP	VALG	OR GATE	124- 16
158♦	4072	HEF4072BPN	SIC	OR GATE	124- 13
159♦	4072	*HEF4072BT	MULB	OR GATE	124- 17
160♦	4072	*HEF4072BT	PHIN	OR GATE	124- 17
161♦	4072	*HEF4072BT	RTCF	OR GATE	124- 17
162♦	4072	*HEF4072BT	VALG	OR GATE	124- 17
163♦	4072	*HEF4072BTD	SIC	OR GATE	124- 14
164♦	4072	HEF4072P	MULB	OR GATE	124- 11
165♦	4072	HEF4072P	PHIN	OR GATE	124- 11
166♦	4072	HEF4072P	VALG	OR GATE	124- 11
167♦	4072	M4072BP	MITJ	OR GATE	124- 40
168♦	4072	MN4072B	MATJ	OR GATE	124- 18
169♦	4072	MSM4072	OKIJ	OR GATE	124- 42
170♦	4072	MSM4072RS	OKIJ	OR GATE	124- 48
171♦	4072	SCL4072B	SSS	OR GATE	124- 36
172♦	4072	TC4072BP	IMTM	OR GATE	124- 41
173♦	4072	TC4072BP	TOSJ	OR GATE	124- 41
174♦	4073	883C4073B	SSS	AND GATE	81- 3
175♦	4073	4073BDC	FSC	AND GATE	80- 96
176♦	4073	4073BDM	FSC	AND GATE	80- 97
177♦	4073	*4073BFC	FSC	AND GATE	80- 98
178♦	4073	*4073BFM	FSC	AND GATE	80- 99
179♦	4073	4073BPC	FSC	AND GATE	80-100
180♦	4073	BCL4073B	SSS	AND GATE	81- 4
181♦	4073	CD4073BCJ	NSC	AND GATE	80-109
182♦	4073	CD4073BCN	NSC	AND GATE	80-110
183♦	4073	CD4073BD	RCA	AND GATE	81- 21
184♦	4073	CD4073BE	RCA	AND GATE	81- 22
185♦	4073	CD4073BF	RCA	AND GATE	81- 23
186♦	4073	CD4073BMJ	NSC	AND GATE	81- 1
187♦	4073	*CD4073BMW	NSC	AND GATE	81- 2
188♦	4073	HCC4073BD	SGSI	AND GATE	81- 28
189♦	4073	HCC4073BF	SGSI	AND GATE	81- 29
190♦	4073	*HCC4073BK	SGSI	AND GATE	81- 30
191♦	4073	HCF4073BE	SGSI	AND GATE	81- 31
192♦	4073	HCF4073BF	SGSI	AND GATE	81- 32
193♦	4073	HEF4073	RTCF	AND GATE	80- 91
194♦	4073	HEF4073B	VALG	AND GATE	80- 88
195♦	4073	HEF4073BD	MULB	AND GATE	80-104
196♦	4073	HEF4073BD	PHIN	AND GATE	80-104
197♦	4073	HEF4073BD	RTCF	AND GATE	80-104
198♦	4073	HEF4073BD	VALG	AND GATE	80-104
199♦	4073	HEF4073BP	MULB	AND GATE	80-105
200♦	4073	HEF4073BP	PHIN	AND GATE	80-105
201♦	4073	HEF4073BP	RTCF	AND GATE	80-105
202♦	4073	HEF4073BP	VALG	AND GATE	80-105
203♦	4073	HEF4073BPN	SIC	AND GATE	80- 92
204♦	4073	*HEF4073BT	MULB	AND GATE	80-106
205♦	4073	*HEF4073BT	PHIN	AND GATE	80-106
206♦	4073	*HEF4073BT	RTCF	AND GATE	80-106
207♦	4073	*HEF4073BT	VALG	AND GATE	80-106
208♦	4073	*HEF4073BTD	SIC	AND GATE	80- 93
209♦	4073	HEF4073P	PHIN	AND GATE	80- 89
210♦	4073	LC4073B	TSAJ	AND GATE	81- 25
211♦	4073	M4073BP	MITJ	AND GATE	81- 26
212♦	4073	MN4073B	MATJ	AND GATE	80-108
213♦	4073	SCL4073B	SSS	AND GATE	81- 24
214♦	4073	TC4073BP	IMTM	AND GATE	81- 27
215♦	4073	TC4073BP	TOSJ	AND GATE	81- 27
216♦	4075	883C4075B	SSS	OR GATE	123- 51
217♦	4075	4075BDC	FSC	OR GATE	123- 35
218♦	4075	4075BDM	FSC	OR GATE	123- 36
219♦	4075	*4075BFC	FSC	OR GATE	123- 37
220♦	4075	*4075BFM	FSC	OR GATE	123- 38

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

GENERIC PRODUCT INDEX

IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	4075	4075BPC	FSC	OR GATE	123- 39
2♦	4075	BCL4075B	SSS	OR GATE	123- 52
3♦	4075	CD4075BCJ	NSC	OR GATE	123- 46
4♦	4075	CD4075BCN	NSC	OR GATE	123- 47
5♦	4075	CD4075BD	RCA	OR GATE	123- 70
6♦	4075	CD4075BE	RCA	OR GATE	123- 71
7♦	4075	CD4075BF	RCA	OR GATE	123- 72
8♦	4075	CD4075BMJ	NSC	OR GATE	123- 48
9♦	4075	*CD4075BMW	NSC	OR GATE	123- 49
10♦	4075	HCC4075BD	SGSI	OR GATE	123- 76
11♦	4075	HCC4075BF	SGSI	OR GATE	123- 77
12♦	4075	*HCC4075BK	SGSI	OR GATE	123- 78
13♦	4075	HCF4075BE	SGSI	OR GATE	123- 79
14♦	4075	HCF4075BF	SGSI	OR GATE	123- 80
15♦	4075	HEF4075	RTCF	OR GATE	123- 40
16♦	4075	HEF4075B	VALG	OR GATE	123- 10
17♦	4075	HEF4075BD	MULB	OR GATE	123- 43
18♦	4075	HEF4075BD	PHIN	OR GATE	123- 43
19♦	4075	HEF4075BD	RTCF	OR GATE	123- 43
20♦	4075	HEF4075BD	VALG	OR GATE	123- 43
21♦	4075	HEF4075BP	MULB	OR GATE	123- 44
22♦	4075	HEF4075BP	PHIN	OR GATE	123- 44
23♦	4075	HEF4075BP	RTCF	OR GATE	123- 44
24♦	4075	HEF4075BP	VALG	OR GATE	123- 44
25♦	4075	HEF4075BPN	SIC	OR GATE	123- 41
26♦	4075	*HEF4075BT	MULB	OR GATE	123- 45
27♦	4075	*HEF4075BT	PHIN	OR GATE	123- 45
28♦	4075	*HEF4075BT	RTCF	OR GATE	123- 45
29♦	4075	*HEF4075BT	VALG	OR GATE	123- 45
30♦	4075	*HEF4075BTD	SIC	OR GATE	123- 42
31♦	4075	LC4075B	TSAJ	OR GATE	123- 73
32♦	4075	M4075BP	MITJ	OR GATE	123- 74
33♦	4075	MN4075B	MATJ	OR GATE	123- 50
34♦	4075	MSM4075	OKIJ	OR GATE	123- 81
35♦	4075	SCL4075B	SSS	OR GATE	123- 68
36♦	4075	TC4075BP	IMTM	OR GATE	123- 75
37♦	4075	TC4075BP	TOSJ	OR GATE	123- 75
38♦	4075	*UPD4075BG	NECJ	OR GATE	123- 69
39	4076	883C4076B	SSS	D FL-FLOP	54- 20
40	4076	BCL4076B	SSS	D FL-FLOP	54- 21
41	4076	CD4076BC	NSC	D FL-FLOP	54- 15
42	4076	CD4076BM	NSC	D FL-FLOP	54- 16
43♦	4076	HCF4076BE(1)	SGSI	D FL-FLOP	54- 22
44♦	4076	HCF4076BF(1)	SGSI	D FL-FLOP	54- 23
45	4076	SCL4076B	SSS	D FL-FLOP	54- 25
46♦	4077	883C4077B	SSS	EXNOR GATE	89- 93
47♦	4077	4077BDC	FSC	EXNOR GATE	89- 94
48♦	4077	4077BDM	FSC	EXNOR GATE	89- 95
49♦	4077	*4077BFC	FSC	EXNOR GATE	90- 99
50♦	4077	*4077BFM	FSC	EXNOR GATE	90-100
51♦	4077	4077BPC	FSC	EXNOR GATE	89- 96
52♦	4077	BCL4077B	SSS	EXNOR GATE	89-100
53♦	4077	CD4077BD	RCA	EXNOR GATE	89-101
54♦	4077	CD4077BE	RCA	EXNOR GATE	89-102
55♦	4077	CD4077BF	RCA	EXNOR GATE	89-103
56♦	4077	HCC4077BD	SGSI	EXNOR GATE	90- 10
57♦	4077	HCC4077BF	SGSI	EXNOR GATE	90- 11
58♦	4077	*HCC4077BK	SGSI	EXNOR GATE	90-104
59♦	4077	HCF4077BE	SGSI	EXNOR GATE	90- 12
60♦	4077	HCF4077BF	SGSI	EXNOR GATE	90- 13
61♦	4077	HEF4077	RTCF	EXNOR GATE	90- 15
62♦	4077	HEF4077B	VALG	EXNOR GATE	90- 16
63♦	4077	HEF4077BD	MULB	EXNOR GATE	90-105
64♦	4077	HEF4077BD	PHIN	EXNOR GATE	90-105
65♦	4077	HEF4077BD	RTCF	EXNOR GATE	90-105
66♦	4077	HEF4077BD	VALG	EXNOR GATE	90-105
67♦	4077	HEF4077BP	MULB	EXNOR GATE	90-106
68♦	4077	HEF4077BP	PHIN	EXNOR GATE	90-106
69♦	4077	HEF4077BP	RTCF	EXNOR GATE	90-106
70♦	4077	HEF4077BP	VALG	EXNOR GATE	90-106
71♦	4077	HEF4077BPN	SIC	EXNOR GATE	90- 17
72♦	4077	*HEF4077BT	MULB	EXNOR GATE	90-107
73♦	4077	*HEF4077BT	PHIN	EXNOR GATE	90-107
74♦	4077	*HEF4077BT	RTCF	EXNOR GATE	90-107
75♦	4077	*HEF4077BT	VALG	EXNOR GATE	90-107
76♦	4077	*HEF4077BTD	SIC	EXNOR GATE	90-101
77♦	4077	HEF4077P	PHIN	EXNOR GATE	90- 18
78♦	4077	LC4077B	TSAJ	EXNOR GATE	90- 19
79♦	4077	SCL4077B	SSS	EXNOR GATE	90- 54
80♦	4077	TC4077BP	IMTM	EXNOR GATE	90-108
81♦	4077	TC4077BP	TOSJ	EXNOR GATE	90-108
82♦	4078	883C4078B	SSS	NOR GATE	119- 69
83♦	4078	4078BDC	FSC	NOR GATE	119- 60
84♦	4078	4078BDM	FSC	NOR GATE	119- 61
85♦	4078	*4078BFC	FSC	NOR GATE	119- 62
86♦	4078	*4078BFM	FSC	NOR GATE	119- 63
87♦	4078	4078BPC	FSC	NOR GATE	119- 64
88♦	4078	BCL4078B	SSS	NOR GATE	119- 70
89♦	4078	CD4078BD	RCA	NOR GATE	119- 87
90♦	4078	CD4078BE	RCA	NOR GATE	119- 88
91♦	4078	CD4078BF	RCA	NOR GATE	119- 89
92♦	4078	HCC4078BD	SGSI	NOR GATE	119- 96
93♦	4078	HCC4078BF	SGSI	NOR GATE	119- 97
94♦	4078	*HCC4078BK	SGSI	NOR GATE	119- 98
95♦	4078	HCF4078BE	SGSI	NOR GATE	119- 99
96♦	4078	HCF4078BF	SGSI	NOR GATE	119-100
97♦	4078	HEF4078	RTCF	NOR GATE	119- 57
98♦	4078	HEF4078BD	MULB	NOR GATE	119- 65
99♦	4078	HEF4078BD	PHIN	NOR GATE	119- 65
100♦	4078	HEF4078BD	RTCF	NOR GATE	119- 65
101♦	4078	HEF4078BD	VALG	NOR GATE	119- 65
102♦	4078	HEF4078BP	MULB	NOR GATE	119- 66
103♦	4078	HEF4078BP	PHIN	NOR GATE	119- 66
104♦	4078	HEF4078BP	RTCF	NOR GATE	119- 66
105♦	4078	HEF4078BP	VALG	NOR GATE	119- 66
106♦	4078	HEF4078BPN	SIC	NOR GATE	119- 58
107♦	4078	*HEF4078BT	MULB	NOR GATE	119- 67
108♦	4078	*HEF4078BT	PHIN	NOR GATE	119- 67
109♦	4078	*HEF4078BT	RTCF	NOR GATE	119- 67
110♦	4078	*HEF4078BT	VALG	NOR GATE	119- 67
111♦	4078	*HEF4078BTD	SIC	NOR GATE	119- 59
112♦	4078	HEF4078P	MULB	NOR GATE	119- 56
113♦	4078	HEF4078P	PHIN	NOR GATE	119- 56
114♦	4078	HEF4078P	VALG	NOR GATE	119- 56
115♦	4078	M4078BP	MITJ	NOR GATE	119- 92
116♦	4078	MN4078B	MATJ	NOR GATE	119- 68
117♦	4078	MSM4078	OKIJ	NOR GATE	119- 91
118♦	4078	MSM4078RS	OKIJ	NOR GATE	119- 95
119♦	4078	SCL4078B	SSS	NOR GATE	119- 86
120♦	4078	TC4078BP	IMTM	NOR GATE	119- 93
121♦	4078	TC4078BP	TOSJ	NOR GATE	119- 93
122♦	4081	883C4081B	SSS	AND GATE	78- 71
123♦	4081	4081BDC	FSC	AND GATE	78- 46
124♦	4081	4081BDM	FSC	AND GATE	78- 47
125♦	4081	*4081BFC	FSC	AND GATE	78- 48
126♦	4081	*4081BFM	FSC	AND GATE	78- 49
127♦	4081	4081BPC	FSC	AND GATE	78- 50
128♦	4081	BCL4081B	SSS	AND GATE	78- 72
129▼	4081	BU4081B	RHM	AND GATE	76- 20
130▼	4081	*BU4081BF	RHM	AND GATE	76- 21
131♦	4081	CD4081BCJ	NSC	AND GATE	78- 67
132♦	4081	CD4081BCN	NSC	AND GATE	78- 68
133♦	4081	CD4081BD	RCA	AND GATE	78- 90
134♦	4081	CD4081BE	RCA	AND GATE	78- 91
135♦	4081	CD4081BF	RCA	AND GATE	78- 92
136♦	4081	CD4081BMJ	NSC	AND GATE	78- 69
137♦	4081	*CD4081BMW	NSC	AND GATE	78- 70
138♦	4081	HCC4081BD	SGSI	AND GATE	78- 98
139♦	4081	HCC4081BF	SGSI	AND GATE	78- 99
140♦	4081	*HCC4081BK	SGSI	AND GATE	78-100
141♦	4081	HCF4081BE	SGSI	AND GATE	78-101
142♦	4081	HCF4081BF	SGSI	AND GATE	78-102
143♦	4081	HEF4081	RTCF	AND GATE	78- 51
144♦	4081	HEF4081BD	MULB	AND GATE	78- 55
145♦	4081	HEF4081BD	PHIN	AND GATE	78- 55
146♦	4081	HEF4081BD	RTCF	AND GATE	78- 55
147♦	4081	HEF4081BD	VALG	AND GATE	78- 55
148♦	4081	HEF4081BP	MULB	AND GATE	78- 56
149♦	4081	HEF4081BP	PHIN	AND GATE	78- 56
150♦	4081	HEF4081BP	RTCF	AND GATE	78- 56
151♦	4081	HEF4081BP	VALG	AND GATE	78- 56
152♦	4081	HEF4081BPN	SIC	AND GATE	78- 52
153♦	4081	*HEF4081BT	MULB	AND GATE	78- 57
154♦	4081	*HEF4081BT	PHIN	AND GATE	78- 57
155♦	4081	*HEF4081BT	RTCF	AND GATE	78- 57
156♦	4081	*HEF4081BT	VALG	AND GATE	78- 57
157♦	4081	*HEF4081BTD	SIC	AND GATE	78- 53
158♦	4081	HEF4081P	MULB	AND GATE	78- 58
159♦	4081	HEF4081P	PHIN	AND GATE	78- 58
160♦	4081	HEF4081P	VALG	AND GATE	78- 58
161♦	4081	LC4081B	TSAJ	AND GATE	78- 94
162♦	4081	*LC4081BM	TSAJ	AND GATE	78- 54
163♦	4081	M4081BP	MITJ	AND GATE	78- 96
164♦	4081	MN4081B	MATJ	AND GATE	78- 65
165♦	4081	MSM4081	OKIJ	AND GATE	78-103
166♦	4081	MSM4081RS	OKIJ	AND GATE	78-104
167♦	4081	SCL4081B	SSS	AND GATE	78- 93
168♦	4081	TC4081BP	IMTM	AND GATE	78- 97
169♦	4081	TC4081BP	TOSJ	AND GATE	78- 97
170♦	4081	*UPD4081BG	NECJ	AND GATE	78- 95
171♦	4082	883C4082B	SSS	AND GATE	83- 5
172♦	4082	4082BDC	FSC	AND GATE	82- 59
173♦	4082	4082BDM	FSC	AND GATE	82- 60
174♦	4082	*4082BFC	FSC	AND GATE	82- 61
175♦	4082	*4082BFM	FSC	AND GATE	82- 62
176♦	4082	4082BPC	FSC	AND GATE	82- 63
177♦	4082	BCL4082B	SSS	AND GATE	83- 6
178♦	4082	CD4082BD	RCA	AND GATE	83- 23
179♦	4082	CD4082BE	RCA	AND GATE	83- 24
180♦	4082	CD4082BF	RCA	AND GATE	83- 25
181♦	4082	HCC4082BD	SGSI	AND GATE	83- 30
182♦	4082	HCC4082BF	SGSI	AND GATE	83- 31
183♦	4082	*HCC4082BK	SGSI	AND GATE	83- 32
184♦	4082	HCF4082BE	SGSI	AND GATE	83- 33
185♦	4082	HCF4082BF	SGSI	AND GATE	83- 34
186♦	4082	HEF4082	RTCF	AND GATE	82-106
187♦	4082	HEF4082BD	MULB	AND GATE	83- 1
188♦	4082	HEF4082BD	PHIN	AND GATE	83- 1
189♦	4082	HEF4082BD	RTCF	AND GATE	83- 1
190♦	4082	HEF4082BD	VALG	AND GATE	83- 1
191♦	4082	HEF4082BP	MULB	AND GATE	83- 2
192♦	4082	HEF4082BP	PHIN	AND GATE	83- 2
193♦	4082	HEF4082BP	RTCF	AND GATE	83- 2
194♦	4082	HEF4082BP	VALG	AND GATE	83- 2
195♦	4082	HEF4082BPN	SIC	AND GATE	82-107
196♦	4082	*HEF4082BT	MULB	AND GATE	83- 3
197♦	4082	*HEF4082BT	PHIN	AND GATE	83- 3
198♦	4082	*HEF4082BT	RTCF	AND GATE	83- 3
199♦	4082	*HEF4082BT	VALG	AND GATE	83- 3
200♦	4082	*HEF4082BTD	SIC	AND GATE	82-108
201♦	4082	HEF4082P	MULB	AND GATE	82- 84
202♦	4082	HEF4082P	PHIN	AND GATE	82- 84
203♦	4082	HEF4082P	VALG	AND GATE	82- 84
204♦	4082	LC4082B	TSAJ	AND GATE	83- 4
205♦	4082	M4082BP	MITJ	AND GATE	83- 27
206♦	4082	MSM4082	OKIJ	AND GATE	83- 28
207♦	4082	MSM4082RS	OKIJ	AND GATE	83- 35
208♦	4082	SCL4082B	SSS	AND GATE	83- 26
209♦	4082	TC4082BP	IMTM	AND GATE	83- 29
210♦	4082	TC4082BP	TOSJ	AND GATE	83- 29
211♦	4082	*UPD4082BG	NECJ	AND GATE	83- 22
212♦	4085	883C4085B	SSS	AND-OR-INV	85- 38
213♦	4085	4085BDC	FSC	AND-OR-INV	85- 39
214♦	4085	4085BDM	FSC	AND-OR-INV	85- 40
215♦	4085	*4085BFC	FSC	AND-OR-INV	85- 41
216♦	4085	*4085BFM	FSC	AND-OR-INV	85- 42
217♦	4085	4085BPC	FSC	AND-OR-INV	85- 43
218♦	4085	BCL4085B	SSS	AND-OR-INV	85- 44
219♦	4085	CD4085BD	RCA	AND-OR-INV	85- 45
220♦	4085	CD4085BE	RCA	AND-OR-INV	85- 46

*Surface mount package style

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1♦	4085	CD4085BF	RCA	AND-OR-INV	85- 47
2♦	4085	HCC4085BD	SGSI	AND-OR-INV	85- 48
3♦	4085	HCC4085BF	SGSI	AND-OR-INV	85- 49
4♦	4085	*HCC4085BK	SGSI	AND-OR-INV	85- 50
5♦	4085	HCF4085BE	SGSI	AND-OR-INV	85- 51
6♦	4085	HCF4085BF	SGSI	AND-OR-INV	85- 52
7♦	4085	HEF4085	RTCF	AND-OR-INV	85- 53
8♦	4085	HEF4085BD	MULB	AND-OR-INV	85- 61
9♦	4085	HEF4085BD	PHIN	AND-OR-INV	85- 61
10♦	4085	HEF4085BD	RTCF	AND-OR-INV	85- 61
11♦	4085	HEF4085BD	VALG	AND-OR-INV	85- 61
12♦	4085	HEF4085BP	MULB	AND-OR-INV	85- 62
13♦	4085	HEF4085BP	PHIN	AND-OR-INV	85- 62
14♦	4085	HEF4085BP	RTCF	AND-OR-INV	85- 62
15♦	4085	HEF4085BP	VALG	AND-OR-INV	85- 62
16♦	4085	HEF4085BPN	SIC	AND-OR-INV	85- 54
17♦	4085	*HEF4085BT	MULB	AND-OR-INV	85- 63
18♦	4085	*HEF4085BT	PHIN	AND-OR-INV	85- 63
19♦	4085	*HEF4085BT	RTCF	AND-OR-INV	85- 63
20♦	4085	*HEF4085BT	VALG	AND-OR-INV	85- 63
21♦	4085	*HEF4085BTD	SIC	AND-OR-INV	85- 55
22♦	4085	HEF4085P	MULB	AND-OR-INV	85- 56
23♦	4085	HEF4085P	PHIN	AND-OR-INV	85- 56
24♦	4085	HEF4085P	VALG	AND-OR-INV	85- 56
25♦	4085	MSM4085	OKIJ	AND-OR-INV	85- 57
26♦	4085	MSM4085RS	OKIJ	AND-OR-INV	85- 58
27♦	4085	SCL4085B	SSS	AND-OR-INV	85- 59
28♦	4085	TC4085BP	IMTM	AND-OR-INV	85- 60
29♦	4085	TC4085BP	TOSJ	AND-OR-INV	85- 60
30♦	4086	883C4086B	SSS	AND-OR-INV	86- 80
31♦	4086	4086BDC	FSC	AND-OR-INV	86- 81
32♦	4086	4086BDM	FSC	AND-OR-INV	86- 82
33♦	4086	*4086BFC	FSC	AND-OR-INV	86- 83
34♦	4086	*4086BFM	FSC	AND-OR-INV	86- 84
35♦	4086	4086BPC	FSC	AND-OR-INV	86- 85
36♦	4086	BCL4086B	SSS	AND-OR-INV	86- 94
37♦	4086	CD4086BD	RCA	AND-OR-INV	86- 95
38♦	4086	CD4086BE	RCA	AND-OR-INV	86- 96
39♦	4086	CD4086BF	RCA	AND-OR-INV	86- 97
40♦	4086	HCC4086BD	SGSI	AND-OR-INV	86-106
41♦	4086	HCC4086BF	SGSI	AND-OR-INV	86-107
42♦	4086	*HCC4086BK	SGSI	AND-OR-INV	86-108
43♦	4086	HCF4086BE	SGSI	AND-OR-INV	86-109
44♦	4086	HCF4086BF	SGSI	AND-OR-INV	86-110
45♦	4086	HEF4086	RTCF	AND-OR-INV	87- 1
46♦	4086	HEF4086B	VALG	AND-OR-INV	87- 2
47♦	4086	HEF4086BD	MULB	AND-OR-INV	87- 30
48♦	4086	HEF4086BD	PHIN	AND-OR-INV	87- 30
49♦	4086	HEF4086BD	RTCF	AND-OR-INV	87- 30
50♦	4086	HEF4086BD	VALG	AND-OR-INV	87- 30
51♦	4086	HEF4086BP	MULB	AND-OR-INV	87- 31
52♦	4086	HEF4086BP	PHIN	AND-OR-INV	87- 31
53♦	4086	HEF4086BP	RTCF	AND-OR-INV	87- 31
54♦	4086	HEF4086BP	VALG	AND-OR-INV	87- 31
55♦	4086	HEF4086BPN	SIC	AND-OR-INV	87- 3
56♦	4086	*HEF4086BT	MULB	AND-OR-INV	87- 32
57♦	4086	*HEF4086BT	PHIN	AND-OR-INV	87- 32
58♦	4086	*HEF4086BT	RTCF	AND-OR-INV	87- 32
59♦	4086	*HEF4086BT	VALG	AND-OR-INV	87- 32
60♦	4086	*HEF4086BTD	SIC	AND-OR-INV	87- 4
61♦	4086	HEF4086P	PHIN	AND-OR-INV	87- 5
62♦	4086	MSM4086	OKIJ	AND-OR-INV	87- 9
63♦	4086	MSM4086RS	OKIJ	AND-OR-INV	87- 10
64♦	4086	SCL4086B	SSS	AND-OR-INV	87- 17
65♦	4086	TC4086BP	IMTM	AND-OR-INV	87- 29
66♦	4086	TC4086BP	TOSJ	AND-OR-INV	87- 29
67♦	4089	CD4089BCJ	NSC	FREQ DIVID	197- 76
68♦	4089	CD4089BCN	NSC	FREQ DIVID	197- 77
69	4089	CD4089BD	RCA	FREQ DIVID	197- 56
70	4089	CD4089BE	RCA	FREQ DIVID	197- 57
71	4089	CD4089BF	RCA	FREQ DIVID	197- 58
72♦	4089	CD4089BMJ	NSC	FREQ DIVID	197- 78
73	4089	*CD4089BMW	NSC	FREQ DIVID	197- 79
74♦	4089	HCC4089BD	SGSI	FREQ DIVID	197- 64
75♦	4089	HCC4089BF	SGSI	FREQ DIVID	197- 65
76	4089	*HCC4089BK	SGSI	FREQ DIVID	197- 66
77♦	4089	HCF4089BE	SGSI	FREQ DIVID	197- 67
78♦	4089	HCF4089BF	SGSI	FREQ DIVID	197- 68
79	4095	CD4095BD	RCA	JK FL-FLOP	65- 16
80	4095	CD4095BE	RCA	JK FL-FLOP	65- 17
81	4095	CD4095BF	RCA	JK FL-FLOP	65- 18
82	4095	HCC4095BD	SGSI	JK FL-FLOP	64-104
83	4095	HCC4095BF	SGSI	JK FL-FLOP	64-105
84	4095	*HCC4095BK	SGSI	JK FL-FLOP	64-106
85	4095	HCF4095BE	SGSI	JK FL-FLOP	64-110
86	4095	HCF4095BF	SGSI	JK FL-FLOP	65- 1
87	4096	CD4096BD	RCA	JK FL-FLOP	65- 19
88	4096	CD4096BE	RCA	JK FL-FLOP	65- 20
89	4096	CD4096BF	RCA	JK FL-FLOP	65- 21
90	4096	HCC4096BD	SGSI	JK FL-FLOP	64-107
91	4096	HCC4096BF	SGSI	JK FL-FLOP	64-108
92	4096	*HCC4096BK	SGSI	JK FL-FLOP	64-109
93	4096	HCF4096BE	SGSI	JK FL-FLOP	65- 2
94	4096	HCF4096BF	SGSI	JK FL-FLOP	65- 3
95	4098	CD4098BD	RCA	CLOCK/MV	189- 90
96	4098	CD4098BE	RCA	CLOCK/MV	189- 91
97	4098	CD4098BF	RCA	CLOCK/MV	189- 92
98	4098	HCC4098BD	SGSI	CLOCK/MV	190- 3
99	4098	HCC4098BF	SGSI	CLOCK/MV	190- 4
100	4098	*HCC4098BK	SGSI	CLOCK/MV	190- 5
101	4098	HCF4098BE	SGSI	CLOCK/MV	190- 6
102	4098	HCF4098BF	SGSI	CLOCK/MV	190- 7
103♦	4099	883C4099B	SSS	8-BIT LCH	244- 73
104♦	4099	BCL4099B	SSS	8-BIT LCH	244- 74
105♦	4099	CD4099BCJ	NSC	8-BIT LCH	241- 15
106♦	4099	CD4099BCN	NSC	8-BIT LCH	241- 16
107♦	4099	CD4099BD	RCA	8-BIT LCH	241- 17
108♦	4099	CD4099BE	RCA	8-BIT LCH	241- 18
109♦	4099	CD4099BF	RCA	8-BIT LCH	241- 19
110♦	4099	CD4099BMJ	NSC	8-BIT LCH	241- 20
111♦	4099	*CD4099BMW	NSC	8-BIT LCH	241- 21
112♦	4099	HCC4099BD	SGSI	8-BIT LCH	240- 92
113♦	4099	HCC4099BF	SGSI	8-BIT LCH	240- 93
114♦	4099	*HCC4099BK	SGSI	8-BIT LCH	240- 94
115♦	4099	HCF4099BE	SGSI	8-BIT LCH	240- 95
116♦	4099	HCF4099BF	SGSI	8-BIT LCH	240- 96
117♦	4099	M4099BP	MITJ	8-BIT LCH	233- 59
118♦	4099	SCL4099B	SSS	8-BIT LCH	244- 75
119♦	4099	TC4099BP	IMTM	8-BIT LCH	241- 48
120♦	4099	TC4099BP	TOSJ	8-BIT LCH	241- 48
121♦	4107	SFC4107E	THEF	JK FL-FLOP	68- 77
122♦	4107	SFC4107EM	THEF	JK FL-FLOP	68- 78
123♦	4107	SFC4107ET	THEF	JK FL-FLOP	68- 79
124♦	4121	SFC4121E	THEF	CLOCK/MV	188-105
125♦	4121	SFC4121EM	THEF	CLOCK/MV	188-106
126♦	4121	SFC4121ET	THEF	CLOCK/MV	188-107
127♦	4121	*SFC4121PM	THEF	CLOCK/MV	188-108
128♦	4122	SFC4122E	THEF	CLOCK/MV	188-109
129♦	4122	SFC4122EM	THEF	CLOCK/MV	188-110
130♦	4122	SFC4122ET	THEF	CLOCK/MV	189- 1
131♦	4122	*SFC4122PM	THEF	CLOCK/MV	189- 2
132♦	4123	SFC4123E	THEF	CLOCK/MV	191- 49
133♦	4123	SFC4123EM	THEF	CLOCK/MV	191- 50
134♦	4123	SFC4123ET	THEF	CLOCK/MV	191- 51
135♦	4154	SFC4154E(2)	THEF	DECODER	125- 99
136♦	4154	SFC4154EM(2)	THEF	DECODER	125-100
137♦	4154	SFC4154ET(2)	THEF	DECODER	125-101
138♦	4155	SFC4155E(2)	THEF	DECODER	125-102
139♦	4155	SFC4155EM(2)	THEF	DECODER	125-103
140♦	4155	SFC4155ET(2)	THEF	DECODER	125-104
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142♦	4160	BCL4160B	SSS	DEC CNTR	173- 47
143♦	4160	SCL4160B	SSS	DEC CNTR	172- 69
144♦	4161	883C4161B	SSS	HEX CNTR	155- 17
145♦	4161	BCL4161B	SSS	HEX CNTR	155- 21
146♦	4161	SCL4161B	SSS	HEX CNTR	154- 44
147♦	4162	883C4162B	SSS	DEC CNTR	173- 46
148♦	4162	BCL4162B	SSS	DEC CNTR	173- 48
149♦	4162	SCL4162B	SSS	DEC CNTR	172- 70
150♦	4163	883C4163B	SSS	HEX CNTR	155- 18
151♦	4163	BCL4163B	SSS	HEX CNTR	155- 22
152♦	4163	SCL4163B	SSS	HEX CNTR	154- 45
153	4174	883C4174B	SSS	D FL-FLOP	56- 13
154	4174	BCL4174B	SSS	D FL-FLOP	56- 14
155	4174	SCL4174B	SSS	D FL-FLOP	49- 73
156	4174	*UPD4174BG	NECJ	D FL-FLOP	56- 15
157	4175	*UPD4175BG	NECJ	D FL-FLOP	54- 19
158♦	4180	SFC4180E	THEF	PARITY GEN	227- 51
159♦	4180	SFC4180EM	THEF	PARITY GEN	227- 52
160♦	4180	SFC4180ET	THEF	PARITY GEN	227- 53
161♦	4180	SFC4180JM	THEF	PARITY GEN	227- 54
162♦	4180	SFC4180KM	THEF	PARITY GEN	227- 55
163♦	4180	*SFC4180PM	THEF	PARITY GEN	227- 56
164♦	4181	SFC4181E	THEF	4-BIT ALU	222- 60
165♦	4181	SFC4181EM	THEF	4-BIT ALU	222- 61
166♦	4181	SFC4181ET	THEF	4-BIT ALU	222- 62
167♦	4181	SFC4181JM	THEF	4-BIT ALU	222- 63
168♦	4181	SFC4181KM	THEF	4-BIT ALU	222- 64
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171♦	4182	SFC4182ET	THEF	PARITY GEN	225- 36
172♦	4192	883C4192B	SSS	DEC CNTR	177-105
173♦	4192	BCL4192B	SSS	DEC CNTR	177-107
174♦	4192	SCL4192B	SSS	DEC CNTR	177- 61
175♦	4192	SFC4192E	THEF	DEC CNTR	179- 82
176♦	4192	SFC4192EM	THEF	DEC CNTR	179- 83
177♦	4192	SFC4192ET	THEF	DEC CNTR	179- 84
178♦	4193	883C4193B	SSS	HEX CNTR	160- 74
179♦	4193	BCL4193B	SSS	HEX CNTR	160- 77
180♦	4193	SCL4193B	SSS	HEX CNTR	159-104
181♦	4193	SFC4193E	THEF	HEX CNTR	162- 94
182♦	4193	SFC4193EM	THEF	HEX CNTR	162- 95
183♦	4193	SFC4193ET	THEF	HEX CNTR	162- 96
184♦	4283	SFC4283LSE	THEF	ADDER	200- 37
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187	4300	MC4300L	MOTA	DECODER	126- 4
188♦	4306	*MC4306F	MOTA	DECODER	125- 31
189♦	4307	MC4307L	MOTA	DECODER	126- 13
190♦	4308	*MC4308F	MOTA	PARITY GEN	226- 15
191♦	4308	MC4308L	MOTA	PARITY GEN	226- 16
192♦	4310	*MC4310F	MOTA	PARITY GEN	226- 8
193♦	4310	MC4310L	MOTA	PARITY GEN	226- 9
194♦	4316	*MC4316F	MOTA	MOD-N CNTR	185- 53
195♦	4316	MC4316L	MOTA	MOD-N CNTR	185- 54
196♦	4316	MC4316P	MOTA	MOD-N CNTR	185- 55
197♦	4317	*MC4317F	MOTA	MOD-N CNTR	185- 41
198♦	4317	MC4317L	MOTA	MOD-N CNTR	185- 42
199♦	4317	MC4317P	MOTA	MOD-N CNTR	185- 43
200♦	4318	*MC4318F	MOTA	MOD-N CNTR	185-110
201♦	4318	MC4318L	MOTA	MOD-N CNTR	186- 1
202♦	4318	MC4318P	MOTA	MOD-N CNTR	186- 2
203♦	4319	*MC4319F	MOTA	MOD-N CNTR	185- 38
204♦	4319	MC4319L	MOTA	MOD-N CNTR	185- 39
205♦	4319	MC4319P	MOTA	MOD-N CNTR	185- 40
206♦	4324	*MC4324F	MOTA	CLOCK/MV	188- 17
207♦	4324	MC4324L	MOTA	CLOCK/MV	188- 18
208♦	4326	*MC4326F	MOTA	ADDER	198- 57
209♦	4326	MC4326L	MOTA	ADDER	198- 58
210♦	4328	*MC4328F	MOTA	ADDER	198- 59
211♦	4328	MC4328L	MOTA	ADDER	198- 60
212♦	4330	*MC4330F	MOTA	ADDER	198- 61
213♦	4330	MC4330L	MOTA	ADDER	198- 62
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215	4332	MC4332L	MOTA	DECODER	125- 60
216♦	4335	*MC4335F	MOTA	4-BIT LCH	232- 13
217♦	4335	MC4335L	MOTA	4-BIT LCH	232- 14
218♦	4337	*MC4337F	MOTA	4-BIT LCH	231- 34
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*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

GENERIC PRODUCT INDEX

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2♦	4402	BCL4402B	SSS	NOR GATE	118- 87
3♦	4402	SCL4402B	SSS	NOR GATE	119- 2
4♦	4404	883C4404B	SSS	COUNTER	169- 1
5♦	4404	BCL4404B	SSS	COUNTER	169- 2
6♦	4404	SCL4404B	SSS	COUNTER	168-110
7♦	4412	883C4412B	SSS	NAND GATE	107- 99
8♦	4412	BCL4412B	SSS	NAND GATE	107-101
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11	4428	BCL4428B	SSS	DECODER	125- 11
12	4428	SCL4428B	SSS	DECODER	125- 48
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14	4445	BCL4445B	SSS	FREQ DIVID	194- 60
15♦	4445	SCL4445B	SSS	FREQ DIVID	194- 3
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19♦	4508	CD4508BD	RCA	4-BIT LCH	232- 65
20♦	4508	CD4508BE	RCA	4-BIT LCH	232- 66
21♦	4508	CD4508BF	RCA	4-BIT LCH	232- 67
22♦	4508	HCC4508BD	SGSI	4-BIT LCH	232- 7
23	4508	*HCC4508BK	SGSI	4-BIT LCH	232- 8
24♦	4508	HCF4508BD	SGSI	4-BIT LCH	232- 9
25	4508	HCF4508BE	SGSI	4-BIT LCH	232- 10
26	4508	HEF4508	RTCF	4-BIT LCH	231-106
27♦	4508	HEF4508BD	MULB	4-BIT LCH	232- 55
28♦	4508	HEF4508BD	PHIN	4-BIT LCH	232- 55
29♦	4508	HEF4508BD	RTCF	4-BIT LCH	232- 55
30♦	4508	HEF4508BD	VALG	4-BIT LCH	232- 55
31♦	4508	HEF4508BP	MULB	4-BIT LCH	232- 56
32♦	4508	HEF4508BP	PHIN	4-BIT LCH	232- 56
33♦	4508	HEF4508BP	RTCF	4-BIT LCH	232- 56
34♦	4508	HEF4508BP	VALG	4-BIT LCH	232- 56
35♦	4508	HEF4508BPN	SIC	4-BIT LCH	231-107
36♦	4508	*HEF4508BT	MULB	4-BIT LCH	232- 57
37♦	4508	*HEF4508BT	PHIN	4-BIT LCH	232- 57
38♦	4508	*HEF4508BT	RTCF	4-BIT LCH	232- 57
39♦	4508	*HEF4508BT	VALG	4-BIT LCH	232- 57
40♦	4508	M4508BP	MITJ	4-BIT LCH	230- 14
41♦	4508	MSM4508RS	OKIJ	4-BIT LCH	233- 9
42	4508	SCL4508B	SSS	4-BIT LCH	233- 1
43♦	4508	TC4508BP	TOSJ	4-BIT LCH	232-110
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46♦	4510	4510BDM	FSC	DEC CNTR	177- 75
47♦	4510	*4510BFC	FSC	DEC CNTR	177- 76
48♦	4510	*4510BFM	FSC	DEC CNTR	177- 77
49♦	4510	4510BPC	FSC	DEC CNTR	177- 78
50♦	4510	BCL4510B	SSS	DEC CNTR	177-108
51♦	4510	CD4510BCJ	NSC	DEC CNTR	177- 68
52♦	4510	CD4510BCN	NSC	DEC CNTR	177- 69
53♦	4510	CD4510BD	RCA	DEC CNTR	177- 55
54♦	4510	CD4510BE	RCA	DEC CNTR	177- 56
55♦	4510	CD4510BF	RCA	DEC CNTR	177- 57
56♦	4510	*CD4510BK	RCA	DEC CNTR	177- 58
57♦	4510	CD4510BMJ	NSC	DEC CNTR	177- 70
58♦	4510	*CD4510BMW	NSC	DEC CNTR	177- 71
59♦	4510	HCC4510BD	SGSI	DEC CNTR	177-109
60♦	4510	HCC4510BF	SGSI	DEC CNTR	177-110
61♦	4510	*HCC4510BK	SGSI	DEC CNTR	178- 1
62♦	4510	HCF4510BE	SGSI	DEC CNTR	178- 2
63♦	4510	HCF4510BF	SGSI	DEC CNTR	178- 3
64♦	4510	HEF4510	RTCF	DEC CNTR	178- 41
65♦	4510	HEF4510B	VALG	DEC CNTR	178- 11
66♦	4510	HEF4510BD	MULB	DEC CNTR	178- 89
67♦	4510	HEF4510BD	PHIN	DEC CNTR	178- 89
68♦	4510	HEF4510BD	RTCF	DEC CNTR	178- 89
69♦	4510	HEF4510BD	VALG	DEC CNTR	178- 89
70♦	4510	HEF4510BP	MULB	DEC CNTR	178- 90
71♦	4510	HEF4510BP	PHIN	DEC CNTR	178- 90
72♦	4510	HEF4510BP	RTCF	DEC CNTR	178- 90
73♦	4510	HEF4510BP	VALG	DEC CNTR	178- 90
74♦	4510	HEF4510BPN	SIC	DEC CNTR	178- 42
75♦	4510	*HEF4510BT	MULB	DEC CNTR	178- 91
76♦	4510	*HEF4510BT	PHIN	DEC CNTR	178- 91
77♦	4510	*HEF4510BT	RTCF	DEC CNTR	178- 91
78♦	4510	*HEF4510BT	VALG	DEC CNTR	178- 91
79♦	4510	*HEF4510BTD	SIC	DEC CNTR	177- 21
80♦	4510	M4510BP	MITJ	DEC CNTR	177- 53
81♦	4510	MSM4510RS	OKIJ	DEC CNTR	177- 49
82♦	4510	SCL4510B	SSS	DEC CNTR	177- 62
83♦	4510	TC4510BP	IMTM	DEC CNTR	177- 54
84♦	4510	TC4510BP	TOSJ	DEC CNTR	177- 54
85♦	4510	*UPD4510BG	NECJ	DEC CNTR	177-102
86	4514	883C4514B	SSS	DECODER	125- 65
87	4514	BCL4514B	SSS	DECODER	125- 70
88	4514	CD4514BC	NSC	DECODER	125- 73
89	4514	CD4514BD(2)	RCA	DECODER	125- 74
90	4514	CD4514BE(2)	RCA	DECODER	125- 75
91	4514	CD4514BF(2)	RCA	DECODER	125- 76
92	4514	CD4514BM	NSC	DECODER	125- 77
93♦	4514	HCC4514BD	SGSI	DECODER	125- 87
94♦	4514	HCF4514BD	SGSI	DECODER	125- 89
95♦	4514	HCF4514BE	SGSI	DECODER	125- 90
96♦	4514	M4514BP(2)	MITJ	DECODER	125- 97
97	4515	883C4515B	SSS	DECODER	125- 66
98	4515	BCL4515B	SSS	DECODER	125- 71
99	4515	CD4515BC	NSC	DECODER	125- 78
100	4515	CD4515BD(2)	RCA	DECODER	125- 79
101	4515	CD4515BE(2)	RCA	DECODER	125- 80
102	4515	CD4515BF(2)	RCA	DECODER	125- 81
103	4515	CD4515BH	RCA	DECODER	125- 82
104	4515	CD4515BM	NSC	DECODER	125- 83
105♦	4515	HCC4515BD	SGSI	DECODER	125- 88
106♦	4515	HCF4515BD	SGSI	DECODER	125- 91
107♦	4515	HCF4515BE	SGSI	DECODER	125- 92
108♦	4515	M4515BP(2)	MITJ	DECODER	125- 98
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110♦	4516	4516BDC	FSC	HEX CNTR	160- 28
111♦	4516	4516BDM	FSC	HEX CNTR	160- 29
112♦	4516	*4516BFC	FSC	HEX CNTR	160- 30
113♦	4516	*4516BFM	FSC	HEX CNTR	160- 31
114♦	4516	4516BPC	FSC	HEX CNTR	160- 32
115♦	4516	BCL4516B	SSS	HEX CNTR	160- 78
116♦	4516	CD4516BCJ	NSC	HEX CNTR	160- 8
117♦	4516	CD4516BCN	NSC	HEX CNTR	160- 9
118♦	4516	CD4516BD	RCA	HEX CNTR	159- 98
119♦	4516	CD4516BE	RCA	HEX CNTR	159- 99
120♦	4516	CD4516BF	RCA	HEX CNTR	159-100
121♦	4516	*CD4516BK	RCA	HEX CNTR	159-101
122♦	4516	CD4516BMJ	NSC	HEX CNTR	160- 10
123♦	4516	*CD4516BMW	NSC	HEX CNTR	160- 11
124♦	4516	HCC4516BD	SGSI	HEX CNTR	160- 82
125♦	4516	HCC4516BF	SGSI	HEX CNTR	160- 83
126♦	4516	*HCC4516BK	SGSI	HEX CNTR	160- 84
127♦	4516	HCF4516BE	SGSI	HEX CNTR	160- 87
128♦	4516	HCF4516BF	SGSI	HEX CNTR	160- 88
129♦	4516	HEF4516	RTCF	HEX CNTR	161- 58
130♦	4516	HEF4516B	VALG	HEX CNTR	160- 94
131♦	4516	HEF4516BD	MULB	HEX CNTR	161- 18
132♦	4516	HEF4516BD	PHIN	HEX CNTR	161- 18
133♦	4516	HEF4516BD	RTCF	HEX CNTR	161- 18
134♦	4516	HEF4516BD	VALG	HEX CNTR	161- 18
135♦	4516	HEF4516BP	MULB	HEX CNTR	161- 19
136♦	4516	HEF4516BP	PHIN	HEX CNTR	161- 19
137♦	4516	HEF4516BP	RTCF	HEX CNTR	161- 19
138♦	4516	HEF4516BP	VALG	HEX CNTR	161- 19
139♦	4516	HEF4516BPN	SIC	HEX CNTR	161- 59
140♦	4516	*HEF4516BT	MULB	HEX CNTR	161- 20
141♦	4516	*HEF4516BT	PHIN	HEX CNTR	161- 20
142♦	4516	*HEF4516BT	RTCF	HEX CNTR	161- 20
143♦	4516	*HEF4516BT	VALG	HEX CNTR	161- 20
144♦	4516	*HEF4516BTD	SIC	HEX CNTR	163- 5
145♦	4516	M4516BP	MITJ	HEX CNTR	159- 96
146♦	4516	MN4516B	MATJ	HEX CNTR	163- 6
147♦	4516	MSM4516RS	OKIJ	HEX CNTR	159- 93
148♦	4516	SCL4516B	SSS	HEX CNTR	159-105
149♦	4516	TC4516BP	IMTM	HEX CNTR	159- 97
150♦	4516	TC4516BP	TOSJ	HEX CNTR	159- 97
151♦	4516	*UPD4516BG	NECJ	HEX CNTR	160- 58
152♦	4518	883C4518B	SSS	DEC CNTR	181- 8
153♦	4518	4518BDC	FSC	DEC CNTR	180- 92
154♦	4518	4518BDM	FSC	DEC CNTR	180- 93
155♦	4518	*4518BFC	FSC	DEC CNTR	180-107
156♦	4518	*4518BFM	FSC	DEC CNTR	180-108
157♦	4518	4518BPC	FSC	DEC CNTR	180-109
158♦	4518	BCL4518B	SSS	DEC CNTR	181- 9
159♦	4518	CD4518BCJ	NSC	DEC CNTR	180-100
160♦	4518	CD4518BCN	NSC	DEC CNTR	180-101
161♦	4518	CD4518BD	RCA	DEC CNTR	180-110
162♦	4518	CD4518BE	RCA	DEC CNTR	181- 1
163♦	4518	CD4518BF	RCA	DEC CNTR	181- 2
164♦	4518	CD4518BMJ	NSC	DEC CNTR	180-102
165♦	4518	*CD4518BMW	NSC	DEC CNTR	180-103
166♦	4518	HCC4518BD	SGSI	DEC CNTR	181- 3
167♦	4518	HCC4518BF	SGSI	DEC CNTR	181- 4
168♦	4518	*HCC4518BK	SGSI	DEC CNTR	181- 5
169♦	4518	HCF4518BE	SGSI	DEC CNTR	181- 6
170♦	4518	HCF4518BF	SGSI	DEC CNTR	181- 7
171♦	4518	HEF4518	RTCF	DEC CNTR	181- 26
172♦	4518	HEF4518BD	MULB	DEC CNTR	181- 61
173♦	4518	HEF4518BD	PHIN	DEC CNTR	181- 61
174♦	4518	HEF4518BD	RTCF	DEC CNTR	181- 61
175♦	4518	HEF4518BD	VALG	DEC CNTR	181- 61
176♦	4518	HEF4518BP	MULB	DEC CNTR	181- 62
177♦	4518	HEF4518BP	PHIN	DEC CNTR	181- 62
178♦	4518	HEF4518BP	RTCF	DEC CNTR	181- 62
179♦	4518	HEF4518BP	VALG	DEC CNTR	181- 62
180♦	4518	HEF4518BPN	SIC	DEC CNTR	181- 27
181♦	4518	*HEF4518BT	MULB	DEC CNTR	181- 63
182♦	4518	*HEF4518BT	PHIN	DEC CNTR	181- 63
183♦	4518	*HEF4518BT	RTCF	DEC CNTR	181- 63
184♦	4518	*HEF4518BT	VALG	DEC CNTR	181- 63
185♦	4518	*HEF4518BTD	SIC	DEC CNTR	181- 50
186♦	4518	HEF4518P	MULB	DEC CNTR	181- 28
187♦	4518	HEF4518P	PHIN	DEC CNTR	181- 28
188♦	4518	HEF4518P	VALG	DEC CNTR	181- 28
189♦	4518	M4518BP	MITJ	DEC CNTR	180-104
190♦	4518	MN4518B	MATJ	DEC CNTR	181- 51
191♦	4518	MSM4518	OKIJ	DEC CNTR	181- 25
192♦	4518	MSM4518RS	OKIJ	DEC CNTR	180-105
193♦	4518	SCL4518B	SSS	DEC CNTR	180- 99
194♦	4518	TC4518BP	IMTM	DEC CNTR	180-106
195♦	4518	TC4518BP	TOSJ	DEC CNTR	180-106
196♦	4520	883C4520B	SSS	HEX CNTR	164- 36
197♦	4520	4520BDC	FSC	HEX CNTR	164- 23
198♦	4520	4520BDM	FSC	HEX CNTR	164- 24
199♦	4520	*4520BFC	FSC	HEX CNTR	164- 25
200♦	4520	*4520BFM	FSC	HEX CNTR	164- 26
201♦	4520	4520BPC	FSC	HEX CNTR	164- 27
202♦	4520	BCL4520B	SSS	HEX CNTR	164- 37
203♦	4520	CD4520BCJ	NSC	HEX CNTR	164- 16
204♦	4520	CD4520BCN	NSC	HEX CNTR	164- 17
205♦	4520	CD4520BD	RCA	HEX CNTR	164- 28
206♦	4520	CD4520BE	RCA	HEX CNTR	164- 29
207♦	4520	CD4520BF	RCA	HEX CNTR	164- 30
208♦	4520	CD4520BMJ	NSC	HEX CNTR	164- 18
209♦	4520	*CD4520BMW	NSC	HEX CNTR	164- 19
210♦	4520	HCC4520BD	SGSI	HEX CNTR	164- 31
211♦	4520	HCC4520BF	SGSI	HEX CNTR	164- 32
212♦	4520	*HCC4520BK	SGSI	HEX CNTR	164- 33
213♦	4520	HCF4520BE	SGSI	HEX CNTR	164- 34
214♦	4520	HCF4520BF	SGSI	HEX CNTR	164- 35
215♦	4520	HEF4520	RTCF	HEX CNTR	164- 56
216♦	4520	HEF4520BD	MULB	HEX CNTR	165- 1
217♦	4520	HEF4520BD	PHIN	HEX CNTR	165- 1
218♦	4520	HEF4520BD	RTCF	HEX CNTR	165- 1
219♦	4520	HEF4520BD	VALG	HEX CNTR	165- 1
220♦	4520	HEF4520BP	MULB	HEX CNTR	165- 2

*Surface mount package style

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2♦	4520	HEF4520BP	RTCF	HEX CNTR	165- 2
3♦	4520	HEF4520BP	VALG	HEX CNTR	165- 2
4♦	4520	HEF4520BPN	SIC	HEX CNTR	164- 57
5♦	4520	*HEF4520BT	MULB	HEX CNTR	165- 3
6♦	4520	*HEF4520BT	PHIN	HEX CNTR	165- 3
7♦	4520	*HEF4520BT	RTCF	HEX CNTR	165- 3
8♦	4520	*HEF4520BT	VALG	HEX CNTR	165- 3
9♦	4520	*HEF4520BTD	SIC	HEX CNTR	164- 88
10♦	4520	HEF4520P	MULB	HEX CNTR	164- 58
11♦	4520	HEF4520P	PHIN	HEX CNTR	164- 58
12♦	4520	HEF4520P	VALG	HEX CNTR	164- 58
13♦	4520	LC4520B	TSAJ	HEX CNTR	164- 12
14♦	4520	M4520BP	MITJ	HEX CNTR	164- 20
15♦	4520	MN4520B	MATJ	HEX CNTR	164- 89
16♦	4520	MSM4520	OKIJ	HEX CNTR	164- 53
17♦	4520	MSM4520RS	OKIJ	HEX CNTR	164- 21
18♦	4520	*NJU4520BD	NJRC	HEX CNTR	164- 54
19♦	4520	NJU4520BM	NJRC	HEX CNTR	164- 55
20♦	4520	SCL4520B	SSS	HEX CNTR	164- 15
21♦	4520	TC4520BP	IMTM	HEX CNTR	164- 22
22♦	4520	TC4520BP	TOSJ	HEX CNTR	164- 22
23	4521	CD4521BD	RCA	FREQ DIVID	194- 4
24	4521	CD4521BE	RCA	FREQ DIVID	194- 5
25	4521	CD4521BF	RCA	FREQ DIVID	194- 6
26♦	4521	*CD4521BK	RCA	FREQ DIVID	194- 7
27	4521	HEF4521	RTCF	FREQ DIVID	194- 65
28♦	4521	HEF4521BD	MULB	FREQ DIVID	196- 54
29♦	4521	HEF4521BD	PHIN	FREQ DIVID	196- 54
30♦	4521	HEF4521BD	RTCF	FREQ DIVID	196- 54
31♦	4521	HEF4521BD	VALG	FREQ DIVID	196- 54
32♦	4521	HEF4521BP	MULB	FREQ DIVID	196- 55
33♦	4521	HEF4521BP	PHIN	FREQ DIVID	196- 55
34♦	4521	HEF4521BP	RTCF	FREQ DIVID	196- 55
35♦	4521	HEF4521BP	VALG	FREQ DIVID	196- 55
36♦	4521	HEF4521BPN	SIC	FREQ DIVID	194- 66
37♦	4521	*HEF4521BT	MULB	FREQ DIVID	196- 56
38♦	4521	*HEF4521BT	PHIN	FREQ DIVID	196- 56
39♦	4521	*HEF4521BT	RTCF	FREQ DIVID	196- 56
40♦	4521	*HEF4521BT	VALG	FREQ DIVID	196- 56
41	4521	*HEF4521BTD	SIC	FREQ DIVID	194- 67
42♦	4521	M4521BP	MITJ	FREQ DIVID	194- 19
43♦	4521	TC4521BP	IMTM	FREQ DIVID	194- 20
44♦	4521	TC4521BP	TOSJ	FREQ DIVID	194- 20
45♦	4522	883C4522B	SSS	DEC CNTR	177- 4
46♦	4522	BCL4522B	SSS	DEC CNTR	177- 5
47♦	4522	CD4522BC	NSC	DEC CNTR	177- 6
48♦	4522	CD4522BD(A)	RCA	DEC CNTR	177- 8
49♦	4522	CD4522BE(A)	RCA	DEC CNTR	177- 9
50♦	4522	CD4522BF(A)	RCA	DEC CNTR	177- 10
51♦	4522	*CD4522BK(A)	RCA	DEC CNTR	177- 11
52♦	4522	CD4522BM	NSC	DEC CNTR	177- 7
53♦	4522	HEF4522	RTCF	DEC CNTR	176- 97
54♦	4522	HEF4522BD	MULB	DEC CNTR	177- 16
55♦	4522	HEF4522BD	PHIN	DEC CNTR	177- 16
56♦	4522	HEF4522BD	RTCF	DEC CNTR	177- 16
57♦	4522	HEF4522BD	VALG	DEC CNTR	177- 16
58♦	4522	HEF4522BP	MULB	DEC CNTR	177- 17
59♦	4522	HEF4522BP	PHIN	DEC CNTR	177- 17
60♦	4522	HEF4522BP	RTCF	DEC CNTR	177- 17
61♦	4522	HEF4522BP	VALG	DEC CNTR	177- 17
62♦	4522	HEF4522BPN	SIC	DEC CNTR	176- 98
63♦	4522	*HEF4522BT	MULB	DEC CNTR	177- 18
64♦	4522	*HEF4522BT	PHIN	DEC CNTR	177- 18
65♦	4522	*HEF4522BT	RTCF	DEC CNTR	177- 18
66♦	4522	*HEF4522BT	VALG	DEC CNTR	177- 18
67♦	4522	*HEF4522BTD	SIC	DEC CNTR	177- 19
68♦	4522	SCL4522B	SSS	DEC CNTR	176- 99
69♦	4522	TC4522BP	IMTM	DEC CNTR	177- 3
70♦	4522	TC4522BP	TOSJ	DEC CNTR	177- 3
71♦	4526	883C4526B	SSS	HEX CNTR	159- 59
72♦	4526	BCL4526B	SSS	HEX CNTR	159- 60
73♦	4526	CD4526BC	NSC	HEX CNTR	159- 61
74♦	4526	CD4526BM	NSC	HEX CNTR	159- 62
75♦	4526	HEF4526	RTCF	HEX CNTR	159- 42
76♦	4526	HEF4526BD	MULB	HEX CNTR	159- 63
77♦	4526	HEF4526BD	PHIN	HEX CNTR	159- 63
78♦	4526	HEF4526BD	RTCF	HEX CNTR	159- 63
79♦	4526	HEF4526BD	VALG	HEX CNTR	159- 63
80♦	4526	HEF4526BP	MULB	HEX CNTR	159- 64
81♦	4526	HEF4526BP	PHIN	HEX CNTR	159- 64
82♦	4526	HEF4526BP	RTCF	HEX CNTR	159- 64
83♦	4526	HEF4526BP	VALG	HEX CNTR	159- 64
84♦	4526	HEF4526BPN	SIC	HEX CNTR	159- 43
85♦	4526	*HEF4526BT	MULB	HEX CNTR	159- 65
86♦	4526	*HEF4526BT	PHIN	HEX CNTR	159- 65
87♦	4526	*HEF4526BT	RTCF	HEX CNTR	159- 65
88♦	4526	*HEF4526BT	VALG	HEX CNTR	159- 65
89♦	4526	*HEF4526BTD	SIC	HEX CNTR	159- 66
90♦	4526	SCL4526B	SSS	HEX CNTR	159- 44
91♦	4526	TC4526BP	IMTM	HEX CNTR	159- 58
92♦	4526	TC4526BP	TOSJ	HEX CNTR	159- 58
93	4527	883C4527B	SSS	FREQ DIVID	197- 80
94	4527	BCL4527B	SSS	FREQ DIVID	197- 82
95♦	4527	CD4527BCJ	NSC	FREQ DIVID	197- 69
96♦	4527	CD4527BCN	NSC	FREQ DIVID	197- 70
97	4527	CD4527BD	RCA	FREQ DIVID	197- 71
98	4527	CD4527BE	RCA	FREQ DIVID	197- 72
99	4527	CD4527BF	RCA	FREQ DIVID	197- 73
100♦	4527	CD4527BMJ	NSC	FREQ DIVID	197- 74
101	4527	*CD4527BMW	NSC	FREQ DIVID	197- 75
102♦	4527	HCC4527BD	SGSI	FREQ DIVID	197- 59
103♦	4527	HCC4527BF	SGSI	FREQ DIVID	197- 60
104	4527	*HCC4527BK	SGSI	FREQ DIVID	197- 61
105♦	4527	HCF4527BE	SGSI	FREQ DIVID	197- 62
106♦	4527	HCF4527BF	SGSI	FREQ DIVID	197- 63
107♦	4527	HEF4527BD	MULB	FREQ DIVID	197- 84
108♦	4527	HEF4527BD	PHIN	FREQ DIVID	197- 84
109♦	4527	HEF4527BD	RTCF	FREQ DIVID	197- 84
110♦	4527	HEF4527BD	VALG	FREQ DIVID	197- 84
111♦	4527	HEF4527BP	MULB	FREQ DIVID	197- 83
112♦	4527	HEF4527BP	PHIN	FREQ DIVID	197- 83
113♦	4527	HEF4527BP	RTCF	FREQ DIVID	197- 83
114♦	4527	HEF4527BP	VALG	FREQ DIVID	197- 83
115♦	4527	HEF4527BPN	SIC	FREQ DIVID	197- 81
116♦	4527	*HEF4527BT	PHIN	FREQ DIVID	197- 85
117♦	4527	SCL4527B	SSS	FREQ DIVID	197- 42
118♦	4527	TC4527BP	IMTM	FREQ DIVID	197- 41
119♦	4527	TC4527BP	TOSJ	FREQ DIVID	197- 41
120	4528	883C4528B	SSS	CLOCK/MV	189- 45
121♦	4528	4528BDC	FSC	CLOCK/MV	189- 47
122♦	4528	4528BDM	FSC	CLOCK/MV	189- 48
123	4528	*4528BFC	FSC	CLOCK/MV	189- 49
124	4528	*4528BFM	FSC	CLOCK/MV	189- 50
125	4528	4528BPC	FSC	CLOCK/MV	189- 51
126	4528	BCL4528B	SSS	CLOCK/MV	189- 63
127♦	4528	HEF4528B	VALG	CLOCK/MV	190- 17
128♦	4528	HEF4528BD	MULB	CLOCK/MV	190- 18
129♦	4528	HEF4528BD	PHIN	CLOCK/MV	190- 18
130♦	4528	HEF4528BD	RTCF	CLOCK/MV	190- 18
131♦	4528	HEF4528BD	VALG	CLOCK/MV	190- 18
132♦	4528	HEF4528BP	MULB	CLOCK/MV	190- 19
133♦	4528	HEF4528BP	PHIN	CLOCK/MV	190- 19
134♦	4528	HEF4528BP	RTCF	CLOCK/MV	190- 19
135♦	4528	HEF4528BP	VALG	CLOCK/MV	190- 19
136♦	4528	*HEF4528BT	MULB	CLOCK/MV	190- 20
137♦	4528	*HEF4528BT	PHIN	CLOCK/MV	190- 20
138♦	4528	*HEF4528BT	RTCF	CLOCK/MV	190- 20
139♦	4528	*HEF4528BT	VALG	CLOCK/MV	190- 20
140♦	4528	LC4528B	TSAJ	CLOCK/MV	190- 26
141♦	4528	M4528BP	MITJ	CLOCK/MV	190- 46
142♦	4528	MN4528B	MATJ	CLOCK/MV	190-100
143♦	4528	SCL4528B(1)	SSS	CLOCK/MV	191- 48
144♦	4528	TC4528BP	IMTM	CLOCK/MV	191- 76
145♦	4528	TC4528BP	TOSJ	CLOCK/MV	191- 76
146	4528	*UPD4528BG	NECJ	CLOCK/MV	191- 78
147	4530	TC4530BP	IMTM	SPECIAL	246- 11
148	4530	TC4530BP	TOSJ	SPECIAL	246- 11
149	4531	883C4531B	SSS	PARITY GEN	228- 17
150♦	4531	4531BDC	FSC	PARITY GEN	228- 12
151♦	4531	4531BDM	FSC	PARITY GEN	228- 13
152	4531	*4531BFC	FSC	PARITY GEN	228- 14
153	4531	*4531BFM	FSC	PARITY GEN	228- 15
154	4531	4531BPC	FSC	PARITY GEN	228- 16
155	4531	BCL4531B	SSS	PARITY GEN	228- 18
156	4531	HEF4531	RTCF	PARITY GEN	228- 6
157♦	4531	HEF4531B	VALG	PARITY GEN	227- 80
158♦	4531	HEF4531BD	MULB	PARITY GEN	228- 9
159♦	4531	HEF4531BD	PHIN	PARITY GEN	228- 9
160♦	4531	HEF4531BD	RTCF	PARITY GEN	228- 9
161♦	4531	HEF4531BD	VALG	PARITY GEN	228- 9
162♦	4531	HEF4531BP	MULB	PARITY GEN	228- 10
163♦	4531	HEF4531BP	PHIN	PARITY GEN	228- 10
164♦	4531	HEF4531BP	RTCF	PARITY GEN	228- 10
165♦	4531	HEF4531BP	VALG	PARITY GEN	228- 10
166♦	4531	HEF4531BPN	SIC	PARITY GEN	228- 7
167♦	4531	*HEF4531BT	MULB	PARITY GEN	228- 11
168♦	4531	*HEF4531BT	PHIN	PARITY GEN	228- 11
169♦	4531	*HEF4531BT	RTCF	PARITY GEN	228- 11
170♦	4531	*HEF4531BT	VALG	PARITY GEN	228- 11
171	4531	*HEF4531BTD	SIC	PARITY GEN	228- 8
172♦	4531	SCL4531B	SSS	PARITY GEN	228- 33
173♦	4531	SP4531(2)	PLSB	FREQ DIVID	195- 27
174♦	4531	TC4531BP	IMTM	PARITY GEN	228- 32
175♦	4531	TC4531BP	TOSJ	PARITY GEN	228- 32
176♦	4534	HEF4534	RTCF	DEC CNTR	182- 99
177♦	4534	HEF4534BD	MULB	DEC CNTR	182- 79
178♦	4534	HEF4534BD	PHIN	DEC CNTR	182- 79
179♦	4534	HEF4534BD	RTCF	DEC CNTR	182- 79
180♦	4534	HEF4534BD	VALG	DEC CNTR	182- 79
181♦	4534	HEF4534BP	MULB	DEC CNTR	182- 80
182♦	4534	HEF4534BP	PHIN	DEC CNTR	182- 80
183♦	4534	HEF4534BP	RTCF	DEC CNTR	182- 80
184♦	4534	HEF4534BP	VALG	DEC CNTR	182- 80
185♦	4534	*HEF4534BT	MULB	DEC CNTR	182- 81
186♦	4534	*HEF4534BT	PHIN	DEC CNTR	182- 81
187♦	4534	*HEF4534BT	RTCF	DEC CNTR	182- 81
188♦	4534	*HEF4534BT	VALG	DEC CNTR	182- 81
189▼	4538	BU4538B	RHM	CLOCK/MV	189- 64
190▼	4538	*BU4538BF	RHM	CLOCK/MV	189- 65
191♦	4538	CD4538BD	RCA	CLOCK/MV	189- 93
192♦	4538	CD4538BE	RCA	CLOCK/MV	189- 94
193♦	4538	CD4538BF	RCA	CLOCK/MV	189- 95
194♦	4538	HEF4538BD	MULB	CLOCK/MV	190- 21
195♦	4538	HEF4538BD	PHIN	CLOCK/MV	190- 21
196♦	4538	HEF4538BD	RTCF	CLOCK/MV	190- 21
197♦	4538	HEF4538BD	VALG	CLOCK/MV	190- 21
198♦	4538	HEF4538BDF	SIC	CLOCK/MV	191- 80
199♦	4538	HEF4538BP	MULB	CLOCK/MV	190- 22
200♦	4538	HEF4538BP	PHIN	CLOCK/MV	190- 22
201♦	4538	HEF4538BP	RTCF	CLOCK/MV	190- 22
202♦	4538	HEF4538BP	VALG	CLOCK/MV	190- 22
203♦	4538	HEF4538BPN	SIC	CLOCK/MV	191- 81
204♦	4538	*HEF4538BT	MULB	CLOCK/MV	190- 23
205♦	4538	*HEF4538BT	PHIN	CLOCK/MV	190- 23
206♦	4538	*HEF4538BT	RTCF	CLOCK/MV	190- 23
207♦	4538	*HEF4538BT	VALG	CLOCK/MV	190- 23
208	4538	*HEF4538BTD	SIC	CLOCK/MV	190- 24
209♦	4538	M4538BP	MITJ	CLOCK/MV	190- 47
210	4538	*UPD4538BG	NECJ	CLOCK/MV	191- 79
211♦	4541	HEF4541BD	PHIN	CLOCK/MV	187- 99
212♦	4541	HEF4541BP	PHIN	CLOCK/MV	187-100
213♦	4541	*HEF4541BT	PHIN	CLOCK/MV	187-101
214	4555	BCL4555B	SSS	DECODER	126- 23
215♦	4555	SCL4555B(2)	SSS	DECODER	126- 16
216	4556	883C4556B	SSS	DECODER	126- 8
217	4556	BCL4556B	SSS	DECODER	126- 9
218	4556	*HCC4556BK	SGSI	DECODER	126- 10
219	4560	CD4560BD	RCA	ADDER	201- 41
220	4560	CD4560BE	RCA	ADDER	201- 42

*Surface mount package style

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1	4560	CD4560BF	RCA	ADDER	201- 43
2	4560	*CD4560BK	RCA	ADDER	201- 44
3♦	4560	TC4560BP	IMTM	ADDER	201- 62
4♦	4560	TC4560BP	TOSJ	ADDER	201- 62
5	4566	CD4566BD	RCA	SPECIAL	246- 41
6	4566	CD4566BE	RCA	SPECIAL	246- 42
7	4566	CD4566BF	RCA	SPECIAL	246- 43
8	4566	*CD4566BK	RCA	SPECIAL	246- 44
9♦	4572	CD4572UBD(A)	RCA	MULTI-GATE	94- 76
10♦	4572	CD4572UBE(A)	RCA	MULTI-GATE	94- 77
11♦	4572	CD4572UBF(A)	RCA	MULTI-GATE	94- 78
12♦	4572	*CD4572UBK(A)	RCA	MULTI-GATE	94- 79
13♦	4572	M4572BP	MITJ	MULTI-GATE	94- 75
14♦	4572	TC4572BP	IMTM	SPECIAL	246- 12
15♦	4572	TC4572BP	TOSJ	SPECIAL	246- 12
16	4581	883C4581B	SSS	4-BIT ALU	222- 88
17	4581	BCL4581B	SSS	4-BIT ALU	222- 89
18	4581	SCL4581B	SSS	4-BIT ALU	222- 93
19	4582	883C4582B	SSS	PARITY GEN	225- 70
20♦	4582	4582BDC	FSC	PARITY GEN	225- 58
21♦	4582	4582BDM	FSC	PARITY GEN	225- 59
22	4582	*4582BFC	FSC	PARITY GEN	225- 60
23	4582	*4582BFM	FSC	PARITY GEN	225- 61
24♦	4582	4582BPC	FSC	PARITY GEN	225- 62
25	4582	BCL4582B	SSS	PARITY GEN	225- 71
26♦	4582	SCL4582B	SSS	PARITY GEN	225- 88
27	4585	883C4585B	SSS	MAGN COMP	217- 63
28	4585	BCL4585B	SSS	MAGN COMP	217- 64
29	4585	CD4585BD	RCA	MAGN COMP	217- 74
30	4585	CD4585BE	RCA	MAGN COMP	217- 75
31	4585	CD4585BF	RCA	MAGN COMP	217- 76
32	4585	HEF4585	RTCF	MAGN COMP	217- 45
33♦	4585	HEF4585BD	MULB	MAGN COMP	217- 60
34♦	4585	HEF4585BD	PHIN	MAGN COMP	217- 60
35♦	4585	HEF4585BD	RTCF	MAGN COMP	217- 60
36♦	4585	HEF4585BD	VALG	MAGN COMP	217- 60
37♦	4585	HEF4585BP	MULB	MAGN COMP	217- 61
38♦	4585	HEF4585BP	PHIN	MAGN COMP	217- 61
39♦	4585	HEF4585BP	RTCF	MAGN COMP	217- 61
40♦	4585	HEF4585BP	VALG	MAGN COMP	217- 61
41♦	4585	HEF4585BPN	SIC	MAGN COMP	217- 46
42♦	4585	*HEF4585BT	MULB	MAGN COMP	217- 62
43♦	4585	*HEF4585BT	PHIN	MAGN COMP	217- 62
44♦	4585	*HEF4585BT	RTCF	MAGN COMP	217- 62
45♦	4585	*HEF4585BT	VALG	MAGN COMP	217- 62
46	4585	*HEF4585BTD	SIC	MAGN COMP	217- 47
47♦	4585	M4585BP	MITJ	MAGN COMP	217- 91
48♦	4585	MSM4585RS	OKIJ	MAGN COMP	217- 96
49♦	4585	SCL4585B	SSS	MAGN COMP	217- 92
50♦	4585	TC4585BP	IMTM	MAGN COMP	217- 93
51♦	4585	TC4585BP	TOSJ	MAGN COMP	217- 93
52♦	4601	MM4601AD	NSC	NOR GATE	114- 21
53♦	4602	MM4602AD	NSC	NOR GATE	118- 38
54♦	4602	MM4602AF	NSC	NOR GATE	118- 39
55♦	4611	MM4611AD	NSC	NAND GATE	100- 36
56♦	4611	*MM4611AF	NSC	NAND GATE	100- 37
57♦	4612	MM4612AD	NSC	NAND GATE	107- 74
58♦	4612	*MM4612AF	NSC	NAND GATE	107- 75
59♦	4613	MM4613AD	NSC	D FL-FLOP	51- 4
60	4613	*MM4613AF	NSC	D FL-FLOP	51- 5
61♦	4617	MM4617AD	NSC	DEC CNTR	182-106
62♦	4617	*MM4617AF	NSC	DEC CNTR	182-107
63♦	4619	MM4619AD	NSC	AND-OR GTE	85- 25
64♦	4619	MM4619AF	NSC	AND-OR GTE	85- 26
65♦	4620	MM4620AD	NSC	COUNTER	170- 97
66♦	4620	*MM4620AF	NSC	COUNTER	170- 98
67♦	4620	*U4620B	ALGG	FREQ DIVID	195- 63
68♦	4622	MM4622AD	NSC	OCTAL CNTR	184- 76
69♦	4622	*MM4622AF	NSC	OCTAL CNTR	184- 77
70♦	4623	MM4623AD	NSC	NAND GATE	103- 71
71♦	4623	*MM4623AF	NSC	NAND GATE	103- 72
72♦	4624	MM4624AD	NSC	COUNTER	168- 24
73♦	4624	*MM4624AF	NSC	COUNTER	168- 25
74♦	4625	MM4625AD	NSC	NOR GATE	116- 50
75♦	4625	*MM4625AF	NSC	NOR GATE	116- 51
76♦	4627	MM4627AD	NSC	JK FL-FLOP	67- 30
77	4627	*MM4627AF	NSC	JK FL-FLOP	67- 31
78♦	4630	MM4630AD	NSC	EX-OR GATE	92- 50
79♦	4630	*MM4630AF	NSC	EX-OR GATE	94- 40
80♦	4632	SP4632	PLSB	FREQ DIVID	195- 28
81♦	4633	SP4633(A)	PLSB	FREQ DIVID	195- 21
82♦	4642	SP4642	PLSB	FREQ DIVID	195- 33
83♦	4652	SP4652	PLSB	FREQ DIVID	195- 34
84♦	4653	SP4653	PLSB	FREQ DIVID	195- 35
85▼	4702	HD1-4702-2	HAS	FREQ DIVID	193-101
86▼	4702	HD1-4702-8	HAS	FREQ DIVID	193-102
87▼	4702	HD1-4702-9	HAS	FREQ DIVID	193- 38
88▼	4702	HD3-4702-2	HAS	FREQ DIVID	193-103
89▼	4702	HD3-4702-8	HAS	FREQ DIVID	193-104
90▼	4702	HD3-4702-9	HAS	FREQ DIVID	193- 39
91▼	4702	*HD4-4702-2	HAS	FREQ DIVID	193-105
92▼	4702	*HD4-4702-8	HAS	FREQ DIVID	193-106
93▼	4702	*HD4-4702-9	HAS	FREQ DIVID	193-107
94♦	4702	IM4702IPE	INL	FREQ DIVID	193- 25
95♦	4702	RS4702B	RSCB	FREQ DIVID	193- 34
96♦	4712	IM4712IJE	INL	FREQ DIVID	193- 26
97♦	4712	IM4712IPE	INL	FREQ DIVID	193- 27
98♦	4723	4723BDC	FSC	4-BIT LCH	232- 38
99♦	4723	4723BDM	FSC	4-BIT LCH	232- 39
100	4723	*4723BFC	FSC	4-BIT LCH	232- 40
101	4723	*4723BFM	FSC	4-BIT LCH	232- 41
102	4723	4723BPC	FSC	4-BIT LCH	232- 42
103♦	4723	CD4723BCJ	NSC	4-BIT LCH	232- 93
104♦	4723	CD4723BCN	NSC	4-BIT LCH	232- 94
105♦	4723	CD4723BMJ	NSC	4-BIT LCH	232- 95
106♦	4723	*CD4723BMW	NSC	4-BIT LCH	232- 96
107♦	4724	4724BDC	FSC	8-BIT LCH	240- 82
108♦	4724	4724BDM	FSC	8-BIT LCH	240- 83
109	4724	*4724BFC	FSC	8-BIT LCH	240- 84
110	4724	*4724BFM	FSC	8-BIT LCH	240- 85
111	4724	4724BPC	FSC	8-BIT LCH	240- 86
112♦	4724	CD4724BCJ	NSC	8-BIT LCH	241- 22
113♦	4724	CD4724BCN	NSC	8-BIT LCH	241- 23
114♦	4724	CD4724BD	RCA	8-BIT LCH	241- 24
115♦	4724	CD4724BE	RCA	8-BIT LCH	241- 25
116♦	4724	CD4724BF	RCA	8-BIT LCH	241- 26
117♦	4724	CD4724BMJ	NSC	8-BIT LCH	241- 27
118♦	4724	*CD4724BMW	NSC	8-BIT LCH	241- 28
119	4724	HEF4724	RTCF	8-BIT LCH	240- 76
120♦	4724	HEF4724BD	PHIN	8-BIT LCH	240- 89
121♦	4724	HEF4724BP	PHIN	8-BIT LCH	240- 90
122♦	4724	HEF4724BPN	SIC	8-BIT LCH	240- 77
123♦	4724	*HEF4724BT	PHIN	8-BIT LCH	240- 91
124♦	4724	*HEF4724BTD	SIC	8-BIT LCH	240- 78
125♦	4727	4727BDC	FSC	COUNTER	166- 8
126♦	4727	4727BDM	FSC	COUNTER	166- 9
127♦	4727	*4727BFC	FSC	COUNTER	166- 10
128♦	4727	*4727BFM	FSC	COUNTER	166- 11
129♦	4727	4727BPC	FSC	COUNTER	166- 12
130♦	4737	4737BDC	FSC	COUNTER	166- 13
131♦	4737	4737BDM	FSC	COUNTER	166- 14
132♦	4737	*4737BFC	FSC	COUNTER	166- 15
133♦	4737	*4737BFM	FSC	COUNTER	166- 16
134♦	4737	4737BPC	FSC	COUNTER	166- 17
135♦	4737	HEF4737	RTCF	DEC CNTR	172- 43
136▼	4737	HEF4737BD	PHIN	DEC CNTR	182- 82
137♦	4737	HEF4737BP	MULB	DEC CNTR	182- 83
138♦	4737	HEF4737BP	PHIN	DEC CNTR	182- 83
139♦	4737	HEF4737BP	RTCF	DEC CNTR	182- 83
140♦	4737	HEF4737BP	VALG	DEC CNTR	182- 83
141♦	4737	HEF4737BPN	SIC	DEC CNTR	181- 99
142▼	4737	HEF4737VD	PHIN	DEC CNTR	182- 84
143▼	4737	HEF4737VP	PHIN	DEC CNTR	182- 85
144♦	4737	HEF4737VPN	SIC	COUNTER	165- 51
145♦	4742	SP4742(A)	PLSB	FREQ DIVID	195- 48
146♦	4751	HEF4751VD	MULB	FREQ DIVID	196- 50
147♦	4751	HEF4751VD	PHIN	FREQ DIVID	196- 50
148♦	4751	HEF4751VD	RTCF	FREQ DIVID	196- 50
149♦	4751	HEF4751VD	VALG	FREQ DIVID	196- 50
150♦	4751	HEF4751VP	MULB	FREQ DIVID	196- 51
151♦	4751	HEF4751VP	PHIN	FREQ DIVID	196- 51
152♦	4751	HEF4751VP	RTCF	FREQ DIVID	196- 51
153♦	4751	HEF4751VP	VALG	FREQ DIVID	196- 51
154♦	4751	*HEF4751VT	MULB	FREQ DIVID	196- 40
155♦	4751	*HEF4751VT	PHIN	FREQ DIVID	196- 40
156♦	4751	*HEF4751VT	RTCF	FREQ DIVID	196- 40
157♦	4751	*HEF4751VT	VALG	FREQ DIVID	196- 40
158♦	4753	HEF4753BD	PHIN	COUNTER	169- 99
159♦	4753	HEF4753BP	PHIN	COUNTER	169-100
160♦	4753	HEF4753BPN	SIC	COUNTER	165- 52
161♦	4780	SP4780(A)	PLSB	FREQ DIVID	195- 49
162	5001	HY5001-025M(1)	HMI	TIME DELAY	149- 62
163	5001	HY5001-025R	HMI	TIME DELAY	149- 63
164	5001	HY5001-030M(1)	HMI	TIME DELAY	149- 64
165	5001	HY5001-030R	HMI	TIME DELAY	149- 65
166	5001	HY5001-035M(1)	HMI	TIME DELAY	149- 66
167	5001	HY5001-035R	HMI	TIME DELAY	149- 67
168	5001	HY5001-040M(1)	HMI	TIME DELAY	149- 68
169	5001	HY5001-040R	HMI	TIME DELAY	149- 69
170	5001	HY5001-045M(1)	HMI	TIME DELAY	149- 70
171	5001	HY5001-045R	HMI	TIME DELAY	149- 71
172	5001	HY5001-050M(1)	HMI	TIME DELAY	149- 72
173	5001	HY5001-050R	HMI	TIME DELAY	149- 73
174	5001	HY5001-075M(1)	HMI	TIME DELAY	149- 74
175	5001	HY5001-075R	HMI	TIME DELAY	149- 75
176	5001	HY5001-100M(1)	HMI	TIME DELAY	149- 76
177	5001	HY5001-100R	HMI	TIME DELAY	149- 77
178	5001	HY5001-150M(1)	HMI	TIME DELAY	149- 78
179	5001	HY5001-150R	HMI	TIME DELAY	149- 79
180	5001	HY5001-200M(1)	HMI	TIME DELAY	149- 80
181	5001	HY5001-200R	HMI	TIME DELAY	149- 81
182	5001	HY5001-250M(1)	HMI	TIME DELAY	149- 82
183	5001	HY5001-250R	HMI	TIME DELAY	149- 83
184	5001	HY5001-500M	HMI	TIME DELAY	149- 84
185	5001	HY5001-500R	HMI	TIME DELAY	149- 85
186♦	5001	TC5001P	TOSJ	COUNTER	165- 72
187▼	5002	MIC5002N	MRL	DEC CNTR	184- 34
188▼	5002	MIC5002P	MRL	DEC CNTR	184- 35
189♦	5002	SFF5002K	THEF	FREQ DIVID	193- 95
190♦	5002	SFF5002KT	THEF	FREQ DIVID	193- 96
191♦	5004	DDU4F5004	DDD	TIME DELAY	146- 47
192▼	5004	DDU8-5004	DDD	TIME DELAY	140- 92
193♦	5004	DDU8C5004	DDD	TIME DELAY	141- 22
194♦	5004	DDU8F5004	DDD	TIME DELAY	146- 95
195▼	5005	MIC5005N	MRL	DEC CNTR	184- 36
196▼	5005	MIC5005P	MRL	DEC CNTR	184- 37
197♦	5006	DDU4F5006	DDD	TIME DELAY	146- 48
198▼	5006	DDU8-5006	DDD	TIME DELAY	140- 93
199♦	5006	DDU8C5006	DDD	TIME DELAY	141- 23
200♦	5006	DDU8F5006	DDD	TIME DELAY	146- 96
201▼	5007	MIC5007N	MRL	DEC CNTR	184- 23
202▼	5007	MIC5007P	MRL	DEC CNTR	184- 24
203♦	5008	DDU4F5008	DDD	TIME DELAY	146- 49
204▼	5008	DDU8-5008	DDD	TIME DELAY	140- 94
205♦	5008	DDU8C5008	DDD	TIME DELAY	141- 24
206♦	5008	DDU8F5008	DDD	TIME DELAY	146- 97
207▼	5009	MIC5009N	MRL	CLOCK/MV	188- 31
208▼	5009	MIC5009P	MRL	CLOCK/MV	188- 32
209♦	5010	DDU4F5010	DDD	TIME DELAY	146- 50
210▼	5010	DDU8-5010	DDD	TIME DELAY	140- 95
211♦	5010	DDU8C5010	DDD	TIME DELAY	141- 25
212♦	5010	DDU8F5010	DDD	TIME DELAY	146- 98
213	5010	HY5010-050M(1)	HMI	TIME DELAY	149- 86
214	5010	HY5010-050R	HMI	TIME DELAY	149- 87
215	5010	HY5010-100M(1)	HMI	TIME DELAY	149- 88
216	5010	HY5010-100R	HMI	TIME DELAY	149- 89
217	5010	HY5010-150M(1)	HMI	TIME DELAY	149- 90
218	5010	HY5010-150R	HMI	TIME DELAY	149- 91
219	5010	HY5010-200M(1)	HMI	TIME DELAY	149- 92
220	5010	HY5010-200R	HMI	TIME DELAY	149- 93

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1	5010	HY5010-250M(1)	HMI	TIME DELAY	149- 94
2	5010	HY5010-250R	HMI	TIME DELAY	149- 95
3	5010	HY5010-500M	HMI	TIME DELAY	149- 96
4	5010	HY5010-500R	HMI	TIME DELAY	149- 97
5♦	5012	DDU4F5012	DDD	TIME DELAY	146- 51
6▼	5012	DDU8-5012	DDD	TIME DELAY	140- 96
7♦	5012	DDU8C5012	DDD	TIME DELAY	141- 26
8♦	5012	DDU8F5012	DDD	TIME DELAY	146- 99
9♦	5015	MM5015	NSC	SPECIAL	247- 14
10♦	5016	COM5016	SMC	FREQ DIVID	193- 9
11♦	5016	COM5016T	SMC	FREQ DIVID	193- 10
12♦	5016	DDU4F5016	DDD	TIME DELAY	146- 52
13▼	5016	DDU8-5016	DDD	TIME DELAY	140- 97
14♦	5016	DDU8C5016	DDD	TIME DELAY	141- 27
15♦	5016	DDU8F5016	DDD	TIME DELAY	146-100
16♦	5018	TC5018P	TOSJ	COUNTER	165- 88
17♦	5020	DDU4F5020	DDD	TIME DELAY	146- 53
18▼	5020	DDU8-5020	DDD	TIME DELAY	140- 98
19♦	5020	DDU8C5020	DDD	TIME DELAY	141- 28
20♦	5020	DDU8F5020	DDD	TIME DELAY	146-101
21▼	5025	DDU3J5025	DDD	TIME DELAY	146- 35
22▼	5025	DDU4-5025	DDD	TIME DELAY	137- 39
23♦	5025	DDU4F5025	DDD	TIME DELAY	146- 54
24♦	5025	DDU8F5025	DDD	TIME DELAY	146-102
25▼	5026	COM5026	SMC	FREQ DIVID	193- 40
26▼	5026	COM5026T	SMC	FREQ DIVID	193- 41
27♦	5026	TC5026P	TOSJ	COUNTER	165- 77
28♦	5027	TC5027P	TOSJ	COUNTER	165- 78
29♦	5030	DDU4F5030	DDD	TIME DELAY	146- 55
30▼	5030	DDU8-5030	DDD	TIME DELAY	140- 99
31♦	5030	DDU8C5030	DDD	TIME DELAY	141- 29
32♦	5030	DDU8F5030	DDD	TIME DELAY	146-103
33♦	5032	TC5032P	TOSJ	COUNTER	166- 31
34♦	5035	DDU4F5035	DDD	TIME DELAY	146- 56
35▼	5035	DDU8-5035	DDD	TIME DELAY	140-100
36♦	5035	DDU8C5035	DDD	TIME DELAY	141- 30
37♦	5035	DDU8F5035	DDD	TIME DELAY	146-104
38♦	5036	COM5036	SMC	FREQ DIVID	193- 11
39♦	5036	COM5036T	SMC	FREQ DIVID	193- 12
40♦	5036	TC5036P	IMTM	FREQ DIVID	194- 17
41♦	5036	TC5036P	TOSJ	FREQ DIVID	194- 17
42♦	5037	TC5037P	IMTM	COUNTER	165- 73
43♦	5037	TC5037P	TOSJ	COUNTER	165- 73
44♦	5040	DDU4F5040	DDD	TIME DELAY	146- 57
45▼	5040	DDU8-5040	DDD	TIME DELAY	140-101
46♦	5040	DDU8C5040	DDD	TIME DELAY	141- 31
47♦	5040	DDU8F5040	DDD	TIME DELAY	146-105
48	5043	TC5043P	IMTM	TIME DELAY	143- 2
49	5043	TC5043P	TOSJ	TIME DELAY	143- 2
50♦	5044	NE5044D	SIC	SPECIAL	246- 25
51♦	5044	NE5044D	VALG	SPECIAL	246- 25
52♦	5044	NE5044N	SIC	SPECIAL	246- 26
53♦	5044	NE5044N	VALG	SPECIAL	246- 26
54♦	5045	DDU4F5045	DDD	TIME DELAY	146- 58
55▼	5045	DDU8-5045	DDD	TIME DELAY	140-102
56♦	5045	DDU8C5045	DDD	TIME DELAY	141- 32
57♦	5045	DDU8F5045	DDD	TIME DELAY	146-106
58	5045	NE5045D	SIC	DECODER	125- 38
59	5045	NE5045D	VALG	DECODER	125- 38
60	5045	NE5045N	SIC	DECODER	125- 39
61	5045	NE5045N	VALG	DECODER	125- 39
62▼	5046	COM5046	SMC	FREQ DIVID	193- 42
63▼	5046	COM5046T	SMC	FREQ DIVID	193- 43
64♦	5046	NE5046N	VALG	DECODER	125- 5
65♦	5048	TC5048P	IMTM	FREQ DIVID	194- 18
66♦	5048	TC5048P	TOSJ	FREQ DIVID	194- 18
67▼	5050	DDU3J5050	DDD	TIME DELAY	146- 36
68▼	5050	DDU4-5050	DDD	TIME DELAY	137- 40
69♦	5050	DDU4F5050	DDD	TIME DELAY	146- 59
70▼	5050	DDU8-5050	DDD	TIME DELAY	140-103
71♦	5050	DDU8C5050	DDD	TIME DELAY	141- 33
72♦	5050	DDU8F5050	DDD	TIME DELAY	146-107
73♦	5050	SXO5050CH-D(A)	MTI	CLOCK/MV	192-102
74	5050	*SXO5050CH-G(A)	MTI	CLOCK/MV	192-103
75♦	5050	*SXO5050CH-J(A)	MTI	CLOCK/MV	192-104
76	5050	*SXO5050CH-L(A)	MTI	CLOCK/MV	192-105
77♦	5050	SXO5050CT-D(A)	MTI	CLOCK/MV	192- 90
78	5050	*SXO5050CT-G(A)	MTI	CLOCK/MV	192- 91
79	5050	*SXO5050CT-J(A)	MTI	CLOCK/MV	192- 92
80	5050	*SXO5050CT-L(A)	MTI	CLOCK/MV	192- 93
81♦	5051	TC5051P	IMTM	DEC CNTR	172- 59
82♦	5051	TC5051P	TOSJ	DEC CNTR	172- 59
83♦	5052	TC5052P	IMTM	COUNTER	165- 74
84♦	5052	TC5052P	TOSJ	COUNTER	165- 74
85♦	5053	TC5053P	TOSJ	COUNTER	165- 75
86♦	5054	TC5054P	TOSJ	COUNTER	165- 76
87♦	5060	DDU4F5060	DDD	TIME DELAY	146- 60
88▼	5060	DDU8-5060	DDD	TIME DELAY	140-104
89♦	5060	DDU8C5060	DDD	TIME DELAY	141- 34
90♦	5060	DDU8F5060	DDD	TIME DELAY	146-108
91♦	5070	TC5070P	TOSJ	DEC CNTR	184- 57
92♦	5071	TC5071P	TOSJ	DEC CNTR	184- 58
93♦	5072	TC5072P	TOSJ	DEC CNTR	184- 59
94▼	5075	DDU3J5075	DDD	TIME DELAY	146- 37
95▼	5075	DDU4-5075	DDD	TIME DELAY	137- 41
96♦	5075	DDU4F5075	DDD	TIME DELAY	146- 61
97▼	5075	DDU8-5075	DDD	TIME DELAY	140-105
98♦	5075	DDU8C5075	DDD	TIME DELAY	141- 35
99♦	5075	DDU8F5075	DDD	TIME DELAY	146-109
100▼	5100	DDU3J5100	DDD	TIME DELAY	146- 38
101▼	5100	DDU4-5100	DDD	TIME DELAY	137- 42
102♦	5100	DDU4F5100	DDD	TIME DELAY	146- 62
103▼	5100	DDU8-5100	DDD	TIME DELAY	140-106
104♦	5100	DDU8C5100	DDD	TIME DELAY	141- 36
105♦	5100	DDU8F5100	DDD	TIME DELAY	146-110
106	5100	HY5100-010M	HMI	TIME DELAY	130- 38
107	5100	HY5100-010R	HMI	TIME DELAY	130- 39
108	5100	HY5100-012M	HMI	TIME DELAY	130- 40
109	5100	HY5100-012R	HMI	TIME DELAY	130- 41
110	5100	HY5100-014M	HMI	TIME DELAY	130- 42
111	5100	HY5100-014R	HMI	TIME DELAY	130- 43
112	5100	HY5100-016M	HMI	TIME DELAY	130- 44
113	5100	HY5100-016R	HMI	TIME DELAY	130- 45
114	5100	HY5100-018M	HMI	TIME DELAY	130- 46
115	5100	HY5100-018R	HMI	TIME DELAY	130- 47
116	5100	HY5100-020M	HMI	TIME DELAY	130- 48
117	5100	HY5100-020R	HMI	TIME DELAY	130- 49
118	5100	HY5100-025M	HMI	TIME DELAY	130- 50
119	5100	HY5100-025R	HMI	TIME DELAY	130- 51
120	5100	HY5100-030M	HMI	TIME DELAY	130- 52
121	5100	HY5100-030R	HMI	TIME DELAY	130- 53
122	5100	HY5100-035M	HMI	TIME DELAY	130- 54
123	5100	HY5100-035R	HMI	TIME DELAY	130- 55
124	5100	HY5100-040M	HMI	TIME DELAY	130- 56
125	5100	HY5100-040R	HMI	TIME DELAY	130- 57
126	5100	HY5100-045M	HMI	TIME DELAY	130- 58
127	5100	HY5100-045R	HMI	TIME DELAY	130- 59
128	5100	HY5100-050M	HMI	TIME DELAY	130- 60
129	5100	HY5100-050R	HMI	TIME DELAY	130- 61
130♦	5100	SFF5100E	THEF	DEC CNTR	184- 21
131♦	5100	SFF5100K	THEF	DEC CNTR	184- 22
132▼	5125	DDU3J5125	DDD	TIME DELAY	146- 39
133▼	5125	DDU4-5125	DDD	TIME DELAY	137- 43
134♦	5125	DDU4F5125	DDD	TIME DELAY	146- 63
135▼	5125	DDU8-5125	DDD	TIME DELAY	140-107
136♦	5125	DDU8C5125	DDD	TIME DELAY	141- 37
137♦	5125	DDU8F5125	DDD	TIME DELAY	131- 66
138▼	5150	DDU3J5150	DDD	TIME DELAY	146- 40
139▼	5150	DDU4-5150	DDD	TIME DELAY	137- 44
140♦	5150	DDU4F5150	DDD	TIME DELAY	146- 64
141▼	5150	DDU8-5150	DDD	TIME DELAY	140-108
142♦	5150	DDU8C5150	DDD	TIME DELAY	141- 38
143♦	5150	DDU8F5150	DDD	TIME DELAY	147- 1
144♦	5175	DDU4F5175	DDD	TIME DELAY	146- 65
145▼	5175	DDU8-5175	DDD	TIME DELAY	140-109
146♦	5175	DDU8C5175	DDD	TIME DELAY	141- 39
147♦	5175	DDU8F5175	DDD	TIME DELAY	147- 2
148▼	5200	DDU3J5200	DDD	TIME DELAY	146- 41
149▼	5200	DDU4-5200	DDD	TIME DELAY	137- 45
150♦	5200	DDU4F5200	DDD	TIME DELAY	146- 66
151▼	5200	DDU8-5200	DDD	TIME DELAY	140-110
152♦	5200	DDU8C5200	DDD	TIME DELAY	141- 40
153♦	5200	DDU8F5200	DDD	TIME DELAY	147- 3
154♦	5201	SFF5201	THEF	SPECIAL	247- 18
155	5203	HY5203-015M	HMI	TIME DELAY	135- 33
156	5203	HY5203-015R	HMI	TIME DELAY	135- 34
157	5203	HY5203-022M	HMI	TIME DELAY	135- 35
158	5203	HY5203-022R	HMI	TIME DELAY	135- 36
159	5203	HY5203-029M	HMI	TIME DELAY	135- 37
160	5203	HY5203-029R	HMI	TIME DELAY	135- 38
161	5203	HY5203-043M	HMI	TIME DELAY	135- 39
162	5203	HY5203-043R	HMI	TIME DELAY	135- 40
163▼	5250	DDU3J5250	DDD	TIME DELAY	146- 42
164▼	5250	DDU4-5250	DDD	TIME DELAY	137- 46
165♦	5250	DDU4F5250	DDD	TIME DELAY	146- 67
166▼	5250	DDU8-5250	DDD	TIME DELAY	141- 1
167♦	5250	DDU8C5250	DDD	TIME DELAY	141- 41
168▼	5300	DDU3J5300	DDD	TIME DELAY	146- 43
169▼	5300	DDU4-5300	DDD	TIME DELAY	137- 47
170♦	5300	DDU4F5300	DDD	TIME DELAY	146- 68
171♦	5307	MM5307AAD	NSC	FREQ DIVID	195-104
172♦	5307	MM5307AAN	NSC	FREQ DIVID	195-105
173♦	5350	DDU4F5350	DDD	TIME DELAY	146- 69
174♦	5387	5387AA	RSCB	SPECIAL	246- 59
175♦	5400	5400DM	FSC	NAND GATE	95- 76
176♦	5400	*5400FM	FSC	NAND GATE	98-102
177▼	5400	DDU3J5400	DDD	TIME DELAY	146- 44
178▼	5400	DDU4-5400	DDD	TIME DELAY	137- 48
179♦	5400	DDU4F5400	DDD	TIME DELAY	146- 70
180♦	5400	DM5400J	NSC	NAND GATE	96- 9
181♦	5400	*DM5400W	NSC	NAND GATE	99- 22
182♦	5400	S5400F	MULB	NAND GATE	97- 28
183♦	5400	S5400F	PHIN	NAND GATE	97- 28
184♦	5400	S5400F	RTCF	NAND GATE	97- 28
185♦	5400	S5400F	SIC	NAND GATE	97- 28
186♦	5400	S5400F	VALG	NAND GATE	97- 28
187♦	5400	*S5400W	MULB	NAND GATE	99- 5
188♦	5400	*S5400W	PHIN	NAND GATE	99- 5
189♦	5400	*S5400W	RTCF	NAND GATE	99- 5
190♦	5400	*S5400W	SIC	NAND GATE	99- 5
191♦	5400	*S5400W	VALG	NAND GATE	99- 5
192♦	5400	ZN5400E	FERB	NAND GATE	97-101
193♦	5401	5401DM	FSC	NAND GATE	99-110
194♦	5401	*5401FM	FSC	NAND GATE	100- 1
195♦	5401	DM5401J	NSC	NAND GATE	100- 7
196♦	5401	*DM5401W	NSC	NAND GATE	100- 8
197♦	5401	S5401F	MULB	NAND GATE	100- 15
198♦	5401	S5401F	PHIN	NAND GATE	100- 15
199♦	5401	S5401F	VALG	NAND GATE	100- 15
200♦	5401	*S5401W	MULB	NAND GATE	100- 16
201♦	5401	*S5401W	PHIN	NAND GATE	100- 16
202♦	5401	*S5401W	VALG	NAND GATE	100- 16
203♦	5401	SN5401J	TII	NAND GATE	100- 48
204♦	5402	5402DM	FSC	NOR GATE	112- 52
205♦	5402	*5402FM	FSC	NOR GATE	113- 77
206♦	5402	DM5402J	NSC	NOR GATE	112- 67
207♦	5402	*DM5402W	NSC	NOR GATE	113-100
208♦	5402	S5402F	MULB	NOR GATE	112-105
209♦	5402	S5402F	PHIN	NOR GATE	112-105
210♦	5402	S5402F	VALG	NOR GATE	112-105
211♦	5402	*S5402W	MULB	NOR GATE	113-101
212♦	5402	*S5402W	PHIN	NOR GATE	113-101
213♦	5402	*S5402W	VALG	NOR GATE	113-101
214♦	5402	SN5402J	TII	NOR GATE	113- 7
215♦	5403	5403DM	FSC	NAND GATE	95- 77
216♦	5403	*5403FM	FSC	NAND GATE	100- 2
217♦	5403	DM5403J	NSC	NAND GATE	96- 10
218♦	5403	S5403F	MULB	NAND GATE	97- 29
219♦	5403	S5403F	PHIN	NAND GATE	97- 29
220♦	5403	S5403F	RTCF	NAND GATE	97- 29

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

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2♦	5403	S5403F	VALG	NAND GATE	97- 29
3♦	5403	*S5403W	MULB	NAND GATE	100- 17
4♦	5403	*S5403W	PHIN	NAND GATE	100- 17
5♦	5403	*S5403W	RTCF	NAND GATE	100- 17
6♦	5403	*S5403W	SIC	NAND GATE	100- 17
7♦	5403	*S5403W	VALG	NAND GATE	100- 17
8♦	5403	SN5403J	TII	NAND GATE	97- 84
9♦	5408	5408DM	FSC	AND GATE	76- 17
10♦	5408	*5408FM	FSC	AND GATE	77- 98
11♦	5408	DM5408J	NSC	AND GATE	76- 32
12♦	5408	*DM5408W	NSC	AND GATE	78- 7
13♦	5408	S5408F	MULB	AND GATE	76- 91
14♦	5408	S5408F	PHIN	AND GATE	76- 91
15♦	5408	S5408F	VALG	AND GATE	76- 91
16♦	5408	*S5408W	MULB	AND GATE	77-101
17♦	5408	*S5408W	PHIN	AND GATE	77-101
18♦	5408	*S5408W	VALG	AND GATE	77-101
19♦	5408	SN5408J	TII	AND GATE	76-107
20♦	5409	5409DM	FSC	AND GATE	78- 3
21♦	5409	*5409FM	FSC	AND GATE	78- 4
22♦	5409	DM5409J	NSC	AND GATE	78- 8
23♦	5409	*DM5409W	NSC	AND GATE	78- 9
24♦	5409	S5409F	MULB	AND GATE	78- 25
25♦	5409	S5409F	PHIN	AND GATE	78- 25
26♦	5409	S5409F	VALG	AND GATE	78- 25
27♦	5409	*S5409W	MULB	AND GATE	78- 26
28♦	5409	*S5409W	PHIN	AND GATE	78- 26
29♦	5409	*S5409W	VALG	AND GATE	78- 26
30♦	5409	SN5409J	TII	AND GATE	78- 23
31♦	5410	5410DM	FSC	NAND GATE	101- 32
32♦	5410	*5410FM	FSC	NAND GATE	103- 8
33♦	5410	DM5410J	NSC	NAND GATE	101- 52
34♦	5410	*DM5410W	NSC	NAND GATE	103- 15
35♦	5410	S5410F	MULB	NAND GATE	102- 3
36♦	5410	S5410F	PHIN	NAND GATE	102- 3
37♦	5410	S5410F	VALG	NAND GATE	102- 3
38♦	5410	*S5410W	MULB	NAND GATE	103- 9
39♦	5410	*S5410W	PHIN	NAND GATE	103- 9
40♦	5410	*S5410W	VALG	NAND GATE	103- 9
41♦	5410	SN5410J	TII	NAND GATE	102- 32
42♦	5411	5411DM	FSC	AND GATE	79- 44
43♦	5411	*5411FM	FSC	AND GATE	80- 76
44♦	5411	DM5411J	NSC	AND GATE	79- 64
45♦	5411	S5411F	MULB	AND GATE	80- 5
46♦	5411	S5411F	PHIN	AND GATE	80- 5
47♦	5411	S5411F	RTCF	AND GATE	80- 5
48♦	5411	S5411F	SIC	AND GATE	80- 5
49♦	5411	S5411F	VALG	AND GATE	80- 5
50♦	5411	*S5411W	MULB	AND GATE	80- 77
51♦	5411	*S5411W	PHIN	AND GATE	80- 77
52♦	5411	*S5411W	RTCF	AND GATE	80- 77
53♦	5411	*S5411W	SIC	AND GATE	80- 77
54♦	5411	*S5411W	VALG	AND GATE	80- 77
55♦	5412	5412DM	FSC	NAND GATE	101- 33
56♦	5412	*5412FM	FSC	NAND GATE	103- 52
57♦	5412	S5412F	MULB	NAND GATE	102- 4
58♦	5412	S5412F	PHIN	NAND GATE	102- 4
59♦	5412	S5412F	VALG	NAND GATE	102- 4
60♦	5412	*S5412W	MULB	NAND GATE	103- 54
61♦	5412	*S5412W	PHIN	NAND GATE	103- 54
62♦	5412	*S5412W	VALG	NAND GATE	103- 54
63♦	5412	SN5412J	TII	NAND GATE	102- 33
64♦	5420	5420DM	FSC	NAND GATE	107- 5
65♦	5420	*5420FM	FSC	NAND GATE	107- 6
66♦	5420	DM5420J	NSC	NAND GATE	107- 19
67♦	5420	*DM5420W	NSC	NAND GATE	107- 20
68♦	5420	S5420F	MULB	NAND GATE	107- 11
69♦	5420	S5420F	PHIN	NAND GATE	107- 11
70♦	5420	S5420F	RTCF	NAND GATE	107- 11
71♦	5420	S5420F	SIC	NAND GATE	107- 11
72♦	5420	S5420F	VALG	NAND GATE	107- 11
73♦	5420	*S5420W	MULB	NAND GATE	107- 12
74♦	5420	*S5420W	PHIN	NAND GATE	107- 12
75♦	5420	*S5420W	RTCF	NAND GATE	107- 12
76♦	5420	*S5420W	SIC	NAND GATE	107- 12
77♦	5420	*S5420W	VALG	NAND GATE	107- 12
78♦	5420	SN5420J	TII	NAND GATE	107- 15
79♦	5421	5421DM	FSC	AND GATE	82- 88
80♦	5421	*5421FM	FSC	AND GATE	82- 89
81♦	5421	S5421F	MULB	AND GATE	82- 95
82♦	5421	S5421F	PHIN	AND GATE	82- 95
83♦	5421	S5421F	VALG	AND GATE	82- 95
84♦	5421	*S5421W	MULB	AND GATE	82- 96
85♦	5421	*S5421W	PHIN	AND GATE	82- 96
86♦	5421	*S5421W	VALG	AND GATE	82- 96
87♦	5422	5422DM	FSC	NAND GATE	104- 55
88♦	5422	*5422FM	FSC	NAND GATE	107- 57
89♦	5422	SN5422J	TII	NAND GATE	105- 48
90♦	5423	*5423FM	FSC	NOR GATE	118- 8
91♦	5423	DM5423J	NSC	NOR GATE	117- 89
92♦	5423	*DM5423W	NSC	NOR GATE	117-108
93♦	5423	S5423F	MULB	NOR GATE	117- 99
94♦	5423	S5423F	PHIN	NOR GATE	117- 99
95♦	5423	S5423F	SIC	NOR GATE	117- 99
96♦	5423	S5423F	VALG	NOR GATE	117- 99
97♦	5423	*S5423W	MULB	NOR GATE	118- 10
98♦	5423	*S5423W	PHIN	NOR GATE	118- 10
99♦	5423	*S5423W	SIC	NOR GATE	118- 10
100♦	5423	*S5423W	VALG	NOR GATE	118- 10
101♦	5423	SN5423J	TII	NOR GATE	117-102
102♦	5425	5425DM	FSC	NOR GATE	117- 85
103♦	5425	*5425FM	FSC	NOR GATE	118- 9
104♦	5425	DM5425J	NSC	NOR GATE	117- 90
105♦	5425	*DM5425W	NSC	NOR GATE	117-109
106♦	5425	S5425F	MULB	NOR GATE	117-100
107♦	5425	S5425F	PHIN	NOR GATE	117-100
108♦	5425	S5425F	RTCF	NOR GATE	117-100
109♦	5425	S5425F	SIC	NOR GATE	117-100
110♦	5425	S5425F	VALG	NOR GATE	117-100
111♦	5425	*S5425W	MULB	NOR GATE	118- 11
112♦	5425	*S5425W	PHIN	NOR GATE	118- 11
113♦	5425	*S5425W	RTCF	NOR GATE	118- 11
114♦	5425	*S5425W	SIC	NOR GATE	118- 11
115♦	5425	*S5425W	VALG	NOR GATE	118- 11
116♦	5425	SN5425J	TII	NOR GATE	117-103
117♦	5426	DM5426J	NSC	NAND GATE	99- 17
118♦	5426	S5426F	MULB	NAND GATE	97- 30
119♦	5426	S5426F	PHIN	NAND GATE	97- 30
120♦	5426	S5426F	RTCF	NAND GATE	97- 30
121♦	5426	S5426F	SIC	NAND GATE	97- 30
122♦	5426	S5426F	VALG	NAND GATE	97- 30
123♦	5427	5427DM	FSC	NOR GATE	115- 61
124♦	5427	*5427FM	FSC	NOR GATE	116- 16
125♦	5427	DM5427J	NSC	NOR GATE	115- 72
126♦	5427	*DM5427W	NSC	NOR GATE	116- 17
127♦	5427	S5427F	MULB	NOR GATE	115-102
128♦	5427	S5427F	PHIN	NOR GATE	115-102
129♦	5427	S5427F	VALG	NOR GATE	115-102
130♦	5427	*S5427W	MULB	NOR GATE	116- 22
131♦	5427	*S5427W	PHIN	NOR GATE	116- 22
132♦	5427	*S5427W	VALG	NOR GATE	116- 22
133♦	5430	5430DM	FSC	NAND GATE	110- 21
134♦	5430	*5430FM	FSC	NAND GATE	110- 22
135♦	5430	DM5430J	NSC	NAND GATE	110- 25
136♦	5430	*DM5430W	NSC	NAND GATE	110- 26
137♦	5430	S5430F	MULB	NAND GATE	110- 30
138♦	5430	S5430F	PHIN	NAND GATE	110- 30
139♦	5430	S5430F	VALG	NAND GATE	110- 30
140♦	5430	*S5430W	MULB	NAND GATE	110- 31
141♦	5430	*S5430W	PHIN	NAND GATE	110- 31
142♦	5430	*S5430W	VALG	NAND GATE	110- 31
143♦	5432	5432DM	FSC	OR GATE	120- 15
144♦	5432	*5432FM	FSC	OR GATE	121- 68
145♦	5432	DM5432J	NSC	OR GATE	120- 26
146♦	5432	*DM5432W	NSC	OR GATE	121- 69
147♦	5432	S5432F	MULB	OR GATE	120- 75
148♦	5432	S5432F	PHIN	OR GATE	120- 75
149♦	5432	S5432F	RTCF	OR GATE	120- 75
150♦	5432	S5432F	SIC	OR GATE	120- 75
151♦	5432	S5432F	VALG	OR GATE	120- 75
152♦	5432	*S5432W	MULB	OR GATE	121- 74
153♦	5432	*S5432W	PHIN	OR GATE	121- 74
154♦	5432	*S5432W	RTCF	OR GATE	121- 74
155♦	5432	*S5432W	SIC	OR GATE	121- 74
156♦	5432	*S5432W	VALG	OR GATE	121- 74
157♦	5432	SN5432J	TII	OR GATE	120- 84
158♦	5437	DM5437J	NSC	NAND GATE	96- 11
159♦	5437	*DM5437W	NSC	NAND GATE	98-103
160♦	5438	DM5438J	NSC	NAND GATE	96- 12
161♦	5438	*DM5438W	NSC	NAND GATE	98-104
162♦	5440	DM5440J	NSC	NAND GATE	107- 21
163♦	5440	*DM5440W	NSC	NAND GATE	107- 22
164♦	5442	5442ADM	FSC	DECODER	126- 41
165	5442	*5442AFM	FSC	DECODER	126- 42
166♦	5442	S5442F(2)	MULB	DECODER	127- 62
167♦	5442	S5442F(2)	PHIN	DECODER	127- 62
168♦	5442	S5442F(2)	RTCF	DECODER	127- 62
169♦	5442	S5442F(2)	SIC	DECODER	127- 62
170♦	5442	S5442F(2)	VALG	DECODER	127- 62
171	5442	*S5442W(2)	MULB	DECODER	127- 63
172	5442	*S5442W(2)	PHIN	DECODER	127- 63
173	5442	*S5442W(2)	RTCF	DECODER	127- 63
174	5442	*S5442W(2)	SIC	DECODER	127- 63
175	5442	*S5442W(2)	VALG	DECODER	127- 63
176♦	5442	SN5442AJ	TII	DECODER	127- 74
177	5443	*5443AFM	FSC	DECODER	127- 89
178♦	5443	S5443F	MULB	DECODER	127- 91
179♦	5443	S5443F	PHIN	DECODER	127- 91
180♦	5443	S5443F	SIC	DECODER	127- 91
181♦	5443	S5443F	VALG	DECODER	127- 91
182	5443	*S5443W	MULB	DECODER	127- 92
183	5443	*S5443W	PHIN	DECODER	127- 92
184	5443	*S5443W	SIC	DECODER	127- 92
185	5443	*S5443W	VALG	DECODER	127- 92
186	5444	*5444AFM	FSC	DECODER	127- 96
187♦	5444	S5444F	MULB	DECODER	127- 99
188♦	5444	S5444F	PHIN	DECODER	127- 99
189♦	5444	S5444F	VALG	DECODER	127- 99
190	5444	*S5444W	MULB	DECODER	127-100
191	5444	*S5444W	PHIN	DECODER	127-100
192	5444	*S5444W	VALG	DECODER	127-100
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196♦	5450	DM5450J	NSC	AND-OR-INV	85- 94
197♦	5450	*DM5450W	NSC	AND-OR-INV	85- 95
198♦	5450	S5450F	MULB	AND-OR-INV	86- 44
199♦	5450	S5450F	PHIN	AND-OR-INV	86- 44
200♦	5450	S5450F	VALG	AND-OR-INV	86- 44
201♦	5450	*S5450W	MULB	AND-OR-INV	86- 45
202♦	5450	*S5450W	PHIN	AND-OR-INV	86- 45
203♦	5450	*S5450W	VALG	AND-OR-INV	86- 45
204♦	5450	SN5450J	TII	AND-OR-INV	86- 71
205♦	5451	5451DM	FSC	AND-OR-INV	85- 82
206♦	5451	*5451FM	FSC	AND-OR-INV	85- 83
207♦	5451	DM5451J	NSC	AND-OR-INV	85- 96
208♦	5451	*DM5451W	NSC	AND-OR-INV	85- 97
209♦	5451	S5451F	MULB	AND-OR-INV	86- 46
210♦	5451	S5451F	PHIN	AND-OR-INV	86- 46
211♦	5451	S5451F	VALG	AND-OR-INV	86- 46
212♦	5451	*S5451W	MULB	AND-OR-INV	86- 47
213♦	5451	*S5451W	PHIN	AND-OR-INV	86- 47
214♦	5451	*S5451W	VALG	AND-OR-INV	86- 47
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216♦	5453	5453DM	FSC	AND-OR-INV	86- 86
217♦	5453	*5453FM	FSC	AND-OR-INV	86- 87
218♦	5453	DM5453J	NSC	AND-OR-INV	86- 98
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4♦	5453	*S5453W	PHIN	AND-OR-INV	87- 58
5♦	5453	*S5453W	VALG	AND-OR-INV	87- 58
6♦	5453	SN5453J	TII	AND-OR-INV	87- 25
7♦	5454	5454DM	FSC	AND-OR-INV	86- 88
8♦	5454	*5454FM	FSC	AND-OR-INV	86- 89
9♦	5454	DM5454J	NSC	AND-OR-INV	86-100
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13♦	5454	S5454F	VALG	AND-OR-INV	87- 16
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15♦	5454	*S5454W	PHIN	AND-OR-INV	87- 59
16♦	5454	*S5454W	VALG	AND-OR-INV	87- 59
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19♦	5460	*5460FM	FSC	AND GATE	81- 40
20♦	5460	DM5460J	NSC	AND GATE	81- 50
21♦	5460	*DM5460W	NSC	AND GATE	81- 51
22♦	5460	S5460F	MULB	AND GATE	81- 77
23♦	5460	S5460F	PHIN	AND GATE	81- 77
24♦	5460	S5460F	VALG	AND GATE	81- 77
25♦	5460	*S5460W	MULB	AND GATE	81- 78
26♦	5460	*S5460W	PHIN	AND GATE	81- 78
27♦	5460	*S5460W	VALG	AND GATE	81- 78
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35♦	5470	S5470F	VALG	JK FL-FLOP	65- 63
36	5470	*S5470W	MULB	JK FL-FLOP	65- 64
37	5470	*S5470W	PHIN	JK FL-FLOP	65- 64
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41♦	5472	*5472FM	FSC	JK FL-FLOP	65- 25
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43♦	5472	*DM5472W	NSC	JK FL-FLOP	65- 93
44♦	5472	S5472F	MULB	JK FL-FLOP	65- 13
45♦	5472	S5472F	PHIN	JK FL-FLOP	65- 13
46♦	5472	S5472F	VALG	JK FL-FLOP	65- 13
47♦	5472	*S5472W	MULB	JK FL-FLOP	65- 14
48♦	5472	*S5472W	PHIN	JK FL-FLOP	65- 14
49♦	5472	*S5472W	VALG	JK FL-FLOP	65- 14
50♦	5473	5473DM	FSC	JK FL-FLOP	68- 45
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52♦	5473	DM5473J	NSC	JK FL-FLOP	69- 40
53	5473	*DM5473W	NSC	JK FL-FLOP	69- 41
54♦	5473	S5473F	MULB	JK FL-FLOP	68- 16
55♦	5473	S5473F	PHIN	JK FL-FLOP	68- 16
56♦	5473	S5473F	RTCF	JK FL-FLOP	68- 16
57♦	5473	S5473F	SIC	JK FL-FLOP	68- 16
58♦	5473	S5473F	VALG	JK FL-FLOP	68- 16
59	5473	*S5473W	MULB	JK FL-FLOP	68- 17
60	5473	*S5473W	PHIN	JK FL-FLOP	68- 17
61	5473	*S5473W	RTCF	JK FL-FLOP	68- 17
62	5473	*S5473W	SIC	JK FL-FLOP	68- 17
63	5473	*S5473W	VALG	JK FL-FLOP	68- 17
64♦	5473	SN5473J	TII	JK FL-FLOP	68- 82
65	5473	*SN5473W	TII	JK FL-FLOP	68- 83
66♦	5474	5474DM	FSC	D FL-FLOP	51- 52
67	5474	*5474FM	FSC	D FL-FLOP	51- 53
68♦	5474	DM5474J	NSC	D FL-FLOP	52- 25
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70♦	5474	S5474F	MULB	D FL-FLOP	51- 22
71♦	5474	S5474F	PHIN	D FL-FLOP	51- 22
72♦	5474	S5474F	RTCF	D FL-FLOP	51- 22
73♦	5474	S5474F	SIC	D FL-FLOP	51- 22
74♦	5474	S5474F	VALG	D FL-FLOP	51- 22
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78	5474	*S5474W	SIC	D FL-FLOP	51- 23
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81♦	5475	*5475FM	FSC	4-BIT LCH	231- 90
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83	5475	*DM5475W	NSC	2-BIT LCH	229- 79
84♦	5475	S5475F	MULB	2-BIT LCH	229- 91
85♦	5475	S5475F	PHIN	2-BIT LCH	229- 91
86♦	5475	S5475F	RTCF	2-BIT LCH	229- 91
87♦	5475	S5475F	SIC	2-BIT LCH	229- 91
88♦	5475	S5475F	VALG	2-BIT LCH	229- 91
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91	5475	*S5475W	RTCF	2-BIT LCH	229- 92
92	5475	*S5475W	SIC	2-BIT LCH	229- 92
93	5475	*S5475W	VALG	2-BIT LCH	229- 92
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96	5476	*5476FM	FSC	JK FL-FLOP	68- 48
97♦	5476	DM5476J	NSC	JK FL-FLOP	69- 42
98	5476	*DM5476W	NSC	JK FL-FLOP	69- 43
99♦	5476	S5476F	MULB	JK FL-FLOP	68- 18
100♦	5476	S5476F	PHIN	JK FL-FLOP	68- 18
101♦	5476	S5476F	RTCF	JK FL-FLOP	68- 18
102♦	5476	S5476F	SIC	JK FL-FLOP	68- 18
103♦	5476	S5476F	VALG	JK FL-FLOP	68- 18
104	5476	*S5476W	MULB	JK FL-FLOP	68- 19
105	5476	*S5476W	PHIN	JK FL-FLOP	68- 19
106	5476	*S5476W	RTCF	JK FL-FLOP	68- 19
107	5476	*S5476W	SIC	JK FL-FLOP	68- 19
108	5476	*S5476W	VALG	JK FL-FLOP	68- 19
109♦	5476	SN5476J	TII	JK FL-FLOP	68- 84
110♦	5477	*5477FM	FSC	4-BIT LCH	231- 91
111	5477	*S5477W	MULB	2-BIT LCH	229- 82
112	5477	*S5477W	PHIN	2-BIT LCH	229- 82
113	5477	*S5477W	SIC	2-BIT LCH	229- 82
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115♦	5480	S5480F	MULB	ADDER	198- 68
116♦	5480	S5480F	PHIN	ADDER	198- 68
117♦	5480	S5480F	VALG	ADDER	198- 68
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119	5480	*S5480W	PHIN	ADDER	198- 69
120	5480	*S5480W	VALG	ADDER	198- 69
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122♦	5483	5483ADM	FSC	ADDER	199- 79
123	5483	*5483AFM	FSC	ADDER	199- 80
124♦	5483	DM5483J	NSC	ADDER	200- 86
125	5483	*DM5483W	NSC	ADDER	200- 87
126♦	5483	S5483F	MULB	ADDER	200- 76
127♦	5483	S5483F	PHIN	ADDER	200- 76
128♦	5483	S5483F	RTCF	ADDER	200- 76
129♦	5483	S5483F	SIC	ADDER	200- 76
130♦	5483	S5483F	VALG	ADDER	200- 76
131	5483	*S5483W	MULB	ADDER	200- 77
132	5483	*S5483W	PHIN	ADDER	200- 77
133	5483	*S5483W	RTCF	ADDER	200- 77
134	5483	*S5483W	SIC	ADDER	200- 77
135	5483	*S5483W	VALG	ADDER	200- 77
136♦	5483	SN5483AJ	TII	ADDER	200- 49
137♦	5485	5485DM	FSC	MAGN COMP	216- 78
138	5485	*5485FM	FSC	MAGN COMP	216- 79
139♦	5485	DM5485J	NSC	MAGN COMP	216- 80
140	5485	*DM5485W	NSC	MAGN COMP	216- 72
141♦	5485	S5485F	MULB	MAGN COMP	216- 85
142♦	5485	S5485F	PHIN	MAGN COMP	216- 85
143♦	5485	S5485F	RTCF	MAGN COMP	216- 85
144♦	5485	S5485F	SIC	MAGN COMP	216- 85
145♦	5485	S5485F	VALG	MAGN COMP	216- 85
146	5485	*S5485W	MULB	MAGN COMP	216- 86
147	5485	*S5485W	PHIN	MAGN COMP	216- 86
148	5485	*S5485W	RTCF	MAGN COMP	216- 86
149	5485	*S5485W	SIC	MAGN COMP	216- 86
150	5485	*S5485W	VALG	MAGN COMP	216- 86
151♦	5485	SN5485J	TII	MAGN COMP	216- 92
152♦	5486	5486DM	FSC	EX-OR GATE	93- 75
153♦	5486	*5486FM	FSC	EX-OR GATE	93- 76
154♦	5486	DM5486J	NSC	EX-OR GATE	93- 80
155♦	5486	*DM5486W	NSC	EX-OR GATE	93- 81
156♦	5486	S5486F	MULB	EX-OR GATE	93-104
157♦	5486	S5486F	PHIN	EX-OR GATE	93-104
158♦	5486	S5486F	RTCF	EX-OR GATE	93-104
159♦	5486	S5486F	SIC	EX-OR GATE	93-104
160♦	5486	S5486F	VALG	EX-OR GATE	93-104
161♦	5486	*S5486W	MULB	EX-OR GATE	93-105
162♦	5486	*S5486W	PHIN	EX-OR GATE	93-105
163♦	5486	*S5486W	RTCF	EX-OR GATE	93-105
164♦	5486	*S5486W	SIC	EX-OR GATE	93-105
165♦	5486	*S5486W	VALG	EX-OR GATE	93-105
166♦	5486	SN5486J	TII	EX-OR GATE	94- 3
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168♦	5490	*5490AFM	FSC	DEC CNTR	175- 49
169♦	5490	5490DM	FSC	DEC CNTR	175- 50
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171♦	5490	DM5490J	NSC	DEC CNTR	175- 5
172♦	5490	*DM5490W	NSC	DEC CNTR	175- 6
173♦	5490	S5490F	MULB	DEC CNTR	173- 29
174♦	5490	S5490F	PHIN	DEC CNTR	173- 29
175♦	5490	S5490F	VALG	DEC CNTR	173- 29
176♦	5490	*S5490W	MULB	DEC CNTR	173- 30
177♦	5490	*S5490W	PHIN	DEC CNTR	173- 30
178♦	5490	*S5490W	VALG	DEC CNTR	173- 30
179♦	5490	SN5490AJ	TII	DEC CNTR	175-102
180♦	5492	5492ADM	FSC	COUNTER	167- 89
181♦	5492	*5492AFM	FSC	COUNTER	167- 90
182♦	5492	DM5492AJ	NSC	COUNTER	167- 81
183♦	5492	*DM5492AW	NSC	COUNTER	167-102
184♦	5492	DM5492J	NSC	COUNTER	167- 93
185♦	5492	*DM5492W	NSC	COUNTER	167- 94
186♦	5492	S5492F	MULB	COUNTER	167- 79
187♦	5492	S5492F	PHIN	COUNTER	167- 79
188♦	5492	S5492F	VALG	COUNTER	167- 79
189♦	5492	*S5492W	MULB	COUNTER	167- 80
190♦	5492	*S5492W	PHIN	COUNTER	167- 80
191♦	5492	*S5492W	VALG	COUNTER	167- 80
192♦	5492	SN5492AJ	TII	COUNTER	168- 1
193♦	5493	5493ADM	FSC	HEX CNTR	157- 26
194♦	5493	*5493AFM	FSC	HEX CNTR	157- 27
195♦	5493	DM5493AJ	NSC	HEX CNTR	155- 66
196♦	5493	*DM5493AW	NSC	HEX CNTR	158- 8
197♦	5493	DM5493J	NSC	HEX CNTR	157- 42
198♦	5493	*DM5493W	NSC	HEX CNTR	157- 43
199♦	5493	S5493F	MULB	HEX CNTR	155- 6
200♦	5493	S5493F	PHIN	HEX CNTR	155- 6
201♦	5493	S5493F	RTCF	HEX CNTR	155- 6
202♦	5493	S5493F	SIC	HEX CNTR	155- 6
203♦	5493	S5493F	VALG	HEX CNTR	155- 6
204♦	5493	*S5493W	MULB	HEX CNTR	155- 7
205♦	5493	*S5493W	PHIN	HEX CNTR	155- 7
206♦	5493	*S5493W	RTCF	HEX CNTR	155- 7
207♦	5493	*S5493W	SIC	HEX CNTR	155- 7
208♦	5493	*S5493W	VALG	HEX CNTR	155- 7
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5♦	5507	MSM5507RS	OKIJ	COUNTER	169-105
6♦	5508	MSM5508	OKIJ	COUNTER	170- 88
7♦	5508	MSM5508RS	OKIJ	COUNTER	170- 89
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26♦	5563	MSM5563A	OKIJ	COUNTER	172- 19
27♦	5563	MSM5563RS	OKIJ	COUNTER	172- 20
28♦	5564	MSM5564	OKIJ	COUNTER	172- 21
29♦	5564	MSM5564A	OKIJ	COUNTER	172- 22
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31♦	5570	MSM5570	OKIJ	COUNTER	169- 88
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33♦	5571	MSM5571	OKIJ	COUNTER	169- 97
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36♦	5572	MSM5572A	OKIJ	COUNTER	165- 65
37♦	5573	MSM5573	OKIJ	COUNTER	170- 79
38♦	5573	MSM5573A	OKIJ	COUNTER	170- 80
39♦	5574	MSM5574	OKIJ	COUNTER	170- 82
40♦	5574	MSM5574A	OKIJ	COUNTER	170- 83
41♦	5576	MSM5576	OKIJ	COUNTER	170- 84
42♦	5576	MSM5576A	OKIJ	COUNTER	170- 85
43♦	5576	MSM5576RS	OKIJ	COUNTER	170- 86
44♦	5577	MSM5577	OKIJ	COUNTER	169- 79
45♦	5577	MSM5577A	OKIJ	COUNTER	169- 80
46♦	5577	MSM5577RS	OKIJ	COUNTER	169- 81
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181▼	7210	*IDT7210L55L	IDT	MULTIPLIER	208- 63
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75♦	7213	*IDT7213L55LB	IDT	MULTIPLIER	204- 63
76▼	7213	IDT7213L55XCB	IDT	MULTIPLIER	204- 64
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133▼	7216	*IDT7216L55XL	IDT	MULTIPLIER	208- 82
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138▼	7216	*IDT7216L65FB	IDT	MULTIPLIER	209- 73
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140▼	7216	IDT7216L65GB	IDT	MULTIPLIER	209- 75
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157▼	7216	*IDT7216L75LB	IDT	MULTIPLIER	210- 94
158▼	7216	IDT7216L75P	IDT	MULTIPLIER	210- 95
159▼	7216	IDT7216L75XC	IDT	MULTIPLIER	210- 96
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161▼	7216	*IDT7216L75XL	IDT	MULTIPLIER	210- 98
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164▼	7216	IDT7216L90CB	IDT	MULTIPLIER	211- 86
165♦	7216	*IDT7216L90F	IDT	MULTIPLIER	211- 87
166▼	7216	*IDT7216L90FB	IDT	MULTIPLIER	211- 88
167▼	7216	IDT7216L90G	IDT	MULTIPLIER	211- 89
168▼	7216	IDT7216L90GB	IDT	MULTIPLIER	211- 90
169▼	7216	*IDT7216L90J	IDT	MULTIPLIER	211- 91
170♦	7216	*IDT7216L90L	IDT	MULTIPLIER	211- 92
171▼	7216	*IDT7216L90LB	IDT	MULTIPLIER	211- 93
172▼	7216	IDT7216L90P	IDT	MULTIPLIER	211- 94
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175▼	7216	*IDT7216L90XL	IDT	MULTIPLIER	211- 97
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178▼	7216	*IDT7216L120FB	IDT	MULTIPLIER	213- 5
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180▼	7216	*IDT7216L120LB	IDT	MULTIPLIER	213- 7
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194▼	7216	*IDT7216L185LB	IDT	MULTIPLIER	213-110
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196▼	7216	*IDT7216L185XLB	IDT	MULTIPLIER	214- 2
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216▼	7217	*IDT7217L35L	IDT	MULTIPLIER	207- 1
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57▼	7217	IDT7217L90CB	IDT	MULTIPLIER	211-100
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59▼	7217	*IDT7217L90FB	IDT	MULTIPLIER	211-102
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64▼	7217	*IDT7217L90LB	IDT	MULTIPLIER	211-107
65▼	7217	IDT7217L90P	IDT	MULTIPLIER	211-108
66▼	7217	IDT7217L90XC	IDT	MULTIPLIER	211-109
67▼	7217	IDT7217L90XCB	IDT	MULTIPLIER	211-110
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112▼	7243	*IDT7243L35J	IDT	MULTIPLIER	207- 7
113▼	7243	*IDT7243L35L	IDT	MULTIPLIER	207- 8
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123▼	7243	*IDT7243L45F	IDT	MULTIPLIER	207- 87
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131▼	7243	*IDT7243L55F	IDT	MULTIPLIER	208-100
132▼	7243	*IDT7243L55FB	IDT	MULTIPLIER	208-101
133▼	7243	*IDT7243L55J	IDT	MULTIPLIER	208-102
134▼	7243	*IDT7243L55L	IDT	MULTIPLIER	208-103
135▼	7243	*IDT7243L55LB	IDT	MULTIPLIER	208-104
136▼	7243	IDT7243L55P	IDT	MULTIPLIER	208-105
137▼	7243	IDT7243L55XC	IDT	MULTIPLIER	208-106
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140▼	7243	*IDT7243L55XLB	IDT	MULTIPLIER	208-109
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143▼	7243	*IDT7243L65F	IDT	MULTIPLIER	209-100
144▼	7243	*IDT7243L65FB	IDT	MULTIPLIER	209-101
145▼	7243	*IDT7243L65J	IDT	MULTIPLIER	209-102
146▼	7243	*IDT7243L65L	IDT	MULTIPLIER	209-103
147▼	7243	*IDT7243L65LB	IDT	MULTIPLIER	209-104
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150▼	7243	IDT7243L65XCB	IDT	MULTIPLIER	209-107
151▼	7243	*IDT7243L65XL	IDT	MULTIPLIER	209-108
152▼	7243	*IDT7243L65XLB	IDT	MULTIPLIER	209-109
153♦	7243	IDT7243L75C	IDT	MULTIPLIER	211- 4
154▼	7243	IDT7243L75CB	IDT	MULTIPLIER	211- 5
155▼	7243	*IDT7243L75F	IDT	MULTIPLIER	211- 6
156▼	7243	*IDT7243L75FB	IDT	MULTIPLIER	211- 7
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158♦	7243	*IDT7243L75L	IDT	MULTIPLIER	211- 9
159▼	7243	*IDT7243L75LB	IDT	MULTIPLIER	211- 10
160▼	7243	IDT7243L75P	IDT	MULTIPLIER	211- 11
161▼	7243	IDT7243L75XC	IDT	MULTIPLIER	211- 12
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165♦	7243	IDT7243L85CB	IDT	MULTIPLIER	211- 78
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167♦	7243	*IDT7243L85LB	IDT	MULTIPLIER	211- 80
168▼	7243	IDT7243L85XCB	IDT	MULTIPLIER	211- 81
169▼	7243	*IDT7243L85XLB	IDT	MULTIPLIER	211- 82
170♦	7243	IDT7243L100C	IDT	MULTIPLIER	212- 58
171▼	7243	*IDT7243L100F	IDT	MULTIPLIER	212- 59
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173♦	7243	*IDT7243L100L	IDT	MULTIPLIER	212- 61
174▼	7243	IDT7243L100P	IDT	MULTIPLIER	212- 62
175▼	7243	IDT7243L100XC	IDT	MULTIPLIER	212- 63
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199♦	7280	*DM7280W	NSC	DEC CNTR	175-107
200♦	7281	DM7281J	NSC	HEX CNTR	158- 30
201♦	7281	*DM7281W	NSC	HEX CNTR	158- 31
202♦	7400	7400DC	FSC	NAND GATE	95- 78
203♦	7400	7400PC	FSC	NAND GATE	95- 79
204♦	7400	DM7400N	NSC	NAND GATE	96- 13
205♦	7400	N7400F	MULB	NAND GATE	97- 2
206♦	7400	N7400F	PHIN	NAND GATE	97- 2
207♦	7400	N7400F	RTCF	NAND GATE	97- 2
208♦	7400	N7400F	VALG	NAND GATE	97- 2
209♦	7400	N7400N	MULB	NAND GATE	97- 3
210♦	7400	N7400N	PHIN	NAND GATE	97- 3
211♦	7400	N7400N	RTCF	NAND GATE	97- 3
212♦	7400	N7400N	SIC	NAND GATE	97- 3
213♦	7400	N7400N	VALG	NAND GATE	97- 3
214♦	7400	SN7400N	TII	NAND GATE	97- 85
215♦	7400	TC7400BP	IMTM	NAND GATE	97- 99
216♦	7400	TC7400BP	TOSJ	NAND GATE	97- 99
217♦	7401	7401DC	FSC	NAND GATE	100- 3
218♦	7401	7401PC	FSC	NAND GATE	99- 42
219♦	7401	DM7401N	NSC	NAND GATE	100- 9
220♦	7401	N7401F	MULB	NAND GATE	100- 13

GENERIC PRODUCT INDEX

IN ORDER OF (1) GENERIC NO. (2) MFR TYPE NO. (3) MFR CODE

LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	7401	N7401F	PHIN	NAND GATE	100- 13
2♦	7401	N7401F	VALG	NAND GATE	100- 13
3♦	7401	N7401N	MULB	NAND GATE	100- 14
4♦	7401	N7401N	PHIN	NAND GATE	100- 14
5♦	7401	N7401N	VALG	NAND GATE	100- 14
6♦	7401	SN7401N	TII	NAND GATE	100- 49
7♦	7402	7402DC	FSC	NOR GATE	112- 53
8♦	7402	7402PC	FSC	NOR GATE	112- 54
9♦	7402	DM7402N	NSC	NOR GATE	112- 68
10♦	7402	N7402F	MULB	NOR GATE	112- 96
11♦	7402	N7402F	PHIN	NOR GATE	112- 96
12♦	7402	N7402F	RTCF	NOR GATE	112- 96
13♦	7402	N7402F	VALG	NOR GATE	112- 96
14♦	7402	N7402N	MULB	NOR GATE	112- 97
15♦	7402	N7402N	PHIN	NOR GATE	112- 97
16♦	7402	N7402N	RTCF	NOR GATE	112- 97
17♦	7402	N7402N	SIC	NOR GATE	112- 97
18♦	7402	N7402N	VALG	NOR GATE	112- 97
19♦	7402	SN7402N	TII	NOR GATE	113- 8
20♦	7403	7403DC	FSC	NAND GATE	95- 80
21♦	7403	7403PC	FSC	NAND GATE	95- 81
22♦	7403	DM7403N	NSC	NAND GATE	96- 14
23♦	7403	N7403F	MULB	NAND GATE	97- 4
24♦	7403	N7403F	PHIN	NAND GATE	97- 4
25♦	7403	N7403F	RTCF	NAND GATE	97- 4
26♦	7403	N7403F	VALG	NAND GATE	97- 4
27♦	7403	N7403N	MULB	NAND GATE	97- 5
28♦	7403	N7403N	PHIN	NAND GATE	97- 5
29♦	7403	N7403N	RTCF	NAND GATE	97- 5
30♦	7403	N7403N	SIC	NAND GATE	97- 5
31♦	7403	N7403N	VALG	NAND GATE	97- 5
32♦	7403	SN7403N	TII	NAND GATE	97- 86
33♦	7408	7408DC	FSC	AND GATE	76- 18
34♦	7408	7408PC	FSC	AND GATE	76- 19
35♦	7408	DM7408N	NSC	AND GATE	76- 33
36♦	7408	N7408F	MULB	AND GATE	76- 76
37♦	7408	N7408F	PHIN	AND GATE	76- 76
38♦	7408	N7408F	RTCF	AND GATE	76- 76
39♦	7408	N7408F	VALG	AND GATE	76- 76
40♦	7408	N7408N	MULB	AND GATE	76- 77
41♦	7408	N7408N	PHIN	AND GATE	76- 77
42♦	7408	N7408N	RTCF	AND GATE	76- 77
43♦	7408	N7408N	SIC	AND GATE	76- 77
44♦	7408	N7408N	VALG	AND GATE	76- 77
45♦	7408	SN7408N	TII	AND GATE	76-108
46♦	7409	7409DC	FSC	AND GATE	78- 5
47♦	7409	7409PC	FSC	AND GATE	78- 6
48♦	7409	DM7409N	NSC	AND GATE	78- 10
49♦	7409	N7409F	MULB	AND GATE	78- 15
50♦	7409	N7409F	PHIN	AND GATE	78- 15
51♦	7409	N7409F	VALG	AND GATE	78- 15
52♦	7409	N7409N	MULB	AND GATE	78- 16
53♦	7409	N7409N	PHIN	AND GATE	78- 16
54♦	7409	N7409N	VALG	AND GATE	78- 16
55♦	7409	SN7409N	TII	AND GATE	78- 24
56♦	7410	7410DC	FSC	NAND GATE	101- 34
57♦	7410	7410PC	FSC	NAND GATE	101- 35
58♦	7410	DM7410N	NSC	NAND GATE	101- 53
59♦	7410	N7410F	MULB	NAND GATE	101- 98
60♦	7410	N7410F	PHIN	NAND GATE	101- 98
61♦	7410	N7410F	RTCF	NAND GATE	101- 98
62♦	7410	N7410F	VALG	NAND GATE	101- 98
63♦	7410	N7410N	MULB	NAND GATE	101- 99
64♦	7410	N7410N	PHIN	NAND GATE	101- 99
65♦	7410	N7410N	RTCF	NAND GATE	101- 99
66♦	7410	N7410N	SIC	NAND GATE	101- 99
67♦	7410	N7410N	VALG	NAND GATE	101- 99
68♦	7410	SN7410N	TII	NAND GATE	102- 34
69♦	7411	7411DC	FSC	AND GATE	79- 45
70♦	7411	7411PC	FSC	AND GATE	79- 46
71♦	7411	DM7411N	NSC	AND GATE	79- 65
72♦	7411	N7411F	MULB	AND GATE	79-101
73♦	7411	N7411F	PHIN	AND GATE	79-101
74♦	7411	N7411F	RTCF	AND GATE	79-101
75♦	7411	N7411F	VALG	AND GATE	79-101
76♦	7411	N7411N	MULB	AND GATE	79-102
77♦	7411	N7411N	PHIN	AND GATE	79-102
78♦	7411	N7411N	RTCF	AND GATE	79-102
79♦	7411	N7411N	SIC	AND GATE	79-102
80♦	7411	N7411N	VALG	AND GATE	79-102
81♦	7412	7412DC	FSC	NAND GATE	101- 36
82♦	7412	N7412F	MULB	NAND GATE	101-100
83♦	7412	N7412F	PHIN	NAND GATE	101-100
84♦	7412	N7412F	VALG	NAND GATE	101-100
85♦	7412	N7412N	MULB	NAND GATE	101-101
86♦	7412	N7412N	PHIN	NAND GATE	101-101
87♦	7412	N7412N	VALG	NAND GATE	101-101
88♦	7412	SN7412N	TII	NAND GATE	102- 35
89♦	7420	7420DC	FSC	NAND GATE	107- 7
90♦	7420	7420PC	FSC	NAND GATE	107- 8
91♦	7420	DM7420N	NSC	NAND GATE	107- 23
92♦	7420	N7420F	MULB	NAND GATE	107- 9
93♦	7420	N7420F	PHIN	NAND GATE	107- 9
94♦	7420	N7420F	RTCF	NAND GATE	107- 9
95♦	7420	N7420F	VALG	NAND GATE	107- 9
96♦	7420	N7420N	MULB	NAND GATE	107- 10
97♦	7420	N7420N	PHIN	NAND GATE	107- 10
98♦	7420	N7420N	RTCF	NAND GATE	107- 10
99♦	7420	N7420N	SIC	NAND GATE	107- 10
100♦	7420	N7420N	VALG	NAND GATE	107- 10
101♦	7420	SN7420N	TII	NAND GATE	107- 16
102♦	7421	7421DC	FSC	AND GATE	82- 90
103♦	7421	7421PC	FSC	AND GATE	82- 91
104♦	7421	N7421F	MULB	AND GATE	82- 93
105♦	7421	N7421F	PHIN	AND GATE	82- 93
106♦	7421	N7421F	RTCF	AND GATE	82- 93
107♦	7421	N7421F	VALG	AND GATE	82- 93
108♦	7421	N7421N	MULB	AND GATE	82- 94
109♦	7421	N7421N	PHIN	AND GATE	82- 94
110♦	7421	N7421N	RTCF	AND GATE	82- 94
111♦	7421	N7421N	SIC	AND GATE	82- 94
112♦	7421	N7421N	VALG	AND GATE	82- 94
113♦	7422	7422DC	FSC	NAND GATE	104- 56
114♦	7422	7422PC	FSC	NAND GATE	104- 57
115♦	7422	SN7422N	TII	NAND GATE	105- 49
116♦	7423	7423PC	FSC	NOR GATE	117- 86
117♦	7423	DM7423N	NSC	NOR GATE	117- 91
118♦	7423	N7423F	MULB	NOR GATE	117- 94
119♦	7423	N7423F	PHIN	NOR GATE	117- 94
120♦	7423	N7423F	VALG	NOR GATE	117- 94
121♦	7423	N7423N	MULB	NOR GATE	117- 95
122♦	7423	N7423N	PHIN	NOR GATE	117- 95
123♦	7423	N7423N	VALG	NOR GATE	117- 95
124♦	7423	SN7423N	TII	NOR GATE	117-104
125♦	7425	7425DC	FSC	NOR GATE	117- 87
126♦	7425	7425PC	FSC	NOR GATE	117- 88
127♦	7425	DM7425N	NSC	NOR GATE	117- 92
128♦	7425	N7425N	MULB	NOR GATE	117- 96
129♦	7425	N7425N	PHIN	NOR GATE	117- 96
130♦	7425	N7425N	RTCF	NOR GATE	117- 96
131♦	7425	N7425N	SIC	NOR GATE	117- 96
132♦	7425	N7425N	VALG	NOR GATE	117- 96
133♦	7425	SN7425N	TII	NOR GATE	117-105
134♦	7426	7426DC	FSC	NAND GATE	95- 82
135♦	7426	7426PC	FSC	NAND GATE	95- 83
136♦	7426	DM7426N	NSC	NAND GATE	99- 18
137♦	7426	N7426F	MULB	NAND GATE	97- 6
138♦	7426	N7426F	PHIN	NAND GATE	97- 6
139♦	7426	N7426F	RTCF	NAND GATE	97- 6
140♦	7426	N7426F	VALG	NAND GATE	97- 6
141♦	7426	N7426N	MULB	NAND GATE	97- 7
142♦	7426	N7426N	PHIN	NAND GATE	97- 7
143♦	7426	N7426N	RTCF	NAND GATE	97- 7
144♦	7426	N7426N	SIC	NAND GATE	97- 7
145♦	7426	N7426N	VALG	NAND GATE	97- 7
146♦	7427	7427DC	FSC	NOR GATE	115- 62
147♦	7427	7427PC	FSC	NOR GATE	115- 63
148♦	7427	DM7427N	NSC	NOR GATE	115- 73
149♦	7427	N7427F	MULB	NOR GATE	115- 91
150♦	7427	N7427F	PHIN	NOR GATE	115- 91
151♦	7427	N7427F	RTCF	NOR GATE	115- 91
152♦	7427	N7427F	VALG	NOR GATE	115- 91
153♦	7427	N7427N	MULB	NOR GATE	115- 92
154♦	7427	N7427N	PHIN	NOR GATE	115- 92
155♦	7427	N7427N	RTCF	NOR GATE	115- 92
156♦	7427	N7427N	SIC	NOR GATE	115- 92
157♦	7427	N7427N	VALG	NOR GATE	115- 92
158♦	7427	SN7427N	TII	NOR GATE	115-110
159♦	7430	7430DC	FSC	NAND GATE	110- 23
160♦	7430	7430PC	FSC	NAND GATE	110- 24
161♦	7430	DM7430N	NSC	NAND GATE	110- 27
162♦	7430	N7430F	MULB	NAND GATE	110- 28
163♦	7430	N7430F	PHIN	NAND GATE	110- 28
164♦	7430	N7430F	RTCF	NAND GATE	110- 28
165♦	7430	N7430F	VALG	NAND GATE	110- 28
166♦	7430	N7430N	MULB	NAND GATE	110- 29
167♦	7430	N7430N	PHIN	NAND GATE	110- 29
168♦	7430	N7430N	RTCF	NAND GATE	110- 29
169♦	7430	N7430N	SIC	NAND GATE	110- 29
170♦	7430	N7430N	VALG	NAND GATE	110- 29
171♦	7430	SN7430N	TII	NAND GATE	110- 34
172♦	7432	7432DC	FSC	OR GATE	120- 16
173♦	7432	7432PC	FSC	OR GATE	120- 17
174♦	7432	DM7432N	NSC	OR GATE	120- 27
175♦	7432	N7432F	MULB	OR GATE	120- 67
176♦	7432	N7432F	PHIN	OR GATE	120- 67
177♦	7432	N7432F	RTCF	OR GATE	120- 67
178♦	7432	N7432F	VALG	OR GATE	120- 67
179♦	7432	N7432N	MULB	OR GATE	120- 68
180♦	7432	N7432N	PHIN	OR GATE	120- 68
181♦	7432	N7432N	RTCF	OR GATE	120- 68
182♦	7432	N7432N	SIC	OR GATE	120- 68
183♦	7432	N7432N	VALG	OR GATE	120- 68
184♦	7432	SN7432N	TII	OR GATE	120- 85
185♦	7437	DM7437N	NSC	NAND GATE	96- 15
186♦	7438	DM7438N	NSC	NAND GATE	96- 16
187▼	7438	SN7438N	TII	NAND GATE	97- 87
188♦	7440	DM7440N	NSC	NAND GATE	107- 24
189♦	7442	7442ADC	FSC	DECODER	126- 43
190	7442	7442APC	FSC	DECODER	126- 44
191▼	7442	N7442F	MULB	DECODER	127- 44
192▼	7442	N7442F	PHIN	DECODER	127- 44
193▼	7442	N7442F	VALG	DECODER	127- 44
194▼	7442	N7442N	MULB	DECODER	127- 45
195▼	7442	N7442N	PHIN	DECODER	127- 45
196▼	7442	N7442N	RTCF	DECODER	127- 45
197▼	7442	N7442N	SIC	DECODER	127- 45
198▼	7442	N7442N	VALG	DECODER	127- 45
199♦	7442	SN7442AN	TII	DECODER	127- 75
200♦	7443	N7443F	MULB	DECODER	127- 90
201♦	7443	N7443F	PHIN	DECODER	127- 90
202♦	7443	N7443F	VALG	DECODER	127- 90
203♦	7443	N7443N	MULB	DECODER	127- 46
204♦	7443	N7443N	PHIN	DECODER	127- 46
205♦	7443	N7443N	VALG	DECODER	127- 46
206♦	7444	N7444F	MULB	DECODER	127- 97
207♦	7444	N7444F	PHIN	DECODER	127- 97
208♦	7444	N7444F	VALG	DECODER	127- 97
209♦	7444	N7444N	MULB	DECODER	127- 98
210♦	7444	N7444N	PHIN	DECODER	127- 98
211♦	7444	N7444N	VALG	DECODER	127- 98
212♦	7450	7450DC	FSC	AND-OR-INV	85- 84
213♦	7450	7450PC	FSC	AND-OR-INV	85- 85
214♦	7450	DM7450N	NSC	AND-OR-INV	85- 98
215♦	7450	N7450F	MULB	AND-OR-INV	86- 7
216♦	7450	N7450F	PHIN	AND-OR-INV	86- 7
217♦	7450	N7450F	RTCF	AND-OR-INV	86- 7
218♦	7450	N7450F	VALG	AND-OR-INV	86- 7
219♦	7450	N7450N	MULB	AND-OR-INV	86- 8
220♦	7450	N7450N	PHIN	AND-OR-INV	86- 8

*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

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1♦	7450	N7450N	RTCF	AND-OR-INV	86- 8
2♦	7450	N7450N	VALG	AND-OR-INV	86- 8
3♦	7450	SN7450N	TII	AND-OR-INV	86- 73
4♦	7451	7451DC	FSC	AND-OR-INV	85- 86
5♦	7451	7451PC	FSC	AND-OR-INV	85- 87
6♦	7451	DM7451N	NSC	AND-OR-INV	85- 99
7♦	7451	N7451F	MULB	AND-OR-INV	86- 9
8♦	7451	N7451F	PHIN	AND-OR-INV	86- 9
9♦	7451	N7451F	RTCF	AND-OR-INV	86- 9
10♦	7451	N7451F	VALG	AND-OR-INV	86- 9
11♦	7451	N7451N	MULB	AND-OR-INV	86- 10
12♦	7451	N7451N	PHIN	AND-OR-INV	86- 10
13♦	7451	N7451N	RTCF	AND-OR-INV	86- 10
14♦	7451	N7451N	SIC	AND-OR-INV	86- 10
15♦	7451	N7451N	VALG	AND-OR-INV	86- 10
16♦	7451	SN7451N	TII	AND-OR-INV	86- 74
17♦	7453	7453DC	FSC	AND-OR-INV	86- 90
18♦	7453	7453PC	FSC	AND-OR-INV	86- 91
19♦	7453	DM7453N	NSC	AND-OR-INV	86-102
20♦	7453	N7453F	MULB	AND-OR-INV	87- 11
21♦	7453	N7453F	PHIN	AND-OR-INV	87- 11
22♦	7453	N7453F	VALG	AND-OR-INV	87- 11
23♦	7453	N7453N	MULB	AND-OR-INV	87- 12
24♦	7453	N7453N	PHIN	AND-OR-INV	87- 12
25♦	7453	N7453N	VALG	AND-OR-INV	87- 12
26♦	7453	SN7453N	TII	AND-OR-INV	87- 27
27♦	7454	7454DC	FSC	AND-OR-INV	86- 92
28♦	7454	7454PC	FSC	AND-OR-INV	86- 93
29♦	7454	DM7454N	NSC	AND-OR-INV	86-103
30♦	7454	N7454F	MULB	AND-OR-INV	87- 13
31♦	7454	N7454F	PHIN	AND-OR-INV	87- 13
32♦	7454	N7454F	VALG	AND-OR-INV	87- 13
33♦	7454	N7454N	MULB	AND-OR-INV	87- 14
34♦	7454	N7454N	PHIN	AND-OR-INV	87- 14
35♦	7454	N7454N	VALG	AND-OR-INV	87- 14
36♦	7454	SN7454N	TII	AND-OR-INV	87- 28
37♦	7460	7460DC	FSC	AND GATE	81- 41
38♦	7460	7460PC	FSC	AND GATE	81- 42
39♦	7460	DM7460N	NSC	AND GATE	81- 52
40♦	7460	N7460F	MULB	AND GATE	81- 70
41♦	7460	N7460F	PHIN	AND GATE	81- 70
42♦	7460	N7460F	VALG	AND GATE	81- 70
43♦	7460	N7460N	MULB	AND GATE	81- 71
44♦	7460	N7460N	PHIN	AND GATE	81- 71
45♦	7460	N7460N	VALG	AND GATE	81- 71
46♦	7470	7470PC	FSC	JK FL-FLOP	66- 23
47♦	7470	DM7470N	NSC	JK FL-FLOP	65- 34
48♦	7470	N7470F	MULB	JK FL-FLOP	65- 37
49♦	7470	N7470F	PHIN	JK FL-FLOP	65- 37
50♦	7470	N7470F	VALG	JK FL-FLOP	65- 37
51♦	7470	N7470N	MULB	JK FL-FLOP	65- 38
52♦	7470	N7470N	PHIN	JK FL-FLOP	65- 38
53♦	7470	N7470N	VALG	JK FL-FLOP	65- 38
54♦	7470	SN7470N	TII	JK FL-FLOP	66- 26
55♦	7472	7472DC	FSC	JK FL-FLOP	65- 26
56♦	7472	7472PC	FSC	JK FL-FLOP	65- 27
57♦	7472	DM7472N	NSC	JK FL-FLOP	65- 94
58♦	7472	N7472F	MULB	JK FL-FLOP	65- 5
59♦	7472	N7472F	PHIN	JK FL-FLOP	65- 5
60♦	7472	N7472F	VALG	JK FL-FLOP	65- 5
61♦	7472	N7472N	MULB	JK FL-FLOP	65- 6
62♦	7472	N7472N	PHIN	JK FL-FLOP	65- 6
63♦	7472	N7472N	VALG	JK FL-FLOP	65- 6
64♦	7472	SN7472N	TII	JK FL-FLOP	65- 70
65♦	7473	7473DC	FSC	JK FL-FLOP	68- 49
66♦	7473	7473PC	FSC	JK FL-FLOP	68- 50
67♦	7473	DM7473N	NSC	JK FL-FLOP	69- 44
68♦	7473	N7473F	MULB	JK FL-FLOP	68- 9
69♦	7473	N7473F	PHIN	JK FL-FLOP	68- 9
70♦	7473	N7473F	RTCF	JK FL-FLOP	68- 9
71♦	7473	N7473F	VALG	JK FL-FLOP	68- 9
72♦	7473	N7473N	MULB	JK FL-FLOP	68- 10
73♦	7473	N7473N	PHIN	JK FL-FLOP	68- 10
74♦	7473	N7473N	RTCF	JK FL-FLOP	68- 10
75♦	7473	N7473N	SIC	JK FL-FLOP	68- 10
76♦	7473	N7473N	VALG	JK FL-FLOP	68- 10
77♦	7473	SN7473N	TII	JK FL-FLOP	68- 85
78♦	7474	7474DC	FSC	D FL-FLOP	51- 54
79♦	7474	7474PC	FSC	D FL-FLOP	51- 55
80♦	7474	DM7474N	NSC	D FL-FLOP	52- 27
81♦	7474	N7474F	MULB	D FL-FLOP	51- 20
82♦	7474	N7474F	PHIN	D FL-FLOP	51- 20
83♦	7474	N7474F	RTCF	D FL-FLOP	51- 20
84♦	7474	N7474F	VALG	D FL-FLOP	51- 20
85♦	7474	N7474N	MULB	D FL-FLOP	51- 21
86♦	7474	N7474N	PHIN	D FL-FLOP	51- 21
87♦	7474	N7474N	RTCF	D FL-FLOP	51- 21
88♦	7474	N7474N	SIC	D FL-FLOP	51- 21
89♦	7474	N7474N	VALG	D FL-FLOP	51- 21
90♦	7474	SN7474N	TII	D FL-FLOP	51- 90
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94♦	7475	N7475F	MULB	2-BIT LCH	229- 89
95♦	7475	N7475F	PHIN	2-BIT LCH	229- 89
96♦	7475	N7475F	RTCF	2-BIT LCH	229- 89
97♦	7475	N7475F	VALG	2-BIT LCH	229- 89
98♦	7475	N7475N	MULB	2-BIT LCH	229- 90
99♦	7475	N7475N	PHIN	2-BIT LCH	229- 90
100♦	7475	N7475N	RTCF	2-BIT LCH	229- 90
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102♦	7475	N7475N	VALG	2-BIT LCH	229- 90
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105	7476	7476PC	FSC	JK FL-FLOP	68- 52
106♦	7476	DM7476N	NSC	JK FL-FLOP	69- 45
107♦	7476	N7476F	MULB	JK FL-FLOP	68- 11
108♦	7476	N7476F	PHIN	JK FL-FLOP	68- 11
109♦	7476	N7476F	RTCF	JK FL-FLOP	68- 11
110♦	7476	N7476F	VALG	JK FL-FLOP	68- 11
111♦	7476	N7476N	MULB	JK FL-FLOP	68- 12
112♦	7476	N7476N	PHIN	JK FL-FLOP	68- 12
113♦	7476	N7476N	RTCF	JK FL-FLOP	68- 12
114♦	7476	N7476N	SIC	JK FL-FLOP	68- 12
115♦	7476	N7476N	VALG	JK FL-FLOP	68- 12
116♦	7476	SN7476N	TII	JK FL-FLOP	68- 86
117♦	7476	TC7476BP	IMTM	JK FL-FLOP	67- 37
118♦	7476	TC7476BP	TOSJ	JK FL-FLOP	67- 37
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120♦	7480	N7480F	PHIN	ADDER	198- 66
121♦	7480	N7480F	VALG	ADDER	198- 66
122♦	7480	N7480N	MULB	ADDER	198- 67
123♦	7480	N7480N	PHIN	ADDER	198- 67
124♦	7480	N7480N	VALG	ADDER	198- 67
125♦	7480	SN7480N	TII	ADDER	198- 70
126♦	7482	SN7482N	TII	ADDER	198-107
127♦	7483	7483ADC	FSC	ADDER	199- 81
128♦	7483	7483APC	FSC	ADDER	199- 82
129♦	7483	DM7483N	NSC	ADDER	200- 88
130♦	7483	N7483F	MULB	ADDER	200- 89
131♦	7483	N7483F	PHIN	ADDER	200- 89
132♦	7483	N7483F	RTCF	ADDER	200- 89
133♦	7483	N7483F	VALG	ADDER	200- 89
134♦	7483	N7483N	MULB	ADDER	200- 73
135♦	7483	N7483N	PHIN	ADDER	200- 73
136♦	7483	N7483N	RTCF	ADDER	200- 73
137♦	7483	N7483N	SIC	ADDER	200- 73
138♦	7483	N7483N	VALG	ADDER	200- 73
139♦	7483	SN7483AN	TII	ADDER	200- 50
140♦	7485	DM7485N	NSC	MAGN COMP	216- 81
141♦	7485	N7485F	MULB	MAGN COMP	216- 83
142♦	7485	N7485F	PHIN	MAGN COMP	216- 83
143♦	7485	N7485F	RTCF	MAGN COMP	216- 83
144♦	7485	N7485F	VALG	MAGN COMP	216- 83
145♦	7485	N7485N	MULB	MAGN COMP	216- 84
146♦	7485	N7485N	PHIN	MAGN COMP	216- 84
147♦	7485	N7485N	RTCF	MAGN COMP	216- 84
148♦	7485	N7485N	SIC	MAGN COMP	216- 84
149♦	7485	N7485N	VALG	MAGN COMP	216- 84
150♦	7485	SN7485N	TII	MAGN COMP	216- 93
151♦	7486	7486DC	FSC	EX-OR GATE	93- 77
152♦	7486	7486PC	FSC	EX-OR GATE	93- 78
153♦	7486	DM7486N	NSC	EX-OR GATE	93- 82
154♦	7486	N7486F	MULB	EX-OR GATE	93- 97
155♦	7486	N7486F	PHIN	EX-OR GATE	93- 97
156♦	7486	N7486F	RTCF	EX-OR GATE	93- 97
157♦	7486	N7486F	VALG	EX-OR GATE	93- 97
158♦	7486	N7486N	MULB	EX-OR GATE	93- 98
159♦	7486	N7486N	PHIN	EX-OR GATE	93- 98
160♦	7486	N7486N	RTCF	EX-OR GATE	93- 98
161♦	7486	N7486N	SIC	EX-OR GATE	93- 98
162♦	7486	N7486N	VALG	EX-OR GATE	93- 98
163♦	7486	SN7486N	TII	EX-OR GATE	94- 4
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165♦	7490	7490APC	FSC	DEC CNTR	175- 52
166♦	7490	DM7490AN	NSC	COUNTER	166- 85
167♦	7490	DM7490N	NSC	DEC CNTR	175- 7
168♦	7490	N7490F	MULB	DEC CNTR	173- 24
169♦	7490	N7490F	PHIN	DEC CNTR	173- 24
170♦	7490	N7490F	RTCF	DEC CNTR	173- 24
171♦	7490	N7490F	VALG	DEC CNTR	173- 24
172♦	7490	N7490N	MULB	DEC CNTR	173- 25
173♦	7490	N7490N	PHIN	DEC CNTR	173- 25
174♦	7490	N7490N	RTCF	DEC CNTR	173- 25
175♦	7490	N7490N	SIC	DEC CNTR	173- 25
176♦	7490	N7490N	VALG	DEC CNTR	173- 25
177♦	7490	SN7490AN	TII	DEC CNTR	175-103
178♦	7492	7492ADC	FSC	COUNTER	167- 91
179♦	7492	7492APC	FSC	COUNTER	167- 92
180♦	7492	DM7492AN	NSC	COUNTER	167-103
181♦	7492	DM7492N	NSC	COUNTER	167- 95
182♦	7492	N7492F	MULB	COUNTER	167- 77
183♦	7492	N7492F	PHIN	COUNTER	167- 77
184♦	7492	N7492F	RTCF	COUNTER	167- 77
185♦	7492	N7492F	VALG	COUNTER	167- 77
186♦	7492	N7492N	MULB	COUNTER	167- 78
187♦	7492	N7492N	PHIN	COUNTER	167- 78
188♦	7492	N7492N	RTCF	COUNTER	167- 78
189♦	7492	N7492N	SIC	COUNTER	167- 78
190♦	7492	N7492N	VALG	COUNTER	167- 78
191♦	7492	SN7492AN	TII	COUNTER	168- 2
192♦	7493	7493ADC	FSC	HEX CNTR	157- 28
193♦	7493	7493APC	FSC	HEX CNTR	157- 29
194♦	7493	DM7493AN	NSC	HEX CNTR	158- 9
195♦	7493	DM7493N	NSC	HEX CNTR	157- 44
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197♦	7493	N7493F	PHIN	HEX CNTR	155- 1
198♦	7493	N7493F	RTCF	HEX CNTR	155- 1
199♦	7493	N7493F	VALG	HEX CNTR	155- 1
200♦	7493	N7493N	MULB	HEX CNTR	155- 2
201♦	7493	N7493N	PHIN	HEX CNTR	155- 2
202♦	7493	N7493N	RTCF	HEX CNTR	155- 2
203♦	7493	N7493N	SIC	HEX CNTR	155- 2
204♦	7493	N7493N	VALG	HEX CNTR	155- 2
205♦	7493	SN7493AN	TII	HEX CNTR	158- 27
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208♦	7511	DM7511N	NSC	D FL-FLOP	52- 44
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210♦	7512	DM7512J	NSC	JK FL-FLOP	65- 95
211♦	7512	DM7512N	NSC	JK FL-FLOP	65- 96
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218♦	7552	*DM7552W	NSC	DEC CNTR	174- 26
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*Surface mount package style

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

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3♦	7555	DM7555J	NSC	DEC CNTR	175- 36
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6♦	7556	DM7556J	NSC	MOD-N CNTR	186- 5
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9♦	7560	DM7560J	NSC	DEC CNTR	179- 59
10♦	7560	*DM7560W	NSC	DEC CNTR	179- 60
11♦	7563	DM7563J	NSC	HEX CNTR	162- 69
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35♦	8091	*DM8091W	NSC	NAND GATE	98-110
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45♦	8120	AM8120PC	AMD	D FL-FLOP	60- 27
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54♦	8130	DM8130N	NSC	MAGN COMP	219- 23
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56♦	8131	DM8131N	NSC	MAGN COMP	215- 59
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97▼	8223	EP8223	PCA	TIME DELAY	138- 30
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109♦	8241	N8241F	PHIN	EX-OR GATE	92- 64
110♦	8241	N8241F	VALG	EX-OR GATE	92- 64
111♦	8241	N8241N	MULB	EX-OR GATE	92- 65
112♦	8241	N8241N	PHIN	EX-OR GATE	92- 65
113♦	8241	N8241N	VALG	EX-OR GATE	92- 65
114♦	8241	*N8241Q	MULB	EX-OR GATE	93- 28
115♦	8241	*N8241Q	PHIN	EX-OR GATE	93- 28
116♦	8241	S8241F	MULB	EX-OR GATE	92- 72
117♦	8241	S8241F	PHIN	EX-OR GATE	92- 72
118♦	8241	S8241F	VALG	EX-OR GATE	92- 72
119♦	8241	*S8241W	MULB	EX-OR GATE	93- 65
120♦	8241	*S8241W	PHIN	EX-OR GATE	93- 65
121♦	8241	*S8241W	VALG	EX-OR GATE	93- 65
122♦	8242	N8242F	MULB	EXNOR GATE	90- 47
123♦	8242	N8242F	PHIN	EXNOR GATE	90- 47
124♦	8242	N8242F	VALG	EXNOR GATE	90- 47
125♦	8242	N8242N	MULB	EXNOR GATE	90- 48
126♦	8242	N8242N	PHIN	EXNOR GATE	90- 48
127♦	8242	N8242N	SIC	EXNOR GATE	90- 48
128♦	8242	N8242N	VALG	EXNOR GATE	90- 48
129♦	8242	*N8242Q	MULB	EXNOR GATE	90- 69
130♦	8242	*N8242Q	PHIN	EXNOR GATE	90- 69
131♦	8242	S8242A	PHIN	EXNOR GATE	90- 52
132♦	8242	S8242F	MULB	EXNOR GATE	90- 53
133♦	8242	S8242F	PHIN	EXNOR GATE	90- 53
134♦	8242	S8242F	VALG	EXNOR GATE	90- 53
135♦	8242	*S8242W	MULB	EXNOR GATE	90- 82
136♦	8242	*S8242W	PHIN	EXNOR GATE	90- 82
137♦	8242	*S8242W	VALG	EXNOR GATE	90- 82
138♦	8243	N8243F	MULB	SPECIAL	246- 98
139♦	8243	N8243F	PHIN	SPECIAL	246- 98
140♦	8243	N8243F	VALG	SPECIAL	246- 98
141♦	8243	N8243N	MULB	SPECIAL	246- 99
142♦	8243	N8243N	PHIN	SPECIAL	246- 99
143♦	8243	N8243N	VALG	SPECIAL	246- 99
144♦	8243	S8243F	MULB	SPECIAL	246-100
145♦	8243	S8243F	PHIN	SPECIAL	246-100
146♦	8243	S8243F	VALG	SPECIAL	246-100
147	8243	*S8243Q	MULB	SPECIAL	246-101
148	8243	*S8243Q	PHIN	SPECIAL	246-101
149	8243	*S8243Q	VALG	SPECIAL	246-101
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151♦	8250	N8250F	PHIN	DECODER	125- 36
152♦	8250	N8250F	VALG	DECODER	125- 36
153♦	8250	N8250N	MULB	DECODER	125- 37
154♦	8250	N8250N	PHIN	DECODER	125- 37
155♦	8250	N8250N	VALG	DECODER	125- 37
156♦	8250	S8250A(1)	SIC	DECODER	125- 45
157♦	8250	S8250F	MULB	DECODER	125- 46
158♦	8250	S8250F	PHIN	DECODER	125- 46
159♦	8250	S8250F	SIC	DECODER	125- 46
160	8250	*S8250W	MULB	DECODER	125- 47
161	8250	*S8250W	PHIN	DECODER	125- 47
162	8250	*S8250W	SIC	DECODER	125- 47
163♦	8251	N8251F	MULB	DECODER	127- 47
164♦	8251	N8251F	PHIN	DECODER	127- 47
165♦	8251	N8251F	VALG	DECODER	127- 47
166♦	8251	N8251N	MULB	DECODER	127- 48
167♦	8251	N8251N	PHIN	DECODER	127- 48
168♦	8251	N8251N	VALG	DECODER	127- 48
169♦	8251	S8251F	MULB	DECODER	127- 64
170♦	8251	S8251F	PHIN	DECODER	127- 64
171	8251	*S8251W	MULB	DECODER	127- 65
172	8251	*S8251W	PHIN	DECODER	127- 65
173♦	8252	N8252F	MULB	DECODER	127- 49
174♦	8252	N8252F	PHIN	DECODER	127- 49
175♦	8252	N8252F	VALG	DECODER	127- 49
176♦	8252	N8252N	MULB	DECODER	127- 50
177♦	8252	N8252N	PHIN	DECODER	127- 50
178♦	8252	N8252N	VALG	DECODER	127- 50
179♦	8252	S8252F	MULB	DECODER	127- 66
180♦	8252	S8252F	PHIN	DECODER	127- 66
181	8252	*S8252W	MULB	DECODER	127- 67
182	8252	*S8252W	PHIN	DECODER	127- 67
183♦	8260	N8260F	MULB	4-BIT ALU	221- 86
184♦	8260	N8260F	PHIN	4-BIT ALU	221- 86
185♦	8260	N8260N	MULB	4-BIT ALU	221- 87
186♦	8260	N8260N	PHIN	4-BIT ALU	221- 87
187	8260	*N8260Q	MULB	4-BIT ALU	221- 88
188	8260	*N8260Q	PHIN	4-BIT ALU	221- 88
189♦	8260	S8260F	MULB	4-BIT ALU	221- 89
190♦	8260	S8260F	PHIN	4-BIT ALU	221- 89
191♦	8261	N8261F	MULB	SPECIAL	245- 82
192♦	8261	N8261F	PHIN	SPECIAL	245- 82
193♦	8261	*N8261Q	MULB	SPECIAL	245- 83
194♦	8261	*N8261Q	PHIN	SPECIAL	245- 83
195♦	8262	N8262F	MULB	PARITY GEN	227- 8
196♦	8262	N8262F	PHIN	PARITY GEN	227- 8
197♦	8262	N8262F	VALG	PARITY GEN	227- 8
198♦	8262	N8262N	MULB	PARITY GEN	227- 9
199♦	8262	N8262N	PHIN	PARITY GEN	227- 9
200♦	8262	N8262N	SIC	PARITY GEN	227- 9
201♦	8262	N8262N	VALG	PARITY GEN	227- 9
202♦	8262	S8262F	MULB	PARITY GEN	227- 10
203♦	8262	S8262F	PHIN	PARITY GEN	227- 10
204♦	8262	S8262F	SIC	PARITY GEN	227- 10
205♦	8262	S8262F	VALG	PARITY GEN	227- 10
206	8262	*S8262W	MULB	PARITY GEN	227- 11
207	8262	*S8262W	PHIN	PARITY GEN	227- 11
208	8262	*S8262W	SIC	PARITY GEN	227- 11
209	8262	*S8262W	VALG	PARITY GEN	227- 11
210♦	8268	N8268F	MULB	ADDER	198- 63
211♦	8268	N8268F	PHIN	ADDER	198- 63
212	8268	*N8268W	MULB	ADDER	198- 64
213	8268	*N8268W	PHIN	ADDER	198- 64
214♦	8269	8269	RSCB	FREQ DIVID	194- 87
215♦	8269	N8269F	MULB	MAGN COMP	216-103
216♦	8269	N8269F	PHIN	MAGN COMP	216-103
217	8269	*N8269W	MULB	MAGN COMP	216-104
218	8269	*N8269W	PHIN	MAGN COMP	216-104
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5▼	8276	EP8276	PCA	TIME DELAY	138- 47
6▼	8277	EP8277	PCA	TIME DELAY	138- 48
7▼	8278	EP8278	PCA	TIME DELAY	138- 49
8▼	8279	EP8279	PCA	TIME DELAY	138- 50
9♦	8280	DM8280J	NSC	DEC CNTR	175-108
10♦	8280	DM8280N	NSC	DEC CNTR	175-109
11♦	8280	*DM8280W	NSC	DEC CNTR	175-110
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13♦	8280	N8280F	MULB	DEC CNTR	173- 26
14♦	8280	N8280F	PHIN	DEC CNTR	173- 26
15♦	8280	N8280F	VALG	DEC CNTR	173- 26
16♦	8280	N8280N	MULB	DEC CNTR	173- 27
17♦	8280	N8280N	PHIN	DEC CNTR	173- 27
18♦	8280	N8280N	VALG	DEC CNTR	173- 27
19♦	8280	*N8280Q	MULB	DEC CNTR	174- 54
20♦	8280	*N8280Q	PHIN	DEC CNTR	174- 54
21♦	8280	S8280F	MULB	DEC CNTR	173- 31
22♦	8280	S8280F	PHIN	DEC CNTR	173- 31
23♦	8280	S8280F	SIC	DEC CNTR	173- 31
24♦	8280	S8280F	VALG	DEC CNTR	173- 31
25♦	8280	*S8280W	MULB	DEC CNTR	173- 32
26♦	8280	*S8280W	PHIN	DEC CNTR	173- 32
27♦	8280	*S8280W	SIC	DEC CNTR	173- 32
28♦	8280	*S8280W	VALG	DEC CNTR	173- 32
29♦	8281	DM8281J	NSC	HEX CNTR	158- 32
30♦	8281	DM8281N	NSC	HEX CNTR	158- 33
31♦	8281	*DM8281W	NSC	HEX CNTR	158- 34
32▼	8281	EP8281	PCA	TIME DELAY	138- 52
33♦	8281	N8281F	MULB	HEX CNTR	155- 3
34♦	8281	N8281F	PHIN	HEX CNTR	155- 3
35♦	8281	N8281F	VALG	HEX CNTR	155- 3
36♦	8281	N8281N	MULB	HEX CNTR	155- 4
37♦	8281	N8281N	PHIN	HEX CNTR	155- 4
38♦	8281	N8281N	VALG	HEX CNTR	155- 4
39♦	8281	*N8281Q	MULB	HEX CNTR	156- 89
40♦	8281	*N8281Q	PHIN	HEX CNTR	156- 89
41♦	8281	S8281F	MULB	HEX CNTR	155- 8
42♦	8281	S8281F	PHIN	HEX CNTR	155- 8
43♦	8281	S8281F	SIC	HEX CNTR	155- 8
44♦	8281	S8281F	VALG	HEX CNTR	155- 8
45♦	8281	*S8281W	MULB	HEX CNTR	155- 9
46♦	8281	*S8281W	PHIN	HEX CNTR	155- 9
47♦	8281	*S8281W	SIC	HEX CNTR	155- 9
48♦	8281	*S8281W	VALG	HEX CNTR	155- 9
49▼	8282	EP8282	PCA	TIME DELAY	138- 53
50▼	8282	IB8282	ITL	8-BIT LCH	238- 26
51▼	8282	IC8282	ITL	8-BIT LCH	238- 93
52▼	8282	ID8282	ITL	8-BIT LCH	238- 94
53▼	8282	IP8282	ITL	8-BIT LCH	238- 95
54♦	8282	M5L8282P	MITA	8-BIT LCH	238- 28
55♦	8282	M5L8282P	MITJ	8-BIT LCH	238- 28
56♦	8282	MBL8282	FMI	8-BIT LCH	233- 60
57▼	8282	P8282	ITL	8-BIT LCH	238- 29
58♦	8282	QC8282	ITL	8-BIT LCH	238- 31
59♦	8282	QD8282	ITL	8-BIT LCH	238- 32
60♦	8282	QP8282	ITL	8-BIT LCH	238- 33
61▼	8282	SAB8282A	SIEG	8-BIT LCH	238- 34
62▼	8282	SAB8282A	SIT	8-BIT LCH	238- 34
63♦	8282	TC8282	ITL	8-BIT LCH	238- 40
64♦	8282	TD8282	ITL	8-BIT LCH	238- 41
65♦	8282	TP8282	ITL	8-BIT LCH	238- 42
66▼	8282	UPB8282C	NECE	8-BIT LCH	237- 53
67▼	8282	UPB8282D	NECE	8-BIT LCH	238- 43
68▼	8283	EP8283	PCA	TIME DELAY	138- 54
69▼	8283	IC8283	ITL	8-BIT LCH	237- 69
70▼	8283	ID8283	ITL	8-BIT LCH	237- 70
71▼	8283	IP8283	ITL	8-BIT LCH	237- 71
72♦	8283	M5L8283P	MITA	8-BIT LCH	237- 45
73♦	8283	M5L8283P	MITJ	8-BIT LCH	237- 45
74♦	8283	MBL8283	FMI	8-BIT LCH	233- 61
75▼	8283	P8283	ITL	8-BIT LCH	238- 30
76♦	8283	QC8283	ITL	8-BIT LCH	237- 46
77♦	8283	QD8283	ITL	8-BIT LCH	237- 47
78♦	8283	QP8283	ITL	8-BIT LCH	237- 48
79♦	8283	SAB8283A	SIEG	8-BIT LCH	237- 49
80▼	8283	SAB8283A	SIT	8-BIT LCH	237- 49
81♦	8283	TC8283	ITL	8-BIT LCH	237- 50
82♦	8283	TD8283	ITL	8-BIT LCH	237- 51
83♦	8283	TP8283	ITL	8-BIT LCH	237- 52
84▼	8283	UPB8283C	NECE	8-BIT LCH	238- 44
85▼	8283	UPB8283D	NECE	8-BIT LCH	238- 45
86▼	8284	EP8284	PCA	TIME DELAY	138- 55
87♦	8284	N8284F	MULB	HEX CNTR	162- 79
88♦	8284	N8284F	PHIN	HEX CNTR	162- 79
89♦	8284	*N8284Q	MULB	HEX CNTR	159- 91
90♦	8284	*N8284Q	PHIN	HEX CNTR	159- 91
91▼	8285	EP8285	PCA	TIME DELAY	138- 56
92♦	8285	N8285F	MULB	DEC CNTR	179- 71
93♦	8285	N8285F	PHIN	DEC CNTR	179- 71
94♦	8285	*N8285Q	MULB	DEC CNTR	177- 45
95♦	8285	*N8285Q	PHIN	DEC CNTR	177- 45
96▼	8286	EP8286	PCA	TIME DELAY	138- 57
97▼	8287	EP8287	PCA	TIME DELAY	138- 58
98▼	8288	EP8288	PCA	TIME DELAY	138- 59
99♦	8288	N8288F	MULB	DEC CNTR	174- 55
100♦	8288	N8288F	PHIN	DEC CNTR	174- 55
101♦	8288	*N8288Q	MULB	DEC CNTR	174- 56
102♦	8288	*N8288Q	PHIN	DEC CNTR	174- 56
103▼	8289	EP8289	PCA	TIME DELAY	138- 60
104▼	8290	EP8290	PCA	TIME DELAY	138- 61
105♦	8290	N8290F	MULB	DEC CNTR	174- 11
106♦	8290	N8290F	PHIN	DEC CNTR	174- 11
107♦	8290	N8290F	VALG	DEC CNTR	174- 11
108♦	8290	N8290N	MULB	DEC CNTR	174- 12
109♦	8290	N8290N	PHIN	DEC CNTR	174- 12
110♦	8290	N8290N	VALG	DEC CNTR	174- 12
111♦	8290	*N8290Q	MULB	DEC CNTR	176- 21
112♦	8290	*N8290Q	PHIN	DEC CNTR	176- 21
113♦	8290	S8290F	MULB	DEC CNTR	174- 17
114♦	8290	S8290F	PHIN	DEC CNTR	174- 17
115♦	8290	S8290F	VALG	DEC CNTR	174- 17
116♦	8290	*S8290W	MULB	DEC CNTR	174- 18
117♦	8290	*S8290W	PHIN	DEC CNTR	174- 18
118♦	8290	*S8290W	VALG	DEC CNTR	174- 18
119▼	8291	EP8291	PCA	TIME DELAY	138- 62
120♦	8291	N8291F	MULB	HEX CNTR	156- 26
121♦	8291	N8291F	PHIN	HEX CNTR	156- 26
122♦	8291	N8291F	VALG	HEX CNTR	156- 26
123♦	8291	N8291N	MULB	HEX CNTR	156- 27
124♦	8291	N8291N	PHIN	HEX CNTR	156- 27
125♦	8291	N8291N	VALG	HEX CNTR	156- 27
126♦	8291	*N8291Q	MULB	HEX CNTR	158- 61
127♦	8291	*N8291Q	PHIN	HEX CNTR	158- 61
128♦	8291	S8291F	MULB	HEX CNTR	156- 32
129♦	8291	S8291F	PHIN	HEX CNTR	156- 32
130♦	8291	S8291F	VALG	HEX CNTR	156- 32
131♦	8291	*S8291W	MULB	HEX CNTR	156- 33
132♦	8291	*S8291W	PHIN	HEX CNTR	156- 33
133♦	8291	*S8291W	VALG	HEX CNTR	156- 33
134▼	8292	EP8292	PCA	TIME DELAY	138- 63
135♦	8292	N8292F	MULB	DEC CNTR	172- 75
136♦	8292	N8292F	PHIN	DEC CNTR	172- 75
137♦	8292	N8292F	VALG	DEC CNTR	172- 75
138♦	8292	N8292N	MULB	DEC CNTR	172- 76
139♦	8292	N8292N	PHIN	DEC CNTR	172- 76
140♦	8292	N8292N	VALG	DEC CNTR	172- 76
141♦	8292	*N8292Q	MULB	DEC CNTR	173- 28
142♦	8292	*N8292Q	PHIN	DEC CNTR	173- 28
143♦	8292	S8292F	MULB	DEC CNTR	172- 77
144♦	8292	S8292F	PHIN	DEC CNTR	172- 77
145♦	8292	S8292F	VALG	DEC CNTR	172- 77
146♦	8292	*S8292W	MULB	DEC CNTR	172- 78
147♦	8292	*S8292W	PHIN	DEC CNTR	172- 78
148♦	8292	*S8292W	VALG	DEC CNTR	172- 78
149♦	8293	N8293F	MULB	HEX CNTR	154- 53
150♦	8293	N8293F	PHIN	HEX CNTR	154- 53
151♦	8293	N8293F	VALG	HEX CNTR	154- 53
152♦	8293	N8293N	MULB	HEX CNTR	154- 54
153♦	8293	N8293N	PHIN	HEX CNTR	154- 54
154♦	8293	N8293N	VALG	HEX CNTR	154- 54
155♦	8293	*N8293Q	MULB	HEX CNTR	155- 5
156♦	8293	*N8293Q	PHIN	HEX CNTR	155- 5
157♦	8293	S8293F	MULB	HEX CNTR	154- 55
158♦	8293	S8293F	PHIN	HEX CNTR	154- 55
159♦	8293	S8293F	VALG	HEX CNTR	154- 55
160♦	8293	*S8293W	MULB	HEX CNTR	154- 56
161♦	8293	*S8293W	PHIN	HEX CNTR	154- 56
162♦	8293	*S8293W	VALG	HEX CNTR	154- 56
163♦	8310	DM8310N	NSC	DEC CNTR	175- 38
164♦	8316	DM8316N	NSC	DEC CNTR	175- 39
165♦	8334	DM8334J	NSC	8-BIT LCH	238- 85
166♦	8334	DM8334N	NSC	8-BIT LCH	238- 86
167	8334	*DM8334W	NSC	8-BIT LCH	238- 87
168♦	8340	DP8340J(2)	NSC	SPECIAL	246- 27
169♦	8340	DP8340N(2)	NSC	SPECIAL	246- 28
170♦	8415	N8415A	MULB	NAND GATE	105- 21
171♦	8415	N8415A	PHIN	NAND GATE	105- 21
172♦	8415	N8415F	MULB	NAND GATE	105- 22
173♦	8415	N8415F	PHIN	NAND GATE	105- 22
174♦	8415	*N8415J	MULB	NAND GATE	108- 30
175♦	8415	*N8415J	PHIN	NAND GATE	108- 30
176♦	8415	S8415A	MULB	NAND GATE	105- 33
177♦	8415	S8415A	PHIN	NAND GATE	105- 33
178♦	8415	S8415F	MULB	NAND GATE	105- 34
179♦	8415	S8415F	PHIN	NAND GATE	105- 34
180♦	8415	*S8415J	PHIN	NAND GATE	108- 34
181♦	8416	N8416A	MULB	NAND GATE	105- 23
182♦	8416	N8416A	PHIN	NAND GATE	105- 23
183♦	8416	N8416F	MULB	NAND GATE	105- 24
184♦	8416	N8416F	PHIN	NAND GATE	105- 24
185♦	8416	*N8416J	MULB	NAND GATE	105- 25
186♦	8416	*N8416J	PHIN	NAND GATE	105- 25
187♦	8416	S8416A	MULB	NAND GATE	105- 35
188♦	8416	S8416A	PHIN	NAND GATE	105- 35
189♦	8416	S8416F	MULB	NAND GATE	105- 36
190♦	8416	S8416F	PHIN	NAND GATE	105- 36
191♦	8416	*S8416J	MULB	NAND GATE	105- 37
192♦	8416	*S8416J	PHIN	NAND GATE	105- 37
193♦	8417	N8417A	MULB	NAND GATE	108- 31
194♦	8417	N8417A	PHIN	NAND GATE	108- 31
195♦	8417	N8417F	MULB	NAND GATE	108- 32
196♦	8417	N8417F	PHIN	NAND GATE	108- 32
197♦	8417	*N8417J	MULB	NAND GATE	108- 33
198♦	8417	*N8417J	PHIN	NAND GATE	108- 33
199♦	8417	S8417A	MULB	NAND GATE	108- 35
200♦	8417	S8417A	PHIN	NAND GATE	108- 35
201♦	8417	S8417F	MULB	NAND GATE	108- 36
202♦	8417	S8417F	PHIN	NAND GATE	108- 36
203♦	8417	*S8417J	MULB	NAND GATE	108- 37
204♦	8417	*S8417J	PHIN	NAND GATE	108- 37
205♦	8424	N8424A	MULB	RST F-FLOP	75- 60
206♦	8424	N8424A	PHIN	RST F-FLOP	75- 60
207♦	8424	N8424F	MULB	RST F-FLOP	75- 61
208♦	8424	N8424F	PHIN	RST F-FLOP	75- 61
209♦	8424	*N8424J	MULB	RST F-FLOP	75- 62
210♦	8424	*N8424J	PHIN	RST F-FLOP	75- 62
211♦	8424	S8424A	MULB	RST F-FLOP	75- 66
212♦	8424	S8424A	PHIN	RST F-FLOP	75- 66
213♦	8424	S8424F	MULB	RST F-FLOP	75- 67
214♦	8424	S8424F	PHIN	RST F-FLOP	75- 67
215♦	8424	*S8424J	MULB	RST F-FLOP	75- 68
216♦	8424	*S8424J	PHIN	RST F-FLOP	75- 68
217♦	8425	N8425A	MULB	RST F-FLOP	75- 63
218♦	8425	N8425A	PHIN	RST F-FLOP	75- 63
219♦	8425	N8425F	MULB	RST F-FLOP	75- 64
220♦	8425	N8425F	PHIN	RST F-FLOP	75- 64

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4♦	8425	S8425A	PHIN	RST F-FLOP	75- 69
5♦	8425	S8425F	MULB	RST F-FLOP	75- 70
6♦	8425	S8425F	PHIN	RST F-FLOP	75- 70
7♦	8425	*S8425J	MULB	RST F-FLOP	75- 71
8♦	8425	*S8425J	PHIN	RST F-FLOP	75- 71
9♦	8440	N8440A	MULB	EX-OR GATE	94- 54
10♦	8440	N8440A	PHIN	EX-OR GATE	94- 54
11♦	8440	N8440F	MULB	EX-OR GATE	94- 55
12♦	8440	N8440F	PHIN	EX-OR GATE	94- 55
13♦	8440	*N8440J	MULB	EX-OR GATE	94- 56
14♦	8440	*N8440J	PHIN	EX-OR GATE	94- 56
15♦	8440	S8440A	MULB	EX-OR GATE	94- 57
16♦	8440	S8440A	PHIN	EX-OR GATE	94- 57
17♦	8440	S8440F	MULB	EX-OR GATE	94- 58
18♦	8440	S8440F	PHIN	EX-OR GATE	94- 58
19♦	8440	*S8440J	MULB	EX-OR GATE	94- 59
20♦	8440	*S8440J	PHIN	EX-OR GATE	94- 59
21♦	8455	N8455A	MULB	NAND GATE	107-107
22♦	8455	N8455A	PHIN	NAND GATE	107-107
23♦	8455	N8455F	MULB	NAND GATE	107-108
24♦	8455	N8455F	PHIN	NAND GATE	107-108
25♦	8455	*N8455J	MULB	NAND GATE	107-109
26♦	8455	*N8455J	PHIN	NAND GATE	107-109
27♦	8455	S8455A	MULB	NAND GATE	107-110
28♦	8455	S8455A	PHIN	NAND GATE	107-110
29♦	8455	S8455F	MULB	NAND GATE	108- 1
30♦	8455	S8455F	PHIN	NAND GATE	108- 1
31♦	8455	*S8455J	MULB	NAND GATE	108- 2
32♦	8455	*S8455J	PHIN	NAND GATE	108- 2
33♦	8470	N8470A	MULB	NAND GATE	101-102
34♦	8470	N8470A	PHIN	NAND GATE	101-102
35♦	8470	N8470F	MULB	NAND GATE	101-103
36♦	8470	N8470F	PHIN	NAND GATE	101-103
37♦	8470	*N8470J	MULB	NAND GATE	103-101
38♦	8470	*N8470J	PHIN	NAND GATE	103-101
39♦	8470	S8470A	MULB	NAND GATE	102- 5
40♦	8470	S8470A	PHIN	NAND GATE	102- 5
41♦	8470	S8470F	MULB	NAND GATE	102- 6
42♦	8470	S8470F	PHIN	NAND GATE	102- 6
43♦	8470	*S8470J	MULB	NAND GATE	103-102
44♦	8470	*S8470J	PHIN	NAND GATE	103-102
45♦	8471	N8471A	MULB	NAND GATE	101-104
46♦	8471	N8471A	PHIN	NAND GATE	101-104
47♦	8471	*N8471J	MULB	NAND GATE	104- 18
48♦	8471	*N8471J	PHIN	NAND GATE	104- 18
49♦	8471	S8471A	MULB	NAND GATE	102- 7
50♦	8471	S8471A	PHIN	NAND GATE	102- 7
51♦	8471	*S8471J	MULB	NAND GATE	104- 19
52♦	8471	*S8471J	PHIN	NAND GATE	104- 19
53♦	8480	N8480A	MULB	NAND GATE	97- 8
54♦	8480	N8480A	PHIN	NAND GATE	97- 8
55♦	8480	N8480F	MULB	NAND GATE	97- 9
56♦	8480	N8480F	PHIN	NAND GATE	97- 9
57♦	8480	*N8480J	MULB	NAND GATE	100- 96
58♦	8480	*N8480J	PHIN	NAND GATE	100- 96
59♦	8480	S8480A	MULB	NAND GATE	97- 31
60♦	8480	S8480A	PHIN	NAND GATE	97- 31
61♦	8480	S8480F	MULB	NAND GATE	97- 32
62♦	8480	S8480F	PHIN	NAND GATE	97- 32
63♦	8480	*S8480J	MULB	NAND GATE	100- 97
64♦	8480	*S8480J	PHIN	NAND GATE	100- 97
65♦	8481	N8481A	MULB	NAND GATE	97- 10
66♦	8481	N8481A	PHIN	NAND GATE	97- 10
67♦	8481	N8481F	MULB	NAND GATE	97- 11
68♦	8481	N8481F	PHIN	NAND GATE	97- 11
69♦	8481	*N8481J	MULB	NAND GATE	101- 4
70♦	8481	*N8481J	PHIN	NAND GATE	101- 4
71♦	8481	S8481A	MULB	NAND GATE	97- 33
72♦	8481	S8481A	PHIN	NAND GATE	97- 33
73♦	8481	S8481F	MULB	NAND GATE	97- 34
74♦	8481	S8481F	PHIN	NAND GATE	97- 34
75♦	8481	*S8481J	MULB	NAND GATE	101- 5
76♦	8481	*S8481J	PHIN	NAND GATE	101- 5
77♦	8500	MC8500L	MOTA	SPECIAL	245- 7
78♦	8500	MC8500P	MOTA	SPECIAL	245- 8
79♦	8501	MC8501L	MOTA	SPECIAL	245- 9
80♦	8501	MC8501P	MOTA	SPECIAL	245- 10
81♦	8502	MC8502L	MOTA	SPECIAL	245- 11
82♦	8502	MC8502P	MOTA	SPECIAL	245- 27
83♦	8503	MC8503L	MOTA	SPECIAL	246- 38
84♦	8503	MC8503P	MOTA	SPECIAL	246- 93
85♦	8504	MC8504P	MOTA	SPECIAL	246- 94
86♦	8506	MC8506L	MOTA	SPECIAL	246- 39
87♦	8506	MC8506P	MOTA	SPECIAL	246- 40
88♦	8511	DM8511J	NSC	D FL-FLOP	52- 46
89♦	8511	DM8511N	NSC	D FL-FLOP	52- 47
90	8511	*DM8511W	NSC	D FL-FLOP	52- 48
91♦	8512	DM8512N	NSC	JK FL-FLOP	65- 98
92	8512	*DM8512W	NSC	JK FL-FLOP	65- 99
93▼	8520	DM8520N	NSC	FREQ DIVID	196- 44
94♦	8552	DM8552J	NSC	DEC CNTR	174- 27
95♦	8552	DM8552N	NSC	DEC CNTR	174- 28
96♦	8552	*DM8552W	NSC	DEC CNTR	174- 29
97♦	8553	DM8553J	NSC	8-BIT LCH	244- 70
98♦	8553	DM8553N	NSC	8-BIT LCH	244- 71
99	8553	*DM8553W	NSC	8-BIT LCH	244- 72
100♦	8554	DM8554J	NSC	HEX CNTR	156- 57
101♦	8554	DM8554N	NSC	HEX CNTR	156- 58
102♦	8554	*DM8554W	NSC	HEX CNTR	156- 59
103♦	8555	DM8555N	NSC	DEC CNTR	176- 8
104♦	8556	DM8556N	NSC	MOD-N CNTR	185- 34
105♦	8560	DM8560J	NSC	DEC CNTR	179- 61
106♦	8560	DM8560N	NSC	DEC CNTR	179- 62
107♦	8563	DM8563J	NSC	HEX CNTR	162- 71
108♦	8563	DM8563N	NSC	HEX CNTR	162- 72
109♦	8600	SP8600A	PLSB	FREQ DIVID	194- 88
110♦	8600	SP8600B	PLSB	FREQ DIVID	194- 89
111♦	8601	DM8601J	NSC	CLOCK/MV	188- 54
112♦	8601	DM8601N	NSC	CLOCK/MV	188- 55
113	8601	*DM8601W	NSC	CLOCK/MV	188- 56
114♦	8601	SP8601A	PLSB	FREQ DIVID	194- 78
115♦	8601	SP8601B	PLSB	FREQ DIVID	194- 79
116♦	8602	DM8602J	NSC	CLOCK/MV	189-100
117♦	8602	DM8602N	NSC	CLOCK/MV	189-101
118	8602	*DM8602W	NSC	CLOCK/MV	189-102
119♦	8602	SP8602A	PLSB	FREQ DIVID	194- 97
120♦	8602	SP8602B	PLSB	FREQ DIVID	194- 98
121♦	8604	SP8604A	PLSB	FREQ DIVID	194- 91
122♦	8604	SP8604B	PLSB	FREQ DIVID	194- 92
123♦	8605	SP8605A	PLSB	FREQ DIVID	195- 8
124♦	8605	SP8605B	PLSB	FREQ DIVID	195- 9
125♦	8606	SP8606A	PLSB	FREQ DIVID	195- 37
126♦	8606	SP8606B	PLSB	FREQ DIVID	195- 38
127♦	8607	SP8607A	PLSB	FREQ DIVID	194-105
128♦	8607	SP8607B	PLSB	FREQ DIVID	194-106
129♦	8610	SP8610A	PLSB	FREQ DIVID	195- 15
130♦	8610	SP8610B	PLSB	FREQ DIVID	195- 16
131♦	8611	SP8611A	PLSB	FREQ DIVID	195- 39
132♦	8611	SP8611B	PLSB	FREQ DIVID	195- 52
133♦	8612	SP8612BDC	PLSB	FREQ DIVID	195- 61
134♦	8612	SP8612BDG	PLSB	FREQ DIVID	195- 62
135♦	8613	DM8613N(1)	NSC	D FL-FLOP	54- 98
136♦	8614	DS8614N	NSC	FREQ DIVID	196- 78
137♦	8615	DS8615N(A)	NSC	FREQ DIVID	196- 81
138♦	8616	DS8616N(A)	NSC	FREQ DIVID	196- 84
139♦	8617	DS8617N(A)	NSC	FREQ DIVID	196- 88
140♦	8617	SP8617BDC	PLSB	FREQ DIVID	195- 40
141♦	8617	SP8617BDG	PLSB	FREQ DIVID	195- 41
142♦	8617	SP8617MDC	PLSB	FREQ DIVID	195- 42
143♦	8617	SP8617MDG	PLSB	FREQ DIVID	195- 43
144♦	8619	SP8619BDC	PLSB	FREQ DIVID	195- 53
145♦	8619	SP8619BDG	PLSB	FREQ DIVID	195- 54
146♦	8619	SP8619MDC	PLSB	FREQ DIVID	195- 55
147♦	8619	SP8619MDG	PLSB	FREQ DIVID	195- 56
148♦	8620	SP8620A	PLSB	FREQ DIVID	194- 93
149♦	8620	SP8620B	PLSB	FREQ DIVID	194- 94
150♦	8626	DS8626N	NSC	FREQ DIVID	194- 76
151♦	8629	DS8629N	NSC	FREQ DIVID	194- 77
152♦	8629	SP8629	PLSB	FREQ DIVID	194- 82
153♦	8630	SP8630A	PLSB	FREQ DIVID	194-110
154♦	8630	SP8630B	PLSB	FREQ DIVID	195- 1
155♦	8634	SP8634B	PLSB	FREQ DIVID	195- 5
156♦	8635	SP8635B	PLSB	FREQ DIVID	195- 2
157♦	8637	SP8637B	PLSB	FREQ DIVID	194- 95
158♦	8643	SP8643A	PLSB	FREQ DIVID	196-102
159♦	8647	SP8647ADG	PLSB	FREQ DIVID	196- 92
160♦	8647	SP8647ADP	PLSB	FREQ DIVID	196- 93
161♦	8647	SP8647BDG	PLSB	FREQ DIVID	196- 94
162♦	8647	SP8647BDP	PLSB	FREQ DIVID	196- 95
163♦	8650	SP8650A	PLSB	FREQ DIVID	195- 3
164♦	8650	SP8650B	PLSB	FREQ DIVID	195- 4
165♦	8655	SP8655A	PLSB	FREQ DIVID	194- 74
166♦	8655	SP8655B	PLSB	FREQ DIVID	194- 75
167♦	8657	SP8657A	PLSB	FREQ DIVID	194- 72
168♦	8657	SP8657B	PLSB	FREQ DIVID	194- 73
169♦	8658	SP8658	PLSB	FREQ DIVID	194- 86
170♦	8659	SP8659A	PLSB	FREQ DIVID	194- 70
171♦	8659	SP8659B	PLSB	FREQ DIVID	194- 71
172♦	8660	SP8660	PLSB	FREQ DIVID	194- 80
173♦	8660	SP8660A	PLSB	FREQ DIVID	194- 83
174♦	8660	SP8660B	PLSB	FREQ DIVID	194- 84
175♦	8660	SP8660C(A)	PLSB	FREQ DIVID	194- 81
176♦	8665	SP8665B	PLSB	FREQ DIVID	195- 18
177♦	8668	SP8668B	PLSB	FREQ DIVID	195- 58
178♦	8670	SP8670A	PLSB	FREQ DIVID	194-107
179♦	8670	SP8670B	PLSB	FREQ DIVID	194-108
180♦	8675	SP8675B	PLSB	FREQ DIVID	195- 17
181♦	8678	SP8678B	PLSB	FREQ DIVID	195- 57
182♦	8680	8680	RSCB	FREQ DIVID	197- 8
183♦	8680	SP8680A	PLSB	FREQ DIVID	197- 4
184♦	8680	SP8680B	PLSB	FREQ DIVID	197- 5
185♦	8685	SP8685A	PLSB	FREQ DIVID	196-105
186♦	8685	SP8685B	PLSB	FREQ DIVID	196-106
187♦	8690	SP8690A	PLSB	FREQ DIVID	196- 69
188♦	8690	SP8690B	PLSB	FREQ DIVID	196- 70
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190♦	8691	SP8691B	PLSB	FREQ DIVID	196- 68
191♦	8695	SP8695A	PLSB	FREQ DIVID	196- 71
192♦	8695	SP8695B	PLSB	FREQ DIVID	196- 72
193♦	8703	SP8703	PLSB	FREQ DIVID	197- 17
194♦	8712	SP8712B	PLSB	FREQ DIVID	195- 66
195♦	8716	SP8716	PLSB	FREQ DIVID	196-108
196♦	8718	SP8718	PLSB	FREQ DIVID	196-109
197♦	8719	SP8719	PLSB	FREQ DIVID	196-110
198♦	8720	SP8720A	PLSB	FREQ DIVID	196- 96
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200♦	8731	N8731A	MULB	AND GATE	76- 78
201♦	8731	N8731A	PHIN	AND GATE	76- 78
202♦	8731	N8731F	MULB	AND GATE	76- 79
203♦	8731	N8731F	PHIN	AND GATE	76- 79
204♦	8731	*N8731J	MULB	AND GATE	76- 80
205♦	8731	*N8731J	PHIN	AND GATE	76- 80
206♦	8731	S8731A	MULB	AND GATE	76- 92
207♦	8731	S8731A	PHIN	AND GATE	76- 92
208♦	8731	S8731F	MULB	AND GATE	76- 93
209♦	8731	S8731F	PHIN	AND GATE	76- 93
210♦	8731	*S8731J	MULB	AND GATE	76- 94
211♦	8731	*S8731J	PHIN	AND GATE	76- 94
212♦	8735	SP8735B	PLSB	FREQ DIVID	194-109
213♦	8740	SP8740A	PLSB	FREQ DIVID	196- 98
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19♦	8806	N8806F	PHIN	AND GATE	81- 73
20♦	8806	*N8806J	MULB	AND GATE	81- 74
21♦	8806	*N8806J	PHIN	AND GATE	81- 74
22♦	8806	S8806A	MULB	AND GATE	81- 79
23♦	8806	S8806A	PHIN	AND GATE	81- 79
24♦	8806	S8806F	MULB	AND GATE	81- 80
25♦	8806	S8806F	PHIN	AND GATE	81- 80
26♦	8806	*S8806J	MULB	AND GATE	81- 81
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28♦	8808	N8808A	MULB	NAND GATE	109- 84
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30♦	8808	*N8808J	MULB	NAND GATE	109- 85
31♦	8808	*N8808J	PHIN	NAND GATE	109- 85
32♦	8808	S8808A	MULB	NAND GATE	109- 86
33♦	8808	S8808A	PHIN	NAND GATE	109- 86
34♦	8808	*S8808J	MULB	NAND GATE	109- 87
35♦	8808	*S8808J	PHIN	NAND GATE	109- 87
36♦	8810	DM8810N	NSC	NAND GATE	96- 17
37♦	8811	DM8811N	NSC	NAND GATE	96- 18
38♦	8815	N8815A	MULB	NOR GATE	117- 97
39♦	8815	N8815A	PHIN	NOR GATE	117- 97
40♦	8815	*N8815N	MULB	NOR GATE	117- 98
41♦	8815	*N8815N	PHIN	NOR GATE	117- 98
42♦	8815	*N8815N	SIC	NOR GATE	117- 98
43♦	8815	S8815A	MULB	NOR GATE	117-101
44♦	8815	S8815A	PHIN	NOR GATE	117-101
45♦	8815	*S8815J	MULB	NOR GATE	117-106
46♦	8815	*S8815J	PHIN	NOR GATE	117-106
47♦	8816	N8816A	MULB	NAND GATE	106- 69
48♦	8816	N8816A	PHIN	NAND GATE	106- 69
49♦	8816	N8816F	MULB	NAND GATE	106- 70
50♦	8816	N8816F	PHIN	NAND GATE	106- 70
51♦	8816	*N8816J	MULB	NAND GATE	106- 71
52♦	8816	*N8816J	PHIN	NAND GATE	106- 71
53♦	8816	S8816A	MULB	NAND GATE	106- 72
54♦	8816	S8816A	PHIN	NAND GATE	106- 72
55♦	8816	S8816F	MULB	NAND GATE	106- 73
56♦	8816	S8816F	PHIN	NAND GATE	106- 73
57♦	8816	*S8816J	MULB	NAND GATE	106- 74
58♦	8816	*S8816J	PHIN	NAND GATE	106- 74
59♦	8819	DM8819J	NSC	AND GATE	77- 71
60♦	8819	DM8819N	NSC	AND GATE	77- 72
61♦	8819	*DM8819W	NSC	AND GATE	77- 73
62♦	8819	DS8819J(2)	NSC	AND GATE	78- 12
63♦	8819	DS8819N(2)	NSC	AND GATE	78- 13
64♦	8821	*N8821J	MULB	JK FL-FLOP	69- 75
65♦	8821	*N8821J	PHIN	JK FL-FLOP	69- 75
66♦	8821	*S8821J	MULB	JK FL-FLOP	69- 91
67♦	8821	*S8821J	PHIN	JK FL-FLOP	69- 91
68♦	8822	N8822A	MULB	JK FL-FLOP	69- 76
69♦	8822	N8822A	PHIN	JK FL-FLOP	69- 76
70♦	8822	N8822F	MULB	JK FL-FLOP	69- 77
71♦	8822	N8822F	PHIN	JK FL-FLOP	69- 77
72♦	8822	*N8822J	MULB	JK FL-FLOP	69- 78
73♦	8822	*N8822J	PHIN	JK FL-FLOP	69- 78
74♦	8822	S8822A	MULB	JK FL-FLOP	69- 92
75♦	8822	S8822A	PHIN	JK FL-FLOP	69- 92
76♦	8822	S8822F	MULB	JK FL-FLOP	69- 93
77♦	8822	S8822F	PHIN	JK FL-FLOP	69- 93
78♦	8822	*S8822J	MULB	JK FL-FLOP	69- 94
79♦	8822	*S8822J	PHIN	JK FL-FLOP	69- 94
80♦	8824	N8824B	MULB	JK FL-FLOP	69- 79
81♦	8824	N8824B	PHIN	JK FL-FLOP	69- 79
82♦	8824	S8824B	MULB	JK FL-FLOP	69- 95
83♦	8824	S8824B	PHIN	JK FL-FLOP	69- 95
84♦	8825	N8825A	MULB	JK FL-FLOP	65- 75
85♦	8825	N8825A	PHIN	JK FL-FLOP	65- 75
86♦	8825	N8825F	MULB	JK FL-FLOP	65- 76
87♦	8825	N8825F	PHIN	JK FL-FLOP	65- 76
88♦	8825	*N8825J	MULB	JK FL-FLOP	65- 77
89♦	8825	*N8825J	PHIN	JK FL-FLOP	65- 77
90♦	8825	S8825A	MULB	JK FL-FLOP	65- 85
91♦	8825	S8825A	PHIN	JK FL-FLOP	65- 85
92♦	8825	S8825F	MULB	JK FL-FLOP	65- 86
93♦	8825	S8825F	PHIN	JK FL-FLOP	65- 86
94♦	8825	*S8825J	MULB	JK FL-FLOP	65- 87
95♦	8825	*S8825J	PHIN	JK FL-FLOP	65- 87
96♦	8826	N8826A	MULB	JK FL-FLOP	70- 98
97♦	8826	N8826A	PHIN	JK FL-FLOP	70- 98
98♦	8826	N8826F	MULB	JK FL-FLOP	70- 99
99♦	8826	N8826F	PHIN	JK FL-FLOP	70- 99
100♦	8826	*N8826J	MULB	JK FL-FLOP	70-100
101♦	8826	*N8826J	PHIN	JK FL-FLOP	70-100
102♦	8826	S8826A	MULB	JK FL-FLOP	71- 10
103♦	8826	S8826A	PHIN	JK FL-FLOP	71- 10
104♦	8826	S8826F	MULB	JK FL-FLOP	71- 11
105♦	8826	S8826F	PHIN	JK FL-FLOP	71- 11
106♦	8826	*S8826J	MULB	JK FL-FLOP	71- 12
107♦	8826	*S8826J	PHIN	JK FL-FLOP	71- 12
108♦	8827	N8827A	MULB	JK FL-FLOP	70-101
109♦	8827	N8827A	PHIN	JK FL-FLOP	70-101
110♦	8827	N8827F	MULB	JK FL-FLOP	70-102
111♦	8827	N8827F	PHIN	JK FL-FLOP	70-102
112♦	8827	*N8827J	MULB	JK FL-FLOP	70-103
113♦	8827	*N8827J	PHIN	JK FL-FLOP	70-103
114♦	8827	S8827A	MULB	JK FL-FLOP	71- 13
115♦	8827	S8827A	PHIN	JK FL-FLOP	71- 13
116♦	8827	S8827F	MULB	JK FL-FLOP	71- 14
117♦	8827	S8827F	PHIN	JK FL-FLOP	71- 14
118♦	8827	*S8827J	MULB	JK FL-FLOP	71- 15
119♦	8827	*S8827J	PHIN	JK FL-FLOP	71- 15
120♦	8828	N8828A	MULB	D FL-FLOP	51- 70
121♦	8828	N8828A	PHIN	D FL-FLOP	51- 70
122♦	8828	N8828F	MULB	D FL-FLOP	51- 71
123♦	8828	N8828F	PHIN	D FL-FLOP	51- 71
124♦	8828	*N8828J	MULB	D FL-FLOP	51- 72
125♦	8828	*N8828J	PHIN	D FL-FLOP	51- 72
126♦	8828	S8828A	MULB	D FL-FLOP	51- 78
127♦	8828	S8828A	PHIN	D FL-FLOP	51- 78
128♦	8828	S8828F	MULB	D FL-FLOP	51- 79
129♦	8828	S8828F	PHIN	D FL-FLOP	51- 79
130♦	8828	*S8828J	MULB	D FL-FLOP	51- 80
131♦	8828	*S8828J	PHIN	D FL-FLOP	51- 80
132♦	8829	N8829A	MULB	JK FL-FLOP	65- 78
133♦	8829	N8829A	PHIN	JK FL-FLOP	65- 78
134♦	8829	N8829F	MULB	JK FL-FLOP	65- 79
135♦	8829	N8829F	PHIN	JK FL-FLOP	65- 79
136♦	8829	*N8829J	MULB	JK FL-FLOP	65- 80
137♦	8829	*N8829J	PHIN	JK FL-FLOP	65- 80
138♦	8829	S8829A	MULB	JK FL-FLOP	65- 88
139♦	8829	S8829A	PHIN	JK FL-FLOP	65- 88
140♦	8829	S8829F	MULB	JK FL-FLOP	65- 89
141♦	8829	S8829F	PHIN	JK FL-FLOP	65- 89
142♦	8829	*S8829J	MULB	JK FL-FLOP	65- 90
143♦	8829	*S8829J	PHIN	JK FL-FLOP	65- 90
144♦	8840	N8840A	MULB	AND-OR-INV	86- 11
145♦	8840	N8840A	PHIN	AND-OR-INV	86- 11
146♦	8840	N8840F	MULB	AND-OR-INV	86- 12
147♦	8840	N8840F	PHIN	AND-OR-INV	86- 12
148♦	8840	*N8840J	MULB	AND-OR-INV	86- 13
149♦	8840	*N8840J	PHIN	AND-OR-INV	86- 13
150♦	8840	S8840A	MULB	AND-OR-INV	86- 48
151♦	8840	S8840A	PHIN	AND-OR-INV	86- 48
152♦	8840	S8840F	MULB	AND-OR-INV	86- 49
153♦	8840	S8840F	PHIN	AND-OR-INV	86- 49
154♦	8840	*S8840J	MULB	AND-OR-INV	86- 50
155♦	8840	*S8840J	PHIN	AND-OR-INV	86- 50
156♦	8848	N8848A	MULB	AND-OR-INV	87- 73
157♦	8848	N8848A	PHIN	AND-OR-INV	87- 73
158♦	8848	N8848F	MULB	AND-OR-INV	87- 74
159♦	8848	N8848F	PHIN	AND-OR-INV	87- 74
160♦	8848	*N8848J	MULB	AND-OR-INV	87- 41
161♦	8848	*N8848J	PHIN	AND-OR-INV	87- 41
162♦	8848	S8848A	MULB	AND-OR-INV	87- 75
163♦	8848	S8848A	PHIN	AND-OR-INV	87- 75
164♦	8848	S8848F	MULB	AND-OR-INV	87- 76
165♦	8848	S8848F	PHIN	AND-OR-INV	87- 76
166♦	8848	*S8848J	MULB	AND-OR-INV	87- 60
167♦	8848	*S8848J	PHIN	AND-OR-INV	87- 60
168♦	8853	DM8853J	NSC	CLOCK/MV	189-103
169♦	8853	DM8853N	NSC	CLOCK/MV	189-104
170	8853	*DM8853W	NSC	CLOCK/MV	189-105
171♦	8855	N8855A	MULB	NAND GATE	106- 88
172♦	8855	N8855A	PHIN	NAND GATE	106- 88
173♦	8855	N8855F	MULB	NAND GATE	106- 89
174♦	8855	N8855F	PHIN	NAND GATE	106- 89
175♦	8855	*N8855J	MULB	NAND GATE	106- 90
176♦	8855	*N8855J	PHIN	NAND GATE	106- 90
177♦	8855	S8855A	MULB	NAND GATE	106- 95
178♦	8855	S8855A	PHIN	NAND GATE	106- 95
179♦	8855	S8855F	MULB	NAND GATE	106- 96
180♦	8855	S8855F	PHIN	NAND GATE	106- 96
181♦	8855	*S8855J	MULB	NAND GATE	106- 97
182♦	8855	*S8855J	PHIN	NAND GATE	106- 97
183♦	8870	N8870A	MULB	NAND GATE	101-105
184♦	8870	N8870A	PHIN	NAND GATE	101-105
185♦	8870	N8870F	MULB	NAND GATE	101-106
186♦	8870	N8870F	PHIN	NAND GATE	101-106
187♦	8870	*N8870J	MULB	NAND GATE	102- 93
188♦	8870	*N8870J	PHIN	NAND GATE	102- 93
189♦	8870	S8870A	MULB	NAND GATE	102- 8
190♦	8870	S8870A	PHIN	NAND GATE	102- 8
191♦	8870	S8870F	MULB	NAND GATE	102- 9
192♦	8870	S8870F	PHIN	NAND GATE	102- 9
193♦	8870	*S8870J	MULB	NAND GATE	102- 94
194♦	8870	*S8870J	PHIN	NAND GATE	102- 94
195♦	8875	DM8875AJ,BJ	NSC	MULTIPLIER	202- 51
196♦	8875	DM8875AN	NSC	MULTIPLIER	202- 52
197♦	8875	DM8875AN,BN	NSC	MULTIPLIER	202- 53
198♦	8875	DM8875BN	NSC	MULTIPLIER	202- 54
199♦	8875	N8875A	MULB	NOR GATE	115- 93
200♦	8875	N8875A	PHIN	NOR GATE	115- 93
201♦	8875	N8875F	MULB	NOR GATE	115- 94
202♦	8875	N8875F	PHIN	NOR GATE	115- 94
203♦	8875	*N8875J	MULB	NOR GATE	116- 11
204♦	8875	*N8875J	PHIN	NOR GATE	116- 11
205♦	8875	S8875A	MULB	NOR GATE	115-103
206♦	8875	S8875A	PHIN	NOR GATE	115-103
207♦	8875	S8875F	MULB	NOR GATE	115-104
208♦	8875	S8875F	PHIN	NOR GATE	115-104
209♦	8875	*S8875J	MULB	NOR GATE	116- 12
210♦	8875	*S8875J	PHIN	NOR GATE	116- 12
211♦	8880	N8880A	MULB	NAND GATE	98- 65
212♦	8880	N8880A	PHIN	NAND GATE	98- 65
213♦	8880	N8880F	MULB	NAND GATE	98- 66
214♦	8880	N8880F	PHIN	NAND GATE	98- 66
215♦	8880	*N8880J	MULB	NAND GATE	98- 67
216♦	8880	*N8880J	PHIN	NAND GATE	98- 67
217♦	8880	S8880A	MULB	NAND GATE	98- 68
218♦	8880	S8880A	PHIN	NAND GATE	98- 68
219♦	8880	S8880F	MULB	NAND GATE	98- 69
220♦	8880	S8880F	PHIN	NAND GATE	98- 69

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2♦	8880	*S8880J	PHIN	NAND GATE	98- 70
3♦	8881	N8881F	MULB	NAND GATE	99- 23
4♦	8881	N8881F	PHIN	NAND GATE	99- 23
5♦	8881	*N8881J	MULB	NAND GATE	99- 24
6♦	8881	*N8881J	PHIN	NAND GATE	99- 24
7♦	8881	N8881N	SIC	NAND GATE	99- 25
8♦	8881	S8881A	MULB	NAND GATE	99- 26
9♦	8881	S8881A	PHIN	NAND GATE	99- 26
10♦	8881	S8881F	MULB	NAND GATE	99- 27
11♦	8881	S8881F	PHIN	NAND GATE	99- 27
12♦	8881	*S8881J	MULB	NAND GATE	99- 28
13♦	8881	*S8881J	PHIN	NAND GATE	99- 28
14♦	8885	N8885F	MULB	NOR GATE	113- 69
15♦	8885	N8885F	PHIN	NOR GATE	113- 69
16♦	8885	*N8885J	MULB	NOR GATE	113- 70
17♦	8885	*N8885J	PHIN	NOR GATE	113- 70
18♦	8885	S8885A	MULB	NOR GATE	113- 71
19♦	8885	S8885A	PHIN	NOR GATE	113- 71
20♦	8885	S8885F	MULB	NOR GATE	113- 72
21♦	8885	S8885F	PHIN	NOR GATE	113- 72
22♦	8885	*S8885J	MULB	NOR GATE	113- 73
23♦	8885	*S8885J	PHIN	NOR GATE	113- 73
24♦	8898	DM8898N	NSC	SPECIAL	246- 87
25♦	8899	DM8899N	NSC	SPECIAL	246- 88
26♦	8901	SP8901	PLSB	COUNTER	167- 50
27♦	8906	SP8906	PLSB	COUNTER	167- 46
28♦	9000	9000DC	FSC	JK FL-FLOP	65- 28
29♦	9000	9000DM	FSC	JK FL-FLOP	65- 29
30	9000	*9000FM	FSC	JK FL-FLOP	65- 30
31♦	9001	9001DC	FSC	JK FL-FLOP	66- 38
32♦	9001	9001DM	FSC	JK FL-FLOP	66- 39
33	9001	*9001FM	FSC	JK FL-FLOP	66- 40
34♦	9002	9002DC	FSC	NAND GATE	95- 84
35♦	9002	9002DM	FSC	NAND GATE	95- 85
36♦	9002	*9002FM	FSC	NAND GATE	98- 41
37♦	9002	DM9002CJ	NSC	NAND GATE	96- 19
38♦	9002	DM9002CN	NSC	NAND GATE	96- 20
39♦	9003	9003DC	FSC	NAND GATE	101- 37
40♦	9003	9003DM	FSC	NAND GATE	101- 38
41♦	9003	*9003FM	FSC	NAND GATE	102- 67
42♦	9003	DM9003CJ	NSC	NAND GATE	101- 54
43♦	9003	DM9003CN	NSC	NAND GATE	101- 55
44♦	9004	9004DC	FSC	NAND GATE	106- 67
45♦	9004	9004DM	FSC	NAND GATE	106- 35
46♦	9004	*9004FM	FSC	NAND GATE	106- 36
47♦	9004	DM9004CJ	NSC	NAND GATE	106- 80
48♦	9004	DM9004CN	NSC	NAND GATE	106- 81
49♦	9005	9005DC	FSC	AND-OR-INV	85- 88
50♦	9005	9005DM	FSC	AND-OR-INV	85- 89
51♦	9005	*9005FM	FSC	AND-OR-INV	85- 90
52♦	9005	DM9005CJ	NSC	AND-OR-INV	85-100
53♦	9005	DM9005CN	NSC	AND-OR-INV	85-101
54♦	9006	9006DC	FSC	AND GATE	81- 43
55♦	9006	9006DM	FSC	AND GATE	81- 44
56♦	9006	*9006FM	FSC	AND GATE	82- 1
57♦	9006	DM9006CJ	NSC	AND GATE	81- 53
58♦	9006	DM9006CN	NSC	AND GATE	81- 54
59♦	9007	9007DC	FSC	NAND GATE	109- 82
60♦	9007	9007DM	FSC	NAND GATE	109- 45
61♦	9007	*9007FM	FSC	NAND GATE	109- 46
62♦	9008	9008DC	FSC	AND-OR-INV	87- 77
63♦	9008	9008DM	FSC	AND-OR-INV	87- 78
64♦	9008	*9008FM	FSC	AND-OR-INV	87- 38
65♦	9008	DM9008CJ	NSC	AND-OR-INV	87- 79
66♦	9008	DM9008CN	NSC	AND-OR-INV	87- 80
67♦	9009	DM9009CJ	NSC	NAND GATE	106-103
68♦	9009	DM9009CN	NSC	NAND GATE	106-104
69♦	9012	9012DC	FSC	NAND GATE	95- 86
70♦	9012	9012DM	FSC	NAND GATE	95- 87
71♦	9012	*9012FM	FSC	NAND GATE	100- 4
72♦	9012	DM9012CJ	NSC	NAND GATE	96- 21
73♦	9012	DM9012CN	NSC	NAND GATE	96- 22
74♦	9014	9014DC	FSC	EX-OR GATE	93- 39
75♦	9014	9014DM	FSC	EX-OR GATE	93- 37
76♦	9014	*9014FM	FSC	EX-OR GATE	93- 38
77♦	9015	9015DC	FSC	NOR GATE	119- 13
78♦	9015	9015DM	FSC	NOR GATE	119- 11
79♦	9015	*9015FM	FSC	NOR GATE	119- 12
80♦	9020	9020DC	FSC	JK FL-FLOP	72- 82
81♦	9020	9020DM	FSC	JK FL-FLOP	72- 83
82	9020	*9020FM	FSC	JK FL-FLOP	72- 84
83♦	9022	9022DC	FSC	JK FL-FLOP	72- 85
84♦	9022	9022DM	FSC	JK FL-FLOP	72- 86
85	9022	*9022FM	FSC	JK FL-FLOP	72- 87
86♦	9024	9024DC	FSC	JK FL-FLOP	69- 34
87♦	9024	9024DM	FSC	JK FL-FLOP	69- 35
88	9024	*9024FM	FSC	JK FL-FLOP	69- 36
89♦	9024	DM9024J	NSC	JK FL-FLOP	71- 74
90♦	9093	9093BC	FSC	JK FL-FLOP	66- 68
91♦	9093	9093DC	FSC	JK FL-FLOP	66- 69
92♦	9093	9093DM	FSC	JK FL-FLOP	66- 70
93	9093	*9093FC	FSC	JK FL-FLOP	66- 71
94	9093	*9093FM	FSC	JK FL-FLOP	66- 72
95♦	9093	DM9093N	NSC	JK FL-FLOP	66- 88
96♦	9094	9094BC	SGSI	JK FL-FLOP	66- 73
97♦	9094	9094DC	FSC	JK FL-FLOP	66- 74
98♦	9094	9094DC	SGSI	JK FL-FLOP	66- 74
99♦	9094	9094DM	FSC	JK FL-FLOP	66- 75
100♦	9094	9094DM	SGSI	JK FL-FLOP	66- 75
101	9094	*9094FC	SGSI	JK FL-FLOP	66- 76
102	9094	*9094FM	FSC	JK FL-FLOP	66- 77
103	9094	*9094FM	SGSI	JK FL-FLOP	66- 77
104♦	9094	DM9094N	NSC	JK FL-FLOP	66- 89
105♦	9097	9097BC	SGSI	JK FL-FLOP	66- 78
106♦	9097	9097DC	FSC	JK FL-FLOP	66- 79
107♦	9097	9097DC	SGSI	JK FL-FLOP	66- 79
108♦	9097	9097DM	FSC	JK FL-FLOP	66- 80
109♦	9097	9097DM	SGSI	JK FL-FLOP	66- 80
110	9097	*9097FC	SGSI	JK FL-FLOP	66- 81
111	9097	*9097FM	FSC	JK FL-FLOP	66- 82
112	9097	*9097FM	SGSI	JK FL-FLOP	66- 82
113♦	9097	DM9097N	NSC	JK FL-FLOP	66- 90
114♦	9099	9099BC	FSC	JK FL-FLOP	66- 83
115♦	9099	9099BC	SGSI	JK FL-FLOP	66- 83
116♦	9099	9099DC	FSC	JK FL-FLOP	66- 84
117♦	9099	9099DC	SGSI	JK FL-FLOP	66- 84
118♦	9099	9099DM	FSC	JK FL-FLOP	66- 85
119♦	9099	9099DM	SGSI	JK FL-FLOP	66- 85
120	9099	*9099FC	FSC	JK FL-FLOP	66- 86
121	9099	*9099FC	SGSI	JK FL-FLOP	66- 86
122	9099	*9099FM	FSC	JK FL-FLOP	66- 87
123	9099	*9099FM	SGSI	JK FL-FLOP	66- 87
124♦	9099	DM9099N	NSC	JK FL-FLOP	66- 91
125▼	9100	*EP9100	PCA	TIME DELAY	138- 64
126▼	9101	CY7C9101-24DC(A)	CYP	16-BIT ALU	223- 23
127▼	9101	*CY7C9101-24JC(A)	CYP	16-BIT ALU	223- 24
128▼	9101	*CY7C9101-24LC(A)	CYP	16-BIT ALU	223- 25
129▼	9101	CY7C9101-24PC(A)	CYP	16-BIT ALU	223- 26
130▼	9101	CY7C9101-28DMB(A)	CYP	16-BIT ALU	223- 15
131▼	9101	*CY7C9101-28LMB(A)	CYP	16-BIT ALU	223- 16
132▼	9101	CY7C9101-31DC(A)	CYP	16-BIT ALU	223- 17
133▼	9101	*CY7C9101-31JC(A)	CYP	16-BIT ALU	223- 18
134▼	9101	*CY7C9101-31LC(A)	CYP	16-BIT ALU	223- 19
135▼	9101	CY7C9101-31PC(A)	CYP	16-BIT ALU	223- 20
136▼	9101	CY7C9101-36DMB(A)	CYP	16-BIT ALU	223- 21
137▼	9101	*CY7C9101-36LMB(A)	CYP	16-BIT ALU	223- 22
138▼	9101	*EP9101	PCA	TIME DELAY	138- 65
139▼	9102	*EP9102	PCA	TIME DELAY	138- 66
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142▼	9105	*EP9105	PCA	TIME DELAY	138- 69
143▼	9106	*EP9106	PCA	TIME DELAY	138- 70
144♦	9106	RS9106	RSCB	DEC CNTR	184- 56
145▼	9107	*EP9107	PCA	TIME DELAY	138- 71
146▼	9108	*EP9108	PCA	TIME DELAY	138- 72
147▼	9109	*EP9109	PCA	TIME DELAY	138- 73
148▼	9110	*EP9110	PCA	TIME DELAY	138- 74
149♦	9111	9111DM	FSC	RST F-FLOP	75- 51
150	9111	*9111FM	FSC	RST F-FLOP	75- 52
151▼	9111	*EP9111	PCA	TIME DELAY	138- 75
152▼	9112	*EP9112	PCA	TIME DELAY	138- 76
153▼	9113	*EP9113	PCA	TIME DELAY	138- 77
154▼	9114	*EP9114	PCA	TIME DELAY	138- 78
155▼	9115	*EP9115	PCA	TIME DELAY	138- 79
156▼	9116	*EP9116	PCA	TIME DELAY	138- 80
157▼	9117	*EP9117	PCA	TIME DELAY	138- 81
158▼	9118	*EP9118	PCA	TIME DELAY	138- 82
159▼	9119	*EP9119	PCA	TIME DELAY	138- 83
160▼	9120	*EP9120	PCA	TIME DELAY	138- 84
161▼	9121	*EP9121	PCA	TIME DELAY	138- 85
162▼	9122	*EP9122	PCA	TIME DELAY	138- 86
163♦	9122	TC9122P	TOSJ	COUNTER	166- 34
164▼	9123	*EP9123	PCA	TIME DELAY	138- 87
165▼	9124	*EP9124	PCA	TIME DELAY	138- 88
166▼	9125	*EP9125	PCA	TIME DELAY	138- 89
167▼	9126	*EP9126	PCA	TIME DELAY	138- 90
168▼	9127	*EP9127	PCA	TIME DELAY	138- 91
169▼	9128	*EP9128	PCA	TIME DELAY	138- 92
170▼	9129	*EP9129	PCA	TIME DELAY	138- 93
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172▼	9131	*SP9131LC	PLSB	D FL-FLOP	53- 72
173	9172	STI9172A	STF	TIME DELAY	152- 43
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175▼	9210	*SP9210LC	PLSB	8-BIT LCH	233- 85
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177▼	9215	SP9215DG(A)	PLSB	COUNTER	186- 19
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180♦	9301	9301DC	FSC	DECODER	126- 45
181♦	9301	9301DM	FSC	DECODER	126- 46
182	9301	*9301FM	FSC	DECODER	126- 47
183♦	9301	9301PC	FSC	DECODER	126- 48
184▼	9301	EP9301	PCA	TIME DELAY	138- 95
185	9302	*9302FM	FSC	DECODER	126- 49
186▼	9302	EP9302	PCA	TIME DELAY	138- 96
187▼	9303	EP9303	PCA	TIME DELAY	138- 97
188♦	9304	9304DC	FSC	ADDER	198-108
189♦	9304	9304DM	FSC	ADDER	198-109
190	9304	*9304FM	FSC	ADDER	198-110
191	9304	9304PC	FSC	ADDER	199- 1
192▼	9304	EP9304	PCA	TIME DELAY	138- 98
193♦	9305	*9305FM	FSC	MOD-N CNTR	186- 3
194♦	9305	9305PC	FSC	MOD-N CNTR	186- 4
195▼	9305	EP9305	PCA	TIME DELAY	138- 99
196▼	9306	EP9306	PCA	TIME DELAY	138-100
197▼	9307	EP9307	PCA	TIME DELAY	138-101
198♦	9308	9308DC	FSC	4-BIT LCH	230- 69
199♦	9308	9308DM	FSC	4-BIT LCH	230- 70
200	9308	*9308FM	FSC	4-BIT LCH	230- 71
201♦	9308	9308PC	FSC	4-BIT LCH	230- 72
202▼	9308	EP9308	PCA	TIME DELAY	138-102
203♦	9308	N9308F	MULB	4-BIT LCH	231-100
204♦	9308	N9308F	PHIN	4-BIT LCH	231-100
205♦	9308	N9308F	VALG	4-BIT LCH	231-100
206♦	9308	N9308N	MULB	4-BIT LCH	231-101
207♦	9308	N9308N	PHIN	4-BIT LCH	231-101
208♦	9308	N9308N	VALG	4-BIT LCH	231-101
209♦	9308	S9308F	MULB	4-BIT LCH	231- 45
210♦	9308	S9308F	PHIN	4-BIT LCH	231- 45
211♦	9308	S9308F	VALG	4-BIT LCH	231- 45
212	9308	*S9308Q	MULB	4-BIT LCH	231- 46
213	9308	*S9308Q	PHIN	4-BIT LCH	231- 46
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215▼	9309	EP9309	PCA	TIME DELAY	138-103
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217♦	9310	9310DM	FSC	DEC CNTR	173- 81
218♦	9310	*9310FM	FSC	DEC CNTR	173- 82
219♦	9310	9310PC	FSC	DEC CNTR	172- 39
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3▼	9311	EP9311	PCA	TIME DELAY	138-105
4▼	9313	EP9313	PCA	TIME DELAY	138-106
5♦	9314	9314DC	FSC	4-BIT LCH	230- 95
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7	9314	*9314FM	FSC	4-BIT LCH	230- 97
8	9314	9314PC	FSC	4-BIT LCH	230- 98
9▼	9314	EP9314	PCA	TIME DELAY	138-107
10♦	9314	N9314F	MULB	4-BIT LCH	231- 1
11♦	9314	N9314F	PHIN	4-BIT LCH	231- 1
12♦	9314	N9314F	VALG	4-BIT LCH	231- 1
13♦	9314	N9314N	MULB	4-BIT LCH	231- 2
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17♦	9314	S9314F	PHIN	4-BIT LCH	231- 3
18♦	9314	S9314F	SIC	4-BIT LCH	231- 3
19♦	9314	S9314F	VALG	4-BIT LCH	231- 3
20	9314	*S9314W	MULB	4-BIT LCH	231- 4
21	9314	*S9314W	PHIN	4-BIT LCH	231- 4
22	9314	*S9314W	SIC	4-BIT LCH	231- 4
23	9314	*S9314W	VALG	4-BIT LCH	231- 4
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134♦	10100	10100N	RTCF	NOR GATE	117- 50
135♦	10100	10100N	SIC	NOR GATE	117- 50
136♦	10100	10100N	VALG	NOR GATE	117- 50
137	10100	DDU5J10100	DDD	TIME DELAY	137- 52
138♦	10100	F10100DC	FSC	NOR GATE	117- 37
139♦	10100	GXB10100	MULB	NOR GATE	117- 34
140♦	10100	GXB10100	PHIN	NOR GATE	117- 34
141♦	10100	GXB10100D	PHIN	NOR GATE	117- 35
142♦	10100	GXB10100P	PHIN	NOR GATE	117- 36
143▼	10100	MC10100FN	MOTA	NOR GATE	117- 40
144♦	10100	MC10100L	MOTA	NOR GATE	117- 41
145▼	10100	MC10100LD	MOTA	NOR GATE	117- 42
146▼	10100	MC10100LDS	MOTA	NOR GATE	117- 43
147♦	10100	MC10100P	MOTA	NOR GATE	117- 44
148▼	10100	MC10100PD	MOTA	NOR GATE	117- 45
149▼	10100	MC10100PDS	MOTA	NOR GATE	117- 46
150♦	10101	10101F	MULB	OR GATE	121- 26
151♦	10101	10101F	PHIN	OR GATE	121- 26
152♦	10101	10101F	RTCF	OR GATE	121- 26
153♦	10101	10101F	SIC	OR GATE	121- 26
154♦	10101	10101F	VALG	OR GATE	121- 26
155♦	10101	10101N	MULB	OR GATE	121- 27
156♦	10101	10101N	PHIN	OR GATE	121- 27
157♦	10101	10101N	RTCF	OR GATE	121- 27
158♦	10101	10101N	SIC	OR GATE	121- 27
159♦	10101	10101N	VALG	OR GATE	121- 27
160♦	10101	DM10101J	NSC	OR GATE	120- 28
161♦	10101	F10101DC	FSC	OR GATE	121- 9
162♦	10101	GXB10101	MULB	OR GATE	120- 31
163♦	10101	HD10101	HITJ	OR GATE	121- 30
164♦	10101	MB10101	FCAJ	OR GATE	120- 40
165♦	10101	MB10101M	FCAJ	OR GATE	120- 41
166▼	10101	MC10101FN	MOTA	OR GATE	120- 53
167♦	10101	MC10101L	MOTA	OR GATE	120- 54
168▼	10101	MC10101LD	MOTA	OR GATE	120- 55
169▼	10101	MC10101LDS	MOTA	OR GATE	120- 56
170♦	10101	MC10101P	MOTA	OR GATE	120- 57
171▼	10101	MC10101PD	MOTA	OR GATE	120- 58
172▼	10101	MC10101PDS	MOTA	OR GATE	120- 59
173♦	10102	10102F	MULB	NOR GATE	113- 45
174♦	10102	10102F	PHIN	NOR GATE	113- 45
175♦	10102	10102F	RTCF	NOR GATE	113- 45
176♦	10102	10102F	SIC	NOR GATE	113- 45
177♦	10102	10102F	VALG	NOR GATE	113- 45
178♦	10102	10102N	MULB	NOR GATE	113- 46
179♦	10102	10102N	PHIN	NOR GATE	113- 46
180♦	10102	10102N	RTCF	NOR GATE	113- 46
181♦	10102	10102N	SIC	NOR GATE	113- 46
182♦	10102	10102N	VALG	NOR GATE	113- 46
183♦	10102	DM10102J	NSC	NOR GATE	113- 31
184♦	10102	F10102DC	FSC	NOR GATE	113- 32
185♦	10102	GXB10102	MULB	NOR GATE	113- 28
186♦	10102	HD10102	HITJ	NOR GATE	113- 47
187♦	10102	MB10102	FCAJ	NOR GATE	113- 29
188♦	10102	MB10102M	FCAJ	NOR GATE	113- 30
189▼	10102	MC10102FN	MOTA	NOR GATE	113- 35
190♦	10102	MC10102L	MOTA	NOR GATE	113- 36
191▼	10102	MC10102LD	MOTA	NOR GATE	113- 37
192▼	10102	MC10102LDS	MOTA	NOR GATE	113- 38
193♦	10102	MC10102P	MOTA	NOR GATE	113- 39
194▼	10102	MC10102PD	MOTA	NOR GATE	113- 40
195▼	10102	MC10102PDS	MOTA	NOR GATE	113- 41
196♦	10103	10103F	MULB	OR GATE	121- 28
197♦	10103	10103F	PHIN	OR GATE	121- 28
198♦	10103	10103F	RTCF	OR GATE	121- 28
199♦	10103	10103F	SIC	OR GATE	121- 28
200♦	10103	10103F	VALG	OR GATE	121- 28
201♦	10103	10103N	MULB	OR GATE	121- 29
202♦	10103	10103N	PHIN	OR GATE	121- 29
203♦	10103	10103N	RTCF	OR GATE	121- 29
204♦	10103	10103N	SIC	OR GATE	121- 29
205♦	10103	10103N	VALG	OR GATE	121- 29
206♦	10103	F10103DC	FSC	OR GATE	121- 10
207♦	10103	MB10103	FCAJ	OR GATE	121- 66
208♦	10103	MB10103M	FCAJ	OR GATE	121- 67
209▼	10103	MC10103FN	MOTA	OR GATE	121- 15
210♦	10103	MC10103L	MOTA	OR GATE	121- 16
211▼	10103	MC10103LD	MOTA	OR GATE	121- 17
212▼	10103	MC10103LDS	MOTA	OR GATE	121- 18
213♦	10103	MC10103P	MOTA	OR GATE	121- 19
214▼	10103	MC10103PD	MOTA	OR GATE	121- 20
215▼	10103	MC10103PDS	MOTA	OR GATE	121- 21
216♦	10104	10104F	MULB	AND GATE	77- 30
217♦	10104	10104F	PHIN	AND GATE	77- 30
218♦	10104	10104F	RTCF	AND GATE	77- 30
219♦	10104	10104F	SIC	AND GATE	77- 30
220♦	10104	10104F	VALG	AND GATE	77- 30

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2♦	10104	10104N	PHIN	AND GATE	77- 31
3♦	10104	10104N	RTCF	AND GATE	77- 31
4♦	10104	10104N	SIC	AND GATE	77- 31
5♦	10104	10104N	VALG	AND GATE	77- 31
6♦	10104	F10104DC	FSC	AND GATE	77- 18
7♦	10104	GXB10104	MULB	AND GATE	77- 6
8♦	10104	HD10104	HITJ	AND GATE	77- 32
9♦	10104	MB10104	FCAJ	AND GATE	77- 16
10♦	10104	MB10104M	FCAJ	AND GATE	77- 17
11▼	10104	MC10104FN	MOTA	AND GATE	77- 21
12♦	10104	MC10104L	MOTA	AND GATE	77- 22
13▼	10104	MC10104LD	MOTA	AND GATE	77- 23
14▼	10104	MC10104LDS	MOTA	AND GATE	77- 24
15♦	10104	MC10104P	MOTA	AND GATE	77- 25
16▼	10104	MC10104PD	MOTA	AND GATE	77- 26
17▼	10104	MC10104PDS	MOTA	AND GATE	77- 27
18♦	10105	10105F	MULB	OR GATE	122- 52
19♦	10105	10105F	PHIN	OR GATE	122- 52
20♦	10105	10105F	RTCF	OR GATE	122- 52
21♦	10105	10105F	SIC	OR GATE	122- 52
22♦	10105	10105F	VALG	OR GATE	122- 52
23♦	10105	10105N	MULB	OR GATE	122- 53
24♦	10105	10105N	PHIN	OR GATE	122- 53
25♦	10105	10105N	RTCF	OR GATE	122- 53
26♦	10105	10105N	SIC	OR GATE	122- 53
27♦	10105	10105N	VALG	OR GATE	122- 53
28♦	10105	DM10105J	NSC	OR GATE	122- 31
29♦	10105	F10105DC	FSC	OR GATE	122- 44
30♦	10105	GXB10105	MULB	OR GATE	122- 32
31♦	10105	HD10105	HITJ	OR GATE	120- 4
32♦	10105	MB10105	FCAJ	OR GATE	122- 33
33♦	10105	MB10105M	FCAJ	OR GATE	122- 34
34▼	10105	MC10105FN	MOTA	OR GATE	122- 45
35♦	10105	MC10105L	MOTA	OR GATE	122- 46
36▼	10105	MC10105LD	MOTA	OR GATE	122- 47
37▼	10105	MC10105LDS	MOTA	OR GATE	122- 48
38♦	10105	MC10105P	MOTA	OR GATE	122- 49
39▼	10105	MC10105PD	MOTA	OR GATE	122- 50
40▼	10105	MC10105PDS	MOTA	OR GATE	122- 51
41♦	10106	10106F	MULB	NOR GATE	117- 71
42♦	10106	10106F	PHIN	NOR GATE	117- 71
43♦	10106	10106F	RTCF	NOR GATE	117- 71
44♦	10106	10106F	SIC	NOR GATE	117- 71
45♦	10106	10106F	VALG	NOR GATE	117- 71
46♦	10106	10106N	MULB	NOR GATE	117- 72
47♦	10106	10106N	PHIN	NOR GATE	117- 72
48♦	10106	10106N	RTCF	NOR GATE	117- 72
49♦	10106	10106N	SIC	NOR GATE	117- 72
50♦	10106	10106N	VALG	NOR GATE	117- 72
51♦	10106	DM10106J	NSC	NOR GATE	117- 62
52♦	10106	F10106DC	FSC	NOR GATE	117- 66
53♦	10106	GXB10106	MULB	NOR GATE	117- 63
54♦	10106	HD10106	HITJ	NOR GATE	111- 99
55♦	10106	MB10106	FCAJ	NOR GATE	117- 64
56♦	10106	MB10106M	FCAJ	NOR GATE	117- 65
57▼	10106	MC10106FN	MOTA	NOR GATE	117- 55
58♦	10106	MC10106L	MOTA	NOR GATE	117- 56
59▼	10106	MC10106LD	MOTA	NOR GATE	117- 57
60▼	10106	MC10106LDS	MOTA	NOR GATE	117- 58
61♦	10106	MC10106P	MOTA	NOR GATE	117- 59
62▼	10106	MC10106PD	MOTA	NOR GATE	117- 60
63▼	10106	MC10106PDS	MOTA	NOR GATE	117- 61
64♦	10107	10107F	MULB	EX-OR GATE	91- 37
65♦	10107	10107F	PHIN	EX-OR GATE	91- 37
66♦	10107	10107F	RTCF	EX-OR GATE	91- 37
67♦	10107	10107F	SIC	EX-OR GATE	91- 37
68♦	10107	10107F	VALG	EX-OR GATE	91- 37
69♦	10107	10107N	MULB	EX-OR GATE	91- 38
70♦	10107	10107N	PHIN	EX-OR GATE	91- 38
71♦	10107	10107N	RTCF	EX-OR GATE	91- 38
72♦	10107	10107N	SIC	EX-OR GATE	91- 38
73♦	10107	10107N	VALG	EX-OR GATE	91- 38
74♦	10107	DM10107J	NSC	EX-OR GATE	91- 20
75♦	10107	F10107DC	FSC	EX-OR GATE	91- 25
76♦	10107	GXB10107	MULB	EX-OR GATE	91- 21
77♦	10107	HD10107	HITJ	EX-OR GATE	91- 40
78♦	10107	MB10107	FCAJ	EX-OR GATE	91- 22
79♦	10107	MB10107M	FCAJ	EX-OR GATE	91- 23
80▼	10107	MC10107FN	MOTA	EX-OR GATE	91- 28
81♦	10107	MC10107L	MOTA	EX-OR GATE	91- 29
82▼	10107	MC10107LD	MOTA	EX-OR GATE	91- 30
83▼	10107	MC10107LDS	MOTA	EX-OR GATE	91- 31
84♦	10107	MC10107P	MOTA	EX-OR GATE	91- 32
85▼	10107	MC10107PD	MOTA	EX-OR GATE	91- 33
86▼	10107	MC10107PDS	MOTA	EX-OR GATE	91- 34
87♦	10108	10108F	MULB	AND GATE	81-103
88♦	10108	10108F	PHIN	AND GATE	81-103
89♦	10108	10108F	RTCF	AND GATE	81-103
90♦	10108	10108F	SIC	AND GATE	81-103
91♦	10108	10108F	VALG	AND GATE	81-103
92♦	10108	10108N	MULB	AND GATE	81-104
93♦	10108	10108N	PHIN	AND GATE	81-104
94♦	10108	10108N	RTCF	AND GATE	81-104
95♦	10108	10108N	SIC	AND GATE	81-104
96♦	10108	10108N	VALG	AND GATE	81-104
97♦	10109	10109F	MULB	OR GATE	124- 87
98♦	10109	10109F	PHIN	OR GATE	124- 87
99♦	10109	10109F	RTCF	OR GATE	124- 87
100♦	10109	10109F	SIC	OR GATE	124- 87
101♦	10109	10109F	VALG	OR GATE	124- 87
102♦	10109	10109N	MULB	OR GATE	124- 88
103♦	10109	10109N	PHIN	OR GATE	124- 88
104♦	10109	10109N	RTCF	OR GATE	124- 88
105♦	10109	10109N	SIC	OR GATE	124- 88
106♦	10109	10109N	VALG	OR GATE	124- 88
107♦	10109	DM10109J	NSC	OR GATE	124- 74
108♦	10109	F10109DC	FSC	OR GATE	124- 75
109♦	10109	GXB10109	MULB	OR GATE	124- 73
110♦	10109	HD10109	HITJ	OR GATE	124- 89
111♦	10109	MB10109	FCAJ	OR GATE	124- 54
112♦	10109	MB10109M	FCAJ	OR GATE	124- 55
113▼	10109	MC10109FN	MOTA	OR GATE	124- 78
114♦	10109	MC10109L	MOTA	OR GATE	124- 79
115▼	10109	MC10109LD	MOTA	OR GATE	124- 80
116▼	10109	MC10109LDS	MOTA	OR GATE	124- 81
117♦	10109	MC10109P	MOTA	OR GATE	124- 82
118▼	10109	MC10109PD	MOTA	OR GATE	124- 83
119▼	10109	MC10109PDS	MOTA	OR GATE	124- 84
120♦	10110	DM10110J	NSC	OR GATE	122- 90
121♦	10110	F10110DC	FSC	OR GATE	122- 92
122♦	10110	GXB10110	MULB	OR GATE	122- 78
123♦	10110	HD10110	HITJ	OR GATE	122-103
124♦	10110	MB10110	FCAJ	OR GATE	122-104
125♦	10110	MB10110M	FCAJ	OR GATE	122-105
126▼	10110	MC10110FN	MOTA	OR GATE	122- 95
127♦	10110	MC10110L	MOTA	OR GATE	122- 96
128▼	10110	MC10110LD	MOTA	OR GATE	122- 97
129▼	10110	MC10110LDS	MOTA	OR GATE	122- 98
130♦	10110	MC10110P	MOTA	OR GATE	122- 99
131▼	10110	MC10110PD	MOTA	OR GATE	122-100
132▼	10110	MC10110PDS	MOTA	OR GATE	122-101
133♦	10111	DM10111J	NSC	NOR GATE	115- 41
134♦	10111	F10111DC	FSC	NOR GATE	115- 42
135♦	10111	GXB10111	MULB	NOR GATE	115- 29
136♦	10111	HD10111	HITJ	NOR GATE	115- 53
137♦	10111	MB10111	FCAJ	NOR GATE	115- 30
138♦	10111	MB10111M	FCAJ	NOR GATE	115- 31
139▼	10111	MC10111FN	MOTA	NOR GATE	115- 45
140♦	10111	MC10111L	MOTA	NOR GATE	115- 46
141▼	10111	MC10111LD	MOTA	NOR GATE	115- 47
142▼	10111	MC10111LDS	MOTA	NOR GATE	115- 48
143♦	10111	MC10111P	MOTA	NOR GATE	115- 49
144▼	10111	MC10111PD	MOTA	NOR GATE	115- 50
145▼	10111	MC10111PDS	MOTA	NOR GATE	115- 51
146♦	10112	10112F	MULB	OR GATE	122- 76
147♦	10112	10112F	PHIN	OR GATE	122- 76
148♦	10112	10112F	SIC	OR GATE	122- 76
149♦	10112	10112N	SIC	OR GATE	122- 77
150♦	10112	DM10112J	NSC	OR GATE	122- 91
151♦	10113	10113F	MULB	EX-OR GATE	93- 6
152♦	10113	10113F	PHIN	EX-OR GATE	93- 6
153♦	10113	10113F	RTCF	EX-OR GATE	93- 6
154♦	10113	10113F	SIC	EX-OR GATE	93- 6
155♦	10113	10113F	VALG	EX-OR GATE	93- 6
156♦	10113	10113N	MULB	EX-OR GATE	93- 7
157♦	10113	10113N	PHIN	EX-OR GATE	93- 7
158♦	10113	10113N	RTCF	EX-OR GATE	93- 7
159♦	10113	10113N	SIC	EX-OR GATE	93- 7
160♦	10113	10113N	VALG	EX-OR GATE	93- 7
161♦	10113	F10113DC	FSC	EX-OR GATE	93- 3
162♦	10113	GXB10113	MULB	EX-OR GATE	92- 98
163▼	10113	MC10113FN	MOTA	EX-OR GATE	92-106
164♦	10113	MC10113L	MOTA	EX-OR GATE	92-107
165▼	10113	MC10113LD	MOTA	EX-OR GATE	92-108
166▼	10113	MC10113LDS	MOTA	EX-OR GATE	92-109
167♦	10113	MC10113P	MOTA	EX-OR GATE	92-110
168▼	10113	MC10113PD	MOTA	EX-OR GATE	93- 1
169▼	10113	MC10113PDS	MOTA	EX-OR GATE	93- 2
170♦	10117	10117F	MULB	OR-AND GTE	83- 82
171♦	10117	10117F	PHIN	OR-AND GTE	83- 82
172♦	10117	10117F	RTCF	OR-AND GTE	83- 82
173♦	10117	10117F	SIC	OR-AND GTE	83- 82
174♦	10117	10117F	VALG	OR-AND GTE	83- 82
175♦	10117	10117N	MULB	OR-AND GTE	83- 83
176♦	10117	10117N	PHIN	OR-AND GTE	83- 83
177♦	10117	10117N	RTCF	OR-AND GTE	83- 83
178♦	10117	10117N	SIC	OR-AND GTE	83- 83
179♦	10117	10117N	VALG	OR-AND GTE	83- 83
180♦	10117	DM10117J	NSC	OR-AND GTE	83- 69
181♦	10117	F10117DC	FSC	OR-AND GTE	83- 56
182♦	10117	GXB10117	MULB	OR-AND GTE	83- 70
183♦	10117	HD10117	HITJ	OR-AND GTE	83- 84
184♦	10117	MB10117	FCAJ	OR-AND GTE	83- 71
185♦	10117	MB10117M	FCAJ	OR-AND GTE	83- 72
186▼	10117	MC10117FN	MOTA	OR-AND GTE	83- 73
187♦	10117	MC10117L	MOTA	OR-AND GTE	83- 74
188▼	10117	MC10117LD	MOTA	OR-AND GTE	83- 75
189▼	10117	MC10117LDS	MOTA	OR-AND GTE	83- 76
190♦	10117	MC10117P	MOTA	OR-AND GTE	83- 77
191▼	10117	MC10117PD	MOTA	OR-AND GTE	83- 78
192▼	10117	MC10117PDS	MOTA	OR-AND GTE	83- 79
193♦	10118	10118F	MULB	OR-AND GTE	84- 9
194♦	10118	10118F	PHIN	OR-AND GTE	84- 9
195♦	10118	10118F	RTCF	OR-AND GTE	84- 9
196♦	10118	10118F	SIC	OR-AND GTE	84- 9
197♦	10118	10118F	VALG	OR-AND GTE	84- 9
198♦	10118	10118N	MULB	OR-AND GTE	84- 10
199♦	10118	10118N	PHIN	OR-AND GTE	84- 10
200♦	10118	10118N	RTCF	OR-AND GTE	84- 10
201♦	10118	10118N	SIC	OR-AND GTE	84- 10
202♦	10118	10118N	VALG	OR-AND GTE	84- 10
203♦	10118	DM10118J	NSC	OR-AND GTE	83-106
204♦	10118	F10118DC	FSC	OR-AND GTE	83-107
205♦	10118	GXB10118	MULB	OR-AND GTE	83-103
206♦	10118	HD10118	HITJ	OR-AND GTE	84- 11
207♦	10118	MB10118	FCAJ	OR-AND GTE	83-104
208♦	10118	MB10118M	FCAJ	OR-AND GTE	83-105
209▼	10118	MC10118FN	MOTA	OR-AND GTE	83-110
210♦	10118	MC10118L	MOTA	OR-AND GTE	84- 1
211▼	10118	MC10118LD	MOTA	OR-AND GTE	84- 2
212▼	10118	MC10118LDS	MOTA	OR-AND GTE	84- 3
213♦	10118	MC10118P	MOTA	OR-AND GTE	84- 4
214▼	10118	MC10118PD	MOTA	OR-AND GTE	84- 5
215▼	10118	MC10118PDS	MOTA	OR-AND GTE	84- 6
216♦	10119	10119F	MULB	OR-AND GTE	84- 48
217♦	10119	10119F	PHIN	OR-AND GTE	84- 48
218♦	10119	10119F	RTCF	OR-AND GTE	84- 48
219♦	10119	10119F	SIC	OR-AND GTE	84- 48
220♦	10119	10119F	VALG	OR-AND GTE	84- 48

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3♦	10119	10119N	RTCF	OR-AND GTE	84- 49
4♦	10119	10119N	SIC	OR-AND GTE	84- 49
5♦	10119	10119N	VALG	OR-AND GTE	84- 49
6♦	10119	DM10119J	NSC	OR-AND GTE	84- 39
7♦	10119	F10119DC	FSC	OR-AND GTE	84- 33
8♦	10119	GXB10119	MULB	OR-AND GTE	84- 36
9♦	10119	HD10119	HITJ	OR-AND GTE	84- 50
10♦	10119	MB10119	FCAJ	OR-AND GTE	84- 37
11♦	10119	MB10119M	FCAJ	OR-AND GTE	84- 38
12▼	10119	MC10119FN	MOTA	OR-AND GTE	84- 40
13♦	10119	MC10119L	MOTA	OR-AND GTE	84- 41
14▼	10119	MC10119LD	MOTA	OR-AND GTE	84- 42
15▼	10119	MC10119LDS	MOTA	OR-AND GTE	84- 43
16♦	10119	MC10119P	MOTA	OR-AND GTE	84- 44
17▼	10119	MC10119PD	MOTA	OR-AND GTE	84- 45
18▼	10119	MC10119PDS	MOTA	OR-AND GTE	84- 46
19♦	10121	10121F	MULB	OR-AND GTE	84- 28
20♦	10121	10121F	PHIN	OR-AND GTE	84- 28
21♦	10121	10121F	RTCF	OR-AND GTE	84- 28
22♦	10121	10121F	SIC	OR-AND GTE	84- 28
23♦	10121	10121F	VALG	OR-AND GTE	84- 28
24♦	10121	10121N	MULB	OR-AND GTE	84- 29
25♦	10121	10121N	PHIN	OR-AND GTE	84- 29
26♦	10121	10121N	RTCF	OR-AND GTE	84- 29
27♦	10121	10121N	SIC	OR-AND GTE	84- 29
28♦	10121	10121N	VALG	OR-AND GTE	84- 29
29♦	10121	DM10121J	NSC	OR-AND GTE	84- 12
30♦	10121	F10121DC	FSC	OR-AND GTE	84- 13
31♦	10121	GXB10121	MULB	OR-AND GTE	84- 16
32♦	10121	HD10121	HITJ	OR-AND GTE	84- 30
33♦	10121	MB10121	FCAJ	OR-AND GTE	84- 17
34♦	10121	MB10121M	FCAJ	OR-AND GTE	84- 18
35▼	10121	MC10121FN	MOTA	OR-AND GTE	84- 19
36♦	10121	MC10121L	MOTA	OR-AND GTE	84- 20
37▼	10121	MC10121LD	MOTA	OR-AND GTE	84- 21
38▼	10121	MC10121LDS	MOTA	OR-AND GTE	84- 22
39♦	10121	MC10121P	MOTA	OR-AND GTE	84- 23
40▼	10121	MC10121PD	MOTA	OR-AND GTE	84- 24
41▼	10121	MC10121PDS	MOTA	OR-AND GTE	84- 25
42♦	10123	10123F	MULB	NOR GATE	117- 73
43♦	10123	10123F	PHIN	NOR GATE	117- 73
44♦	10123	10123F	RTCF	NOR GATE	117- 73
45♦	10123	10123F	SIC	NOR GATE	117- 73
46♦	10123	10123F	VALG	NOR GATE	117- 73
47♦	10123	10123N	MULB	NOR GATE	117- 74
48♦	10123	10123N	PHIN	NOR GATE	117- 74
49♦	10123	10123N	RTCF	NOR GATE	117- 74
50♦	10123	10123N	SIC	NOR GATE	117- 74
51♦	10123	10123N	VALG	NOR GATE	117- 74
52♦	10123	GXB10123D	PHIN	NOR GATE	117- 53
53♦	10123	GXB10123P	PHIN	NOR GATE	117- 54
54♦	10130	10130F	MULB	1-BIT LCH	229- 20
55♦	10130	10130F	PHIN	1-BIT LCH	229- 20
56♦	10130	10130F	RTCF	1-BIT LCH	229- 20
57♦	10130	10130F	SIC	1-BIT LCH	229- 20
58♦	10130	10130F	VALG	1-BIT LCH	229- 20
59♦	10130	10130N	MULB	1-BIT LCH	229- 21
60♦	10130	10130N	PHIN	1-BIT LCH	229- 21
61♦	10130	10130N	RTCF	1-BIT LCH	229- 21
62♦	10130	10130N	SIC	1-BIT LCH	229- 21
63♦	10130	10130N	VALG	1-BIT LCH	229- 21
64♦	10130	F10130DC	FSC	2-BIT LCH	229- 44
65♦	10130	GXB10130	MULB	1-BIT LCH	229- 12
66♦	10130	HD10130	HITJ	2-BIT LCH	229- 43
67♦	10130	MB10130	FCAJ	2-BIT LCH	229- 26
68♦	10130	MB10130M	FCAJ	2-BIT LCH	229- 27
69▼	10130	MC10130FN	MOTA	2-BIT LCH	229- 48
70♦	10130	MC10130L	MOTA	2-BIT LCH	229- 49
71▼	10130	MC10130LD	MOTA	2-BIT LCH	229- 50
72▼	10130	MC10130LDS	MOTA	2-BIT LCH	229- 51
73♦	10130	MC10130P	MOTA	2-BIT LCH	229- 52
74▼	10130	MC10130PD	MOTA	2-BIT LCH	229- 53
75▼	10130	MC10130PDS	MOTA	2-BIT LCH	229- 54
76♦	10131	10131F	MULB	D FL-FLOP	53- 30
77♦	10131	10131F	PHIN	D FL-FLOP	53- 30
78♦	10131	10131F	RTCF	D FL-FLOP	53- 30
79♦	10131	10131F	SIC	D FL-FLOP	53- 30
80♦	10131	10131F	VALG	D FL-FLOP	53- 30
81♦	10131	10131N	MULB	D FL-FLOP	53- 31
82♦	10131	10131N	PHIN	D FL-FLOP	53- 31
83♦	10131	10131N	RTCF	D FL-FLOP	53- 31
84♦	10131	10131N	SIC	D FL-FLOP	53- 31
85♦	10131	10131N	VALG	D FL-FLOP	53- 31
86♦	10131	F10131DC	FSC	D FL-FLOP	53- 11
87♦	10131	GXB10131	MULB	D FL-FLOP	53- 32
88♦	10131	HD10131	HITJ	D FL-FLOP	53- 33
89♦	10131	MB10131	FCAJ	D FL-FLOP	53- 34
90♦	10131	MB10131M	FCAJ	D FL-FLOP	53- 35
91▼	10131	MC10131FN	MOTA	D FL-FLOP	53- 36
92♦	10131	MC10131J	MMI	D FL-FLOP	53- 68
93♦	10131	MC10131L	MOTA	D FL-FLOP	53- 37
94▼	10131	MC10131LD	MOTA	D FL-FLOP	53- 38
95▼	10131	MC10131LDS	MOTA	D FL-FLOP	53- 39
96♦	10131	MC10131N	MMI	D FL-FLOP	53- 69
97♦	10131	MC10131P	MOTA	D FL-FLOP	53- 40
98▼	10131	MC10131PD	MOTA	D FL-FLOP	53- 41
99▼	10131	MC10131PDS	MOTA	D FL-FLOP	53- 42
100♦	10133	10133F	MULB	2-BIT LCH	229- 66
101♦	10133	10133F	PHIN	2-BIT LCH	229- 66
102♦	10133	10133F	RTCF	2-BIT LCH	229- 66
103♦	10133	10133F	SIC	2-BIT LCH	229- 66
104♦	10133	10133F	VALG	2-BIT LCH	229- 66
105♦	10133	10133N	MULB	2-BIT LCH	229- 67
106♦	10133	10133N	PHIN	2-BIT LCH	229- 67
107♦	10133	10133N	RTCF	2-BIT LCH	229- 67
108♦	10133	10133N	SIC	2-BIT LCH	229- 67
109♦	10133	10133N	VALG	2-BIT LCH	229- 67
110♦	10133	F10133DC	FSC	2-BIT LCH	229- 56
111♦	10133	GXB10133	MULB	2-BIT LCH	229- 39
112♦	10133	HD10133	HITJ	4-BIT LCH	230- 19
113♦	10133	MB10133	FCAJ	2-BIT LCH	229- 28
114♦	10133	MB10133M	FCAJ	2-BIT LCH	229- 29
115▼	10133	MC10133FN	MOTA	4-BIT LCH	230- 20
116♦	10133	MC10133L	MOTA	4-BIT LCH	230- 21
117▼	10133	MC10133LD	MOTA	4-BIT LCH	230- 22
118▼	10133	MC10133LDS	MOTA	4-BIT LCH	230- 23
119♦	10133	MC10133P	MOTA	4-BIT LCH	230- 24
120▼	10133	MC10133PD	MOTA	4-BIT LCH	230- 25
121▼	10133	MC10133PDS	MOTA	4-BIT LCH	230- 26
122♦	10135	10135F	MULB	JK FL-FLOP	74- 71
123♦	10135	10135F	PHIN	JK FL-FLOP	74- 71
124♦	10135	10135F	RTCF	JK FL-FLOP	74- 71
125♦	10135	10135F	SIC	JK FL-FLOP	74- 71
126♦	10135	10135F	VALG	JK FL-FLOP	74- 71
127♦	10135	10135N	MULB	JK FL-FLOP	74- 72
128♦	10135	10135N	PHIN	JK FL-FLOP	74- 72
129♦	10135	10135N	RTCF	JK FL-FLOP	74- 72
130♦	10135	10135N	SIC	JK FL-FLOP	74- 72
131♦	10135	10135N	VALG	JK FL-FLOP	74- 72
132♦	10135	F10135DC	FSC	JK FL-FLOP	74- 32
133♦	10135	GXB10135	MULB	JK FL-FLOP	74- 84
134♦	10135	GXB10135	SIC	JK FL-FLOP	74- 84
135♦	10135	MB10135	FCAJ	JK FL-FLOP	74- 73
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137▼	10135	MC10135FN	MOTA	JK FL-FLOP	74- 75
138♦	10135	MC10135L	MOTA	JK FL-FLOP	74- 76
139▼	10135	MC10135LD	MOTA	JK FL-FLOP	74- 77
140▼	10135	MC10135LDS	MOTA	JK FL-FLOP	74- 78
141♦	10135	MC10135P	MOTA	JK FL-FLOP	74- 79
142▼	10135	MC10135PD	MOTA	JK FL-FLOP	74- 80
143▼	10135	MC10135PDS	MOTA	JK FL-FLOP	74- 81
144♦	10136	10136F	MULB	HEX CNTR	163-106
145♦	10136	10136F	PHIN	HEX CNTR	163-106
146♦	10136	10136F	RTCF	HEX CNTR	163-106
147♦	10136	10136F	SIC	HEX CNTR	163-106
148♦	10136	10136F	VALG	HEX CNTR	163-106
149♦	10136	10136N	MULB	HEX CNTR	163-107
150♦	10136	10136N	PHIN	HEX CNTR	163-107
151♦	10136	10136N	RTCF	HEX CNTR	163-107
152♦	10136	10136N	SIC	HEX CNTR	163-107
153♦	10136	10136N	VALG	HEX CNTR	163-107
154♦	10136	F10136DC	FSC	HEX CNTR	163-108
155♦	10136	GXB10136	MULB	HEX CNTR	154- 24
156♦	10136	HD10136	HITJ	HEX CNTR	159- 25
157♦	10136	MB10136	FCAJ	HEX CNTR	159- 26
158♦	10136	MB10136M	FCAJ	HEX CNTR	159- 27
159▼	10136	MC10136FN	MOTA	HEX CNTR	159- 28
160♦	10136	MC10136L	MOTA	HEX CNTR	159- 29
161▼	10136	MC10136LD	MOTA	HEX CNTR	159- 30
162▼	10136	MC10136LDS	MOTA	HEX CNTR	159- 31
163♦	10136	MC10136P	MOTA	HEX CNTR	159- 32
164▼	10136	MC10136PD	MOTA	HEX CNTR	159- 33
165▼	10136	MC10136PDS	MOTA	HEX CNTR	159- 34
166♦	10137	10137F	MULB	DEC CNTR	180- 79
167♦	10137	10137F	PHIN	DEC CNTR	180- 79
168♦	10137	10137F	RTCF	DEC CNTR	180- 79
169♦	10137	10137F	SIC	DEC CNTR	180- 79
170♦	10137	10137F	VALG	DEC CNTR	180- 79
171♦	10137	10137N	MULB	DEC CNTR	180- 80
172♦	10137	10137N	PHIN	DEC CNTR	180- 80
173♦	10137	10137N	RTCF	DEC CNTR	180- 80
174♦	10137	10137N	SIC	DEC CNTR	180- 80
175♦	10137	10137N	VALG	DEC CNTR	180- 80
176♦	10137	F10137DC	FSC	DEC CNTR	180- 89
177♦	10137	GXB10137	MULB	DEC CNTR	177- 20
178♦	10137	MB10137	FCAJ	DEC CNTR	180- 81
179♦	10137	MB10137M	FCAJ	DEC CNTR	180- 82
180♦	10137	MC10137L	MOTA	DEC CNTR	180- 83
181▼	10137	MC10137LD	MOTA	DEC CNTR	180- 84
182▼	10137	MC10137LDS	MOTA	DEC CNTR	180- 85
183♦	10137	MC10137P	MOTA	DEC CNTR	180- 86
184▼	10137	MC10137PD	MOTA	DEC CNTR	180- 87
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186▼	10138	MC10138FN	MOTA	COUNTER	167- 6
187♦	10138	MC10138L	MOTA	COUNTER	167- 7
188▼	10138	MC10138LD	MOTA	COUNTER	167- 8
189▼	10138	MC10138LDS	MOTA	COUNTER	167- 9
190♦	10138	MC10138P	MOTA	COUNTER	167- 10
191▼	10138	MC10138PD	MOTA	COUNTER	167- 11
192▼	10138	MC10138PDS	MOTA	COUNTER	167- 12
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195▼	10153	MC10153FN	MOTA	4-BIT LCH	230- 36
196♦	10153	MC10153L	MOTA	4-BIT LCH	230- 37
197▼	10153	MC10153LD	MOTA	4-BIT LCH	230- 38
198▼	10153	MC10153LDS	MOTA	4-BIT LCH	230- 39
199♦	10153	MC10153P	MOTA	4-BIT LCH	230- 40
200▼	10153	MC10153PD	MOTA	4-BIT LCH	230- 41
201▼	10153	MC10153PDS	MOTA	4-BIT LCH	230- 42
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203▼	10154	MC10154LD	MOTA	COUNTER	167- 14
204▼	10154	MC10154LDS	MOTA	COUNTER	167- 15
205♦	10154	MC10154P	MOTA	COUNTER	167- 16
206▼	10154	MC10154PD	MOTA	COUNTER	167- 17
207▼	10154	MC10154PDS	MOTA	COUNTER	167- 18
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209♦	10160	10160F	PHIN	PARITY GEN	227-105
210♦	10160	10160F	RTCF	PARITY GEN	227-105
211♦	10160	10160F	SIC	PARITY GEN	227-105
212♦	10160	10160F	VALG	PARITY GEN	227-105
213♦	10160	10160N	MULB	PARITY GEN	227-106
214♦	10160	10160N	PHIN	PARITY GEN	227-106
215♦	10160	10160N	RTCF	PARITY GEN	227-106
216♦	10160	10160N	VALG	PARITY GEN	227-106
217♦	10160	F10160DC	FSC	PARITY GEN	227- 93
218♦	10160	GXB10160	MULB	PARITY GEN	227- 83
219♦	10160	GXB10160D	PHIN	PARITY GEN	227-107
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1♦	10160	HD10160	HITJ	PARITY GEN	227-109
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3♦	10160	MB10160M	FCAJ	PARITY GEN	227- 82
4▼	10160	MC10160FN	MOTA	PARITY GEN	227- 96
5♦	10160	MC10160L	MOTA	PARITY GEN	227- 97
6▼	10160	MC10160LD	MOTA	PARITY GEN	227- 98
7▼	10160	MC10160LDS	MOTA	PARITY GEN	227- 99
8♦	10160	MC10160P	MOTA	PARITY GEN	227-100
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12♦	10161	MB10161M	FCAJ	DECODER	125- 22
13♦	10162	MB10162	FCAJ	DECODER	125- 23
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15♦	10163	MC10163L	MOTA	SPECIAL	245- 15
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18♦	10163	MC10163P	MOTA	SPECIAL	245- 18
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20▼	10163	MC10163PDS	MOTA	SPECIAL	245- 20
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22▼	10166	MC10166FN	MOTA	MAGN COMP	217-110
23♦	10166	MC10166L	MOTA	MAGN COMP	218- 1
24▼	10166	MC10166LD	MOTA	MAGN COMP	218- 2
25▼	10166	MC10166LDS	MOTA	MAGN COMP	218- 3
26♦	10166	MC10166P	MOTA	MAGN COMP	218- 4
27▼	10166	MC10166PD	MOTA	MAGN COMP	218- 5
28▼	10166	MC10166PDS	MOTA	MAGN COMP	218- 6
29♦	10168	F10168DC	FSC	4-BIT LCH	230- 16
30▼	10168	MC10168FN	MOTA	4-BIT LCH	230- 27
31♦	10168	MC10168L	MOTA	4-BIT LCH	230- 28
32▼	10168	MC10168LD	MOTA	4-BIT LCH	230- 29
33▼	10168	MC10168LDS	MOTA	4-BIT LCH	230- 30
34♦	10168	MC10168P	MOTA	4-BIT LCH	230- 31
35▼	10168	MC10168PD	MOTA	4-BIT LCH	230- 32
36▼	10168	MC10168PDS	MOTA	4-BIT LCH	230- 33
37♦	10170	10170F	MULB	PARITY GEN	226- 31
38♦	10170	10170F	PHIN	PARITY GEN	226- 31
39♦	10170	F10170DC	FSC	PARITY GEN	227- 74
40▼	10170	MC10170FN	MOTA	PARITY GEN	226- 32
41♦	10170	MC10170L	MOTA	PARITY GEN	226- 33
42▼	10170	MC10170LD	MOTA	PARITY GEN	226- 34
43▼	10170	MC10170LDS	MOTA	PARITY GEN	226- 35
44♦	10170	MC10170P	MOTA	PARITY GEN	226- 36
45▼	10170	MC10170PD	MOTA	PARITY GEN	226- 37
46▼	10170	MC10170PDS	MOTA	PARITY GEN	226- 38
47♦	10175	10175F	MULB	5-BIT LCH	233- 20
48♦	10175	10175F	PHIN	5-BIT LCH	233- 20
49♦	10175	10175F	RTCF	5-BIT LCH	233- 20
50♦	10175	10175F	SIC	5-BIT LCH	233- 20
51♦	10175	10175F	VALG	5-BIT LCH	233- 20
52♦	10175	10175N	MULB	5-BIT LCH	233- 21
53♦	10175	10175N	PHIN	5-BIT LCH	233- 21
54♦	10175	10175N	RTCF	5-BIT LCH	233- 21
55♦	10175	10175N	SIC	5-BIT LCH	233- 21
56♦	10175	10175N	VALG	5-BIT LCH	233- 21
57♦	10175	F10175DC	FSC	5-BIT LCH	233- 22
58♦	10175	HD10175	HITJ	2-BIT LCH	229- 55
59♦	10175	MB10175	FCAJ	D FL-FLOP	49- 53
60♦	10175	MB10175M	FCAJ	D FL-FLOP	49- 54
61▼	10175	MC10175FN	MOTA	5-BIT LCH	233- 27
62♦	10175	MC10175L	MOTA	5-BIT LCH	233- 28
63▼	10175	MC10175LD	MOTA	5-BIT LCH	233- 29
64▼	10175	MC10175LDS	MOTA	5-BIT LCH	233- 30
65♦	10175	MC10175P	MOTA	5-BIT LCH	233- 31
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70♦	10176	10176F(1)	RTCF	D FL-FLOP	57- 57
71♦	10176	10176F(1)	SIC	D FL-FLOP	57- 57
72♦	10176	10176F(1)	VALG	D FL-FLOP	57- 57
73♦	10176	10176N	MULB	D FL-FLOP	57- 58
74♦	10176	10176N	PHIN	D FL-FLOP	57- 58
75♦	10176	10176N	RTCF	D FL-FLOP	57- 58
76♦	10176	10176N	SIC	D FL-FLOP	57- 58
77♦	10176	10176N	VALG	D FL-FLOP	57- 58
78▼	10176	MC10176FN	MOTA	D FL-FLOP	50- 9
79♦	10176	MC10176L(1)	MOTA	D FL-FLOP	50- 10
80▼	10176	MC10176LD	MOTA	D FL-FLOP	50- 11
81▼	10176	MC10176LDS	MOTA	D FL-FLOP	50- 12
82▼	10176	MC10176P	MOTA	D FL-FLOP	50- 13
83▼	10176	MC10176PD	MOTA	D FL-FLOP	50- 14
84▼	10176	MC10176PDS	MOTA	D FL-FLOP	50- 15
85▼	10178	MC10178FN	MOTA	COUNTER	167- 19
86♦	10178	MC10178L	MOTA	COUNTER	167- 20
87▼	10178	MC10178LD	MOTA	COUNTER	167- 21
88▼	10178	MC10178LDS	MOTA	COUNTER	167- 22
89♦	10178	MC10178P	MOTA	COUNTER	167- 23
90▼	10178	MC10178PD	MOTA	COUNTER	167- 24
91▼	10178	MC10178PDS	MOTA	COUNTER	167- 25
92♦	10179	10179F	MULB	PARITY GEN	224- 31
93♦	10179	10179F	PHIN	PARITY GEN	224- 31
94♦	10179	10179F	RTCF	PARITY GEN	224- 31
95♦	10179	10179F	SIC	PARITY GEN	224- 31
96♦	10179	10179F	VALG	PARITY GEN	224- 31
97♦	10179	10179N	MULB	PARITY GEN	224- 32
98♦	10179	10179N	PHIN	PARITY GEN	224- 32
99♦	10179	10179N	RTCF	PARITY GEN	224- 32
100♦	10179	10179N	SIC	PARITY GEN	224- 32
101♦	10179	10179N	VALG	PARITY GEN	224- 32
102♦	10179	F10179DC	FSC	PARITY GEN	224- 34
103♦	10179	GXB10179D	PHIN	PARITY GEN	224- 50
104♦	10179	GXB10179P	PHIN	PARITY GEN	224- 51
105♦	10179	HD10179	HITJ	PARITY GEN	224- 33
106♦	10179	MB10179	FCAJ	PARITY GEN	224- 4
107♦	10179	MB10179M	FCAJ	PARITY GEN	224- 5
108♦	10179	MC10179L	MOTA	PARITY GEN	224- 37
109▼	10179	MC10179LD	MOTA	PARITY GEN	224- 38
110▼	10179	MC10179LDS	MOTA	PARITY GEN	224- 39
111♦	10179	MC10179P	MOTA	PARITY GEN	224- 40
112▼	10179	MC10179PD	MOTA	PARITY GEN	224- 41
113▼	10179	MC10179PDS	MOTA	PARITY GEN	224- 42
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115♦	10180	10180F	PHIN	ADDER	198- 21
116♦	10180	10180F	RTCF	ADDER	198- 21
117♦	10180	10180F	SIC	ADDER	198- 21
118♦	10180	10180F	VALG	ADDER	198- 21
119♦	10180	10180N	MULB	ADDER	198- 22
120♦	10180	10180N	PHIN	ADDER	198- 22
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122♦	10180	10180N	SIC	ADDER	198- 22
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124♦	10533	*F10533FM	FSC	2-BIT LCH	229- 59
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2▼	12025	MC12025P	MOTA	FREQ DIVID	194-104
3♦	12040	MC12040L	MOTA	SPECIAL	246- 69
4▼	12040	MC12040LD	MOTA	SPECIAL	246- 70
5▼	12040	MC12040LDS	MOTA	SPECIAL	246- 71
6♦	12040	MC12040P	MOTA	SPECIAL	246- 72
7▼	12040	MC12040PD	MOTA	SPECIAL	246- 73
8▼	12040	MC12040PDS	MOTA	SPECIAL	246- 74
9♦	12060	MC12060L	MOTA	CLOCK/MV	192- 78
10♦	12060	MC12060P	MOTA	CLOCK/MV	192- 79
11♦	12061	MC12061L	MOTA	CLOCK/MV	192- 95
12▼	12061	MC12061LD	MOTA	CLOCK/MV	192- 96
13▼	12061	MC12061LDS	MOTA	CLOCK/MV	192- 97
14♦	12061	MC12061P	MOTA	CLOCK/MV	192- 98
15▼	12061	MC12061PD	MOTA	CLOCK/MV	192- 99
16▼	12061	MC12061PDS	MOTA	CLOCK/MV	192-100
17▼	12071	MC12071L	MOTA	FREQ DIVID	195-109
18♦	12071	MC12071P	MOTA	FREQ DIVID	195-110
19♦	12073	*MC12073D(A)	MOTA	FREQ DIVID	195- 44
20♦	12073	MC12073P(2A)	MOTA	FREQ DIVID	195- 45
21♦	12074	*MC12074D(A)	MOTA	FREQ DIVID	195- 46
22♦	12074	MC12074P(2A)	MOTA	FREQ DIVID	195- 47
23♦	12090	MC12090L	MOTA	SPECIAL	246- 75
24▼	12090	MC12090LD	MOTA	SPECIAL	246- 76
25▼	12090	MC12090LDS	MOTA	SPECIAL	246- 77
26♦	12090	MC12090P	MOTA	SPECIAL	246- 78
27▼	12090	MC12090PD	MOTA	SPECIAL	246- 79
28▼	12090	MC12090PDS	MOTA	SPECIAL	246- 80
29♦	12509	MC12509L	MOTA	FREQ DIVID	194- 96
30♦	12511	MC12511P	MOTA	FREQ DIVID	197- 3
31♦	12513	MC12513L	MOTA	FREQ DIVID	194-102
32♦	12514	MC12514L	MOTA	SPECIAL	246- 81
33♦	12514	MC12514P	MOTA	SPECIAL	246- 82
34♦	12540	MC12540L	MOTA	SPECIAL	246- 83
35♦	12540	MC12540P	MOTA	SPECIAL	246- 84
36♦	12560	MC12560L	MOTA	CLOCK/MV	192- 80
37♦	12561	MC12561L	MOTA	CLOCK/MV	192-101
38	13256	PDU13256-1	DDD	TIME DELAY	135- 2
39	13256	PDU13256-2	DDD	TIME DELAY	135- 3
40	13256	PDU13256-3	DDD	TIME DELAY	135- 4
41	13256	PDU13256-4	DDD	TIME DELAY	135- 5
42	13256	PDU13256-5	DDD	TIME DELAY	135- 6
43	13256	PDU13256-6	DDD	TIME DELAY	135- 7
44	13256	PDU13256-7	DDD	TIME DELAY	135- 8
45	13256	PDU13256-8	DDD	TIME DELAY	135- 9
46	13256	PDU13256-9	DDD	TIME DELAY	135- 10
47	13256	PDU13256-10	DDD	TIME DELAY	135- 11
48♦	14000	MC14000UBAL	MOTA	NOR GATE	111-100
49▼	14000	MC14000UBALD	MOTA	NOR GATE	111-101
50▼	14000	MC14000UBALDS	MOTA	NOR GATE	111-102
51▼	14000	MC14000UBALS	MOTA	NOR GATE	111-103
52♦	14000	MC14000UBCL	MOTA	NOR GATE	111-104
53▼	14000	MC14000UBCLD	MOTA	NOR GATE	111-105
54▼	14000	MC14000UBCLDS	MOTA	NOR GATE	111-106
55▼	14000	MC14000UBCLS	MOTA	NOR GATE	111-107
56♦	14000	MC14000UBCP	MOTA	NOR GATE	111-108
57▼	14000	MC14000UBCPD	MOTA	NOR GATE	111-109
58▼	14000	MC14000UBCPDS	MOTA	NOR GATE	111-110
59▼	14000	MC14000UBCPS	MOTA	NOR GATE	112- 1
60▼	14000	MC14000UBD	MOTA	NOR GATE	112- 2
61♦	14001	MC14001BAL	MOTA	NOR GATE	114- 84
62▼	14001	MC14001BALD	MOTA	NOR GATE	114- 85
63▼	14001	MC14001BALDS	MOTA	NOR GATE	114- 86
64▼	14001	MC14001BALS	MOTA	NOR GATE	114- 87
65♦	14001	MC14001BCL	MOTA	NOR GATE	114- 88
66▼	14001	MC14001BCLD	MOTA	NOR GATE	114- 89
67▼	14001	MC14001BCLDS	MOTA	NOR GATE	114- 90
68▼	14001	MC14001BCLS	MOTA	NOR GATE	114- 91
69♦	14001	MC14001BCP	MOTA	NOR GATE	114- 92
70▼	14001	MC14001BCPD	MOTA	NOR GATE	114- 93
71▼	14001	MC14001BCPDS	MOTA	NOR GATE	114- 94
72▼	14001	MC14001BCPS	MOTA	NOR GATE	114- 95
73▼	14001	MC14001BD	MOTA	NOR GATE	114- 96
74♦	14001	MC14001UBAL	MOTA	NOR GATE	114- 30
75▼	14001	MC14001UBALD	MOTA	NOR GATE	114- 31
76▼	14001	MC14001UBALDS	MOTA	NOR GATE	114- 32
77▼	14001	MC14001UBALS	MOTA	NOR GATE	114- 33
78♦	14001	MC14001UBCL	MOTA	NOR GATE	114- 34
79▼	14001	MC14001UBCLD	MOTA	NOR GATE	114- 35
80▼	14001	MC14001UBCLDS	MOTA	NOR GATE	114- 36
81▼	14001	MC14001UBCLS	MOTA	NOR GATE	114- 37
82♦	14001	MC14001UBCP	MOTA	NOR GATE	114- 38
83▼	14001	MC14001UBCPD	MOTA	NOR GATE	114- 39
84▼	14001	MC14001UBCPDS	MOTA	NOR GATE	114- 40
85▼	14001	MC14001UBCPS	MOTA	NOR GATE	114- 41
86▼	14001	MC14001UBD	MOTA	NOR GATE	114- 42
87♦	14002	MC14002BAL	MOTA	NOR GATE	118- 95
88▼	14002	MC14002BALD	MOTA	NOR GATE	118- 96
89▼	14002	MC14002BALDS	MOTA	NOR GATE	118- 97
90▼	14002	MC14002BALS	MOTA	NOR GATE	118- 98
91♦	14002	MC14002BCL	MOTA	NOR GATE	118- 99
92▼	14002	MC14002BCLD	MOTA	NOR GATE	118-100
93▼	14002	MC14002BCLDS	MOTA	NOR GATE	118-101
94▼	14002	MC14002BCLS	MOTA	NOR GATE	118-102
95♦	14002	MC14002BCP	MOTA	NOR GATE	118-103
96▼	14002	MC14002BCPD	MOTA	NOR GATE	118-104
97▼	14002	MC14002BCPDS	MOTA	NOR GATE	118-105
98▼	14002	MC14002BCPS	MOTA	NOR GATE	118-106
99▼	14002	MC14002BD	MOTA	NOR GATE	118-107
100♦	14002	MC14002UBAL	MOTA	NOR GATE	118- 47
101▼	14002	MC14002UBALD	MOTA	NOR GATE	118- 48
102▼	14002	MC14002UBALDS	MOTA	NOR GATE	118- 49
103▼	14002	MC14002UBALS	MOTA	NOR GATE	118- 50
104♦	14002	MC14002UBCL	MOTA	NOR GATE	118- 51
105▼	14002	MC14002UBCLD	MOTA	NOR GATE	118- 52
106▼	14002	MC14002UBCLDS	MOTA	NOR GATE	118- 53
107▼	14002	MC14002UBCLS	MOTA	NOR GATE	118- 54
108♦	14002	MC14002UBCP	MOTA	NOR GATE	118- 55
109▼	14002	MC14002UBCPD	MOTA	NOR GATE	118- 56
110▼	14002	MC14002UBCPDS	MOTA	NOR GATE	118- 57
111▼	14002	MC14002UBCPS	MOTA	NOR GATE	118- 58
112▼	14002	MC14002UBD	MOTA	NOR GATE	118- 59
113♦	14008	MC14008BAL	MOTA	ADDER	201- 28
114▼	14008	MC14008BALD	MOTA	ADDER	201- 29
115▼	14008	MC14008BALDS	MOTA	ADDER	201- 30
116▼	14008	MC14008BALS	MOTA	ADDER	201- 31
117♦	14008	MC14008BCL	MOTA	ADDER	201- 32
118▼	14008	MC14008BCLD	MOTA	ADDER	201- 33
119▼	14008	MC14008BCLDS	MOTA	ADDER	201- 34
120▼	14008	MC14008BCLS	MOTA	ADDER	201- 35
121♦	14008	MC14008BCP	MOTA	ADDER	201- 36
122▼	14008	MC14008BCPD	MOTA	ADDER	201- 37
123▼	14008	MC14008BCPDS	MOTA	ADDER	201- 38
124▼	14008	MC14008BCPS	MOTA	ADDER	201- 39
125▼	14008	MC14008BD	MOTA	ADDER	201- 40
126♦	14011	MC14011BAL	MOTA	NAND GATE	100- 69
127▼	14011	MC14011BALD	MOTA	NAND GATE	100- 70
128▼	14011	MC14011BALDS	MOTA	NAND GATE	100- 71
129♦	14011	MC14011BCL	MOTA	NAND GATE	100- 72
130▼	14011	MC14011BCLD	MOTA	NAND GATE	100- 73
131▼	14011	MC14011BCLDS	MOTA	NAND GATE	100- 74
132▼	14011	MC14011BCLS	MOTA	NAND GATE	100- 75
133♦	14011	MC14011BCP	MOTA	NAND GATE	100- 76
134▼	14011	MC14011BCPD	MOTA	NAND GATE	100- 77
135▼	14011	MC14011BCPDS	MOTA	NAND GATE	100- 78
136▼	14011	MC14011BCPS	MOTA	NAND GATE	100- 79
137▼	14011	MC14011BD	MOTA	NAND GATE	100- 80
138♦	14011	MC14011UBAL	MOTA	NAND GATE	99- 94
139▼	14011	MC14011UBALD	MOTA	NAND GATE	99- 95
140▼	14011	MC14011UBALDS	MOTA	NAND GATE	99- 96
141▼	14011	MC14011UBALS	MOTA	NAND GATE	99- 97
142♦	14011	MC14011UBCL	MOTA	NAND GATE	99- 98
143▼	14011	MC14011UBCLD	MOTA	NAND GATE	99- 99
144▼	14011	MC14011UBCLDS	MOTA	NAND GATE	99-100
145▼	14011	MC14011UBCLS	MOTA	NAND GATE	99-101
146♦	14011	MC14011UBCP	MOTA	NAND GATE	99-102
147▼	14011	MC14011UBCPD	MOTA	NAND GATE	99-103
148▼	14011	MC14011UBCPDS	MOTA	NAND GATE	99-104
149▼	14011	MC14011UBCPS	MOTA	NAND GATE	99-105
150▼	14011	MC14011UBD	MOTA	NAND GATE	99-106
151♦	14012	MC14012BAL	MOTA	NAND GATE	108- 8
152▼	14012	MC14012BALD	MOTA	NAND GATE	108- 9
153▼	14012	MC14012BALDS	MOTA	NAND GATE	108- 10
154▼	14012	MC14012BALS	MOTA	NAND GATE	108- 11
155♦	14012	MC14012BCL	MOTA	NAND GATE	108- 12
156▼	14012	MC14012BCLD	MOTA	NAND GATE	108- 13
157▼	14012	MC14012BCLDS	MOTA	NAND GATE	108- 14
158▼	14012	MC14012BCLS	MOTA	NAND GATE	108- 15
159♦	14012	MC14012BCP	MOTA	NAND GATE	108- 16
160▼	14012	MC14012BCPD	MOTA	NAND GATE	108- 17
161▼	14012	MC14012BCPDS	MOTA	NAND GATE	108- 18
162▼	14012	MC14012BCPS	MOTA	NAND GATE	108- 19
163▼	14012	MC14012BD	MOTA	NAND GATE	108- 20
164♦	14012	MC14012UBCL	MOTA	NAND GATE	107- 46
165▼	14012	MC14012UBCLD	MOTA	NAND GATE	107- 47
166▼	14012	MC14012UBCLDS	MOTA	NAND GATE	107- 48
167▼	14012	MC14012UBCLS	MOTA	NAND GATE	107- 49
168♦	14012	MC14012UBCP	MOTA	NAND GATE	107- 50
169▼	14012	MC14012UBCPD	MOTA	NAND GATE	107- 51
170▼	14012	MC14012UBCPDS	MOTA	NAND GATE	107- 52
171▼	14012	MC14012UBCPS	MOTA	NAND GATE	107- 53
172▼	14012	MC14012UBD	MOTA	NAND GATE	107- 54
173♦	14013	MC14013BAL	MOTA	D FL-FLOP	50- 66
174▼	14013	MC14013BALD	MOTA	D FL-FLOP	50- 67
175▼	14013	MC14013BALDS	MOTA	D FL-FLOP	50- 68
176▼	14013	MC14013BALS	MOTA	D FL-FLOP	50- 69
177♦	14013	MC14013BCL	MOTA	D FL-FLOP	50- 70
178▼	14013	MC14013BCLD	MOTA	D FL-FLOP	50- 71
179▼	14013	MC14013BCLDS	MOTA	D FL-FLOP	50- 72
180▼	14013	MC14013BCLS	MOTA	D FL-FLOP	50- 73
181♦	14013	MC14013BCP	MOTA	D FL-FLOP	50- 74
182▼	14013	MC14013BCPD	MOTA	D FL-FLOP	50- 75
183▼	14013	MC14013BCPDS	MOTA	D FL-FLOP	50- 76
184▼	14013	MC14013BCPS	MOTA	D FL-FLOP	50- 77
185▼	14013	MC14013BD	MOTA	D FL-FLOP	50- 78
186♦	14017	MC14017BAL	MOTA	FREQ DIVID	194- 34
187▼	14017	MC14017BALD	MOTA	FREQ DIVID	194- 35
188▼	14017	MC14017BALDS	MOTA	FREQ DIVID	194- 36
189▼	14017	MC14017BALS	MOTA	FREQ DIVID	194- 37
190♦	14017	MC14017BCL	MOTA	FREQ DIVID	194- 8
191▼	14017	MC14017BCLD	MOTA	FREQ DIVID	194- 9
192▼	14017	MC14017BCLDS	MOTA	FREQ DIVID	194- 10
193▼	14017	MC14017BCLS	MOTA	FREQ DIVID	194- 11
194♦	14017	MC14017BCP	MOTA	FREQ DIVID	194- 12
195▼	14017	MC14017BCPD	MOTA	FREQ DIVID	194- 13
196▼	14017	MC14017BCPDS	MOTA	FREQ DIVID	194- 14
197▼	14017	MC14017BCPS	MOTA	FREQ DIVID	194- 15
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199♦	14018	MC14018BAL	MOTA	MOD-N CNTR	185- 58
200▼	14018	MC14018BALD	MOTA	MOD-N CNTR	185- 59
201▼	14018	MC14018BALDS	MOTA	MOD-N CNTR	185- 60
202▼	14018	MC14018BALS	MOTA	MOD-N CNTR	185- 61
203♦	14018	MC14018BCL	MOTA	MOD-N CNTR	185- 62
204▼	14018	MC14018BCLD	MOTA	MOD-N CNTR	185- 63
205▼	14018	MC14018BCLDS	MOTA	MOD-N CNTR	185- 64
206▼	14018	MC14018BCLS	MOTA	MOD-N CNTR	185- 65
207♦	14018	MC14018BCP	MOTA	MOD-N CNTR	185- 66
208▼	14018	MC14018BCPD	MOTA	MOD-N CNTR	185- 67
209▼	14018	MC14018BCPDS	MOTA	MOD-N CNTR	185- 68
210▼	14018	MC14018BCPS	MOTA	MOD-N CNTR	185- 69
211▼	14018	MC14018BD	MOTA	MOD-N CNTR	185- 70
212♦	14020	MC14020BAL	MOTA	HEX CNTR	164- 59
213▼	14020	MC14020BALD	MOTA	COUNTER	171- 27
214▼	14020	MC14020BALDS	MOTA	COUNTER	171- 28
215▼	14020	MC14020BALS	MOTA	COUNTER	171- 29
216♦	14020	MC14020BCL	MOTA	COUNTER	171- 30
217▼	14020	MC14020BCLD	MOTA	COUNTER	171- 31
218▼	14020	MC14020BCLDS	MOTA	COUNTER	171- 32
219▼	14020	MC14020BCLS	MOTA	COUNTER	171- 33
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3▼	14020	MC14020BCPS	MOTA	COUNTER	171- 37
4▼	14020	MC14020BD	MOTA	COUNTER	171- 38
5♦	14022	MC14022BAL	MOTA	OCTAL CNTR	185- 1
6▼	14022	MC14022BALD	MOTA	OCTAL CNTR	185- 2
7▼	14022	MC14022BALDS	MOTA	OCTAL CNTR	185- 3
8▼	14022	MC14022BALS	MOTA	OCTAL CNTR	185- 4
9♦	14022	MC14022BCL	MOTA	OCTAL CNTR	185- 5
10▼	14022	MC14022BCLD	MOTA	OCTAL CNTR	185- 6
11▼	14022	MC14022BCLDS	MOTA	OCTAL CNTR	185- 7
12▼	14022	MC14022BCLS	MOTA	OCTAL CNTR	185- 8
13♦	14022	MC14022BCP	MOTA	OCTAL CNTR	185- 9
14▼	14022	MC14022BCPD	MOTA	OCTAL CNTR	185- 10
15▼	14022	MC14022BCPDS	MOTA	OCTAL CNTR	185- 11
16▼	14022	MC14022BCPS	MOTA	OCTAL CNTR	185- 12
17▼	14022	MC14022BD	MOTA	OCTAL CNTR	185- 13
18♦	14023	MC14023BAL	MOTA	NAND GATE	103-106
19▼	14023	MC14023BALD	MOTA	NAND GATE	103-107
20▼	14023	MC14023BALDS	MOTA	NAND GATE	103-108
21▼	14023	MC14023BALS	MOTA	NAND GATE	103-109
22♦	14023	MC14023BCL	MOTA	NAND GATE	103-110
23▼	14023	MC14023BCLD	MOTA	NAND GATE	104- 1
24▼	14023	MC14023BCLDS	MOTA	NAND GATE	104- 2
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26▼	14023	MC14023BCPD	MOTA	NAND GATE	104- 4
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28▼	14023	MC14023BCPS	MOTA	NAND GATE	104- 6
29▼	14023	MC14023BD	MOTA	NAND GATE	104- 7
30♦	14023	MC14023UBAL	MOTA	NAND GATE	103- 37
31▼	14023	MC14023UBALD	MOTA	NAND GATE	103- 38
32▼	14023	MC14023UBALDS	MOTA	NAND GATE	103- 39
33▼	14023	MC14023UBALS	MOTA	NAND GATE	103- 40
34♦	14023	MC14023UBCL	MOTA	NAND GATE	103- 41
35▼	14023	MC14023UBCLD	MOTA	NAND GATE	103- 42
36▼	14023	MC14023UBCLDS	MOTA	NAND GATE	103- 43
37▼	14023	MC14023UBCLS	MOTA	NAND GATE	103- 44
38♦	14023	MC14023UBCP	MOTA	NAND GATE	103- 45
39▼	14023	MC14023UBCPD	MOTA	NAND GATE	103- 46
40▼	14023	MC14023UBCPDS	MOTA	NAND GATE	103- 47
41▼	14023	MC14023UBCPS	MOTA	NAND GATE	103- 48
42▼	14023	MC14023UBD	MOTA	NAND GATE	103- 49
43♦	14024	MC14024BAL	MOTA	COUNTER	168- 45
44▼	14024	MC14024BALD	MOTA	COUNTER	168- 46
45▼	14024	MC14024BALDS	MOTA	COUNTER	168- 47
46▼	14024	MC14024BALS	MOTA	COUNTER	168- 48
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49▼	14024	MC14024BCLDS	MOTA	COUNTER	168- 51
50▼	14024	MC14024BCLS	MOTA	COUNTER	168- 52
51♦	14024	MC14024BCP	MOTA	COUNTER	168- 53
52▼	14024	MC14024BCPD	MOTA	COUNTER	168- 54
53▼	14024	MC14024BCPDS	MOTA	COUNTER	168- 55
54▼	14024	MC14024BCPS	MOTA	COUNTER	168- 56
55▼	14024	MC14024BD	MOTA	COUNTER	168- 57
56♦	14025	MC14025BAL	MOTA	NOR GATE	116-110
57▼	14025	MC14025BALD	MOTA	NOR GATE	117- 1
58▼	14025	MC14025BALDS	MOTA	NOR GATE	117- 2
59▼	14025	MC14025BALS	MOTA	NOR GATE	117- 3
60♦	14025	MC14025BCL	MOTA	NOR GATE	117- 4
61▼	14025	MC14025BCLD	MOTA	NOR GATE	117- 5
62▼	14025	MC14025BCLDS	MOTA	NOR GATE	117- 6
63▼	14025	MC14025BCLS	MOTA	NOR GATE	117- 7
64♦	14025	MC14025BCP	MOTA	NOR GATE	117- 8
65▼	14025	MC14025BCPD	MOTA	NOR GATE	117- 9
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67▼	14025	MC14025BCPS	MOTA	NOR GATE	117- 11
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70▼	14025	MC14025UBALD	MOTA	NOR GATE	116- 57
71▼	14025	MC14025UBALDS	MOTA	NOR GATE	116- 58
72▼	14025	MC14025UBALS	MOTA	NOR GATE	116- 59
73♦	14025	MC14025UBCL	MOTA	NOR GATE	116- 60
74▼	14025	MC14025UBCLD	MOTA	NOR GATE	116- 61
75▼	14025	MC14025UBCLDS	MOTA	NOR GATE	116- 62
76▼	14025	MC14025UBCLS	MOTA	NOR GATE	116- 63
77♦	14025	MC14025UBCP	MOTA	NOR GATE	116- 64
78▼	14025	MC14025UBCPD	MOTA	NOR GATE	116- 65
79▼	14025	MC14025UBCPDS	MOTA	NOR GATE	116- 66
80▼	14025	MC14025UBCPS	MOTA	NOR GATE	116- 67
81▼	14025	MC14025UBD	MOTA	NOR GATE	116- 68
82♦	14027	MC14027BAL	MOTA	JK FL-FLOP	67- 94
83▼	14027	MC14027BALD	MOTA	JK FL-FLOP	67- 95
84▼	14027	MC14027BALDS	MOTA	JK FL-FLOP	67- 96
85▼	14027	MC14027BALS	MOTA	JK FL-FLOP	67- 97
86♦	14027	MC14027BCL	MOTA	JK FL-FLOP	67- 98
87▼	14027	MC14027BCLD	MOTA	JK FL-FLOP	67- 99
88▼	14027	MC14027BCLDS	MOTA	JK FL-FLOP	67-100
89▼	14027	MC14027BCLS	MOTA	JK FL-FLOP	67-101
90♦	14027	MC14027BCP	MOTA	JK FL-FLOP	67-102
91▼	14027	MC14027BCPD	MOTA	JK FL-FLOP	67-103
92▼	14027	MC14027BCPDS	MOTA	JK FL-FLOP	67-104
93▼	14027	MC14027BCPS	MOTA	JK FL-FLOP	67-105
94▼	14027	MC14027BD	MOTA	JK FL-FLOP	67-106
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184▼	14501	MC14501UBCPD	MOTA	MULTI-GATE	94-103
185▼	14501	MC14501UBCPDS	MOTA	MULTI-GATE	94-104
186▼	14501	MC14501UBCPS	MOTA	MULTI-GATE	94-105
187▼	14501	MC14501UBD	MOTA	MULTI-GATE	94-106
188♦	14506	MC14506BAL	MOTA	AND-OR-INV	85-108
189♦	14506	MC14506BCL	MOTA	AND-OR-INV	85-109
190♦	14506	MC14506BCP	MOTA	AND-OR-INV	85-110
191♦	14508	MC14508BAL	MOTA	4-BIT LCH	232- 17
192▼	14508	MC14508BALD	MOTA	4-BIT LCH	232- 18
193▼	14508	MC14508BALDS	MOTA	4-BIT LCH	232- 19
194▼	14508	MC14508BALS	MOTA	4-BIT LCH	232- 20
195♦	14508	MC14508BCL	MOTA	4-BIT LCH	232- 21
196▼	14508	MC14508BCLD	MOTA	4-BIT LCH	232- 22
197▼	14508	MC14508BCLDS	MOTA	4-BIT LCH	232- 23
198▼	14508	MC14508BCLS	MOTA	4-BIT LCH	232- 24
199♦	14508	MC14508BCP	MOTA	4-BIT LCH	232- 25
200▼	14508	MC14508BCPD	MOTA	4-BIT LCH	232- 26
201▼	14508	MC14508BCPDS	MOTA	4-BIT LCH	232- 27
202▼	14508	MC14508BCPS	MOTA	4-BIT LCH	232- 28
203♦	14510	MC14510BAL	MOTA	DEC CNTR	177- 89
204▼	14510	MC14510BALD	MOTA	DEC CNTR	177- 90
205▼	14510	MC14510BALDS	MOTA	DEC CNTR	177- 91
206▼	14510	MC14510BALS	MOTA	DEC CNTR	177- 92
207♦	14510	MC14510BCL	MOTA	DEC CNTR	177- 93
208▼	14510	MC14510BCLD	MOTA	DEC CNTR	177- 94
209▼	14510	MC14510BCLDS	MOTA	DEC CNTR	177- 95
210▼	14510	MC14510BCLS	MOTA	DEC CNTR	177- 96
211♦	14510	MC14510BCP	MOTA	DEC CNTR	177- 97
212▼	14510	MC14510BCPD	MOTA	DEC CNTR	177- 98
213▼	14510	MC14510BCPDS	MOTA	DEC CNTR	177- 99
214▼	14510	MC14510BCPS	MOTA	DEC CNTR	177-100
215▼	14510	MC14510BD	MOTA	DEC CNTR	177-101
216♦	14516	MC14516BAL	MOTA	HEX CNTR	160- 46
217▼	14516	MC14516BALD	MOTA	HEX CNTR	160- 47
218▼	14516	MC14516BALDS	MOTA	HEX CNTR	160- 48
219▼	14516	MC14516BALS	MOTA	HEX CNTR	160- 49
220♦	14516	MC14516BCL	MOTA	HEX CNTR	160- 50

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2▼	14516	MC14516BCLDS	MOTA	HEX CNTR	160- 52
3♦	14516	MC14516BCP	MOTA	HEX CNTR	160- 53
4▼	14516	MC14516BCPD	MOTA	HEX CNTR	160- 54
5▼	14516	MC14516BCPDS	MOTA	HEX CNTR	160- 55
6▼	14516	MC14516BCPS	MOTA	HEX CNTR	160- 56
7▼	14516	MC14516BD	MOTA	HEX CNTR	160- 57
8♦	14518	MC14518BAL	MOTA	DEC CNTR	181- 12
9▼	14518	MC14518BALD	MOTA	DEC CNTR	181- 13
10▼	14518	MC14518BALDS	MOTA	DEC CNTR	181- 14
11▼	14518	MC14518BALS	MOTA	DEC CNTR	181- 15
12♦	14518	MC14518BCL	MOTA	DEC CNTR	181- 16
13▼	14518	MC14518BCLD	MOTA	DEC CNTR	181- 17
14▼	14518	MC14518BCLDS	MOTA	DEC CNTR	181- 18
15▼	14518	MC14518BCLS	MOTA	DEC CNTR	181- 19
16♦	14518	MC14518BCP	MOTA	DEC CNTR	181- 20
17▼	14518	MC14518BCPD	MOTA	DEC CNTR	181- 21
18▼	14518	MC14518BCPDS	MOTA	DEC CNTR	181- 22
19▼	14518	MC14518BCPS	MOTA	DEC CNTR	181- 23
20▼	14518	MC14518BDW	MOTA	DEC CNTR	181- 24
21♦	14520	MC14520BAL	MOTA	HEX CNTR	164- 40
22▼	14520	MC14520BALD	MOTA	HEX CNTR	164- 41
23▼	14520	MC14520BALDS	MOTA	HEX CNTR	164- 42
24▼	14520	MC14520BALS	MOTA	HEX CNTR	164- 43
25♦	14520	MC14520BCL	MOTA	HEX CNTR	164- 44
26▼	14520	MC14520BCLD	MOTA	HEX CNTR	164- 45
27▼	14520	MC14520BCLDS	MOTA	HEX CNTR	164- 46
28▼	14520	MC14520BCLS	MOTA	HEX CNTR	164- 47
29♦	14520	MC14520BCP	MOTA	HEX CNTR	164- 48
30▼	14520	MC14520BCPD	MOTA	HEX CNTR	164- 49
31▼	14520	MC14520BCPDS	MOTA	HEX CNTR	164- 50
32▼	14520	MC14520BCPS	MOTA	HEX CNTR	164- 51
33▼	14520	MC14520BDW	MOTA	HEX CNTR	164- 52
34♦	14521	MC14521BAL	MOTA	FREQ DIVID	194- 21
35▼	14521	MC14521BALD	MOTA	FREQ DIVID	194- 22
36▼	14521	MC14521BALDS	MOTA	FREQ DIVID	194- 23
37▼	14521	MC14521BALS	MOTA	FREQ DIVID	194- 24
38♦	14521	MC14521BCL	MOTA	FREQ DIVID	194- 25
39▼	14521	MC14521BCLD	MOTA	FREQ DIVID	194- 26
40▼	14521	MC14521BCLDS	MOTA	FREQ DIVID	194- 27
41▼	14521	MC14521BCLS	MOTA	FREQ DIVID	194- 28
42♦	14521	MC14521BCP	MOTA	FREQ DIVID	194- 29
43▼	14521	MC14521BCPD	MOTA	FREQ DIVID	194- 30
44▼	14521	MC14521BCPDS	MOTA	FREQ DIVID	194- 31
45▼	14521	MC14521BCPS	MOTA	FREQ DIVID	194- 32
46▼	14521	MC14521BD	MOTA	FREQ DIVID	194- 33
47♦	14522	MC14522BAL	MOTA	DEC CNTR	176-109
48▼	14522	MC14522BALD	MOTA	DEC CNTR	176-110
49▼	14522	MC14522BALDS	MOTA	DEC CNTR	177- 1
50▼	14522	MC14522BALS	MOTA	DEC CNTR	177- 2
51♦	14522	MC14522BCL	MOTA	DEC CNTR	176-100
52▼	14522	MC14522BCLD	MOTA	DEC CNTR	176-101
53▼	14522	MC14522BCLDS	MOTA	DEC CNTR	176-102
54▼	14522	MC14522BCLS	MOTA	DEC CNTR	176-103
55♦	14522	MC14522BCP	MOTA	DEC CNTR	176-104
56▼	14522	MC14522BCPD	MOTA	DEC CNTR	176-105
57▼	14522	MC14522BCPDS	MOTA	DEC CNTR	176-106
58▼	14522	MC14522BCPS	MOTA	DEC CNTR	176-107
59▼	14522	MC14522BDW	MOTA	DEC CNTR	176-108
60♦	14526	MC14526BAL	MOTA	HEX CNTR	159- 54
61▼	14526	MC14526BALD	MOTA	HEX CNTR	159- 55
62▼	14526	MC14526BALDS	MOTA	HEX CNTR	159- 56
63▼	14526	MC14526BALS	MOTA	HEX CNTR	159- 57
64♦	14526	MC14526BCL	MOTA	HEX CNTR	159- 45
65▼	14526	MC14526BCLD	MOTA	HEX CNTR	159- 46
66▼	14526	MC14526BCLDS	MOTA	HEX CNTR	159- 47
67▼	14526	MC14526BCLS	MOTA	HEX CNTR	159- 48
68♦	14526	MC14526BCP	MOTA	HEX CNTR	159- 49
69▼	14526	MC14526BCPD	MOTA	HEX CNTR	159- 50
70▼	14526	MC14526BCPDS	MOTA	HEX CNTR	159- 51
71▼	14526	MC14526BCPS	MOTA	HEX CNTR	159- 52
72▼	14526	MC14526BDW	MOTA	HEX CNTR	159- 53
73♦	14527	MC14527BAL	MOTA	FREQ DIVID	197- 52
74▼	14527	MC14527BALD	MOTA	FREQ DIVID	197- 53
75▼	14527	MC14527BALDS	MOTA	FREQ DIVID	197- 54
76▼	14527	MC14527BALS	MOTA	FREQ DIVID	197- 55
77♦	14527	MC14527BCL	MOTA	FREQ DIVID	197- 43
78▼	14527	MC14527BCLD	MOTA	FREQ DIVID	197- 44
79▼	14527	MC14527BCLDS	MOTA	FREQ DIVID	197- 45
80▼	14527	MC14527BCLS	MOTA	FREQ DIVID	197- 46
81♦	14527	MC14527BCP	MOTA	FREQ DIVID	197- 47
82▼	14527	MC14527BCPD	MOTA	FREQ DIVID	197- 48
83▼	14527	MC14527BCPDS	MOTA	FREQ DIVID	197- 49
84▼	14527	MC14527BCPS	MOTA	FREQ DIVID	197- 50
85▼	14527	MC14527BDW	MOTA	FREQ DIVID	197- 51
86♦	14528	MC14528BAL	MOTA	CLOCK/MV	190- 60
87▼	14528	MC14528BALD	MOTA	CLOCK/MV	190- 61
88▼	14528	MC14528BALDS	MOTA	CLOCK/MV	190- 62
89▼	14528	MC14528BALS	MOTA	CLOCK/MV	190- 63
90♦	14528	MC14528BCL	MOTA	CLOCK/MV	190- 64
91▼	14528	MC14528BCLD	MOTA	CLOCK/MV	190- 65
92▼	14528	MC14528BCLDS	MOTA	CLOCK/MV	190- 66
93▼	14528	MC14528BCLS	MOTA	CLOCK/MV	190- 67
94♦	14528	MC14528BCP	MOTA	CLOCK/MV	190- 68
95▼	14528	MC14528BCPD	MOTA	CLOCK/MV	190- 69
96▼	14528	MC14528BCPDS	MOTA	CLOCK/MV	190- 70
97▼	14528	MC14528BCPS	MOTA	CLOCK/MV	190- 71
98▼	14528	MC14528BD	MOTA	CLOCK/MV	190- 72
99♦	14530	MC14530BAL	MOTA	SPECIAL	245- 95
100▼	14530	MC14530BALD	MOTA	SPECIAL	245- 96
101▼	14530	MC14530BALDS	MOTA	SPECIAL	245- 97
102▼	14530	MC14530BALS	MOTA	SPECIAL	245- 98
103♦	14530	MC14530BCL	MOTA	SPECIAL	245- 99
104▼	14530	MC14530BCLD	MOTA	SPECIAL	245-100
105▼	14530	MC14530BCLDS	MOTA	SPECIAL	245-101
106▼	14530	MC14530BCLS	MOTA	SPECIAL	245-102
107♦	14530	MC14530BCP	MOTA	SPECIAL	245-103
108▼	14530	MC14530BCPD	MOTA	SPECIAL	245-104
109▼	14530	MC14530BCPDS	MOTA	SPECIAL	245-105
110▼	14530	MC14530BCPS	MOTA	SPECIAL	245-106
111▼	14530	MC14530BD	MOTA	SPECIAL	245-107
112♦	14531	MC14531BAL	MOTA	PARITY GEN	228- 19
113▼	14531	MC14531BALD	MOTA	PARITY GEN	228- 20
114▼	14531	MC14531BALDS	MOTA	PARITY GEN	228- 21
115▼	14531	MC14531BALS	MOTA	PARITY GEN	228- 22
116♦	14531	MC14531BCL	MOTA	PARITY GEN	228- 23
117▼	14531	MC14531BCLD	MOTA	PARITY GEN	228- 24
118▼	14531	MC14531BCLDS	MOTA	PARITY GEN	228- 25
119▼	14531	MC14531BCLS	MOTA	PARITY GEN	228- 26
120♦	14531	MC14531BCP	MOTA	PARITY GEN	228- 27
121▼	14531	MC14531BCPD	MOTA	PARITY GEN	228- 28
122▼	14531	MC14531BCPDS	MOTA	PARITY GEN	228- 29
123▼	14531	MC14531BCPS	MOTA	PARITY GEN	228- 30
124▼	14531	MC14531BD	MOTA	PARITY GEN	228- 31
125♦	14534	MC14534BAL	MOTA	DEC CNTR	182- 87
126▼	14534	MC14534BALD	MOTA	DEC CNTR	182- 88
127▼	14534	MC14534BALDS	MOTA	DEC CNTR	182- 89
128▼	14534	MC14534BALS	MOTA	DEC CNTR	182- 90
129♦	14534	MC14534BCL	MOTA	DEC CNTR	182- 91
130▼	14534	MC14534BCLD	MOTA	DEC CNTR	182- 92
131▼	14534	MC14534BCLDS	MOTA	DEC CNTR	182- 93
132▼	14534	MC14534BCLS	MOTA	DEC CNTR	182- 94
133♦	14534	MC14534BCP	MOTA	DEC CNTR	182- 95
134▼	14534	MC14534BCPD	MOTA	DEC CNTR	182- 96
135▼	14534	MC14534BCPDS	MOTA	DEC CNTR	182- 97
136▼	14534	MC14534BCPS	MOTA	DEC CNTR	182- 98
137♦	14538	MC14538BAL	MOTA	CLOCK/MV	190- 73
138▼	14538	MC14538BALD	MOTA	CLOCK/MV	190- 74
139▼	14538	MC14538BALDS	MOTA	CLOCK/MV	190- 75
140▼	14538	MC14538BALS	MOTA	CLOCK/MV	190- 76
141♦	14538	MC14538BCL	MOTA	CLOCK/MV	190- 77
142▼	14538	MC14538BCLD	MOTA	CLOCK/MV	190- 78
143▼	14538	MC14538BCLDS	MOTA	CLOCK/MV	190- 79
144▼	14538	MC14538BCLS	MOTA	CLOCK/MV	190- 80
145♦	14538	MC14538BCP	MOTA	CLOCK/MV	190- 81
146▼	14538	MC14538BCPD	MOTA	CLOCK/MV	190- 82
147▼	14538	MC14538BCPDS	MOTA	CLOCK/MV	190- 83
148▼	14538	MC14538BCPS	MOTA	CLOCK/MV	190- 84
149▼	14538	MC14538BDW	MOTA	CLOCK/MV	190- 85
150♦	14553	MC14553BAL	MOTA	DEC CNTR	182- 66
151▼	14553	MC14553BALD	MOTA	DEC CNTR	182- 67
152▼	14553	MC14553BALDS	MOTA	DEC CNTR	182- 68
153▼	14553	MC14553BALS	MOTA	DEC CNTR	182- 69
154♦	14553	MC14553BCL	MOTA	DEC CNTR	182- 70
155▼	14553	MC14553BCLD	MOTA	DEC CNTR	182- 71
156▼	14553	MC14553BCLDS	MOTA	DEC CNTR	182- 72
157▼	14553	MC14553BCLS	MOTA	DEC CNTR	182- 73
158♦	14553	MC14553BCP	MOTA	DEC CNTR	182- 74
159▼	14553	MC14553BCPD	MOTA	DEC CNTR	182- 75
160▼	14553	MC14553BCPDS	MOTA	DEC CNTR	182- 76
161▼	14553	MC14553BCPS	MOTA	DEC CNTR	182- 77
162▼	14553	MC14553BDW	MOTA	DEC CNTR	182- 78
163♦	14554	MC14554BAL	MOTA	MULTIPLIER	202- 10
164▼	14554	MC14554BALD	MOTA	MULTIPLIER	202- 11
165▼	14554	MC14554BALDS	MOTA	MULTIPLIER	202- 12
166▼	14554	MC14554BALS	MOTA	MULTIPLIER	202- 13
167♦	14554	MC14554BCL	MOTA	MULTIPLIER	202- 14
168▼	14554	MC14554BCLD	MOTA	MULTIPLIER	202- 15
169▼	14554	MC14554BCLDS	MOTA	MULTIPLIER	202- 16
170▼	14554	MC14554BCLS	MOTA	MULTIPLIER	202- 17
171♦	14554	MC14554BCP	MOTA	MULTIPLIER	202- 18
172▼	14554	MC14554BCPD	MOTA	MULTIPLIER	202- 19
173▼	14554	MC14554BCPDS	MOTA	MULTIPLIER	202- 20
174▼	14554	MC14554BCPS	MOTA	MULTIPLIER	202- 21
175▼	14554	MC14554BD	MOTA	MULTIPLIER	202- 22
176♦	14560	MC14560BAL	MOTA	ADDER	201- 49
177▼	14560	MC14560BALD	MOTA	ADDER	201- 50
178▼	14560	MC14560BALDS	MOTA	ADDER	201- 51
179▼	14560	MC14560BALS	MOTA	ADDER	201- 52
180♦	14560	MC14560BCL	MOTA	ADDER	201- 67
181▼	14560	MC14560BCLD	MOTA	ADDER	201- 68
182▼	14560	MC14560BCLDS	MOTA	ADDER	201- 69
183▼	14560	MC14560BCLS	MOTA	ADDER	201- 70
184♦	14560	MC14560BCP	MOTA	ADDER	201- 71
185▼	14560	MC14560BCPD	MOTA	ADDER	201- 72
186▼	14560	MC14560BCPDS	MOTA	ADDER	201- 73
187▼	14560	MC14560BCPS	MOTA	ADDER	201- 74
188▼	14560	MC14560BD	MOTA	ADDER	201- 75
189♦	14561	HD14561B	HITJ	ADDER	201- 94
190♦	14566	HD14566B	HITJ	SPECIAL	246- 45
191♦	14566	MC14566BAL	MOTA	SPECIAL	246-110
192▼	14566	MC14566BALD	MOTA	SPECIAL	247- 1
193▼	14566	MC14566BALDS	MOTA	SPECIAL	247- 2
194▼	14566	MC14566BALS	MOTA	SPECIAL	247- 3
195♦	14566	MC14566BCL	MOTA	SPECIAL	247- 4
196▼	14566	MC14566BCLD	MOTA	SPECIAL	247- 5
197▼	14566	MC14566BCLDS	MOTA	SPECIAL	247- 6
198▼	14566	MC14566BCLS	MOTA	SPECIAL	247- 7
199♦	14566	MC14566BCP	MOTA	SPECIAL	247- 8
200▼	14566	MC14566BCPD	MOTA	SPECIAL	247- 9
201▼	14566	MC14566BCPDS	MOTA	SPECIAL	247- 10
202▼	14566	MC14566BCPS	MOTA	SPECIAL	247- 11
203▼	14566	MC14566BD	MOTA	SPECIAL	247- 12
204♦	14568	HD14568B	HITJ	FREQ DIVID	196- 26
205♦	14568	MC14568BAL	MOTA	FREQ DIVID	196- 4
206▼	14568	MC14568BALD	MOTA	FREQ DIVID	196- 5
207▼	14568	MC14568BALDS	MOTA	FREQ DIVID	196- 6
208▼	14568	MC14568BALS	MOTA	FREQ DIVID	196- 7
209♦	14568	MC14568BCL	MOTA	FREQ DIVID	196- 8
210▼	14568	MC14568BCLD	MOTA	FREQ DIVID	196- 9
211▼	14568	MC14568BCLDS	MOTA	FREQ DIVID	196- 10
212▼	14568	MC14568BCLS	MOTA	FREQ DIVID	196- 11
213♦	14568	MC14568BCP	MOTA	FREQ DIVID	196- 12
214▼	14568	MC14568BCPD	MOTA	FREQ DIVID	196- 13
215▼	14568	MC14568BCPDS	MOTA	FREQ DIVID	196- 14
216▼	14568	MC14568BCPS	MOTA	FREQ DIVID	196- 15
217▼	14568	MC14568BD	MOTA	FREQ DIVID	196- 16
218♦	14569	MC14569BAL	MOTA	FREQ DIVID	196- 27
219▼	14569	MC14569BALD	MOTA	FREQ DIVID	196- 28
220▼	14569	MC14569BALDS	MOTA	FREQ DIVID	196- 29

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2♦	14569	MC14569BCL	MOTA	FREQ DIVID	196- 31
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4▼	14569	MC14569BCLDS	MOTA	FREQ DIVID	196- 33
5▼	14569	MC14569BCLS	MOTA	FREQ DIVID	196- 34
6♦	14569	MC14569BCP	MOTA	FREQ DIVID	196- 35
7▼	14569	MC14569BCPD	MOTA	FREQ DIVID	196- 36
8▼	14569	MC14569BCPDS	MOTA	FREQ DIVID	196- 37
9▼	14569	MC14569BCPS	MOTA	FREQ DIVID	196- 38
10▼	14569	MC14569BDW	MOTA	FREQ DIVID	196- 39
11♦	14572	MC14572UBAL	MOTA	SPECIAL	245-108
12▼	14572	MC14572UBALD	MOTA	SPECIAL	245-109
13▼	14572	MC14572UBALDS	MOTA	SPECIAL	245-110
14▼	14572	MC14572UBALS	MOTA	SPECIAL	246- 1
15♦	14572	MC14572UBCL	MOTA	SPECIAL	246- 2
16▼	14572	MC14572UBCLD	MOTA	SPECIAL	246- 3
17▼	14572	MC14572UBCLDS	MOTA	SPECIAL	246- 4
18▼	14572	MC14572UBCLS	MOTA	SPECIAL	246- 5
19♦	14572	MC14572UBCP	MOTA	SPECIAL	246- 6
20▼	14572	MC14572UBCPD	MOTA	SPECIAL	246- 7
21▼	14572	MC14572UBCPDS	MOTA	SPECIAL	246- 8
22▼	14572	MC14572UBCPS	MOTA	SPECIAL	246- 9
23▼	14572	MC14572UBD	MOTA	SPECIAL	246- 10
24♦	14581	MC14581BAL	MOTA	4-BIT ALU	222- 94
25▼	14581	MC14581BALD	MOTA	4-BIT ALU	222- 95
26▼	14581	MC14581BALDS	MOTA	4-BIT ALU	222- 96
27▼	14581	MC14581BALS	MOTA	4-BIT ALU	222- 97
28♦	14581	MC14581BCL	MOTA	4-BIT ALU	222-101
29▼	14581	MC14581BCLD	MOTA	4-BIT ALU	222-102
30▼	14581	MC14581BCLDS	MOTA	4-BIT ALU	222-103
31▼	14581	MC14581BCLS	MOTA	4-BIT ALU	222-104
32♦	14581	MC14581BCP	MOTA	4-BIT ALU	222-105
33▼	14581	MC14581BCPD	MOTA	4-BIT ALU	222-106
34▼	14581	MC14581BCPDS	MOTA	4-BIT ALU	222-107
35▼	14581	MC14581BCPS	MOTA	4-BIT ALU	222-108
36♦	14582	MC14582BAL	MOTA	PARITY GEN	225- 72
37▼	14582	MC14582BALD	MOTA	PARITY GEN	225- 73
38▼	14582	MC14582BALDS	MOTA	PARITY GEN	225- 74
39▼	14582	MC14582BALS	MOTA	PARITY GEN	225- 75
40♦	14582	MC14582BCL	MOTA	PARITY GEN	225- 76
41▼	14582	MC14582BCLD	MOTA	PARITY GEN	225- 77
42▼	14582	MC14582BCLDS	MOTA	PARITY GEN	225- 78
43▼	14582	MC14582BCLS	MOTA	PARITY GEN	225- 79
44♦	14582	MC14582BCP	MOTA	PARITY GEN	225- 80
45▼	14582	MC14582BCPD	MOTA	PARITY GEN	225- 81
46▼	14582	MC14582BCPDS	MOTA	PARITY GEN	225- 82
47▼	14582	MC14582BCPS	MOTA	PARITY GEN	225- 83
48▼	14582	MC14582BD	MOTA	PARITY GEN	225- 84
49♦	14585	HD14585B	HITJ	MAGN COMP	217- 95
50♦	14585	MC14585BAL	MOTA	MAGN COMP	217- 70
51▼	14585	MC14585BALD	MOTA	MAGN COMP	217- 71
52▼	14585	MC14585BALDS	MOTA	MAGN COMP	217- 72
53▼	14585	MC14585BALS	MOTA	MAGN COMP	217- 73
54♦	14585	MC14585BCL	MOTA	MAGN COMP	217- 77
55▼	14585	MC14585BCLD	MOTA	MAGN COMP	217- 78
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168	40101	*HCC40101BK	SGSI	PARITY GEN	227- 65
169♦	40101	HCF40101BE	SGSI	PARITY GEN	227- 66
170♦	40101	HCF40101BF	SGSI	PARITY GEN	227- 67
171♦	40102	CD40102BD	RCA	COUNTER	169- 32
172♦	40102	CD40102BE	RCA	COUNTER	169- 33
173♦	40102	CD40102BF	RCA	COUNTER	169- 34
174♦	40102	HCC40102BD	SGSI	COUNTER	169- 22
175♦	40102	HCC40102BF	SGSI	COUNTER	169- 23
176♦	40102	*HCC40102BK	SGSI	COUNTER	169- 24
177♦	40102	HCF40102BE	SGSI	COUNTER	169- 28
178♦	40102	HCF40102BF	SGSI	COUNTER	169- 29
179♦	40102	TC40102BP	TOSJ	COUNTER	169- 38
180♦	40103	CD40103BD	RCA	COUNTER	169- 35
181♦	40103	CD40103BE	RCA	COUNTER	169- 36
182♦	40103	CD40103BF	RCA	COUNTER	169- 37
183♦	40103	HCC40103BD	SGSI	COUNTER	169- 25
184♦	40103	HCC40103BF	SGSI	COUNTER	169- 26
185♦	40103	*HCC40103BK	SGSI	COUNTER	169- 27
186♦	40103	HCF40103BE	SGSI	COUNTER	169- 30
187♦	40103	HCF40103BF	SGSI	COUNTER	169- 31
188♦	40103	TC40103BP	TOSJ	COUNTER	167- 67
189♦	40107	CD40107BD	RCA	NAND GATE	95- 45
190♦	40160	40160BDC	FSC	DEC CNTR	172- 87
191♦	40160	40160BDM	FSC	DEC CNTR	172- 88
192♦	40160	*40160BFC	FSC	DEC CNTR	172- 89
193♦	40160	*40160BFM	FSC	DEC CNTR	172- 90
194♦	40160	40160BPC	FSC	DEC CNTR	172- 91
195♦	40160	CD40160BCJ	NSC	DEC CNTR	172- 79
196♦	40160	CD40160BCN	NSC	DEC CNTR	172- 80
197♦	40160	CD40160BD	RCA	DEC CNTR	173- 17
198♦	40160	CD40160BE	RCA	DEC CNTR	173- 18
199♦	40160	CD40160BF	RCA	DEC CNTR	173- 19
200♦	40160	CD40160BMJ	NSC	DEC CNTR	172- 81
201♦	40160	*CD40160BMW	NSC	DEC CNTR	172- 82
202♦	40160	HCC40160BD	SGSI	DEC CNTR	173- 49
203♦	40160	HCC40160BF	SGSI	DEC CNTR	173- 50
204♦	40160	*HCC40160BK	SGSI	DEC CNTR	173- 51
205♦	40160	HCF40160BE	SGSI	DEC CNTR	173- 55
206♦	40160	HCF40160BF	SGSI	DEC CNTR	173- 56
207♦	40160	HEF40160	RTCF	DEC CNTR	173- 87
208♦	40160	HEF40160B	VALG	DEC CNTR	173- 59
209♦	40160	HEF40160BD	MULB	DEC CNTR	173- 74
210♦	40160	HEF40160BD	PHIN	DEC CNTR	173- 74
211♦	40160	HEF40160BD	RTCF	DEC CNTR	173- 74
212♦	40160	HEF40160BD	VALG	DEC CNTR	173- 74
213♦	40160	HEF40160BP	MULB	DEC CNTR	173- 75
214♦	40160	HEF40160BP	PHIN	DEC CNTR	173- 75
215♦	40160	HEF40160BP	RTCF	DEC CNTR	173- 75
216♦	40160	HEF40160BP	VALG	DEC CNTR	173- 75
217♦	40160	HEF40160BPN	SIC	DEC CNTR	173- 88
218♦	40160	*HEF40160BT	MULB	DEC CNTR	173- 76
219♦	40160	*HEF40160BT	PHIN	DEC CNTR	173- 76
220♦	40160	*HEF40160BT	RTCF	DEC CNTR	173- 76

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LINE No.	1 GENERIC NUMBER	2 MANUFACTURER TYPE NUMBER	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1♦	40160	*HEF40160BT	VALG	DEC CNTR	173- 76
2♦	40160	*HEF40160BTD	SIC	DEC CNTR	175- 46
3♦	40160	M40160BP	MITJ	DEC CNTR	172- 71
4♦	40160	TC40160BP	IMTM	DEC CNTR	172- 73
5♦	40160	TC40160BP	TOSJ	DEC CNTR	172- 73
6♦	40161	40161BDC	FSC	HEX CNTR	154- 65
7♦	40161	40161BDM	FSC	HEX CNTR	154- 66
8♦	40161	*40161BFC	FSC	HEX CNTR	154- 67
9♦	40161	*40161BFM	FSC	HEX CNTR	154- 68
10♦	40161	40161BPC	FSC	HEX CNTR	154- 69
11♦	40161	CD40161BCJ	NSC	HEX CNTR	154- 57
12♦	40161	CD40161BCN	NSC	HEX CNTR	154- 58
13♦	40161	CD40161BD	RCA	HEX CNTR	154-101
14♦	40161	CD40161BE	RCA	HEX CNTR	154-102
15♦	40161	CD40161BF	RCA	HEX CNTR	154-103
16♦	40161	CD40161BMJ	NSC	HEX CNTR	154- 59
17♦	40161	*CD40161BMW	NSC	HEX CNTR	154- 60
18♦	40161	HCC40161BD	SGSI	HEX CNTR	155- 23
19♦	40161	HCC40161BF	SGSI	HEX CNTR	155- 24
20♦	40161	*HCC40161BK	SGSI	HEX CNTR	155- 25
21♦	40161	HCF40161BE	SGSI	HEX CNTR	155- 29
22♦	40161	HCF40161BF	SGSI	HEX CNTR	155- 30
23♦	40161	HEF40161	RTCF	HEX CNTR	155- 70
24♦	40161	HEF40161B	VALG	HEX CNTR	155- 33
25♦	40161	HEF40161BD	MULB	HEX CNTR	155- 46
26♦	40161	HEF40161BD	PHIN	HEX CNTR	155- 46
27♦	40161	HEF40161BD	RTCF	HEX CNTR	155- 46
28♦	40161	HEF40161BD	VALG	HEX CNTR	155- 46
29♦	40161	HEF40161BP	MULB	HEX CNTR	155- 47
30♦	40161	HEF40161BP	PHIN	HEX CNTR	155- 47
31♦	40161	HEF40161BP	RTCF	HEX CNTR	155- 47
32♦	40161	HEF40161BP	VALG	HEX CNTR	155- 47
33♦	40161	HEF40161BPN	SIC	HEX CNTR	155- 71
34♦	40161	*HEF40161BT	MULB	HEX CNTR	155- 48
35♦	40161	*HEF40161BT	PHIN	HEX CNTR	155- 48
36♦	40161	*HEF40161BT	RTCF	HEX CNTR	155- 48
37♦	40161	*HEF40161BT	VALG	HEX CNTR	155- 48
38♦	40161	*HEF40161BTD	SIC	HEX CNTR	157- 83
39♦	40161	M40161BP	MITJ	HEX CNTR	154- 48
40♦	40161	MN40161B	MATJ	HEX CNTR	157- 85
41♦	40161	TC40161BP	IMTM	HEX CNTR	154- 50
42♦	40161	TC40161BP	TOSJ	HEX CNTR	154- 50
43♦	40162	40162BDC	FSC	DEC CNTR	172- 92
44♦	40162	40162BDM	FSC	DEC CNTR	172- 93
45♦	40162	*40162BFC	FSC	DEC CNTR	172- 94
46♦	40162	*40162BFM	FSC	DEC CNTR	172- 95
47♦	40162	40162BPC	FSC	DEC CNTR	172- 96
48♦	40162	CD40162BCJ	NSC	DEC CNTR	172- 83
49♦	40162	CD40162BCN	NSC	DEC CNTR	172- 84
50♦	40162	CD40162BD	RCA	DEC CNTR	173- 20
51♦	40162	CD40162BE	RCA	DEC CNTR	173- 21
52♦	40162	CD40162BF	RCA	DEC CNTR	173- 22
53♦	40162	CD40162BMJ	NSC	DEC CNTR	172- 85
54♦	40162	*CD40162BMW	NSC	DEC CNTR	172- 86
55♦	40162	HCC40162BD	SGSI	DEC CNTR	173- 52
56♦	40162	HCC40162BF	SGSI	DEC CNTR	173- 53
57♦	40162	*HCC40162BK	SGSI	DEC CNTR	173- 54
58♦	40162	HCF40162BE	SGSI	DEC CNTR	173- 57
59♦	40162	HCF40162BF	SGSI	DEC CNTR	173- 58
60♦	40162	HEF40162	RTCF	DEC CNTR	173- 89
61♦	40162	HEF40162B	VALG	DEC CNTR	173- 60
62♦	40162	HEF40162BD	MULB	DEC CNTR	173- 77
63♦	40162	HEF40162BD	PHIN	DEC CNTR	173- 77
64♦	40162	HEF40162BD	RTCF	DEC CNTR	173- 77
65♦	40162	HEF40162BD	VALG	DEC CNTR	173- 77
66♦	40162	HEF40162BP	MULB	DEC CNTR	173- 78
67♦	40162	HEF40162BP	PHIN	DEC CNTR	173- 78
68♦	40162	HEF40162BP	RTCF	DEC CNTR	173- 78
69♦	40162	HEF40162BP	VALG	DEC CNTR	173- 78
70♦	40162	HEF40162BPN	SIC	DEC CNTR	173- 90
71♦	40162	*HEF40162BT	MULB	DEC CNTR	173- 79
72♦	40162	*HEF40162BT	PHIN	DEC CNTR	173- 79
73♦	40162	*HEF40162BT	RTCF	DEC CNTR	173- 79
74♦	40162	*HEF40162BT	VALG	DEC CNTR	173- 79
75♦	40162	*HEF40162BTD	SIC	DEC CNTR	175- 47
76♦	40162	M40162BP	MITJ	DEC CNTR	172- 72
77♦	40162	TC40162BP	IMTM	DEC CNTR	172- 74
78♦	40162	TC40162BP	TOSJ	DEC CNTR	172- 74
79♦	40163	40163BDC	FSC	HEX CNTR	154- 70
80♦	40163	40163BDM	FSC	HEX CNTR	154- 71
81♦	40163	*40163BFC	FSC	HEX CNTR	154- 72
82♦	40163	*40163BFM	FSC	HEX CNTR	154- 73
83♦	40163	40163BPC	FSC	HEX CNTR	154- 74
84♦	40163	CD40163BCJ	NSC	HEX CNTR	154- 61
85♦	40163	CD40163BCN	NSC	HEX CNTR	154- 62
86♦	40163	CD40163BD	RCA	HEX CNTR	154-104
87♦	40163	CD40163BE	RCA	HEX CNTR	154-105
88♦	40163	CD40163BF	RCA	HEX CNTR	154-106
89♦	40163	CD40163BMJ	NSC	HEX CNTR	154- 63
90♦	40163	*CD40163BMW	NSC	HEX CNTR	154- 64
91♦	40163	HCC40163BD	SGSI	HEX CNTR	155- 26
92♦	40163	HCC40163BF	SGSI	HEX CNTR	155- 27
93♦	40163	*HCC40163BK	SGSI	HEX CNTR	155- 28
94♦	40163	HCF40163BE	SGSI	HEX CNTR	155- 31
95♦	40163	HCF40163BF	SGSI	HEX CNTR	155- 32
96♦	40163	HEF40163	RTCF	HEX CNTR	155- 72
97♦	40163	HEF40163B	VALG	HEX CNTR	155- 34
98♦	40163	HEF40163BD	MULB	HEX CNTR	155- 49
99♦	40163	HEF40163BD	PHIN	HEX CNTR	155- 49
100♦	40163	HEF40163BD	RTCF	HEX CNTR	155- 49
101♦	40163	HEF40163BD	VALG	HEX CNTR	155- 49
102♦	40163	HEF40163BP	MULB	HEX CNTR	155- 50
103♦	40163	HEF40163BP	PHIN	HEX CNTR	155- 50
104♦	40163	HEF40163BP	RTCF	HEX CNTR	155- 50
105♦	40163	HEF40163BP	VALG	HEX CNTR	155- 50
106♦	40163	HEF40163BPN	SIC	HEX CNTR	155- 73
107♦	40163	*HEF40163BT	MULB	HEX CNTR	155- 51
108♦	40163	*HEF40163BT	PHIN	HEX CNTR	155- 51
109♦	40163	*HEF40163BT	RTCF	HEX CNTR	155- 51
110♦	40163	*HEF40163BT	VALG	HEX CNTR	155- 51
111♦	40163	*HEF40163BTD	SIC	HEX CNTR	157- 84
112♦	40163	M40163BP	MITJ	HEX CNTR	154- 49
113♦	40163	TC40163BP	IMTM	HEX CNTR	154- 51
114♦	40163	TC40163BP	TOSJ	HEX CNTR	154- 51
115	40174	CD40174BC	NSC	D FL-FLOP	56- 6
116	40174	CD40174BD(1)	RCA	D FL-FLOP	56- 8
117	40174	CD40174BE(1)	RCA	D FL-FLOP	56- 9
118	40174	CD40174BF(1)	RCA	D FL-FLOP	56- 10
119	40174	CD40174BM	NSC	D FL-FLOP	56- 7
120♦	40174	HCC40174BD	SGSI	D FL-FLOP	56- 16
121♦	40174	HCC40174BF	SGSI	D FL-FLOP	56- 17
122	40174	*HCC40174BK	SGSI	D FL-FLOP	56- 18
123♦	40174	HCF40174BE	SGSI	D FL-FLOP	56- 19
124♦	40174	HCF40174BF	SGSI	D FL-FLOP	56- 20
125♦	40174	HEF40174BD(1)	MULB	D FL-FLOP	56- 66
126♦	40174	HEF40174BD(1)	PHIN	D FL-FLOP	56- 66
127♦	40174	HEF40174BD(1)	RTCF	D FL-FLOP	56- 66
128♦	40174	HEF40174BD(1)	VALG	D FL-FLOP	56- 66
129♦	40174	HEF40174BP(1)	MULB	D FL-FLOP	56- 67
130♦	40174	HEF40174BP(1)	PHIN	D FL-FLOP	56- 67
131♦	40174	HEF40174BP(1)	RTCF	D FL-FLOP	56- 67
132♦	40174	HEF40174BP(1)	VALG	D FL-FLOP	56- 67
133♦	40174	HEF40174BPN	SIC	D FL-FLOP	56-110
134	40174	*HEF40174BT	MULB	D FL-FLOP	56- 68
135	40174	*HEF40174BT	PHIN	D FL-FLOP	56- 68
136	40174	*HEF40174BT	RTCF	D FL-FLOP	56- 68
137	40174	*HEF40174BT	VALG	D FL-FLOP	56- 68
138▼	40174	*HEF40174BT(1)	PHIN	D FL-FLOP	56- 69
139	40174	*HEF40174BTD	SIC	D FL-FLOP	57- 1
140♦	40174	HEF40174P(1)	MULB	D FL-FLOP	56- 21
141♦	40174	HEF40174P(1)	PHIN	D FL-FLOP	56- 21
142♦	40174	HEF40174P(1)	VALG	D FL-FLOP	56- 21
143♦	40174	M40174BP	MITJ	D FL-FLOP	56- 4
144♦	40174	TC40174BP	IMTM	D FL-FLOP	56- 5
145♦	40174	TC40174BP	TOSJ	D FL-FLOP	56- 5
146	40175	CD40175BC	NSC	D FL-FLOP	54- 6
147	40175	CD40175BD	RCA	D FL-FLOP	54- 11
148	40175	CD40175BE	RCA	D FL-FLOP	54- 12
149	40175	CD40175BF	RCA	D FL-FLOP	54- 13
150	40175	*CD40175BK	RCA	D FL-FLOP	54- 14
151	40175	CD40175BM	NSC	D FL-FLOP	54- 7
152♦	40175	HEF40175BD(1)	MULB	D FL-FLOP	54-104
153♦	40175	HEF40175BD(1)	PHIN	D FL-FLOP	54-104
154♦	40175	HEF40175BD(1)	RTCF	D FL-FLOP	54-104
155♦	40175	HEF40175BD(1)	VALG	D FL-FLOP	54-104
156♦	40175	HEF40175BP(1)	MULB	D FL-FLOP	54-105
157♦	40175	HEF40175BP(1)	PHIN	D FL-FLOP	54-105
158♦	40175	HEF40175BP(1)	RTCF	D FL-FLOP	54-105
159♦	40175	HEF40175BP(1)	VALG	D FL-FLOP	54-105
160♦	40175	HEF40175BPN	SIC	D FL-FLOP	55- 36
161	40175	*HEF40175BT	MULB	D FL-FLOP	54-106
162	40175	*HEF40175BT	PHIN	D FL-FLOP	54-106
163	40175	*HEF40175BT	RTCF	D FL-FLOP	54-106
164	40175	*HEF40175BT	VALG	D FL-FLOP	54-106
165▼	40175	*HEF40175BT(1)	PHIN	D FL-FLOP	54-107
166	40175	*HEF40175BTD	SIC	D FL-FLOP	55- 37
167♦	40175	HEF40175P(1)	MULB	D FL-FLOP	54- 24
168♦	40175	HEF40175P(1)	PHIN	D FL-FLOP	54- 24
169♦	40175	HEF40175P(1)	VALG	D FL-FLOP	54- 24
170♦	40175	M40175BP	MITJ	D FL-FLOP	54- 4
171♦	40175	TC40175BP	IMTM	D FL-FLOP	54- 5
172♦	40175	TC40175BP	TOSJ	D FL-FLOP	54- 5
173	40181	CD40181BD	RCA	4-BIT ALU	222- 90
174	40181	CD40181BE	RCA	4-BIT ALU	222- 91
175	40181	CD40181BF	RCA	4-BIT ALU	222- 92
176	40182	CD40182BD	RCA	PARITY GEN	225- 85
177	40182	CD40182BE	RCA	PARITY GEN	225- 86
178	40182	CD40182BF	RCA	PARITY GEN	225- 87
179♦	40182	HCC40182BD	SGSI	PARITY GEN	225- 65
180	40182	HCC40182BF	SGSI	PARITY GEN	225- 66
181♦	40182	HCC40182BK	SGSI	PARITY GEN	225- 67
182♦	40182	HCF40182BE	SGSI	PARITY GEN	225- 68
183	40182	HCF40182BF	SGSI	PARITY GEN	225- 69
184♦	40192	40192BDC	FSC	DEC CNTR	177- 63
185♦	40192	40192BDM	FSC	DEC CNTR	177- 64
186♦	40192	*40192BFC	FSC	DEC CNTR	177- 65
187♦	40192	*40192BFM	FSC	DEC CNTR	177- 66
188♦	40192	40192BPC	FSC	DEC CNTR	177- 67
189♦	40192	CD40192BCJ	NSC	DEC CNTR	177- 81
190♦	40192	CD40192BCN	NSC	DEC CNTR	177- 82
191♦	40192	CD40192BD	RCA	DEC CNTR	177- 85
192♦	40192	CD40192BE	RCA	DEC CNTR	177- 86
193♦	40192	CD40192BF	RCA	DEC CNTR	177- 87
194♦	40192	CD40192BMJ	NSC	DEC CNTR	177- 83
195♦	40192	*CD40192BMW	NSC	DEC CNTR	177- 84
196♦	40192	HEF40192	RTCF	DEC CNTR	178- 18
197♦	40192	HEF40192BD	MULB	DEC CNTR	178- 23
198♦	40192	HEF40192BD	PHIN	DEC CNTR	178- 23
199♦	40192	HEF40192BD	RTCF	DEC CNTR	178- 23
200♦	40192	HEF40192BD	VALG	DEC CNTR	178- 23
201♦	40192	HEF40192BP	MULB	DEC CNTR	178- 24
202♦	40192	HEF40192BP	PHIN	DEC CNTR	178- 24
203♦	40192	HEF40192BP	RTCF	DEC CNTR	178- 24
204♦	40192	HEF40192BP	VALG	DEC CNTR	178- 24
205♦	40192	HEF40192BPN	SIC	DEC CNTR	178- 19
206♦	40192	*HEF40192BT	MULB	DEC CNTR	178- 25
207♦	40192	*HEF40192BT	PHIN	DEC CNTR	178- 25
208♦	40192	*HEF40192BT	RTCF	DEC CNTR	178- 25
209♦	40192	*HEF40192BT	VALG	DEC CNTR	178- 25
210♦	40192	*HEF40192BTD	SIC	DEC CNTR	179- 48
211♦	40192	HEF40192P	MULB	DEC CNTR	177- 88
212♦	40192	HEF40192P	PHIN	DEC CNTR	177- 88
213♦	40192	HEF40192P	VALG	DEC CNTR	177- 88
214♦	40192	MSM40192	OKIJ	DEC CNTR	177- 72
215♦	40192	MSM40192RS	OKIJ	DEC CNTR	177- 51
216♦	40192	TC40192BP	IMTM	DEC CNTR	177- 52
217♦	40192	TC40192BP	TOSJ	DEC CNTR	177- 52
218♦	40193	40193BDC	FSC	HEX CNTR	159-110
219♦	40193	40193BDM	FSC	HEX CNTR	160- 1
220♦	40193	*40193BFC	FSC	HEX CNTR	160- 2

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1♦	40193	*40193BFM	FSC	HEX CNTR	160- 3
2♦	40193	40193BPC	FSC	HEX CNTR	160- 4
3♦	40193	CD40193BCJ	NSC	HEX CNTR	160- 35
4♦	40193	CD40193BCN	NSC	HEX CNTR	160- 36
5♦	40193	CD40193BD	RCA	HEX CNTR	160- 42
6♦	40193	CD40193BE	RCA	HEX CNTR	160- 43
7♦	40193	CD40193BF	RCA	HEX CNTR	160- 44
8♦	40193	CD40193BMJ	NSC	HEX CNTR	160- 37
9♦	40193	*CD40193BMW	NSC	HEX CNTR	160- 38
10♦	40193	HEF40193	RTCF	HEX CNTR	160- 99
11♦	40193	HEF40193BD	MULB	HEX CNTR	161- 21
12♦	40193	HEF40193BD	PHIN	HEX CNTR	161- 21
13♦	40193	HEF40193BD	RTCF	HEX CNTR	161- 21
14♦	40193	HEF40193BD	VALG	HEX CNTR	161- 21
15♦	40193	HEF40193BP	MULB	HEX CNTR	161- 22
16♦	40193	HEF40193BP	PHIN	HEX CNTR	161- 22
17♦	40193	HEF40193BP	RTCF	HEX CNTR	161- 22
18♦	40193	HEF40193BP	VALG	HEX CNTR	161- 22
19♦	40193	HEF40193BPN	SIC	HEX CNTR	160-100
20♦	40193	*HEF40193BT	MULB	HEX CNTR	161- 23
21♦	40193	*HEF40193BT	PHIN	HEX CNTR	161- 23
22♦	40193	*HEF40193BT	RTCF	HEX CNTR	161- 23
23♦	40193	*HEF40193BT	VALG	HEX CNTR	161- 23
24♦	40193	*HEF40193BTD	SIC	HEX CNTR	162- 54
25♦	40193	HEF40193P	MULB	HEX CNTR	160- 45
26♦	40193	HEF40193P	PHIN	HEX CNTR	160- 45
27♦	40193	HEF40193P	VALG	HEX CNTR	160- 45
28♦	40193	MSM40193	OKIJ	HEX CNTR	160- 19
29♦	40193	MSM40193RS	OKIJ	HEX CNTR	164- 14
30♦	40193	TC40193BP	IMTM	HEX CNTR	160- 34
31♦	40193	TC40193BP	TOSJ	HEX CNTR	160- 34
32♦	40373	HEF40373B(A)	MULB	8-BIT LCH	233- 54
33♦	40373	HEF40373B(A)	SIC	8-BIT LCH	233- 54
34♦	40373	HEF40373BP	MULB	8-BIT LCH	241- 13
35♦	40373	HEF40373BP	PHIN	8-BIT LCH	241- 13
36♦	40373	HEF40373BP	RTCF	8-BIT LCH	241- 13
37♦	40373	HEF40373BP	VALG	8-BIT LCH	241- 13
38♦	40373	*HEF40373BT	MULB	8-BIT LCH	241- 14
39♦	40373	*HEF40373BT	PHIN	8-BIT LCH	241- 14
40♦	40373	*HEF40373BT	RTCF	8-BIT LCH	241- 14
41♦	40373	*HEF40373BT	VALG	8-BIT LCH	241- 14
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43♦	40374	HEF40374B(A)	SIC	D FL-FLOP	57- 98
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45♦	40374	HEF40374BP	PHIN	D FL-FLOP	58- 94
46♦	40374	HEF40374BP	RTCF	D FL-FLOP	58- 94
47♦	40374	HEF40374BP	VALG	D FL-FLOP	58- 94
48♦	40374	*HEF40374BT	MULB	D FL-FLOP	58- 95
49♦	40374	*HEF40374BT	PHIN	D FL-FLOP	58- 95
50♦	40374	*HEF40374BT	RTCF	D FL-FLOP	58- 95
51♦	40374	*HEF40374BT	VALG	D FL-FLOP	58- 95
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54▼	50396	MIC50396N	MRL	DEC CNTR	184- 26
55▼	50397	MIC50397N	MRL	DEC CNTR	184- 27
56▼	50398	MIC50398N	MRL	DEC CNTR	183- 86
57▼	50399	MIC50399N	MRL	DEC CNTR	183- 87
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62♦	53208	M53208P	MITJ	AND GATE	76- 44
63♦	53209	M53209P	MITJ	AND GATE	78- 14
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67♦	53227	M53227P	MITJ	NOR GATE	115- 82
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69♦	53242	M53242P	MITJ	DECODER	127- 13
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74♦	53272	M53272P	MITJ	JK FL-FLOP	65- 4
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78♦	53276	M53276P	MITJ	JK FL-FLOP	68- 8
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80♦	53286	M53286P	MITJ	EX-OR GATE	93- 41
81♦	53290	M53290P	MITJ	COUNTER	166- 43
82♦	53292	M53292P	MITJ	COUNTER	166- 44
83♦	53293	M53293P	MITJ	COUNTER	166- 45
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87♦	53323	M53323P	MITJ	CLOCK/MV	190- 48
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91♦	53361	M53361P	MITJ	HEX CNTR	156- 75
92♦	53362	M53362P	MITJ	DEC CNTR	174- 41
93♦	53363	M53363P	MITJ	HEX CNTR	156- 76
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95♦	53390	M53390P	MITJ	DEC CNTR	179- 9
96♦	53391	M53391P	MITJ	HEX CNTR	162- 18
97♦	53392	M53392P	MITJ	DEC CNTR	177- 38
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103	54100	*S54100Q	PHIN	4-BIT LCH	231- 48
104	54100	*S54100W	PHIN	4-BIT LCH	231- 49
105	54100	*S54100W	VALG	4-BIT LCH	231- 49
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110♦	54107	S54107F	MULB	JK FL-FLOP	68- 20
111♦	54107	S54107F	PHIN	JK FL-FLOP	68- 20
112♦	54107	S54107F	VALG	JK FL-FLOP	68- 20
113	54107	*S54107W	MULB	JK FL-FLOP	68- 21
114	54107	*S54107W	PHIN	JK FL-FLOP	68- 21
115	54107	*S54107W	VALG	JK FL-FLOP	68- 21
116♦	54107	SN54107J	TII	JK FL-FLOP	68- 87
117♦	54109	DM54109J	NSC	JK FL-FLOP	71- 75
118♦	54109	S54109F	MULB	JK FL-FLOP	69- 96
119♦	54109	S54109F	PHIN	JK FL-FLOP	69- 96
120♦	54109	S54109F	RTCF	JK FL-FLOP	69- 96
121♦	54109	S54109F	SIC	JK FL-FLOP	69- 96
122♦	54109	S54109F	VALG	JK FL-FLOP	69- 96
123	54109	*S54109W	MULB	JK FL-FLOP	69- 97
124	54109	*S54109W	PHIN	JK FL-FLOP	69- 97
125	54109	*S54109W	RTCF	JK FL-FLOP	69- 97
126	54109	*S54109W	SIC	JK FL-FLOP	69- 97
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132♦	54116	S54116F	PHIN	4-BIT LCH	230-101
133♦	54116	S54116F	RTCF	4-BIT LCH	230-101
134♦	54116	S54116F	SIC	4-BIT LCH	230-101
135♦	54116	S54116F	VALG	4-BIT LCH	230-101
136	54116	*S54116W	MULB	4-BIT LCH	230-102
137	54116	*S54116W	PHIN	4-BIT LCH	230-102
138	54116	*S54116W	RTCF	4-BIT LCH	230-102
139	54116	*S54116W	SIC	4-BIT LCH	230-102
140	54116	*S54116W	VALG	4-BIT LCH	230-102
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143	54121	*54121FM	FSC	CLOCK/MV	188- 47
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149♦	54121	S54121F	SIC	CLOCK/MV	188- 98
150♦	54121	S54121F	VALG	CLOCK/MV	188- 98
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153	54121	*S54121W	PHIN	CLOCK/MV	188-100
154	54121	*S54121W	RTCF	CLOCK/MV	188-100
155	54121	*S54121W	SIC	CLOCK/MV	188-100
156	54121	*S54121W	VALG	CLOCK/MV	188-100
157♦	54121	SN54121J	TII	CLOCK/MV	189- 9
158♦	54122	54122DM	FSC	CLOCK/MV	188- 48
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160♦	54122	S54122F	MULB	CLOCK/MV	188-101
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162♦	54122	S54122F	SIC	CLOCK/MV	188-101
163♦	54122	S54122F	VALG	CLOCK/MV	188-101
164♦	54122	*S54122Q	MULB	CLOCK/MV	188-102
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177♦	54123	S54123F	RTCF	CLOCK/MV	191- 44
178♦	54123	S54123F	SIC	CLOCK/MV	191- 44
179♦	54123	S54123F	VALG	CLOCK/MV	191- 44
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191	54145	*S54145W(2)	PHIN	DECODER	127- 69
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203♦	54160	S54160F	PHIN	DEC CNTR	174- 65
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205♦	54160	S54160F	SIC	DEC CNTR	174- 65
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5♦	54161	*S54161W	MULB	HEX CNTR	156-103
6♦	54161	*S54161W	PHIN	HEX CNTR	156-103
7♦	54161	*S54161W	RTCF	HEX CNTR	156-103
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10♦	54161	SN54161J	TII	HEX CNTR	157- 67
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12♦	54162	DM54162AJ	NSC	DEC CNTR	174- 35
13♦	54162	DM54162AW	NSC	DEC CNTR	172- 42
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15♦	54162	S54162E	PHIN	DEC CNTR	174- 67
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17♦	54162	S54162F	PHIN	DEC CNTR	174- 68
18♦	54162	S54162F	VALG	DEC CNTR	174- 68
19♦	54162	*S54162R	MULB	DEC CNTR	174- 69
20♦	54162	*S54162R	PHIN	DEC CNTR	174- 69
21♦	54162	*S54162W	MULB	DEC CNTR	174- 70
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33♦	54163	S54163F	RTCF	HEX CNTR	156-105
34♦	54163	S54163F	SIC	HEX CNTR	156-105
35♦	54163	S54163F	VALG	HEX CNTR	156-105
36♦	54163	*S54163R	MULB	HEX CNTR	156-106
37♦	54163	*S54163R	PHIN	HEX CNTR	156-106
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39♦	54163	*S54163W	PHIN	HEX CNTR	156-107
40♦	54163	*S54163W	RTCF	HEX CNTR	156-107
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99♦	54181	S54181F	SIC	4-BIT ALU	222- 57
100♦	54181	S54181F	VALG	4-BIT ALU	222- 57
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102♦	54181	S54181N	PHIN	4-BIT ALU	222- 58
103♦	54181	S54181N	SIC	4-BIT ALU	222- 58
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105	54181	*S54181Q	PHIN	4-BIT ALU	222- 59
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112	54182	*S54182W	PHIN	PARITY GEN	225- 33
113	54182	*S54182W	VALG	PARITY GEN	225- 33
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117♦	54190	S54190F	MULB	DEC CNTR	178- 73
118♦	54190	S54190F	PHIN	DEC CNTR	178- 73
119♦	54190	S54190F	RTCF	DEC CNTR	178- 73
120♦	54190	S54190F	SIC	DEC CNTR	178- 73
121♦	54190	S54190F	VALG	DEC CNTR	178- 73
122♦	54190	*S54190W	MULB	DEC CNTR	178- 74
123♦	54190	*S54190W	PHIN	DEC CNTR	178- 74
124♦	54190	*S54190W	RTCF	DEC CNTR	178- 74
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133♦	54191	S54191F	RTCF	HEX CNTR	161- 84
134♦	54191	S54191F	SIC	HEX CNTR	161- 84
135♦	54191	S54191F	VALG	HEX CNTR	161- 84
136♦	54191	*S54191W	MULB	HEX CNTR	161- 85
137♦	54191	*S54191W	PHIN	HEX CNTR	161- 85
138♦	54191	*S54191W	RTCF	HEX CNTR	161- 85
139♦	54191	*S54191W	SIC	HEX CNTR	161- 85
140♦	54191	*S54191W	VALG	HEX CNTR	161- 85
141♦	54191	SN54191J	TII	HEX CNTR	162- 50
142♦	54192	54192DM	FSC	DEC CNTR	179- 54
143♦	54192	*54192FM	FSC	DEC CNTR	178- 99
144♦	54192	DM54192J	NSC	DEC CNTR	179- 63
145♦	54192	*DM54192W	NSC	DEC CNTR	179- 64
146♦	54192	S54192E	MULB	DEC CNTR	179- 26
147♦	54192	S54192E	PHIN	DEC CNTR	179- 26
148♦	54192	S54192F	MULB	DEC CNTR	179- 27
149♦	54192	S54192F	PHIN	DEC CNTR	179- 27
150♦	54192	S54192F	VALG	DEC CNTR	179- 27
151♦	54192	*S54192R	MULB	DEC CNTR	179- 28
152♦	54192	*S54192R	PHIN	DEC CNTR	179- 28
153♦	54192	*S54192W	MULB	DEC CNTR	179- 29
154♦	54192	*S54192W	PHIN	DEC CNTR	179- 29
155♦	54192	*S54192W	VALG	DEC CNTR	179- 29
156♦	54192	SN54192J	TII	DEC CNTR	179- 97
157♦	54193	54193DM	FSC	HEX CNTR	162- 59
158♦	54193	*54193FM	FSC	HEX CNTR	162- 60
159♦	54193	DM54193J	NSC	HEX CNTR	162- 73
160♦	54193	*DM54193W	NSC	HEX CNTR	162- 74
161♦	54193	S54193E	MULB	HEX CNTR	162- 34
162♦	54193	S54193E	PHIN	HEX CNTR	162- 34
163♦	54193	S54193F	MULB	HEX CNTR	162- 35
164♦	54193	S54193F	PHIN	HEX CNTR	162- 35
165♦	54193	S54193F	RTCF	HEX CNTR	162- 35
166♦	54193	S54193F	SIC	HEX CNTR	162- 35
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171♦	54193	*S54193W	PHIN	HEX CNTR	162- 37
172♦	54193	*S54193W	RTCF	HEX CNTR	162- 37
173♦	54193	*S54193W	SIC	HEX CNTR	162- 37
174♦	54193	*S54193W	VALG	HEX CNTR	162- 37
175♦	54193	SN54193J	TII	HEX CNTR	163- 1
176♦	54196	54196DM	FSC	DEC CNTR	176- 23
177♦	54196	*54196FM	FSC	DEC CNTR	176- 20
178♦	54196	DM54196J	NSC	DEC CNTR	176- 9
179♦	54197	54197DM	FSC	HEX CNTR	158- 67
180♦	54197	*54197FM	FSC	HEX CNTR	158- 66
181♦	54197	DM54197J	NSC	HEX CNTR	158- 45
182♦	54197	SN54197J	TII	HEX CNTR	158- 78
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185♦	54221	S54221F	RTCF	CLOCK/MV	191- 46
186♦	54221	S54221F	SIC	CLOCK/MV	191- 46
187♦	54221	S54221F	VALG	CLOCK/MV	191- 46
188	54221	*S54221W	MULB	CLOCK/MV	191- 47
189	54221	*S54221W	PHIN	CLOCK/MV	191- 47
190	54221	*S54221W	RTCF	CLOCK/MV	191- 47
191	54221	*S54221W	SIC	CLOCK/MV	191- 47
192	54221	*S54221W	VALG	CLOCK/MV	191- 47
193♦	54221	SN54221J	TII	CLOCK/MV	191- 65
194♦	54259	DM54259J	NSC	8-BIT LCH	238- 90
195♦	54259	*DM54259W	NSC	8-BIT LCH	238- 4
196♦	54265	SN54265J	TII	SPECIAL	246-103
197♦	54279	S54279F	MULB	4-BIT LCH	243- 62
198♦	54279	S54279F	PHIN	4-BIT LCH	243- 62
199♦	54279	S54279F	RTCF	4-BIT LCH	243- 62
200♦	54279	S54279F	SIC	4-BIT LCH	243- 62
201♦	54279	S54279F	VALG	4-BIT LCH	243- 62
202♦	54279	*S54279W	MULB	4-BIT LCH	243- 63
203♦	54279	*S54279W	PHIN	4-BIT LCH	243- 63
204♦	54279	*S54279W	RTCF	4-BIT LCH	243- 63
205♦	54279	*S54279W	SIC	4-BIT LCH	243- 63
206♦	54279	*S54279W	VALG	4-BIT LCH	243- 63
207♦	54279	SN54279J	TII	4-BIT LCH	243- 42
208♦	54283	SN54283J	TII	ADDER	200- 51
209♦	54290	SN54290J	TII	DEC CNTR	175-104
210♦	54293	SN54293J	TII	HEX CNTR	158- 28
211♦	54376	SN54376J(1)	TII	JK FL-FLOP	74-104
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214♦	54402	M54402P	MITJ	DECODER	125- 20
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216♦	54408	M54408P	MITJ	FREQ DIVID	194- 38
217▼	54452	M54452P	MITJ	FREQ DIVID	195- 25
218♦	54454	M54454P	MITJ	FREQ DIVID	195- 32
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3▼	54460	M54460L	MITJ	FREQ DIVID	196- 65
4	54462	M54462AL	MITJ	FREQ DIVID	197- 19
5♦	54462	M54462P	MITJ	FREQ DIVID	197- 20
6♦	54463	M54463P	MITJ	FREQ DIVID	195- 31
7♦	54465	M54465SP	MITJ	FREQ DIVID	197- 14
8	54466	M54466L	MITJ	FREQ DIVID	196- 77
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11	54474	M54474L	MITJ	FREQ DIVID	197- 30
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13▼	54621	M54621L	MITJ	T-FL-FLOP	75- 79
14▼	54812	M54812L	MITJ	FREQ DIVID	193-108
15▼	54813	M54813L	MITJ	FREQ DIVID	193-109
16▼	54814	M54814P	MITJ	FREQ DIVID	194- 2
17▼	54815	M54815L	MITJ	FREQ DIVID	193-110
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20♦	56470	M56470AP	MITJ	FREQ DIVID	197- 23
21♦	56475	M56475P	MITJ	FREQ DIVID	197- 22
22	56670	M56670L	MITJ	FREQ DIVID	197- 24
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26♦	57558	57558J40	MMI	MULTIPLIER	202- 87
27♦	58434	M58434P(2)	MITJ	CLOCK/MV	192- 83
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31▼	64011	L64011(A)	LLC	MULTIPLIER	206- 45
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33▼	64016	L64016D(A)	LLC	MULTIPLIER	206- 47
34▼	64016	L64016G(A)	LLC	MULTIPLIER	206- 48
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36▼	64016	*L64016L(A)	LLC	MULTIPLIER	206- 50
37▼	64017	L64017D(A)	LLC	MULTIPLIER	206- 51
38▼	64017	L64017G(A)	LLC	MULTIPLIER	206- 52
39▼	64017	*L64017J(A)	LLC	MULTIPLIER	206- 53
40▼	64017	*L64017L(A)	LLC	MULTIPLIER	206- 54
41♦	64032	L64032	LLC	MULTIPLIER	214- 79
42♦	64032	L64032A	LLC	MULTIPLIER	214- 77
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49▼	71083	UPD71083C	NECE	8-BIT LCH	237- 56
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55▼	72264	IDT72264	IDT	MULTIPLIER	214- 91
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57♦	74100	N74100F	MULB	4-BIT LCH	231- 38
58♦	74100	N74100F	PHIN	4-BIT LCH	231- 38
59♦	74100	N74100F	VALG	4-BIT LCH	231- 38
60♦	74100	N74100N	MULB	4-BIT LCH	231- 39
61♦	74100	N74100N	PHIN	4-BIT LCH	231- 39
62♦	74100	N74100N	VALG	4-BIT LCH	231- 39
63♦	74100	SN74100N	TII	4-BIT LCH	231- 67
64♦	74107	74107DC	FSC	JK FL-FLOP	68- 1
65♦	74107	74107PC	FSC	JK FL-FLOP	68- 2
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67♦	74107	DM74107N	NSC	JK FL-FLOP	69- 48
68♦	74107	N74107F	MULB	JK FL-FLOP	68- 13
69♦	74107	N74107F	PHIN	JK FL-FLOP	68- 13
70♦	74107	N74107F	VALG	JK FL-FLOP	68- 13
71♦	74107	N74107N	MULB	JK FL-FLOP	68- 14
72♦	74107	N74107N	PHIN	JK FL-FLOP	68- 14
73♦	74107	N74107N	RTCF	JK FL-FLOP	68- 14
74♦	74107	N74107N	SIC	JK FL-FLOP	68- 14
75♦	74107	N74107N	VALG	JK FL-FLOP	68- 14
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77♦	74109	DM74109N	NSC	JK FL-FLOP	71- 76
78♦	74109	N74109F	MULB	JK FL-FLOP	69- 80
79♦	74109	N74109F	PHIN	JK FL-FLOP	69- 80
80♦	74109	N74109F	VALG	JK FL-FLOP	69- 80
81♦	74109	N74109N	MULB	JK FL-FLOP	69- 81
82♦	74109	N74109N	PHIN	JK FL-FLOP	69- 81
83♦	74109	N74109N	RTCF	JK FL-FLOP	69- 81
84♦	74109	N74109N	SIC	JK FL-FLOP	69- 81
85♦	74109	N74109N	VALG	JK FL-FLOP	69- 81
86	74109	*N74109W	MULB	JK FL-FLOP	66-107
87	74109	*N74109W	PHIN	JK FL-FLOP	66-107
88♦	74109	SN74109N	TII	JK FL-FLOP	71- 40
89♦	74116	N74116F	MULB	4-BIT LCH	231- 40
90♦	74116	N74116F	PHIN	4-BIT LCH	231- 40
91♦	74116	N74116F	VALG	4-BIT LCH	231- 40
92♦	74116	N74116N	MULB	4-BIT LCH	230-100
93♦	74116	N74116N	PHIN	4-BIT LCH	230-100
94♦	74116	N74116N	RTCF	4-BIT LCH	230-100
95♦	74116	N74116N	SIC	4-BIT LCH	230-100
96♦	74116	N74116N	VALG	4-BIT LCH	230-100
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98♦	74121	74121PC	FSC	CLOCK/MV	188- 51
99♦	74121	DM74121J	NSC	CLOCK/MV	188- 62
100♦	74121	DM74121N	NSC	CLOCK/MV	188- 63
101	74121	*N74121D	MULB	CLOCK/MV	188- 88
102	74121	*N74121D	PHIN	CLOCK/MV	188- 88
103	74121	*N74121D	RTCF	CLOCK/MV	188- 88
104	74121	*N74121D	SIC	CLOCK/MV	188- 88
105	74121	*N74121D	VALG	CLOCK/MV	188- 88
106♦	74121	N74121F	MULB	CLOCK/MV	188- 89
107♦	74121	N74121F	PHIN	CLOCK/MV	188- 89
108♦	74121	N74121F	VALG	CLOCK/MV	188- 89
109♦	74121	N74121N	MULB	CLOCK/MV	188- 90
110♦	74121	N74121N	PHIN	CLOCK/MV	188- 90
111♦	74121	N74121N	RTCF	CLOCK/MV	188- 90
112♦	74121	N74121N	SIC	CLOCK/MV	188- 90
113♦	74121	N74121N	VALG	CLOCK/MV	188- 90
114	74121	*N74121W	MULB	CLOCK/MV	188- 91
115	74121	*N74121W	PHIN	CLOCK/MV	188- 91
116♦	74121	SN74121N	TII	CLOCK/MV	189- 11
117♦	74122	74122DC	FSC	CLOCK/MV	188- 52
118♦	74122	74122PC	FSC	CLOCK/MV	188- 53
119♦	74122	N74122F	MULB	CLOCK/MV	188- 92
120♦	74122	N74122F	PHIN	CLOCK/MV	188- 92
121♦	74122	N74122F	VALG	CLOCK/MV	188- 92
122♦	74122	N74122N	MULB	CLOCK/MV	188- 93
123♦	74122	N74122N	PHIN	CLOCK/MV	188- 93
124♦	74122	N74122N	VALG	CLOCK/MV	188- 93
125♦	74122	SN74122N	TII	CLOCK/MV	189- 12
126♦	74123	74123DC	FSC	CLOCK/MV	189- 59
127	74123	74123PC	FSC	CLOCK/MV	189- 60
128♦	74123	DM74123N	NSC	CLOCK/MV	189-110
129	74123	*N74123D	MULB	CLOCK/MV	190-108
130	74123	*N74123D	PHIN	CLOCK/MV	190-108
131	74123	*N74123D	RTCF	CLOCK/MV	190-108
132	74123	*N74123D	SIC	CLOCK/MV	190-108
133	74123	*N74123D	VALG	CLOCK/MV	190-108
134♦	74123	N74123F	MULB	CLOCK/MV	190-109
135♦	74123	N74123F	PHIN	CLOCK/MV	190-109
136♦	74123	N74123F	VALG	CLOCK/MV	190-109
137♦	74123	N74123N	MULB	CLOCK/MV	190-110
138♦	74123	N74123N	PHIN	CLOCK/MV	190-110
139♦	74123	N74123N	RTCF	CLOCK/MV	190-110
140♦	74123	N74123N	SIC	CLOCK/MV	190-110
141♦	74123	N74123N	VALG	CLOCK/MV	190-110
142♦	74123	SN74123N	TII	CLOCK/MV	191- 66
143♦	74136	SN74136N	TII	EX-OR GATE	92- 90
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145♦	74154	SN74154N(2)	TII	DECODER	125-106
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147♦	74156	SN74156N(2)	TII	DECODER	126- 22
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149♦	74160	74160PC	FSC	DEC CNTR	174-110
150♦	74160	DM74160AN	NSC	DEC CNTR	175- 42
151♦	74160	DM74160N	NSC	DEC CNTR	175- 43
152♦	74160	N74160F	MULB	DEC CNTR	174- 57
153♦	74160	N74160F	PHIN	DEC CNTR	174- 57
154♦	74160	N74160F	VALG	DEC CNTR	174- 57
155♦	74160	N74160N	MULB	DEC CNTR	174- 58
156♦	74160	N74160N	PHIN	DEC CNTR	174- 58
157♦	74160	N74160N	RTCF	DEC CNTR	174- 58
158♦	74160	N74160N	SIC	DEC CNTR	174- 58
159♦	74160	N74160N	VALG	DEC CNTR	174- 58
160♦	74160	SN74160N	TII	DEC CNTR	175- 30
161♦	74161	74161DC	FSC	HEX CNTR	157- 34
162♦	74161	74161PC	FSC	HEX CNTR	156- 62
163♦	74161	DM74161AN	NSC	HEX CNTR	157- 79
164♦	74161	DM74161N	NSC	HEX CNTR	157- 80
165♦	74161	N74161F	MULB	HEX CNTR	156- 90
166♦	74161	N74161F	PHIN	HEX CNTR	156- 90
167♦	74161	N74161F	VALG	HEX CNTR	156- 90
168♦	74161	N74161N	MULB	HEX CNTR	156- 91
169♦	74161	N74161N	PHIN	HEX CNTR	156- 91
170♦	74161	N74161N	RTCF	HEX CNTR	156- 91
171♦	74161	N74161N	SIC	HEX CNTR	156- 91
172♦	74161	N74161N	VALG	HEX CNTR	156- 91
173♦	74161	SN74161N	TII	HEX CNTR	157- 69
174♦	74162	74162PC	FSC	DEC CNTR	174- 30
175♦	74162	DM74162AN	NSC	DEC CNTR	175- 44
176♦	74162	DM74162N	NSC	DEC CNTR	175- 45
177♦	74162	N74162F	MULB	DEC CNTR	174- 59
178♦	74162	N74162F	PHIN	DEC CNTR	174- 59
179♦	74162	N74162F	VALG	DEC CNTR	174- 59
180♦	74162	N74162N	MULB	DEC CNTR	174- 60
181♦	74162	N74162N	PHIN	DEC CNTR	174- 60
182♦	74162	N74162N	VALG	DEC CNTR	174- 60
183♦	74162	SN74162N	TII	DEC CNTR	175- 31
184♦	74163	74163DC	FSC	HEX CNTR	156- 63
185♦	74163	74163PC	FSC	HEX CNTR	156- 64
186♦	74163	DM74163AN	NSC	HEX CNTR	157- 81
187♦	74163	DM74163N	NSC	HEX CNTR	157- 82
188♦	74163	N74163F	MULB	HEX CNTR	156- 92
189♦	74163	N74163F	PHIN	HEX CNTR	156- 92
190♦	74163	N74163F	VALG	HEX CNTR	156- 92
191♦	74163	N74163N	MULB	HEX CNTR	156- 93
192♦	74163	N74163N	PHIN	HEX CNTR	156- 93
193♦	74163	N74163N	RTCF	HEX CNTR	156- 93
194♦	74163	N74163N	SIC	HEX CNTR	156- 93
195♦	74163	N74163N	VALG	HEX CNTR	156- 93
196♦	74163	SN74163N	TII	HEX CNTR	157- 70
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200♦	74173	N74173F	VALG	D FL-FLOP	54- 68
201♦	74173	N74173N	MULB	D FL-FLOP	54- 69
202♦	74173	N74173N	PHIN	D FL-FLOP	54- 69
203♦	74173	N74173N	RTCF	D FL-FLOP	54- 69
204♦	74173	N74173N	SIC	D FL-FLOP	54- 69
205♦	74173	N74173N	VALG	D FL-FLOP	54- 69
206▼	74174	DM74174N	NSC	D FL-FLOP	56- 92
207♦	74174	N74174F	VALG	D FL-FLOP	56- 84
208♦	74174	N74174N	MULB	D FL-FLOP	56- 46
209♦	74174	N74174N	PHIN	D FL-FLOP	56- 46
210♦	74174	N74174N	RTCF	D FL-FLOP	56- 46
211♦	74174	N74174N	SIC	D FL-FLOP	56- 46
212♦	74174	N74174N	VALG	D FL-FLOP	56- 46
213▼	74174	SN74174N	TII	D FL-FLOP	56- 86
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215	74175	74175PC	FSC	D FL-FLOP	54- 2
216♦	74175	DM74175N(1)	NSC	D FL-FLOP	56- 93
217♦	74175	N74175F	VALG	D FL-FLOP	55- 16
218♦	74175	N74175N	MULB	D FL-FLOP	54- 70
219♦	74175	N74175N	PHIN	D FL-FLOP	54- 70
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5♦	74176	74176PC	FSC	DEC CNTR	181-103
6♦	74176	DM74176J	NSC	DEC CNTR	181-105
7♦	74176	DM74176N	NSC	DEC CNTR	181-106
8♦	74176	*DM74176W	NSC	DEC CNTR	181-107
9♦	74176	SN74176N	TII	DEC CNTR	181-109
10♦	74177	74177DC	FSC	HEX CNTR	154- 33
11♦	74177	74177PC	FSC	HEX CNTR	154- 34
12♦	74177	DM74177J	NSC	HEX CNTR	158- 36
13♦	74177	DM74177N	NSC	HEX CNTR	158- 37
14♦	74177	*DM74177W	NSC	HEX CNTR	158- 38
15♦	74177	SN74177N	TII	HEX CNTR	158- 49
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17♦	74180	74180PC	FSC	PARITY GEN	227- 41
18♦	74180	DM74180J	NSC	PARITY GEN	227- 43
19♦	74180	DM74180N	NSC	PARITY GEN	227- 44
20	74180	*DM74180W	NSC	PARITY GEN	227- 45
21♦	74180	N74180F	MULB	PARITY GEN	227- 47
22♦	74180	N74180F	PHIN	PARITY GEN	227- 47
23♦	74180	N74180F	VALG	PARITY GEN	227- 47
24♦	74180	N74180N	MULB	PARITY GEN	227- 48
25♦	74180	N74180N	PHIN	PARITY GEN	227- 48
26♦	74180	N74180N	RTCF	PARITY GEN	227- 48
27♦	74180	N74180N	SIC	PARITY GEN	227- 48
28♦	74180	N74180N	VALG	PARITY GEN	227- 48
29♦	74180	SN74180N	TII	PARITY GEN	227- 58
30♦	74181	74181DC	FSC	4-BIT ALU	221- 28
31♦	74181	74181PC	FSC	4-BIT ALU	221- 29
32♦	74181	DM74181J	NSC	4-BIT ALU	222- 46
33♦	74181	DM74181N	NSC	4-BIT ALU	222- 47
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37♦	74181	N74181N	MULB	4-BIT ALU	222- 52
38♦	74181	N74181N	PHIN	4-BIT ALU	222- 52
39♦	74181	N74181N	RTCF	4-BIT ALU	222- 52
40♦	74181	N74181N	SIC	4-BIT ALU	222- 52
41♦	74181	N74181N	VALG	4-BIT ALU	222- 52
42♦	74181	SN74181N	TII	4-BIT ALU	222- 66
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44♦	74182	N74182F	PHIN	PARITY GEN	225- 30
45♦	74182	N74182F	VALG	PARITY GEN	225- 30
46♦	74182	N74182N	MULB	PARITY GEN	225- 31
47♦	74182	N74182N	PHIN	PARITY GEN	225- 31
48♦	74182	N74182N	VALG	PARITY GEN	225- 31
49♦	74182	SN74182N	TII	PARITY GEN	225- 38
50♦	74190	74190PC	FSC	DEC CNTR	178-100
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52♦	74190	DM74190N	NSC	DEC CNTR	179- 1
53♦	74190	*DM74190W	NSC	DEC CNTR	179. 2
54♦	74190	N74190F	MULB	DEC CNTR	178- 69
55♦	74190	N74190F	PHIN	DEC CNTR	178- 69
56♦	74190	N74190F	VALG	DEC CNTR	178- 69
57♦	74190	N74190N	MULB	DEC CNTR	178- 70
58♦	74190	N74190N	PHIN	DEC CNTR	178- 70
59♦	74190	N74190N	RTCF	DEC CNTR	178- 70
60♦	74190	N74190N	SIC	DEC CNTR	178- 70
61♦	74190	N74190N	VALG	DEC CNTR	178- 70
62♦	74190	*N74190W	MULB	DEC CNTR	179- 18
63♦	74190	*N74190W	PHIN	DEC CNTR	179- 18
64♦	74190	SN74190N	TII	DEC CNTR	179- 47
65♦	74191	74191DC	FSC	HEX CNTR	161-108
66♦	74191	74191PC	FSC	HEX CNTR	161-109
67♦	74191	DM74191J	NSC	HEX CNTR	162- 6
68♦	74191	DM74191N	NSC	HEX CNTR	162- 7
69♦	74191	*DM74191W	NSC	HEX CNTR	162- 8
70♦	74191	N74191F	MULB	HEX CNTR	161- 80
71♦	74191	N74191F	PHIN	HEX CNTR	161- 80
72♦	74191	N74191F	VALG	HEX CNTR	161- 80
73♦	74191	N74191N	MULB	HEX CNTR	161- 81
74♦	74191	N74191N	PHIN	HEX CNTR	161- 81
75♦	74191	N74191N	RTCF	HEX CNTR	161- 81
76♦	74191	N74191N	SIC	HEX CNTR	161- 81
77♦	74191	N74191N	VALG	HEX CNTR	161- 81
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79♦	74191	*N74191W	PHIN	HEX CNTR	162- 27
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85♦	74192	DM74192J	NSC	DEC CNTR	179- 65
86♦	74192	DM74192N	NSC	DEC CNTR	179- 66
87♦	74192	N74192F	MULB	DEC CNTR	179- 19
88♦	74192	N74192F	PHIN	DEC CNTR	179- 19
89♦	74192	N74192F	VALG	DEC CNTR	179- 19
90♦	74192	N74192N	MULB	DEC CNTR	179- 20
91♦	74192	N74192N	PHIN	DEC CNTR	179- 20
92♦	74192	N74192N	RTCF	DEC CNTR	179- 20
93♦	74192	N74192N	SIC	DEC CNTR	179- 20
94♦	74192	N74192N	VALG	DEC CNTR	179- 20
95♦	74192	SN74192N	TII	DEC CNTR	179- 98
96♦	74192	ZN74192E	FERB	DEC CNTR	179-101
97♦	74192	ZN74192J	FERB	DEC CNTR	179-102
98♦	74193	74193DC	FSC	HEX CNTR	165- 40
99♦	74193	74193PC	FSC	HEX CNTR	162- 61
100♦	74193	DM74193J	NSC	HEX CNTR	162- 75
101♦	74193	DM74193N	NSC	HEX CNTR	162- 76
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103♦	74193	N74193F	PHIN	HEX CNTR	165- 38
104♦	74193	N74193F	RTCF	HEX CNTR	165- 38
105♦	74193	N74193F	VALG	HEX CNTR	165- 38
106♦	74193	N74193N	MULB	HEX CNTR	165- 39
107♦	74193	N74193N	PHIN	HEX CNTR	165- 39
108♦	74193	N74193N	RTCF	HEX CNTR	165- 39
109♦	74193	N74193N	SIC	HEX CNTR	165- 39
110♦	74193	N74193N	VALG	HEX CNTR	165- 39
111♦	74193	SN74193N	TII	HEX CNTR	165- 41
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113♦	74193	ZN74193J	FERB	HEX CNTR	165- 43
114♦	74196	74196DC	FSC	DEC CNTR	176- 24
115♦	74196	74196PC	FSC	DEC CNTR	176- 25
116♦	74196	DM74196N	NSC	DEC CNTR	176- 10
117♦	74196	SN74196N	TII	DEC CNTR	176- 33
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128♦	74221	N74221F	PHIN	CLOCK/MV	191- 2
129♦	74221	N74221F	VALG	CLOCK/MV	191- 2
130♦	74221	N74221N	MULB	CLOCK/MV	191- 3
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134♦	74221	N74221N	VALG	CLOCK/MV	191- 3
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185♦	84019	MB84019B	FCAJ	AND-OR GTE	84- 87
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193♦	84025	MB84025B	FCAJ	NOR GATE	116-107
194♦	84025	MB84025BM	FCAJ	NOR GATE	116-108
195♦	84027	MB84027B	FCAJ	JK FL-FLOP	67- 82
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198♦	84028	MB84028BM	FCAJ	DECODER	127- 19
199♦	84029	MB84029B	FCAJ	HEX CNTR	154- 52
200♦	84029	MB84029BM	FCAJ	COUNTER	165-102
201♦	84040	MB84040B	FCAJ	COUNTER	170- 17
202♦	84040	MB84040BM	FCAJ	COUNTER	170- 18
203♦	84060	MB84060B	FCAJ	COUNTER	171- 2
204♦	84060	MB84060BM	FCAJ	COUNTER	171- 3
205♦	84068	MB84068B	FCAJ	NAND GATE	110- 73
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207♦	84070	MB84070B	FCAJ	EX-OR GATE	92- 27
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209♦	84071	MB84071B	FCAJ	OR GATE	122- 1
210♦	84071	MB84071BM	FCAJ	OR GATE	122- 2
211♦	84072	MB84072B	FCAJ	OR GATE	124- 21
212♦	84072	MB84072BM	FCAJ	OR GATE	124- 22
213♦	84073	MB84073B	FCAJ	AND GATE	81- 6
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215♦	84075	MB84075B	FCAJ	OR GATE	123- 53
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22♦	95107	F95107DC	FSC	EX-OR GATE	91- 39
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30♦	100101	100101F	RTCF	OR GATE	124- 99
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32♦	100101	100101F	VALG	OR GATE	124- 99
33♦	100101	*100101Y	MULB	OR GATE	124-100
34♦	100101	*100101Y	PHIN	OR GATE	124-100
35♦	100101	*100101Y	RTCF	OR GATE	124-100
36♦	100101	*100101Y	SIC	OR GATE	124-100
37♦	100101	*100101Y	VALG	OR GATE	124-100
38♦	100101	F100101DC	FSC	OR GATE	124-101
39♦	100101	*F100101FC	FSC	OR GATE	124- 98
40♦	100101	HD100101	HITJ	OR GATE	124- 96
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43♦	100101	*HXA100101F	PHIN	OR GATE	124- 95
44♦	100102	100102F	MULB	OR GATE	123- 88
45♦	100102	100102F	PHIN	OR GATE	123- 88
46♦	100102	100102F	RTCF	OR GATE	123- 88
47♦	100102	100102F	SIC	OR GATE	123- 88
48♦	100102	100102F	VALG	OR GATE	123- 88
49♦	100102	*100102Y	MULB	OR GATE	123- 89
50♦	100102	*100102Y	PHIN	OR GATE	123- 89
51♦	100102	*100102Y	RTCF	OR GATE	123- 89
52♦	100102	*100102Y	SIC	OR GATE	123- 89
53♦	100102	*100102Y	VALG	OR GATE	123- 89
54♦	100102	F100102DC	FSC	OR GATE	123- 91
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56♦	100102	HD100102	HITJ	OR GATE	123- 86
57♦	100102	*HD100102F	HITJ	OR GATE	123- 87
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64♦	100107	100107F	RTCF	EX-OR GATE	94- 46
65♦	100107	100107F	SIC	EX-OR GATE	94- 46
66♦	100107	100107F	VALG	EX-OR GATE	94- 46
67♦	100107	*100107Y	MULB	EX-OR GATE	94- 47
68♦	100107	*100107Y	PHIN	EX-OR GATE	94- 47
69♦	100107	*100107Y	RTCF	EX-OR GATE	94- 47
70♦	100107	*100107Y	SIC	EX-OR GATE	94- 47
71♦	100107	*100107Y	VALG	EX-OR GATE	94- 47
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80♦	100112	100112F	RTCF	OR GATE	120- 91
81♦	100112	100112F	SIC	OR GATE	120- 91
82♦	100112	100112F	VALG	OR GATE	120- 91
83♦	100112	*100112Y	MULB	OR GATE	121- 6
84♦	100112	*100112Y	PHIN	OR GATE	121- 6
85♦	100112	*100112Y	RTCF	OR GATE	121- 6
86♦	100112	*100112Y	SIC	OR GATE	121- 6
87♦	100112	*100112Y	VALG	OR GATE	121- 6
88♦	100112	HXA100112D	PHIN	OR GATE	120- 93
89♦	100112	*HXA100112F	PHIN	OR GATE	120- 94
90♦	100113	100113F	MULB	OR GATE	120- 95
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92♦	100113	100113F	RTCF	OR GATE	120- 95
93♦	100113	100113F	SIC	OR GATE	120- 95
94♦	100113	100113F	VALG	OR GATE	120- 95
95♦	100113	*100113Y	MULB	OR GATE	120- 92
96♦	100113	*100113Y	PHIN	OR GATE	120- 92
97♦	100113	*100113Y	RTCF	OR GATE	120- 92
98♦	100113	*100113Y	SIC	OR GATE	120- 92
99♦	100113	*100113Y	VALG	OR GATE	120- 92
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101♦	100117	100117F	PHIN	OR-AND GTE	83- 48
102♦	100117	100117F	RTCF	OR-AND GTE	83- 48
103♦	100117	100117F	SIC	OR-AND GTE	83- 48
104♦	100117	100117F	VALG	OR-AND GTE	83- 48
105♦	100117	*100117Y	MULB	OR-AND GTE	83- 49
106♦	100117	*100117Y	PHIN	OR-AND GTE	83- 49
107♦	100117	*100117Y	RTCF	OR-AND GTE	83- 49
108♦	100117	*100117Y	SIC	OR-AND GTE	83- 49
109♦	100117	*100117Y	VALG	OR-AND GTE	83- 49
110♦	100117	F100117DC	FSC	OR-AND GTE	83- 50
111♦	100117	*F100117FC	FSC	OR-AND GTE	83- 51
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50A10201	♦ESAN	144 - 30
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54AC109SM(A)	♦FSC	73 - 57
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54AC373SM(A)	♦FSC	236 - 12
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54F373FM	♦FSC	234 - 76
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54F374FM	♦FSC	64 - 39
54F374L1M	♦FSC	64 - 40
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54F524DM	♦FSC	215 -101
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54F845SDM(A)	♦FSC	234 - 36
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54HCT563	♦AEIL	233 - 48
54HCT563C	♦STX	239 -110
54HCT563D	♦STX	240 - 1
54HCT564	♦AEIL	57 - 73
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54LS33FM	♦FSC	113 - 98
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54LS74DM	♦FSC	50 - 47
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54LS76FM	♦FSC	70 - 21
54LS78DM	FSC	70 - 22
54LS78FM	FSC	70 - 23
54LS83ADM	♦FSC	199 -109
54LS83AFM	♦FSC	199 -110
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54LS90FM	♦FSC	174 -103
54LS92FM	♦FSC	167 - 87
54LS93DM	♦FSC	157 - 22
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54LS107DM	♦FSC	70 - 24
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54LS112DM	♦FSC	71 - 92
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54LS161FM	♦FSC	154 - 9
54LS162FM	♦FSC	172 - 36
54LS163DM	♦FSC	154 - 10
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54LS191DM	♦FSC	163 - 7	60A056	♦CSD	131 - 48	74AC374DC(A)	♦FSC	63 -100	74F161AL1C	♦FSC	158 -107	74F377QC(A)	♦FSC	63 - 38
54LS191FM	♦FSC	163 - 8	60A063	♦CSD	131 - 49	74AC374PC(A)	♦FSC	63 -101	74F161APC	♦FSC	158 -108	74F377SC(A)	♦FSC	63 - 39
54LS192DM	♦FSC	179 -107	60A070	♦CSD	131 - 50	74AC374SC(A)	♦FSC	63 -102	74F161AQC	♦FSC	158 -109	74F378DC	♦FSC	57 - 23
54LS192FM	♦FSC	179 -108	60A077	♦CSD	131 - 51	74ACT00DC(A)	♦FSC	98 - 33	74F161ASC	♦FSC	158 -110	74F378L1C	♦FSC	57 - 24
54LS193DM	♦FSC	163 - 19	60A084	♦CSD	131 - 52	74ACT00PC(A)	♦FSC	98 - 34	74F161DC	♦FSC	159 - 1	74F378PC	♦FSC	57 - 25
54LS193FM	♦FSC	163 - 20	60A091	♦ESAN	131 - 53	74ACT00SC(A)	♦FSC	98 - 35	74F161PC	♦FSC	159 - 2	74F378QC	♦FSC	57 - 26
54LS196FM	FSC	176 - 18	61Z14A025	♦SPR	151 - 32	74ACT74DC(A)	♦FSC	53 - 3	74F162ADC	♦FSC	176 - 72	74F378SC	♦FSC	57 - 27
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54LS256FM	♦FSC	231 - 19	61Z14A035	♦SPR	151 - 34	74ACT74SC(A)	♦FSC	53 - 5	74F162APC	♦FSC	176 - 74	74F379L1C	♦FSC	55 - 74
54LS259DM	♦FSC	238 - 18	61Z14A040	♦SPR	151 - 35	74ACT109DC(A)		73 - 65	74F162AQC	♦FSC	176 - 75	74F379PC	♦FSC	55 - 75
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54LS260FM	♦FSC	119 - 27	61Z14A075	♦SPR	151 - 38		♦FSC		74F162PC	♦FSC	176 - 78	74F381DC	♦FSC	220 - 81
54LS266DM	♦FSC	89 - 90	61Z14A100	♦SPR	151 - 39	74ACT109SC(A)		73 - 67	74F163ADC	♦FSC	159 - 3	74F381L1C	♦FSC	220 - 82
54LS266FM	♦FSC	90 - 72	61Z14A125	♦SPR	151 - 40		♦FSC		74F163AL1C	♦FSC	159 - 4	74F381PC	♦FSC	220 - 83
54LS273DM	FSC	62 - 2	61Z14A150	♦SPR	151 - 41	74ACT373DC(A)		236 - 18	74F163APC	♦FSC	159 - 5	74F381QC	♦FSC	220 - 84
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54LS283J	FSC	200 - 3	61Z14B050	♦SPR	151 - 76	74ACT374DC(A)		63 -103	74F168L1C	♦FSC	180 - 48	74F382SC	♦FSC	220 - 90
54LS283W	FSC	200 - 4	61Z14B100	♦SPR	151 - 77		♦FSC		74F168PC	♦FSC	180 - 49	74F384DC	♦FSC	202 - 67
54LS290DM	♦FSC	176 - 3	61Z14B150	♦SPR	151 - 78	74ACT374PC(A)		63 -104	74F168QC	♦FSC	180 - 50	74F384L1C	♦FSC	202 - 68
54LS290FM	♦FSC	176 - 4	61Z14B200	♦SPR	151 - 79		♦FSC		74F168SC	♦FSC	180 - 51	74F384PC	♦FSC	202 - 69
54LS293DM	♦FSC	158 - 41	61Z14B250	♦SPR	151 - 80	74ACT374SC(A)		63 -105	74F169DC	♦FSC	163 - 74	74F384QC	♦FSC	202 - 70
54LS293FM	♦FSC	158 - 42	61Z14B300	♦SPR	151 - 81		♦FSC		74F169L1C	♦FSC	163 - 75	74F384SC	♦FSC	202 - 71
54LS373DM	♦FSC	229 -108	61Z14B350	♦SPR	151 - 82	74ACT793J	♦MMI	239 - 48	74F169PC	♦FSC	163 - 76	74F385DC	♦FSC	198 - 32
54LS373FM	♦FSC	229 -109	61Z14B400	♦SPR	151 - 83	74ACT793N	♦MMI	239 - 49	74F169QC	♦FSC	163 - 77	74F385L1C	♦FSC	198 - 33
54LS374DM	♦FSC	61 - 30	61Z14B500	♦SPR	151 - 84	74ACT794J	♦MMI	239 - 50	74F169SC	♦FSC	163 - 78	74F385PC	♦FSC	198 - 34
54LS374FM	♦FSC	61 - 31	61Z14B750	♦SPR	151 - 85	74ACT794N	♦MMI	239 - 51	74F174DC	♦FSC	57 - 48	74F385QC	♦FSC	198 - 35
54LS375DM	♦FSC	229 - 24	61Z14B1000	♦SPR	151 - 86	74F00DC	♦FSC	95 - 57	74F174L1C	♦FSC	57 - 49	74F385SC	♦FSC	198 - 36
54LS375FM	♦FSC	229 - 25	61Z16A025	♦SPR	151 - 47	74F00L1C	♦FSC	97 -109	74F174PC	♦FSC	57 - 50	74F412DC	♦FSC	234 -106
54LS377DM	♦FSC	60 - 77	61Z16A030	♦SPR	151 - 48	74F00PC	♦FSC	95 - 58	74F174QC	♦FSC	57 - 51	74F412L1C	♦FSC	234 -107
54LS377FM	♦FSC	60 - 78	61Z16A035	♦SPR	151 - 49	74F00QC	♦FSC	97 -110	74F174SC	♦FSC	57 - 52	74F412PC	♦FSC	234 -108
54LS378DM(1)	♦FSC	56 - 57	61Z16A040	♦SPR	151 - 50	74F00SC	♦FSC	98 - 1	74F175DC	♦FSC	55 -102	74F412QC	♦FSC	234 -109
54LS378FM(1)	♦FSC	56 - 58	61Z16A045	♦SPR	151 - 51	74F02DC	♦FSC	112 - 47	74F175L1C	♦FSC	55 - 93	74F412SC	♦FSC	234 -110
54LS384DM	FSC	202 - 74	61Z16A050	♦SPR	151 - 52	74F02L1C	♦FSC	113 - 54	74F175PC	♦FSC	55 -103	74F418DC(A)	♦FSC	245 - 43
54LS384FM	FSC	202 - 75	61Z16A075	♦SPR	151 - 53	74F02PC	♦FSC	112 - 48	74F175QC	♦FSC	55 - 94	74F418L1C(A)	♦FSC	245 - 44
54LS386DM	♦FSC	91 - 43	61Z16A100	♦SPR	151 - 54	74F02QC	♦FSC	113 - 55	74F175SC	♦FSC	55 - 95	74F418PC(A)	♦FSC	245 - 45
54LS386FM	♦FSC	93 - 52	61Z16A150	♦SPR	151 - 55	74F02SC	♦FSC	113 - 56	74F181DC	♦FSC	221 - 48	74F418QC(A)	♦FSC	245 - 46
54LS390DM	♦FSC	182 - 5	61Z16A200	♦SPR	151 - 56	74F08DC	♦FSC	76 - 9	74F181L1C	♦FSC	221 - 49	74F418SC(A)	♦FSC	245 - 47
54LS390FM	♦FSC	182 - 6	61Z16A250	♦SPR	151 - 57	74F08L1C	♦FSC	76 - 10	74F181PC	♦FSC	221 - 50	74F420DC(A)	♦FSC	245 - 48
54LS393DM	♦FSC	164 - 66	61Z16A300	♦SPR	151 - 58	74F08PC	♦FSC	76 - 11	74F181QC	♦FSC	221 - 51	74F420L1C(A)	♦FSC	245 - 49
54LS393FM	♦FSC	164 - 67	61Z16A400	♦SPR	151 - 59	74F08QC	♦FSC	76 - 12	74F181SC	♦FSC	221 - 52	74F420PC(A)	♦FSC	245 - 50
54LS490DM	♦FSC	181 - 84	61Z16A500	♦SPR	151 - 60	74F08SC	♦FSC	77 - 36	74F182DC	♦FSC	224 - 79	74F420QC(A)	♦FSC	245 - 51
54LS490FM	♦FSC	181 - 85	61Z16B125	♦SPR	151 - 61	74F10DC	♦FSC	101 - 21	74F182L1C	♦FSC	224 - 80	74F420SC(A)	♦FSC	245 - 52
54LS533DM	♦FSC	230 - 5	63Z16P007	♦SPR	133 - 78	74F10L1C	♦FSC	102 - 52	74F182PC	♦FSC	224 - 81	74F432L1C	♦FSC	235 - 50
54LS533FM	♦FSC	230 - 6	63Z16P014	♦SPR	133 - 79	74F10PC	♦FSC	101 - 22	74F182QC	♦FSC	224 - 82	74F432PC	♦FSC	235 - 51
54LS534DM	♦FSC	61 - 32	63Z16P021	♦SPR	133 - 80	74F10QC	♦FSC	102 - 53	74F182SC	♦FSC	224 - 83	74F432QC	♦FSC	235 - 52
54LS534FM	♦FSC	61 - 33	63Z16P035	♦SPR	133 - 81	74F10SC	♦FSC	102 - 54	74F190DC	♦FSC	180 - 63	74F432SC	♦FSC	235 - 53
54LS563DC	FSC	229 -110	63Z16P070	♦SPR	133 - 82	74F11DC	♦FSC	79 - 30	74F190L1C	♦FSC	180 - 64	74F432SDC	♦FSC	235 - 54
54LS563DM	FSC	230 - 1	63Z16P105	♦SPR	133 - 83	74F11L1C	♦FSC	79 - 31	74F190PC	♦FSC	180 - 65	74F432SPC	♦FSC	235 - 55
54LS563FM	FSC	230 - 2	63Z16P140	♦SPR	133 - 84	74F11PC	♦FSC	79 - 32	74F190QC	♦FSC	180 - 66	74F521DC	♦FSC	215 - 81
54LS563PC	FSC	230 - 3	63Z16P280	♦SPR	133 - 85	74F11QC	♦FSC	79 - 33	74F190SC	♦FSC	180 - 67	74F521L1C	♦FSC	215 - 82
54LS564DM	FSC	61 - 34	63Z16P350	♦SPR	133 - 86	74F11SC	♦FSC	80 - 37	74F191DC	♦FSC	163 - 88	74F521PC	♦FSC	215 - 83
54LS564FM	FSC	61 - 35	65Z14A025	♦SPR	151 - 62	74F20DC	♦FSC	105 - 85	74F191L1C	♦FSC	163 - 89	74F521QC	♦FSC	215 - 84
54LS573DM	♦FSC	230 - 7	65Z14A050	♦SPR	151 - 63	74F20L1C	♦FSC	105 - 86	74F191PC	♦FSC	163 - 90	74F521SC	♦FSC	215 - 85
54LS573FM	♦FSC	230 - 8	65Z14A075	♦SPR	151 - 64	74F20PC	♦FSC	105 - 87	74F191QC	♦FSC	163 - 91	74F524DC	♦FSC	218 - 36
54LS574DM	FSC	61 - 36	65Z14A100	♦SPR	151 - 65	74F20QC	♦FSC	105 - 88	74F191SC	♦FSC	163 - 92	74F524L1C	♦FSC	216 - 6
54LS574FM	FSC	61 - 37	65Z14A125	♦SPR	151 - 66	74F20SC	♦FSC	105 - 89	74F192DC	♦FSC	180 - 68	74F524PC	♦FSC	218 - 37
54S00DM	♦FSC	95 - 55	65Z14A150	♦SPR	151 - 67	74F32DC	♦FSC	120 - 9	74F192L1C	♦FSC	180 - 69	74F524QC	♦FSC	218 - 38
54S00FM	♦FSC	97 -102	65Z14A200	♦SPR	151 - 68	74F32L1C	♦FSC	121 - 34	74F192PC	♦FSC	180 - 70	74F524SC	♦FSC	218 - 39
54S03DM	♦FSC	95 - 56	65Z16A025	♦SPR	151 - 69	74F32PC	♦FSC	120 - 10	74F192QC	♦FSC	180 - 71	74F525DC(A)	♦FSC	166 - 88
54S09FM	♦FSC	77 - 48	65Z16A050	♦SPR	151 - 70	74F32QC	♦FSC	121 - 35	74F192SC	♦FSC	180 - 72	74F525L1C(A)	♦FSC	166 - 89
54S10DM	♦FSC	101 - 20	65Z16A075	♦SPR	151 - 71	74F32SC	♦FSC	121 - 36	74F193DC	♦FSC	163 - 93	74F525PC(A)	♦FSC	166 - 90
54S10FM	♦FSC	102 - 41	65Z16A100	♦SPR	151 - 72	74F64DC	♦FSC	88 - 46	74F193L1C	♦FSC	163 - 94	74F525QC(A)	♦FSC	166 - 91
54S11DM	♦FSC	79 - 28	65Z16A125	♦SPR	151 - 73	74F64L1C	♦FSC	88 - 47	74F193PC	♦FSC	163 - 95	74F525SC(A)	♦FSC	166 - 92
54S11FM	♦FSC	80 - 34	65Z16A150	♦SPR	151 - 74	74F64PC	♦FSC	88 - 48	74F193QC	♦FSC	163 - 96	74F533DC	♦FSC	234 -104
54S15DM	♦FSC	79 - 29	65Z16A200	♦SPR	151 - 75	74F64QC	♦FSC	88 - 49	74F193SC	♦FSC	163 - 97	74F533L1C	♦FSC	235 - 10
54S15FM	♦FSC	80 - 46	67C7016-35J	♦MMI	206 - 86	74F64SC	♦FSC	88 - 50	74F256DC(A)	♦FSC	230 - 53	74F533PC	♦FSC	234 -105
54S20DM	♦FSC	104 - 36	67C7016-35N	♦MMI	206 - 87	74F74DC	♦FSC	53 - 6	74F256L1C(A)	♦FSC	230 - 54	74F533QC	♦FSC	235 - 11
54S20FM	♦FSC	105 - 66	67C7016-35NL	♦MMI	206 - 88	74F74L1C	♦FSC	53 - 7	74F256PC(A)	♦FSC	230 - 55	74F533SC	♦FSC	235 - 12
54S22DM	♦FSC	104 - 37	67C7016-45J	♦MMI	207 - 44	74F74PC	♦FSC	53 - 8	74F256QC(A)	♦FSC	230 - 56	74F534DC	♦FSC	63 - 40
54S22FM	♦FSC	106 - 21	67C7016-45N	♦MMI	207 - 45	74F74QC	♦FSC	53 - 9	74F256SC(A)	♦FSC	230 - 57	74F534L1C	♦FSC	63 - 41
54S30DM	♦FSC	110 - 17	67C7016-45NL	♦MMI	207 - 46	74F74SC	♦FSC	53 - 10	74F259DC(A)	♦FSC	234 - 87	74F534PC	♦FSC	63 - 94
54S30FM	♦FSC	110 - 18	67C7016-55J	♦MMI	208 - 35	74F85DC(A)	♦FSC	216 - 54	74F259L1C(A)	♦FSC	234 - 88	74F534QC	♦FSC	63 - 42
54S32DM	♦FSC	120 - 8	67C7016-55N	♦MMI	208 - 36	74F85L1C(A)	♦FSC	216 - 55	74F259PC(A)	♦FSC	234 - 89	74F534SC	♦FSC	63 - 43
54S32FM	♦FSC	121 - 52	67C7016-55NL	♦MMI	208 - 37	74F85PC(A)	♦FSC	216 - 56	74F259QC(A)	♦FSC	234 - 90	74F557DC(A)	♦FSC	203 - 30
54S51DM	♦FSC	85 - 71	67C7017-35J	♦MMI	206 - 89	74F85QC(A)	♦FSC	216 - 57	74F259SC(A)	♦FSC	234 - 91	74F557L1C(A)	♦FSC	203 - 31
54S51FM	♦FSC	85 - 72	67C7017-35N	♦MMI	206 - 90	74F85SC(A)	♦FSC	216 - 58	74F269DC(A)	♦FSC	166 - 98	74F557PC(A)	♦FSC	203 - 32
54S64DM	♦FSC	88 - 29	67C7017-35NL	♦MMI	206 - 91	74F86DC	♦FSC	91 - 44	74F269L1C(A)	♦FSC	166 - 99	74F558DC(A)	♦FSC	203 - 33
54S64FM	♦FSC	88 - 24	67C7017-45J	♦MMI	207 - 47	74F86L1C	♦FSC	93 - 16	74F269PC(A)	♦FSC	166 -100	74F558L1C(A)	♦FSC	203 - 34
54S65FM	♦FSC	88 - 28	67C7017-45L	MMI	207 - 48	74F86PC	♦FSC	91 - 45	74F269QC(A)	♦FSC	166 -101	74F558PC(A)	♦FSC	203 - 35
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54S74FM	♦FSC	52 - 94	67C7017-45NL	♦MMI	207 - 50	74F86SC	♦FSC	93 - 18	74F269SPC(A)	♦FSC	166 -103	74F563DC(A)	♦FSC	234 - 42
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54S86FM	♦FSC	93 - 72	67C7017-55N	♦MMI	208 - 39	74F109L1C	♦FSC	74 - 9	74F273L1C(A)	♦FSC	63 - 31	74F563PC(A)	♦FSC	234 - 11
54S109DM	♦FSC	73 - 60	67C7017-55NL	♦MMI	208 - 40	74F109PC	♦FSC	74 - 10	74F273PC(A)	♦FSC	63 - 32	74F563QC(A)	♦FSC	234 - 12
54S109FM	♦FSC	73 - 61	70A5101	♦ESAN	144 - 38	74F109QC	♦FSC	74 - 11	74F273QC(A)	♦FSC	63 - 33	74F563SC(A)	♦FSC	234 - 13
54S112DM	♦FSC	74 - 4	70A5125	♦ESAN	144 - 39	74F109SC	♦FSC	74 - 12	74F273SC(A)	♦FSC	63 - 34	74F564DC(A)	♦FSC	63 - 44
54S112FM	♦FSC	74 - 5	70A5151	♦ESAN	144 - 40	74F112DC	♦FSC	74 - 56	74F280DC	♦FSC	226 - 67	74F564L1C(A)	♦FSC	63 - 45
54S113FM	♦FSC	74 - 6	70A5175	♦ESAN	144 - 41	74F112L1C	♦FSC	74 - 57	74F280L1C	♦FSC	226 - 68	74F564PC(A)	♦FSC	63 - 46
54S114FM	♦FSC	74 - 7	70A5200	♦ESAN	144 - 42	74F112PC	♦FSC	74 - 58	74F280PC	♦FSC	226 - 69	74F564QC(A)	♦FSC	63 - 47
54S133DM	♦FSC	111 - 50	70A5201	♦ESAN	144 - 43	74F112QC	♦FSC	74 - 59	74F280QC	♦FSC	226 - 70	74F564SC(A)	♦FSC	63 - 48
54S133FM	♦FSC	111 - 51	70A5250	♦ESAN	144 - 44	74F112SC	♦FSC	74 - 60	74F280SC	♦FSC	226 - 71	74F568DC	♦FSC	180 - 52
54S134FM	♦FSC	111 - 37	70A5251	♦ESAN	144 - 45	74F113DC	♦FSC	74 - 13	74F283DC	♦FSC	199 - 61	74F568L1C	♦FSC	180 - 53
54S135FM	♦FSC	94 - 80	70A5300	♦ESAN	144 - 46	74F113L1C	♦FSC	74 - 14	74F283L1C	♦FSC	199 - 51	74F568PC	♦FSC	180 - 54
54S175DM	♦FSC	53 -103	70A5400	♦ESAN	144 - 47	74F113PC	♦FSC	74 - 15	74F283PC	♦FSC	199 - 62	74F568QC	♦FSC	180 - 55
54S175FM	♦FSC	53 -104	70A5500	♦ESAN	144 - 48	74F113QC	♦FSC	74 - 16	74F283QC	♦FSC	199 - 52	74F568SC	♦FSC	167 - 1
54S181DM	FSC	220 -105	70A5600	♦ESAN	144 - 49	74F113SC	♦FSC	74 - 17	74F283SC	♦FSC	199 - 53	74F569DC	♦FSC	163 - 79
54S181FM	FSC	220 -106	70A5750	♦ESAN	144 - 50	74F114DC	♦FSC	74 - 18	74F373DC	♦FSC	234 - 37	74F569L1C	♦FSC	176 - 55
54S182DM	FSC	224 - 77	74AC00DC(A)	♦FSC	98 - 30	74F114L1C	♦FSC	74 - 19	74F373L1C	♦FSC	234 - 38	74F569PC	♦FSC	163 - 80
54S182FM	FSC	224 - 78	74AC00PC(A)	♦FSC	98 - 31	74F114PC	♦FSC	74 - 20	74F373PC	♦FSC	234 - 39	74F569QC	♦FSC	176 - 56
54S260DM	FSC	119 - 15	74AC00SC(A)	♦FSC	98 - 32	74F114QC	♦FSC	74 - 21	74F373QC	♦FSC	234 - 40	74F569SC	♦FSC	163 - 81
54S260FM	FSC	119 - 16	74AC74DC(A)	♦FSC	52 -110	74F114SC	♦FSC	74 - 22	74F373SC	♦FSC	234 - 41	74F573DC(A)	♦FSC	235 - 83
54S280DM	FSC	226 - 65	74AC74PC(A)	♦FSC	53 - 1	74F160ADC	♦FSC	176 - 65	74F374DC	♦FSC	64 - 41	74F573L1C(A)	♦FSC	234 - 43
54S280FM	FSC	226 - 66	74AC74SC(A)	♦FSC	53 - 2	74F160AL1C	♦FSC	176 - 66	74F374L1C	♦FSC	64 - 42	74F573PC(A)	♦FSC	234 - 44
60A014	♦CSD	131 - 42	74AC109DC(A)	♦FSC	73 - 62	74F160APC	♦FSC	176 - 67	74F374PC	♦FSC	64 - 43	74F573QC(A)	♦FSC	234 - 45
60A021	♦CSD	131 - 43	74AC109PC(A)	♦FSC	73 - 63	74F160AQC	♦FSC	176 - 68	74F374QC	♦FSC	64 - 44	74F573SC(A)	♦FSC	234 - 46
60A028	♦CSD	131 - 44	74AC109SC(A)	♦FSC	73 - 64	74F160ASC	♦FSC	176 - 69	74F374SC	♦FSC	64 - 45	74F574DC(A)	♦FSC	63 - 49
60A035	♦CSD	131 - 45	74AC373DC(A)	♦FSC	236 - 15	74F160DC	♦FSC	176 - 70	74F377DC(A)	♦FSC	63 - 35	74F574L1C(A)	♦FSC	63 - 50
60A042	♦CSD	131 - 46	74AC373PC(A)	♦FSC	236 - 16	74F160PC	♦FSC	176 - 71	74F377L1C(A)	♦FSC	63 - 36	74F574PC(A)	♦FSC	63 - 51

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74F843DC(A)	♦FSC	241 - 73
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74F843PC(A)	♦FSC	241 - 75
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74F843SC(A)	♦FSC	241 - 77
74F843SDC(A)	♦FSC	241 - 78
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74F845PC(A)	♦FSC	234 - 49
74F845QC(A)	♦FSC	234 - 50
74F845SC(A)	♦FSC	234 - 51
74F845SDC(A)	♦FSC	234 - 52
74F845SPC(A)	♦FSC	234 - 53
74H00DC	♦FSC	95 - 59
74H00PC	♦FSC	95 - 60
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74H10PC	♦FSC	101 - 24
74H11DC	♦FSC	79 - 34
74H11PC	♦FSC	79 - 35
74H20DC	♦FSC	106 - 33
74H20PC	♦FSC	106 - 34
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74H22PC	♦FSC	104 - 39
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74HC00N	♦SIC	98 - 87
74HC02D	♦SIC	113 - 85
74HC02N	♦SIC	113 - 86
74HC03D	♦SIC	98 - 88
74HC03N	♦SIC	98 - 89
74HC08D	♦SIC	77 - 82
74HC08N	♦SIC	77 - 83
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74HC10N	♦SIC	103 - 2
74HC11D	♦SIC	80 - 66
74HC11N	♦SIC	80 - 67
74HC20D	♦SIC	106 -107
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74HC42D	♦SIC	125 - 52
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74HC73D	♦SIC	70 - 2
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74HC74D	♦SIC	51 - 92
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74HC75D	♦SIC	231 - 11
74HC75N	♦SIC	231 - 12
74HC85D	♦SIC	216 -107
74HC85N	♦SIC	216 -108
74HC86D	♦SIC	93 - 46
74HC86N	♦SIC	93 - 47
74HC93D	♦SIC	157 - 4
74HC93N	♦SIC	157 - 5
74HC107D	♦SIC	70 - 4
74HC107N	♦SIC	70 - 5
74HC109D	♦SIC	70 - 6
74HC109N	♦SIC	70 - 7
74HC112D	♦SIC	70 - 8
74HC112N	♦SIC	70 - 9
74HC123D	♦SIC	189 - 19
74HC123N	♦SIC	189 - 20
74HC160D	♦SIC	174 - 77
74HC160N	♦SIC	174 - 78
74HC161D	♦SIC	156 - 38
74HC161N	♦SIC	156 - 39
74HC162D	♦SIC	174 - 75
74HC162N	♦SIC	174 - 76
74HC163D	♦SIC	157 - 2
74HC163N	♦SIC	157 - 3
74HC173D	♦SIC	54 - 77
74HC173N	♦SIC	54 - 78
74HC174D	♦SIC	56 - 51
74HC174N	♦SIC	56 - 52
74HC175D	♦SIC	54 - 79
74HC175N	♦SIC	54 - 80
74HC181D	♦SIC	221 - 94
74HC181N	♦SIC	221 - 95
74HC182D	♦SIC	225 - 47
74HC182N	♦SIC	225 - 48
74HC190D	♦SIC	178 - 21
74HC190N	♦SIC	178 - 22
74HC191D	♦SIC	161 - 66
74HC191N	♦SIC	161 - 67
74HC192D	♦SIC	178 - 80
74HC192N	♦SIC	178 - 81
74HC193D	♦SIC	161 - 68
74HC193N	♦SIC	161 - 69
74HC221D	♦SIC	189 - 21
74HC221N	♦SIC	189 - 22
74HC259D	♦SIC	239 - 37
74HC259N	♦SIC	239 - 38
74HC273D	♦SIC	60 - 59
74HC273N	♦SIC	60 - 60
74HC280D	♦SIC	226 - 94
74HC280N	♦SIC	226 - 95
74HC283D	♦SIC	200 - 80
74HC283N	♦SIC	200 - 81
74HC373D	♦SIC	239 - 11
74HC373N	♦SIC	239 - 12
74HC374D	♦SIC	60 - 61
74HC374N	♦SIC	60 - 62
74HC377D	♦SIC	60 - 63
74HC377N	♦SIC	60 - 64
74HC390D	♦SIC	182 - 19
74HC390N	♦SIC	182 - 20
74HC393D	♦SIC	164 -104
74HC393N	♦SIC	164 -105
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74HC534D	♦SIC	60 - 65
74HC534N	♦SIC	60 - 66
74HC563D	♦SIC	239 - 19
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74HC563N	♦SIC	239 - 75
74HC564D	♦SIC	60 - 67
74HC564N	♦SIC	60 - 68
74HC573D	♦SIC	238 - 57
74HC573N	♦SIC	238 - 58
74HC574D	♦AEIL	57 - 75
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74HC574N	♦AEIL	57 - 76
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74HC583D	♦SIC	199 - 69
74HC583N	♦SIC	199 - 70
74HC688D	♦SIC	218 - 40
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74HC4002N	♦RCA	118 - 1
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74HC4020D	♦SIC	166 - 73
74HC4020N	♦SIC	166 - 74
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74HC4040N	♦SIC	166 - 78
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74HC4510D	♦SIC	180 - 18
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74HCT02N	♦SIC	114 - 1
74HCT03D	♦SIC	99 - 40
74HCT03N	♦SIC	99 - 41
74HCT08D	♦SIC	77 -105
74HCT08N	♦SIC	77 -106
74HCT10D	♦SIC	103 - 21
74HCT10N	♦SIC	103 - 22
74HCT11D	♦SIC	80 - 84
74HCT11N	♦SIC	80 - 85
74HCT20D	♦SIC	106 -109
74HCT20N	♦SIC	106 -110
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74HCT21N	♦SIC	82 - 16
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74HCT32D	♦SIC	121 - 84
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74HCT42D	♦SIC	125 - 54
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74HCT58D	♦SIC	85 - 19
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74HCT73D	♦SIC	68 -103
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74HCT74D	♦SIC	51 - 44
74HCT74N	♦SIC	51 - 45
74HCT75D	♦SIC	231 - 87
74HCT75N	♦SIC	231 - 88
74HCT85D	♦SIC	217 - 20
74HCT85N	♦SIC	217 - 21
74HCT86D	♦SIC	94 - 13
74HCT86N	♦SIC	94 - 14
74HCT93D	♦SIC	156 - 60
74HCT93N	♦SIC	156 - 61
74HCT107D	♦SIC	69 - 5
74HCT107N	♦SIC	69 - 6
74HCT109D	♦SIC	68 -105
74HCT109N	♦SIC	68 -106
74HCT112D	♦SIC	68 -107
74HCT112N	♦SIC	68 -108
74HCT123D	♦SIC	189 - 27
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74HCT160D	♦SIC	173 - 61
74HCT160N	♦SIC	173 - 62
74HCT161D	♦SIC	155 - 79
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74HCT162D	♦SIC	174 - 21
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74HCT163D	♦SIC	156 - 40
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74HCT174N	♦SIC	56 - 37
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74HCT181D	♦SIC	222 - 5
74HCT181N	♦SIC	222 - 6
74HCT182D	♦SIC	225 - 63
74HCT182N	♦SIC	225 - 64
74HCT190D	♦SIC	178 - 12
74HCT190N	♦SIC	178 - 13
74HCT191D	♦SIC	161 - 27
74HCT191N	♦SIC	161 - 28
74HCT192D	♦SIC	178 - 94
74HCT192N	♦SIC	178 - 95
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74HCT273N(A)	♦SIC	58 - 99
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74HCT283N	♦SIC	200 -103
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74HCT373N	♦SIC	239 - 53
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74HCT374D	♦SIC	59 - 93
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74HCT374N	♦SIC	59 - 94
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74HCT374P	♦STX	61 - 39
74HCT377D	♦SIC	59 - 99
74HCT377N	♦SIC	59 -100
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74HCT390N	♦SIC	182 - 16
74HCT390P(A)	♦STX	182 - 3
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74HCT393D(A)	♦SIC	164 - 10
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74HCT393N	♦SIC	164 - 90
74HCT393P(A)	♦STX	164 - 11
74HCT423D	♦SIC	189 - 31
74HCT423N	♦SIC	189 - 32
74HCT533	♦AEIL	233 - 51
74HCT533C	♦STX	239 - 22
74HCT533D	♦SIC	240 - 16
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74HCT533N	♦SIC	240 - 17
	♦STX	
74HCT533P	♦STX	239 - 23
74HCT534	♦AEIL	57 - 80
74HCT534C	♦STX	61 - 40
74HCT534D	♦SIC	58 -109
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74HCT534N	♦SIC	58 -110
74HCT534P	♦STX	61 - 41
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74HCT563N	♦SIC	239 - 76
74HCT563P	♦STX	239 - 26
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74HCT564D	♦SIC	59 -101
	♦STX	
74HCT564N	♦SIC	59 -102
74HCT564P	♦STX	61 - 43
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74HCT573C	♦STX	239 - 27
74HCT573D	♦SIC	239 - 77
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74HCT573N	♦SIC	239 - 78
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74HCT574N	♦AEIL	57 - 82
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74HCT574P	♦STX	61 - 46
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74HCT4024N	♦SIC	166 - 67
74HCT4040D	♦SIC	166 - 68
74HCT4040N	♦SIC	166 - 69
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74HCT4060D	♦SIC	172 - 4
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74HCT4075N	♦SIC	123 - 25
74HCT4510D	♦SIC	180 - 20
74HCT4510N	♦SIC	180 - 21
74HCT4516D	♦SIC	163 - 43
74HCT4516N	♦SIC	163 - 44
74HCT4518D	♦SIC	181 - 35
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74HCT4520D	♦SIC	164 - 68
74HCT4520N	♦SIC	164 - 69
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74HCT40102D	♦SIC	182 - 55
74HCT40102N	♦SIC	182 - 56
74HCT40103D	♦SIC	168 - 10
74HCT40103N	♦SIC	168 - 11
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74LS02PC	♦FSC	112 - 50
74LS03DC	♦FSC	95 - 65
74LS03PC	♦FSC	95 - 66
74LS08DC	♦FSC	76 - 13
74LS08PC	♦FSC	76 - 14
74LS09PC	♦FSC	77 - 61
74LS10DC	♦FSC	101 - 25
74LS10PC	♦FSC	101 - 26
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74LS11PC	♦FSC	79 - 39
74LS15PC	♦FSC	79 - 40
74LS20DC	♦FSC	106 - 10
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74LS51PC	♦FSC	88 - 85
74LS54DC	♦FSC	88 - 4
74LS54PC	♦FSC	88 - 5
74LS55PC	♦FSC	89 - 20
74LS76DC	♦FSC	70 - 28
74LS76PC	FSC	70 - 29
74LS83ADC	♦FSC	200 - 5
74LS83APC	♦FSC	200 - 6
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74LS86DC	♦FSC	93 - 53
74LS86PC	♦FSC	93 - 54
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74LS92PC	♦FSC	167 - 88
74LS93DC	♦FSC	157 - 24
74LS93PC	♦FSC	157 - 25
74LS109DC	♦FSC	71 - 96
74LS109PC	♦FSC	71 - 97
74LS112DC	♦FSC	71 - 98
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74LS114PC	♦FSC	71 -101
74LS133DC	♦FSC	111 - 72
74LS133PC	♦FSC	111 - 73
74LS136DC	♦FSC	91 - 46
74LS136PC	♦FSC	91 - 47
74LS160PC	♦FSC	172 - 37
74LS161DC	♦FSC	154 - 12
74LS161PC	♦FSC	154 - 13
74LS162PC	♦FSC	172 - 38
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74LS168DC	♦FSC	178 - 96
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74LS181PC	♦FSC	222 - 73
74LS190PC	♦FSC	179 -104
74LS191DC	♦FSC	163 - 9
74LS191PC	♦FSC	163 - 10
74LS192DC	♦FSC	179 -109
74LS192PC	♦FSC	179 -110
74LS193DC	♦FSC	163 - 21
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74LS196PC	♦FSC	176 - 19
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74LS259PC	♦FSC	238 - 21
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74LS260PC	♦FSC	119 - 29
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74LS279DC	♦FSC	243 - 46
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74LS283DC	FSC	200 - 7
74LS283PC	FSC	200 - 8
74LS290DC	♦FSC	176 - 5
74LS290PC	♦FSC	176 - 6
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74LS293PC	♦FSC	158 - 44
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74LS377PC	♦FSC	60 - 82	76Z14A125H	♦SPR	135 - 70	80A200	♦ESAN	144 - 61	201RHT7507L	♦TAI	144 - 91	951HM	♦FSC	188 - 37
74LS378DC	♦FSC	56 - 59	76Z14A0150F	SPR	135 - 71	80A250	♦ESAN	144 - 62	201RHT7507P	♦TAI	144 - 92	952DC	FSC	120 - 5
74LS378PC	♦FSC	56 - 60	76Z14A0150H	SPR	135 - 72	82C82CJ	♦MMI	238 - 72	883C4000B	♦SSS	112 - 27	953DC	FSC	79 - 6
74LS390DC	♦FSC	181 - 37	76Z14A150F	♦SPR	135 - 73	82C82CN	♦MMI	238 - 73	883C4001B	♦SSS	114 -100	954DC	FSC	81 -102
74LS390PC	♦FSC	181 - 38	76Z14A150H	♦SPR	135 - 74	82C82MJ	♦MMI	238 - 74	883C4001UB	♦SSS	114 - 53	955DC	FSC	83 - 43
74LS393DC	♦FSC	164 - 70	76Z14A0200F	SPR	135 - 75	82C82ML	♦MMI	238 - 75	883C4002B	♦SSS	118 - 84	956DC	FSC	76 - 4
74LS393PC	♦FSC	164 - 71	76Z14A0200H	SPR	135 - 76	82C82MW	♦MMI	238 - 76	883C4008B	♦SSS	201 - 19	957DC	FSC	75 - 10
74LS490PC	♦FSC	181 - 86	76Z14A200F	♦SPR	135 - 77	82C83CJ	♦MMI	238 - 77	883C4011B	♦SSS	100 - 83	958DC	FSC	165 - 89
74LS533DC	♦FSC	230 - 9	76Z14A200H	♦SPR	135 - 78	82C83CN	♦MMI	238 - 78	883C4011UB	♦SSS	100 - 24	958HM	FSC	165 - 90
74LS533PC	♦FSC	230 - 10	76Z16A010F	♦SPR	135 - 79	82C83MJ	♦MMI	238 - 79	883C4012B	♦SSS	107 - 98	960DC	FSC	126 - 35
74LS534DC	♦FSC	61 - 49	76Z16A010H	♦SPR	135 - 80	82C83ML	♦MMI	238 - 80	883C4013B	♦SSS	51 - 51	961DC	♦FSC	104 - 52
74LS534PC	♦FSC	61 - 50	76Z16A010T	♦SPR	135 - 81	82C83MW	♦MMI	238 - 81	883C4017B	♦SSS	183 - 33	961DM	♦FSC	104 - 53
74S00DC	♦FSC	95 - 69	76Z16A020F	♦SPR	135 - 82	93L01DC	♦FSC	126 - 31	883C4018B	♦SSS	185 - 91	961FM	♦FSC	104 - 54
74S00PC	♦FSC	95 - 70	76Z16A020H	♦SPR	135 - 83	93L01DM	♦FSC	126 - 32	883C4019B	♦SSS	84 - 85	962DM	FSC	101 - 29
74S02PC	♦FSC	112 - 51	76Z16A020T	♦SPR	135 - 84	93L01FM	♦FSC	126 - 33	883C4020B	♦SSS	171 - 23	962FM	FSC	103 - 89
74S03DC	♦FSC	95 - 71	76Z16A030F	♦SPR	135 - 85	93L08DC	♦FSC	231 - 74	883C4022B	♦SSS	184 - 98	963DC	FSC	101 - 30
74S03PC	♦FSC	95 - 72	76Z16A030H	♦SPR	135 - 86	93L08DM	♦FSC	231 - 75	883C4023B	♦SSS	103 - 91	963DM	FSC	101 - 31
74S08DC	♦FSC	76 - 15	76Z16A030T	♦SPR	135 - 87	93L08FM	♦FSC	231 - 76	883C4024B	♦SSS	168 - 43	963FM	FSC	103 - 61
74S08PC	♦FSC	76 - 16	76Z16A040F	♦SPR	135 - 88	93L08PC	♦FSC	231 - 77	883C4025B	♦SSS	116 -100	964DC	FSC	80 - 33
74S10DC	♦FSC	101 - 27	76Z16A040H	♦SPR	135 - 89	93L10DC	♦FSC	173 - 63	883C4027B	♦SSS	67 - 78	966DC	FSC	85 - 24
74S10PC	♦FSC	101 - 28	76Z16A040T	♦SPR	135 - 90	93L10DM	♦FSC	173 - 64	883C4028B	♦SSS	126 - 34	967DC	FSC	66 - 21
74S11DC	♦FSC	79 - 41	76Z16A050F	♦SPR	135 - 91	93L10FM	♦FSC	173 - 65	883C4029B	♦SSS	160 - 73	971DC	FSC	85 - 22
74S11PC	♦FSC	79 - 42	76Z16A050H	♦SPR	135 - 92	93L10PC	♦FSC	173 - 66	883C4030B	♦SSS	91 - 48	989DC	FSC	165 - 47
74S15PC	♦FSC	79 - 43	76Z16A050T	♦SPR	135 - 93	93L14DC	♦FSC	232 - 3	883C4040B	♦SSS	170 - 20	989HM	FSC	165 - 48
74S20DC	♦FSC	105 - 67	76Z16A075F	♦SPR	135 - 94	93L14DM	♦FSC	232 - 4	883C4042B	♦SSS	232 - 37	4001BDC	♦FSC	114 - 48
74S20PC	♦FSC	105 - 68	76Z16A075H	♦SPR	135 - 95	93L14FM	♦FSC	232 - 5	883C4043B	♦SSS	243 -100	4001BDM	♦FSC	114 - 49
74S22DC	♦FSC	104 - 41	76Z16A075T	♦SPR	135 - 96	93L14PC	♦FSC	232 - 6	883C4044B	♦SSS	243 -101	4001BFC	♦FSC	114 - 50
74S22PC	♦FSC	104 - 42	76Z16A100F	♦SPR	135 - 97	93L16DC	♦FSC	155 - 35	883C4060B	♦SSS	171 - 24	4001BFM	♦FSC	114 - 51
74S30DC	♦FSC	110 - 19	76Z16A100H	♦SPR	135 - 98	93L16DM	♦FSC	155 - 36	883C4068B	♦SSS	110 - 69	4001BPC	♦FSC	114 - 52
74S30PC	♦FSC	110 - 20	76Z16A100T	♦SPR	135 - 99	93L16FM	♦FSC	155 - 37	883C4070B	♦SSS	91 - 49	4002A	MULB	119 - 3
74S32DC	♦FSC	120 - 13	76Z16A125F	♦SPR	135 -100	93L16PC	♦FSC	155 - 38	883C4071B	♦SSS	121 -109		PHIN	
74S32PC	♦FSC	120 - 14	76Z16A125H	♦SPR	135 -101	93L24DC	♦FSC	218 - 15	883C4072B	♦SSS	124 - 19	4002BDC	♦FSC	118 - 66
74S51DC	♦FSC	85 - 78	76Z16A150F	♦SPR	135 -102	93L24DM	♦FSC	218 - 16	883C4073B	♦SSS	81 - 3	4002BDM	♦FSC	118 - 67
74S51PC	♦FSC	85 - 79	76Z16A150H	♦SPR	135 -103	93L24FM	♦FSC	218 - 17	883C4075B	♦SSS	123 - 51	4002BFC	♦FSC	118 - 68
74S64DC	♦FSC	88 - 30	76Z16A200F	♦SPR	135 -104	93L24PC	♦FSC	218 - 18	883C4076B	♦SSS	54 - 20	4002BFM	♦FSC	118 - 69
74S64PC	♦FSC	88 - 31	76Z16A200H	♦SPR	135 -105	93L34DC	♦FSC	239 - 15	883C4077B	♦SSS	89 - 93	4002BPC	♦FSC	118 - 70
74S65PC	♦FSC	88 - 32	76ZQDA010F	♦SPR	135 -106	93L34DM	♦FSC	239 - 16	883C4078B	♦SSS	119 - 69	4008BDC	♦FSC	201 - 5
74S74DC	♦FSC	52 - 95	76ZQDA010H	♦SPR	135 -107	93L34FM	♦FSC	239 - 17	883C4081B	♦SSS	78 - 71	4008BDM	♦FSC	201 - 6
74S74PC	♦FSC	52 - 96	76ZQDA010T	♦SPR	135 -108	93L34PC	♦FSC	239 - 18	883C4082B	♦SSS	83 - 5	4008BFC	♦FSC	201 - 7
74S86DC	♦FSC	93 - 73	76ZQDA020F	♦SPR	135 -109	93L41FM	♦FSC	221 - 99	883C4085B	♦SSS	85 - 38	4008BFM	♦FSC	201 - 8
74S86PC	♦FSC	93 - 74	76ZQDA020H	♦SPR	135 -110	93S10DC	AMD	176 - 46	883C4086B	♦SSS	86 - 80	4008BPC	♦FSC	201 - 9
74S109DC	♦FSC	73 - 68	76ZQDA020T	♦SPR	136 - 1		♦FSC		883C4099B	♦SSS	244 - 73	4011A	MULB	101 - 1
74S109PC	♦FSC	73 - 69	76ZQDA030F	♦SPR	136 - 2	93S10DM	♦FSC	176 - 47	883C4160B	♦SSS	173 - 45		PHIN	
74S112DC	♦FSC	74 - 23	76ZQDA030H	♦SPR	136 - 3	93S10FM	♦FSC	176 - 48	883C4161B	♦SSS	155 - 17	4011BDC	♦FSC	100 - 19
74S112PC	♦FSC	74 - 24	76ZQDA030T	♦SPR	136 - 4	93S10PC	AMD	176 - 49	883C4162B	♦SSS	173 - 46	4011BDM	♦FSC	100 - 20
74S113PC	♦FSC	74 - 25	76ZQDA040F	♦SPR	136 - 5	93S16DC	AMD	158 - 90	883C4163B	♦SSS	155 - 18	4011BFC	♦FSC	100 - 21
74S133DC	♦FSC	111 - 52	76ZQDA040H	♦SPR	136 - 6		♦FSC		883C4174B	♦SSS	56 - 13	4011BFM	♦FSC	100 - 22
74S133PC	♦FSC	111 - 53	76ZQDA040T	♦SPR	136 - 7	93S16DM	♦FSC	158 - 91	883C4192B	♦SSS	177 -105	4011BPC	♦FSC	100 - 23
74S135PC	♦FSC	95 - 4	76ZQDA050F	♦SPR	136 - 8	93S16FM	♦FSC	158 - 92	883C4193B	♦SSS	160 - 74	4012A	MULB	108 - 42
74S175DC	FSC	53 -107	76ZQDA050H	♦SPR	136 - 9	93S16PC	AMD	158 - 93	883C4402B	♦SSS	118 - 85		PHIN	
74S175PC	FSC	53 -108	76ZQDA050T	♦SPR	136 - 10	93S41DC	♦FSC	220 -110	883C4404B	♦SSS	169 - 1	4012BDC	♦FSC	107 - 60
74S181DC	FSC	220 -108	76ZQDA075F	♦SPR	136 - 11	93S41DM	♦FSC	221 - 1	883C4412B	♦SSS	107 - 99	4012BDM	♦FSC	107 - 61
74S181PC	FSC	220 -109	76ZQDA075H	♦SPR	136 - 12	93S41FM	♦FSC	221 - 2	883C4428B	♦SSS	125 - 10	4012BFC	♦FSC	107 - 62
74S182DC	FSC	224 - 84	76ZQDA075T	♦SPR	136 - 13	93S41PC	♦FSC	221 - 3	883C4445B	♦SSS	194 - 59	4012BFM	♦FSC	107 - 63
74S182PC	FSC	224 - 85	76ZQDA100F	♦SPR	136 - 14	93S42DC	♦FSC	224 -109	883C4508B	♦SSS	232 - 59	4012BPC	♦FSC	107 - 64
74SC273C(A)	♦STX	57 - 83	76ZQDA100H	♦SPR	136 - 15	93S42DM	♦FSC	224 -110	883C4510B	♦SSS	177 -106	4013BDC	♦FSC	50 - 89
74SC273D(A)	♦STX	57 - 84	76ZQDA100T	♦SPR	136 - 16	93S42FM	♦FSC	225 - 1	883C4514B	♦SSS	125 - 65	4013BDM	♦FSC	50 - 90
74SC273P(A)	♦STX	57 - 85	76ZQDA125F	♦SPR	136 - 17	93S42PC	♦FSC	225 - 2	883C4515B	♦SSS	125 - 66	4013BFC	♦FSC	50 - 91
74SC373C	♦STX	240 - 4	76ZQDA125H	♦SPR	136 - 18	93S43DC	♦FSC	202 - 29	883C4516B	♦SSS	160 - 75	4013BFM	♦FSC	50 - 92
74SC373D	♦STX	240 - 5	76ZQDA150F	♦SPR	136 - 19	93S43DM	♦FSC	202 - 30	883C4518B	♦SSS	181 - 8	4013BPC	♦FSC	50 - 93
74SC373P	♦STX	240 - 6	76ZQDA150H	♦SPR	136 - 20	93S43FM	♦FSC	202 - 31	883C4520B	♦SSS	164 - 36	4017BDC	♦FSC	183 - 21
74SC374C	♦STX	59 - 20	76ZQDA200F	♦SPR	136 - 21	93S43PC	♦FSC	202 - 32	883C4522B	♦SSS	177 - 4	4017BDM	♦FSC	183 - 22
74SC374D	♦STX	59 - 21	76ZQDA200H	♦SPR	136 - 22	93S46DC	♦FSC	215 - 44	883C4526B	♦SSS	159 - 59	4017BFC	♦FSC	183 - 23
74SC374P	♦STX	59 - 22	77Z14A025	♦SPR	136 - 23	93S46DM	♦FSC	215 - 45	883C4527B	♦SSS	197 - 80	4017BFM	♦FSC	183 - 24
74SC390C(A)	♦STX	182 - 7	77Z14A030	♦SPR	136 - 24	93S46FM	♦FSC	215 - 46	883C4528B	♦SSS	189 - 45	4017BPC	♦FSC	183 - 25
74SC390D(A)	♦STX	182 - 8	77Z14A035	♦SPR	136 - 25	93S46PC	♦FSC	215 - 47	883C4531B	♦SSS	228 - 17	4018BDC	♦FSC	185 - 71
74SC390P(A)	♦STX	182 - 9	77Z14A040	♦SPR	136 - 26	93S47DC	♦FSC	215 - 49	883C4556B	♦SSS	126 - 8	4018BDM	♦FSC	185 - 72
74SC393C(A)	♦STX	164 - 72	77Z14A045	♦SPR	136 - 27	93S47DM	♦FSC	215 - 50	883C4581B	♦SSS	222 - 88	4018BFC	♦FSC	185 - 73
74SC393D(A)	♦STX	164 - 73	77Z14A050	♦SPR	136 - 28	93S47FM	♦FSC	215 - 51	883C4582B	♦SSS	225 - 70	4018BFM	♦FSC	185 - 74
74SC393P(A)	♦STX	164 - 74	77Z14A060	♦SPR	136 - 29	93S47PC	♦FSC	215 - 52	883C4585B	♦SSS	217 - 63	4018BPC	♦FSC	185 - 75
74SC533C	♦STX	240 - 7	77Z14A070	♦SPR	136 - 30	93S48DC	AMD	227 -110	903HM	FSC	115 - 15	4020BDC	♦FSC	171 - 39
74SC533D	♦STX	240 - 8	77Z14A075	♦SPR	136 - 31	93S48PC	AMD	228 - 1	907HM	FSC	117 - 82	4020BDM	♦FSC	171 - 40
74SC533P	♦STX	240 - 9	77Z14A100	♦SPR	136 - 32	93S62DC	♦FSC	226 - 86	909HC	♦FSC	112 - 39	4020BFC	♦FSC	171 - 41
74SC534C	♦STX	59 - 23	77Z14A150	♦SPR	136 - 33	93S62DM	♦FSC	226 - 87	909HM	♦FSC	112 - 40	4020BFM	♦FSC	171 - 42
74SC534D	♦STX	59 - 24	77Z14A200	♦SPR	136 - 34	93S62FM	♦FSC	226 - 88	910HM	♦FSC	112 - 41	4020BPC	♦FSC	171 - 43
74SC534P	♦STX	59 - 25	77Z14A250	♦SPR	136 - 35	93S62PC	♦FSC	226 - 89	911HM	♦FSC	117 - 83	4022BDC	♦FSC	185 - 17
74SC563C	♦STX	240 - 10	77Z16A025	♦SPR	136 - 36	96L02DC	♦FSC	189 - 35	913HM	♦FSC	75 - 50	4022BDM	♦FSC	185 - 18
74SC563D	♦STX	240 - 11	77Z16A030	♦SPR	136 - 37	96L02DM	♦FSC	189 - 36	914HM	FSC	112 - 42	4022BFC	♦FSC	185 - 19
74SC563P	♦STX	240 - 12	77Z16A035	♦SPR	136 - 38	96L02FM	♦FSC	189 - 37	921HM	♦FSC	112 - 43	4022BFM	♦FSC	185 - 20
74SC564C	♦STX	59 - 26	77Z16A040	♦SPR	136 - 39	96L02PC	♦FSC	189 - 38	923HM	FSC	64 - 86	4022BPC	♦FSC	185 - 21
74SC564D	♦STX	59 - 27	77Z16A045	♦SPR	136 - 40	96LS02DC	♦FSC	189 - 39	926FM	FSC	65 - 22	4023A	MULB	104 - 8
74SC564P	♦STX	59 - 28	77Z16A050	♦SPR	136 - 41	96LS02DM	♦FSC	189 - 40	926HM	FSC	65 - 23	PHIN	SIC	
74SC573C	♦STX	240 - 13	77Z16A055	SPR	136 - 42	96LS02FM	♦FSC	189 - 41	930DM	♦FSC	104 - 43	4023BDC	♦FSC	103 - 56
74SC573D	♦STX	240 - 14	77Z16A060	♦SPR	136 - 43	96LS02PC	FSC	189 - 42	930FM	♦FSC	104 - 44	4023BDM	♦FSC	103 - 57
74SC573P	♦STX	240 - 15	77Z16A070	♦SPR	136 - 44	96S02DC	♦FSC	189 - 43	930HM	♦FSC	104 - 45	4023BFC	♦FSC	103 - 58
74SC574C	♦STX	59 - 29	77Z16A075	♦SPR	136 - 45	96S02PC	♦FSC	189 - 44	931FM	FSC	75 - 2	4023BFM	♦FSC	103 - 59
74SC574D	♦STX	59 - 30	77Z16A100	♦SPR	136 - 46	201JHT1006L	♦TAI	144 - 63	932DM	♦FSC	104 - 46	4023BPC	♦FSC	103 - 60
74SC574P	♦STX	59 - 31	77Z16A150	♦SPR	136 - 47	201JHT1006P	♦TAI	144 - 64	932FM	♦FSC	104 - 47	4024BDC	♦FSC	168 - 62
76Z14A010F	♦SPR	135 - 44	77Z16A155	SPR	136 - 48	201JHT1506L	♦TAI	144 - 65	932HM	♦FSC	104 - 48	4024BDM	♦FSC	168 - 63
76Z14A010H	♦SPR	135 - 45	77Z16A200	♦SPR	136 - 49	201JHT1506P	♦TAI	144 - 66	933DM	FSC	81 - 36	4024BFC	♦FSC	168 - 64
76Z14A010T	♦SPR	135 - 46	77Z16A250	♦SPR	136 - 50	201JHT2006L	♦TAI	144 - 67	933FM	FSC	81 - 37	4024BFM	♦FSC	168 - 65
76Z14A020F	♦SPR	135 - 47	77ZQDA025	♦SPR	136 - 51	201JHT2006P	♦TAI	144 - 68	933HM	FSC	81 - 38	4024BPC	♦FSC	168 - 66
76Z14A020H	♦SPR	135 - 48	77ZQDA030	♦SPR	136 - 52	201JHT2007L	♦TAI	144 - 69	941DM	♦FSC	189 - 46	4025A	MULB	117 - 17
76Z14A020T	♦SPR	135 - 49	77ZQDA035	♦SPR	136 - 53	201JHT2007P	♦TAI	144 - 70	941FM	♦FSC	188 - 33		PHIN	
76Z14A030F	♦SPR	135 - 50	77ZQDA040	♦SPR	136 - 54	201JHT2506L	♦TAI	144 - 71	941HM	♦FSC	188 - 34	4025BDC	♦FSC	116 - 77
76Z14A030H	♦SPR	135 - 51	77ZQDA045	♦SPR	136 - 55	201JHT2506P	♦TAI	144 - 72	944DM	♦FSC	104 - 49	4025BDM	♦FSC	116 - 78
76Z14A030T	♦SPR	135 - 52	77ZQDA050	♦SPR	136 - 56	201JHT2507L	♦TAI	144 - 73	944FM	♦FSC	104 - 50	4025BFC	♦FSC	116 - 79
76Z14A040F	♦SPR	135 - 53	77ZQDA060	♦SPR	136 - 57	201JHT2507P	♦TAI	144 - 74	944HM	♦FSC	104 - 51	4025BFM	♦FSC	116 - 80
76Z14A040H	♦SPR	135 - 54	77ZQDA070	♦SPR	136 - 58	201JHT5007L	♦TAI	144 - 75	945DM	♦FSC	75 - 3	4025BPC	♦FSC	116 - 81
76Z14A040T	♦SPR	135 - 55	77ZQDA075	♦SPR	136 - 59	201JHT5007P	♦TAI	144 - 76	945FM	♦FSC	75 - 4	4027B	MULB	66 - 67
76Z14A050F	♦SPR	135 - 56	77ZQDA100	♦SPR	136 - 60	201RHT1006L	♦TAI	144 - 77	945HM	♦FSC	75 - 5		PHIN	
76Z14A050H	♦SPR	135 - 57	77ZQDA150	♦SPR	136 - 61	201RHT1006P	♦TAI	144 - 78	946DM	FSC	95 - 73	4027BDC	♦FSC	67 - 73
76Z14A050T	♦SPR	135 - 58	77ZQDA200	♦SPR	136 - 62	201RHT1506L	♦TAI	144 - 79	946FM	FSC	100 - 64	4027BDM	♦FSC	67 - 74
76Z14A075F	♦SPR	135 - 59	77ZQDA250	♦SPR	136 - 63	201RHT1506P	♦TAI	144 - 80	948DM	♦FSC	75 - 6	4027BFC	♦FSC	67 - 75
76Z14A075H	♦SPR	135 - 60	80A025	♦ESAN	144 - 51	201RHT2006L	♦TAI	144 - 81	948FM	♦FSC	75 - 7	4027BFM	♦FSC	67 - 76
76Z14A075T	SPR	135 - 61	80A030	♦ESAN	144 - 52	201RHT2006P	♦TAI	144 - 82	948HM	♦FSC	75 - 8	4027BPC	♦FSC	67 - 77
76Z14A0100F	SPR	135 - 62	80A040	♦ESAN	144 - 53	201RHT2007L	♦TAI	144 - 83	949DC	FSC	95 - 74	4028BDC	♦FSC	126 - 36
76Z14A0100H	SPR	135 - 63	80A045	♦ESAN	144 - 54	201RHT2007P	♦TAI	144 - 84	949DM	FSC	95 - 75	4028BDM	♦FSC	126 - 37
76Z14A100F	♦SPR	135 - 64	80A050	♦ESAN	144 - 55	201RHT2506L	♦TAI	144 - 85	949FM	FSC	100 - 25	4028BFC	♦FSC	126 - 38
76Z14A100H	♦SPR	135 - 65	80A060	♦ESAN	144 - 56	201RHT2506P	♦TAI	144 - 86	950DM	♦FSC	75 - 41	4028BFM	♦FSC	126 - 39
76Z14A100T	♦SPR	135 - 66	80A075	♦ESAN	144 - 57	201RHT2507L	♦TAI	144 - 87	950FM	♦FSC	75 - 42	4028BPC	♦FSC	126 - 40
76Z14A0125F	SPR	135 - 67	80A100	♦ESAN	144 - 58	201RHT2507P	♦TAI	144 - 88	950HM	♦FSC	75 - 9	4029BDC	♦FSC	160 - 23

Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

3. TYPE No. CROSS INDEX

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♦-Mfr's data sheet available in microfilm service

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♦PHIN	♦RTCF	
SIC	♦VALG	
10131F	MULB	53 - 30
♦PHIN	♦RTCF	
♦SIC	♦VALG	
10131N	♦MULB	53 - 31
♦PHIN	♦RTCF	
SIC	♦VALG	
10133F	MULB	229 - 66
♦PHIN	♦RTCF	
♦SIC	♦VALG	
10133N	♦MULB	229 - 67
♦PHIN	♦RTCF	
SIC	♦VALG	
10135F	MULB	74 - 71
♦PHIN	♦RTCF	
♦SIC	♦VALG	
10135N	♦MULB	74 - 72
♦PHIN	♦RTCF	
SIC	♦VALG	
10136F	MULB	163 -106
♦PHIN	♦RTCF	
♦SIC	♦VALG	
10136N	♦MULB	163 -107
♦PHIN	♦RTCF	
SIC	♦VALG	
10137F	MULB	180 - 79
♦PHIN	♦RTCF	
♦SIC	♦VALG	
10137N	♦MULB	180 - 80
♦PHIN	♦RTCF	
SIC	♦VALG	
10160F	MULB	227 -105
♦PHIN	♦RTCF	
♦SIC	♦VALG	
10160N	♦MULB	227 -106
♦PHIN	♦RTCF	
	♦VALG	
10170F	MULB	226 - 31
	PHIN	
10175F	MULB	233 - 20
♦PHIN	♦RTCF	
♦SIC	♦VALG	
10175N	♦MULB	233 - 21
♦PHIN	♦RTCF	
SIC	♦VALG	
10176F(1)	MULB	57 - 57
♦PHIN	♦RTCF	
SIC	♦VALG	
10176N	♦MULB	57 - 58
♦PHIN	♦RTCF	
SIC	♦VALG	
10179F	♦MULB	224 - 31
♦PHIN	♦RTCF	
SIC	♦VALG	
10179N	♦MULB	224 - 32
♦PHIN	♦RTCF	
SIC	♦VALG	
10180F	♦MULB	198 - 21
♦PHIN	♦RTCF	
SIC	♦VALG	
10180N	♦MULB	198 - 22
♦PHIN	♦RTCF	
SIC	♦VALG	
10181F	MULB	220 - 51
♦PHIN	♦RTCF	
♦SIC	♦VALG	
10181N	♦MULB	220 - 52
♦PHIN	♦RTCF	
SIC	♦VALG	
10212B	MULB	122 - 74
	PHIN	
10212F	MULB	122 - 75
	PHIN	
10231F	MULB	53 - 46
♦PHIN	♦RTCF	
♦SIC	♦VALG	
10231N	♦MULB	53 - 47
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TYPE No.	MFRS	Pg&Line
10231N		
(cont.)	♦PHIN	
♦RTCF	SIC	
	♦VALG	
21197	♦PUL	144 - 93
21198	♦PUL	144 - 94
21199	♦PUL	144 - 95
21212	♦PUL	144 - 96
21213	♦PUL	144 - 97
21214	♦PUL	144 - 98
21215	♦PUL	144 - 99
21216	♦PUL	144 -100
21217	♦PUL	144 -101
21218	♦PUL	144 -102
21219	♦PUL	144 -103
21220	♦PUL	144 -104
21260	♦PUL	130 - 27
21261	♦PUL	130 - 28
21262	♦PUL	130 - 29
21263	♦PUL	130 - 30
21264	♦PUL	130 - 31
21265	♦PUL	130 - 32
21266	♦PUL	130 - 33
21267	♦PUL	130 - 34
21268	♦PUL	130 - 35
21269	♦PUL	130 - 36
21270	♦PUL	130 - 37
21310	♦PUL	144 -105
21311	♦PUL	144 -106
21312	♦PUL	144 -107
21313	♦PUL	144 -108
21314	♦PUL	144 -109
21315	♦PUL	144 -110
21316	♦PUL	145 - 1
21317	♦PUL	145 - 2
21347	♦PUL	143 - 4
21385	♦PUL	145 - 3
21386	♦PUL	145 - 4
21387	♦PUL	143 - 5
21388	♦PUL	143 - 6
21389	♦PUL	143 - 7
21417	♦PUL	143 - 8
21418	♦PUL	143 - 9
21419	♦PUL	143 - 10
21420	♦PUL	143 - 11
21421	♦PUL	143 - 12
21422	♦PUL	143 - 13
21468	♦PUL	145 - 5
21712	♦PUL	145 - 6
21741	♦PUL	145 - 7
21781	♦PUL	150 - 81
21782	♦PUL	150 - 82
21783	♦PUL	150 - 83
21784	♦PUL	150 - 84
21785	♦PUL	150 - 85
21786	♦PUL	150 - 86
21787	♦PUL	150 - 87
21788	♦PUL	150 - 88
21789	♦PUL	150 - 89
21790	♦PUL	150 - 90
21791	♦PUL	150 - 91
21818	♦PUL	145 - 8
21819	♦PUL	145 - 9
21820	♦PUL	145 - 10
21821	♦PUL	145 - 11
21901	♦PUL	143 - 14
21902	♦PUL	143 - 15
21903	♦PUL	143 - 16
21904	♦PUL	143 - 17
21905	♦PUL	143 - 18
21906	♦PUL	143 - 19
21907	♦PUL	143 - 20
21908	♦PUL	143 - 21
21909	♦PUL	143 - 22
21910	♦PUL	143 - 23
21911	♦PUL	143 - 24
21912	♦PUL	143 - 25
21913	♦PUL	143 - 26
24001	♦PUL	145 - 12
24002	♦PUL	145 - 13
24003	♦PUL	145 - 14
24004	♦PUL	145 - 15
24005	♦PUL	145 - 16
24006	♦PUL	145 - 17
24007	♦PUL	145 - 18
24008	♦PUL	145 - 19
24009	♦PUL	145 - 20
24010	♦PUL	145 - 21
24011	♦PUL	145 - 22
24012	♦PUL	145 - 23
24013	♦PUL	145 - 24
24051	♦PUL	145 - 25
24052	♦PUL	145 - 26
24053	♦PUL	145 - 27
24054	♦PUL	145 - 28
24056	♦PUL	145 - 29
24057	♦PUL	145 - 30
24058	♦PUL	145 - 31
24059	♦PUL	145 - 32
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24061	♦PUL	145 - 34
24062	♦PUL	145 - 35
24063	♦PUL	145 - 36
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40085BDM	♦FSC	217 - 49
40085BFC	♦FSC	217 - 50
40085BFM	♦FSC	217 - 51
40085BPC	♦FSC	217 - 52
40160BDC	♦FSC	172 - 87
40160BDM	♦FSC	172 - 88
40160BFC	♦FSC	172 - 89
40160BFM	♦FSC	172 - 90
40160BPC	♦FSC	172 - 91
40161BDC	♦FSC	154 - 65

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40161BFC	♦FSC	154 - 67
40161BFM	♦FSC	154 - 68
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40162BDC	♦FSC	172 - 92
40162BDM	♦FSC	172 - 93
40162BFC	♦FSC	172 - 94
40162BFM	♦FSC	172 - 95
40162BPC	♦FSC	172 - 96
40163BDC	♦FSC	154 - 70
40163BDM	♦FSC	154 - 71
40163BFC	♦FSC	154 - 72
40163BFM	♦FSC	154 - 73
40163BPC	♦FSC	154 - 74
40192BDC	♦FSC	177 - 63
40192BDM	♦FSC	177 - 64
40192BFC	♦FSC	177 - 65
40192BFM	♦FSC	177 - 66
40192BPC	♦FSC	177 - 67
40193BDC	♦FSC	159 -110
40193BDM	♦FSC	160 - 1
40193BFC	♦FSC	160 - 2
40193BFM	♦FSC	160 - 3
40193BPC	♦FSC	160 - 4
54107DM	♦FSC	67 -109
54107FM	FSC	67 -110
54121DM	♦FSC	188 - 46
54121FM	♦FSC	188 - 47
54122DM	♦FSC	188 - 48
54122FM	♦FSC	188 - 49
54123DM	♦FSC	189 - 57
54123FM	♦FSC	189 - 58
54145FM(2)	♦FSC	126 - 51
54154DM(2)	♦FSC	125 - 67
54154FM(2)	♦FSC	125 - 68
54160DM	♦FSC	174 -106
54160FM	♦FSC	174 -107
54161DM	♦FSC	157 - 30
54161FM	♦FSC	157 - 31
54162FM	♦FSC	174 -108
54163DM	♦FSC	157 - 32
54163FM	♦FSC	157 - 33
54167FM	♦FSC	197 - 86
54175DM	♦FSC	53 -109
54175FM	♦FSC	53 -110
54176DM	♦FSC	181 -100
54176FM	♦FSC	181 -101
54177DM	♦FSC	154 - 31
54177FM	♦FSC	154 - 32
54180DM	♦FSC	227 - 38
54180FM	♦FSC	227 - 39
54190FM	♦FSC	178 - 98
54191DM	♦FSC	161 -106
54191FM	♦FSC	161 -107
54192DM	♦FSC	179 - 54
54192FM	♦FSC	178 - 99
54193DM	♦FSC	162 - 59
54193FM	♦FSC	162 - 60
54196DM	♦FSC	176 - 23
54196FM	♦FSC	176 - 20
54197DM	♦FSC	158 - 67
54197FM	♦FSC	158 - 68
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57558J40	MMI	202 - 87
74107DC	♦FSC	68 - 1
74107PC	♦FSC	68 - 2
74121DC	♦FSC	188 - 50
74121PC	♦FSC	188 - 51
74122DC	♦FSC	188 - 52
74122PC	♦FSC	188 - 53
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74160DC	♦FSC	174 -109
74160PC	♦FSC	174 -110
74161DC	♦FSC	157 - 34
74161PC	♦FSC	156 - 62
74162PC	♦FSC	174 - 30
74163DC	♦FSC	156 - 63
74163PC	♦FSC	156 - 64
74167PC	♦FSC	197 - 87
74175DC	♦FSC	54 - 1
74175PC	♦FSC	54 - 2
74176DC	♦FSC	181 -102
74176PC	♦FSC	181 -103
74177DC	♦FSC	154 - 33
74177PC	♦FSC	154 - 34
74180DC	♦FSC	227 - 40
74180PC	♦FSC	227 - 41
74181DC	FSC	221 - 28
74181PC	FSC	221 - 29
74190PC	♦FSC	178 -100
74191DC	♦FSC	161 -108
74191PC	♦FSC	161 -109
74192DC	♦FSC	179 - 55
74192PC	♦FSC	179 - 56
74193DC	♦FSC	165 - 40
74193PC	♦FSC	162 - 61
74196DC	♦FSC	176 - 24
74196PC	♦FSC	176 - 25
74197DC	♦FSC	158 - 69
74197PC	♦FSC	158 - 70
74279DC	♦FSC	243 - 48
74279PC	♦FSC	243 - 49
74283DC	FSC	200 - 9
74283PC	FSC	200 - 10
74290PC	♦FSC	175 - 53
74293PC	♦FSC	157 - 35
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♦PHIN	♦RTCF	
SIC	♦VALG	
100101Y	♦MULB	124 -100
♦PHIN	♦RTCF	
SIC	♦VALG	

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♦PHIN	♦RTCF	
SIC	♦VALG	
100102Y	♦MULB	123 - 89
♦PHIN	♦RTCF	
SIC	♦VALG	
100107F	♦MULB	94 - 46
♦PHIN	♦RTCF	
SIC	♦VALG	
100107Y	♦MULB	94 - 47
♦PHIN	♦RTCF	
SIC	♦VALG	
100112F	♦MULB	120 - 91
♦PHIN	♦RTCF	
SIC	♦VALG	
100112Y	♦MULB	121 - 6
♦PHIN	♦RTCF	
SIC	♦VALG	
100113F	♦MULB	120 - 95
♦PHIN	♦RTCF	
SIC	♦VALG	
100113Y	♦MULB	120 - 92
♦PHIN	♦RTCF	
SIC	♦VALG	
100117F	♦MULB	83 - 48
♦PHIN	♦RTCF	
SIC	♦VALG	
100117Y	♦MULB	83 - 49
♦PHIN	♦RTCF	
SIC	♦VALG	
100118F	♦MULB	83 - 92
♦PHIN	♦RTCF	
SIC	♦VALG	
100118Y	♦MULB	83 - 91
♦PHIN	♦RTCF	
SIC	♦VALG	
100130FC	FSC	229 -106
100131AF	♦MULB	53 - 83
♦PHIN	♦RTCF	
	♦VALG	
100131AY	♦MULB	53 - 84
♦PHIN	♦RTCF	
	♦VALG	
100131D	♦PHIN	53 - 85
100131F	♦MULB	53 - 81
♦PHIN	♦RTCF	
SIC	♦VALG	
100131Y	♦MULB	53 - 82
♦PHIN	♦RTCF	
SIC	♦VALG	
100136F(1)	♦MULB	168 - 15
♦PHIN	♦RTCF	
	♦VALG	
100136Y	♦MULB	168 - 16
♦PHIN	♦RTCF	
SIC	♦VALG	
100150D	♦PHIN	57 - 64
100150F	♦MULB	55 -104
♦PHIN	♦RTCF	
SIC	♦VALG	
100150FC	FSC	233 - 34
100150Y	♦MULB	55 -105
♦PHIN	♦RTCF	
SIC	♦VALG	
100151F	♦MULB	57 - 62
♦PHIN	♦RTCF	
SIC	♦VALG	
100151Y	♦MULB	57 - 63
♦PHIN	♦RTCF	
SIC	♦VALG	
100160D	♦PHIN	226 - 22
100160F	♦MULB	226 - 30
♦PHIN	♦RTCF	
SIC	♦VALG	
100160Y	♦MULB	226 - 29
♦PHIN	♦RTCF	
SIC	♦VALG	
100166F	♦MULB	219 - 14
♦PHIN	♦RTCF	
SIC	♦VALG	
100166Y	♦MULB	219 - 12
♦PHIN	♦RTCF	
SIC	♦VALG	
100175D	♦MULB	233 - 19
♦PHIN	♦RTCF	
	♦VALG	
100179F	PHIN	224 - 28
100179Y	PHIN	224 - 29
100180F(A)	♦MULB	201 - 85
♦PHIN	♦RTCF	
SIC	♦VALG	
100180Y(A)	PHIN	201 - 86
100181F(A)	♦MULB	220 - 46
♦PHIN	♦RTCF	
SIC	♦VALG	
100181Y(A)	♦MULB	220 - 45
♦PHIN	♦RTCF	
SIC	♦VALG	
100231N	PHIN	49 - 4
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340085DM	FSC	217 - 23
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571493JS	♦MMI	182 - 47
571493W	♦MMI	182 - 48
671492JS	♦MMI	155 - 19
671492NS	♦MMI	155 - 20
671493JS	♦MMI	182 - 49
671493NS	♦MMI	182 - 50
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ADSP1008ASD	♦ANA	203 - 47
ADSP1008ATD	♦ANA	203 - 25
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ADSP1009AJN	♦ANA	205 - 16
ADSP1009AKD	♦ANA	204 - 89
ADSP1009AKG	♦ANA	204 - 90
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	♦ANA	
ADSP1010AJD	♦ANA	213 - 47
ADSP1010AJG	♦ANA	213 - 48
ADSP1010AKD	♦ANA	211 - 56
ADSP1010AKG	♦ANA	211 - 57
ADSP1010AKN	♦ANA	211 - 58
ADSP1010ASD	♦ANA	213 - 49
ADSP1010ASG	♦ANA	213 - 50
ADSP1010ATD	♦ANA	212 - 40
ADSP1010ATG	♦ANA	212 - 41
ADSP1010ATN	♦ANA	212 - 42
ADSP1012AJD(A)		204 -110
	♦ANA	
ADSP1012AJG(A)		205 - 1
	♦ANA	
ADSP1012AJN(A)		205 - 2
	♦ANA	
ADSP1012AKD(A)		204 - 65
	♦ANA	
ADSP1012AKG(A)		204 - 66
	♦ANA	
ADSP1012AKN(A)		204 - 67
	♦ANA	
ADSP1012ASD(A)		205 - 19
	♦ANA	
ADSP1012ASG(A)		205 - 20
	♦ANA	
ADSP1012ATD(A)		205 - 3
	♦ANA	
ADSP1012ATG(A)		205 - 4
	♦ANA	
ADSP1012TG	♦ANA	205 -105
ADSP1016AJD	♦ANA	212 - 99
ADSP1016AJG	♦ANA	212 -100
ADSP1016AJN	♦ANA	212 -101
ADSP1016AKD	♦ANA	212 - 43
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ADSP1016ASD	♦ANA	213 - 51
ADSP1016ASG	♦ANA	213 - 52
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ADSP1024AKG(A)		214 - 67
	♦ANA	
ADSP1024ASG(A)		214 - 70
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ADSP1024ATG(A)		214 - 69
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ADSP1080AJN	♦ANA	202 -105
ADSP1080AKN	♦ANA	202 -101
ADSP1080ASD	♦ANA	203 - 11
ADSP1080ATD	♦ANA	202 -106
ADSP1081AJD	♦ANA	202 -107
ADSP1081AJN	♦ANA	202 -108
ADSP1081AKD	♦ANA	202 -102
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ADSP1081ASD	♦ANA	203 - 12
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	♦ANA	
ADSP1101SG(A)		210 - 54
	♦ANA	
ADSP1101TG(A)		210 - 55
	♦ANA	
ADSP1102JD(A)		205 -110
	♦ANA	
ADSP1102JG(A)		206 - 1
	♦ANA	
ADSP1102JN(A)		206 - 2
	♦ANA	
ADSP1102KD(A)		206 - 3
	♦ANA	
ADSP1102KG(A)		206 - 4
	♦ANA	
ADSP1102KN(A)		206 - 5
	♦ANA	
ADSP1102SD(A)		206 - 6
	♦ANA	
ADSP1102SG(A)		206 - 7
	♦ANA	
ADSP1102TD(A)		206 - 8
	♦ANA	
ADSP1102TG(A)		206 - 9
	♦ANA	
ADSP1103JD(A)		206 - 10
	♦ANA	
ADSP1103JG(A)		206 - 11
	♦ANA	
ADSP1103JN(A)		206 - 12
	♦ANA	
ADSP1103KD(A)		206 - 13
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	♦ANA	

Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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ADSP1516KG(A)	♦ANA	206 - 24
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ADSP1516SD(A)	♦ANA	206 - 26
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ADSP1516TD(A)	♦ANA	206 - 28
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ADSP1517JG(A)	♦ANA	206 - 31
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Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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CD54HCT123F	♦RCA	189 - 70
CD54HCT154F(2)		125 - 72
	♦RCA	
CD54HCT160F	♦RCA	173 -101
CD54HCT161F	♦RCA	155 - 96
CD54HCT162F	♦RCA	173 -102
CD54HCT163F	♦RCA	155 - 97
CD54HCT173F	♦RCA	55 - 58
CD54HCT174F	♦RCA	56 - 39
CD54HCT175F	♦RCA	54 - 51
CD54HCT181F(A)		221 - 13
	♦RCA	
CD54HCT182F(A)		225 - 24
	♦RCA	
CD54HCT190F	♦RCA	178 - 16
CD54HCT191F	♦RCA	160 - 97
CD54HCT192F	♦RCA	178 - 17
CD54HCT193F	♦RCA	160 - 98
CD54HCT221F	♦RCA	189 - 71
CD54HCT259F	♦RCA	240 - 19
CD54HCT273F	♦RCA	58 -102
CD54HCT280F	♦RCA	227 - 34
CD54HCT283F(A)		200 -101
	♦RCA	
CD54HCT373F	♦RCA	238 - 82
CD54HCT374F	♦RCA	59 - 39
CD54HCT377F	♦RCA	58 -103
CD54HCT390F	♦RCA	182 - 33
CD54HCT393F	♦RCA	165 - 30

TYPE No.	MFRS	Pg&Line
CD54HCT423F(A)		189 - 72
	♦RCA	
CD54HCT533F	♦RCA	240 - 45
CD54HCT534F	♦RCA	58 -104
CD54HCT563F	♦RCA	240 - 46
CD54HCT564F	♦RCA	58 -105
CD54HCT573F	♦RCA	240 - 63
CD54HCT574F	♦RCA	59 - 40
CD54HCT583F(A)		199 - 41
	♦RCA	
CD54HCT688F	♦RCA	218 -109
CD54HCT4002F	♦RCA	118 - 17
CD54HCT4017F	♦RCA	183 - 31
CD54HCT4020F	♦RCA	171 - 45
CD54HCT4024F	♦RCA	168 - 61
CD54HCT4040F	♦RCA	170 - 40
CD54HCT4059F	♦RCA	195 - 91
CD54HCT4060F	♦RCA	171 - 62
CD54HCT4075F	♦RCA	123 - 22
CD54HCT4510F	♦RCA	178 - 57
CD54HCT4516F	♦RCA	161 - 72
CD54HCT4518F	♦RCA	181 - 32
CD54HCT4520F	♦RCA	164 - 61
CD54HCT4538F	♦RCA	189 - 73
CD54HCT7266F(A)		90 - 86
	♦RCA	
CD54HCT40102F		177 - 12
	♦RCA	
CD54HCT40103F		169 - 39
	♦RCA	
CD74AC00E(A)	RCA	98 - 2
CD74AC00M(A)	RCA	98 - 3
CD74AC74E(A)	RCA	52 - 60
CD74AC74M(A)	RCA	52 - 61
CD74AC283E(A)	RCA	199 - 71
CD74AC283M(A)	RCA	199 - 72
CD74AC373E(A)	RCA	234 - 54
CD74AC373M(A)	RCA	234 - 55
CD74AC374E(A)	RCA	61 - 79
CD74AC374M(A)	RCA	61 - 80
CD74ACT283E(A)		199 - 73
	RCA	
CD74ACT283M(A)		199 - 74
	RCA	
CD74HC00E	♦RCA	98 - 91
CD74HC00M	♦RCA	98 - 92
CD74HC02E	♦RCA	113 - 87
CD74HC02M	♦RCA	113 - 88
CD74HC03E(A)	♦RCA	98 - 97
CD74HC03M(A)	♦RCA	98 - 98
CD74HC08E	♦RCA	77 - 84
CD74HC08M	♦RCA	77 - 85
CD74HC10E	♦RCA	103 - 4
CD74HC10M	♦RCA	103 - 5
CD74HC11E	♦RCA	80 - 68
CD74HC11M	♦RCA	80 - 69
CD74HC20E	♦RCA	107 - 1
CD74HC20M	♦RCA	107 - 2
CD74HC21E	♦RCA	82 - 80
CD74HC21M	♦RCA	82 - 81
CD74HC27E	♦RCA	116 - 27
CD74HC27M	♦RCA	116 - 40
CD74HC30E	♦RCA	110 - 37
CD74HC30M	♦RCA	110 - 38
CD74HC32E(A)	♦RCA	121 - 61
CD74HC32M	♦RCA	121 - 62
CD74HC42E	♦RCA	126 - 57
CD74HC42M	♦RCA	126 - 58
CD74HC73E	♦RCA	73 - 32
CD74HC73M(A)	♦RCA	73 - 33
CD74HC74E	♦RCA	52 - 52
CD74HC74M	♦RCA	52 - 53
CD74HC75E(A)	♦RCA	229 - 83
CD74HC75M(A)	♦RCA	229 - 84
CD74HC85E	♦RCA	216 -105
CD74HC85M	♦RCA	216 -106
CD74HC86E	♦RCA	91 - 64
CD74HC86M	♦RCA	93 - 79
CD74HC93E(A)	♦RCA	154 - 19
CD74HC93M(A)	♦RCA	154 - 20
CD74HC107E	♦RCA	73 - 34
CD74HC107M	♦RCA	73 - 35
CD74HC109E	♦RCA	73 - 36
CD74HC109M	♦RCA	74 -107
CD74HC112E	♦RCA	73 - 37
CD74HC112M	♦RCA	73 - 38
CD74HC123E	♦RCA	189 - 74
CD74HC123M(A)		189 - 75
	♦RCA	
CD74HC160E	♦RCA	173 -103
CD74HC160M	♦RCA	173 -104
CD74HC161E	♦RCA	155 - 98
CD74HC161M	♦RCA	155 - 99
CD74HC162E	♦RCA	173 -105
CD74HC162M	♦RCA	173 -106
CD74HC163E	♦RCA	155 -100
CD74HC163M	♦RCA	155 -101
CD74HC173E	♦RCA	55 - 59
CD74HC173M	♦RCA	55 - 60
CD74HC174E	♦RCA	56 - 53
CD74HC174M	♦RCA	56 - 54
CD74HC175E	♦RCA	54 - 83
CD74HC175M	♦RCA	54 - 84
CD74HC181E(A)		221 - 14
	♦RCA	
CD74HC181M(A)		221 - 15
	♦RCA	
CD74HC182E(A)		225 - 25
	♦RCA	
CD74HC182M(A)		225 - 26
	♦RCA	
CD74HC190E	♦RCA	178 - 29
CD74HC190M	♦RCA	178 - 30
CD74HC191E	♦RCA	161 - 31

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CD74HC191M	♦RCA	161 - 32
CD74HC192E	♦RCA	178 - 31
CD74HC192M	♦RCA	178 - 32
CD74HC193E	♦RCA	161 - 33
CD74HC193M	♦RCA	161 - 34
CD74HC221E	♦RCA	189 - 76
CD74HC221M	♦RCA	189 - 77
CD74HC259E	♦RCA	239 - 39
CD74HC259M	♦RCA	239 - 40
CD74HC273E	♦RCA	60 - 28
CD74HC273M	♦RCA	60 - 29
CD74HC280E	♦RCA	226 - 98
CD74HC280M(A)		226 - 99
	♦RCA	
CD74HC283E(A)		200 - 82
	♦RCA	
CD74HC283M(A)		200 - 83
	♦RCA	
CD74HC373E	♦RCA	238 - 23
CD74HC373M(A)		239 - 79
	♦RCA	
CD74HC374E	♦RCA	60 - 30
CD74HC374M	♦RCA	60 - 31
CD74HC377E	♦RCA	60 - 32
CD74HC377M	♦RCA	60 - 33
CD74HC384E	♦RCA	202 - 72
CD74HC390E	♦RCA	182 - 29
CD74HC390M(A)		181 - 87
	♦RCA	
CD74HC393E	♦RCA	165 - 19
CD74HC393M	♦RCA	165 - 20
CD74HC423E(A)		189 - 78
	♦RCA	
CD74HC423M(A)		189 - 79
	♦RCA	
CD74HC533E	♦RCA	239 - 58
CD74HC533M	♦RCA	239 - 59
CD74HC534E	♦RCA	60 - 34
CD74HC534M	♦RCA	59 - 41
CD74HC563E	♦RCA	239 - 60
CD74HC563M	♦RCA	239 - 61
CD74HC564E	♦RCA	60 - 35
CD74HC564M	♦RCA	60 - 36
CD74HC573E	♦RCA	239 - 80
CD74HC573M	♦RCA	239 - 81
CD74HC574E	♦RCA	60 - 37
CD74HC574M	♦RCA	60 - 38
CD74HC583E(A)		199 - 42
	♦RCA	
CD74HC583M(A)		199 - 43
	♦RCA	
CD74HC688E	♦RCA	218 - 79
CD74HC688M	♦RCA	218 - 80
CD74HC4002E	♦RCA	118 - 3
CD74HC4002M	♦RCA	118 - 4
CD74HC4017E	♦RCA	183 - 47
CD74HC4017M	♦RCA	183 - 48
CD74HC4020E	♦RCA	171 - 88
CD74HC4020M(A)		171 - 89
	♦RCA	
CD74HC4024E	♦RCA	168 - 79
CD74HC4024M	♦RCA	168 - 80
CD74HC4040E	♦RCA	170 - 57
CD74HC4040M	♦RCA	170 - 58
CD74HC4059E	♦RCA	195 - 92
CD74HC4059M	♦RCA	195 - 93
CD74HC4060E	♦RCA	171 - 90
CD74HC4060M	♦RCA	171 - 91
CD74HC4075E	♦RCA	123 - 3
CD74HC4075M	♦RCA	123 - 4
CD74HC4510E	♦RCA	179 - 51
CD74HC4510M	♦RCA	179 - 52
CD74HC4516E	♦RCA	161 - 97
CD74HC4516M	♦RCA	161 - 98
CD74HC4518E	♦RCA	181 - 39
CD74HC4518M	♦RCA	181 - 40
CD74HC4520E	♦RCA	164 - 75
CD74HC4520M	♦RCA	164 - 76
CD74HC4538E	♦RCA	189 - 80
CD74HC4538M	♦RCA	189 - 81
CD74HC7266E	♦RCA	90 - 74
CD74HC7266M	♦RCA	90 - 75
CD74HC40102E	♦RCA	182 - 59
CD74HC40102M	♦RCA	182 - 60
CD74HC40103E	♦RCA	169 - 47
CD74HC40103M	♦RCA	169 - 48
CD74HCT00E(A)		98 - 93
	♦RCA	
CD74HCT00M	♦RCA	98 - 94
CD74HCT02E	♦RCA	113 - 89
CD74HCT02M	♦RCA	113 - 90
CD74HCT03E(A)		98 - 99
	♦RCA	
CD74HCT03M(A)		98 -100
	♦RCA	
CD74HCT08E	♦RCA	77 - 86
CD74HCT08M	♦RCA	77 - 87
CD74HCT10E(A)		103 - 6
	♦RCA	
CD74HCT10M	♦RCA	103 - 7
CD74HCT11E	♦RCA	80 - 70
CD74HCT11M	♦RCA	80 - 71
CD74HCT20E	♦RCA	107 - 3
CD74HCT20M	♦RCA	107 - 4
CD74HCT21E	♦RCA	82 - 82
CD74HCT21M	♦RCA	82 - 83
CD74HCT27E	♦RCA	116 - 28
CD74HCT27M	♦RCA	116 - 29
CD74HCT30E	♦RCA	110 - 39
CD74HCT30M(A)		110 - 40
	♦RCA	
CD74HCT32E	♦RCA	121 - 63
CD74HCT32M	♦RCA	121 - 64
CD74HCT42E	♦RCA	126 - 59

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CD74HCT42M	♦RCA	126 - 60
CD74HCT73E	♦RCA	73 - 39
CD74HCT73M(A)		73 - 40
	♦RCA	
CD74HCT74E	♦RCA	52 - 54
CD74HCT74M	♦RCA	52 - 55
CD74HCT75E(A)		229 - 86
	♦RCA	
CD74HCT75M(A)		229 - 87
	♦RCA	
CD74HCT85E	♦RCA	216 -110
CD74HCT85M	♦RCA	217 - 1
CD74HCT86E	♦RCA	91 - 65
CD74HCT86M	♦RCA	94 - 15
CD74HCT93E(A)		154 - 21
	♦RCA	
CD74HCT93M(A)		154 - 22
	♦RCA	
CD74HCT107E	♦RCA	73 - 41
CD74HCT107M	♦RCA	73 - 42
CD74HCT109E	♦RCA	73 - 43
CD74HCT109M	♦RCA	73 - 44
CD74HCT112E	♦RCA	73 - 45
CD74HCT112M	♦RCA	73 - 46
CD74HCT123E	♦RCA	189 - 82
CD74HCT123M(A)		189 - 83
	♦RCA	
CD74HCT160E	♦RCA	173 -107
CD74HCT160M	♦RCA	173 -108
CD74HCT161E	♦RCA	155 -102
CD74HCT161M	♦RCA	155 -103
CD74HCT162E	♦RCA	173 -109
CD74HCT162M	♦RCA	173 -110
CD74HCT163E	♦RCA	155 -104
CD74HCT163M	♦RCA	155 -105
CD74HCT173E	♦RCA	55 - 61
CD74HCT173M	♦RCA	55 - 62
CD74HCT174E	♦RCA	56 - 55
CD74HCT174M	♦RCA	56 - 56
CD74HCT175E	♦RCA	54 - 85
CD74HCT175M	♦RCA	54 - 86
CD74HCT181E(A)		221 - 16
	♦RCA	
CD74HCT181M(A)		221 - 17
	♦RCA	
CD74HCT182E(A)		225 - 27
	♦RCA	
CD74HCT182M(A)		225 - 28
	♦RCA	
CD74HCT190E	♦RCA	178 - 33
CD74HCT190M	♦RCA	178 - 34
CD74HCT191E	♦RCA	161 - 35
CD74HCT191M	♦RCA	161 - 36
CD74HCT192E	♦RCA	178 - 35
CD74HCT192M	♦RCA	178 - 36
CD74HCT193E	♦RCA	161 - 37
CD74HCT193M	♦RCA	161 - 38
CD74HCT221E	♦RCA	189 - 84
CD74HCT221M	♦RCA	189 - 85
CD74HCT238E(2)		125 - 12
	♦RCA	
CD74HCT259E	♦RCA	241 - 49
CD74HCT259M	♦RCA	239 - 41
CD74HCT273E	♦RCA	59 - 42
CD74HCT273M	♦RCA	60 - 39
CD74HCT280E	♦RCA	227 - 14
CD74HCT280M(A)		227 - 15
	♦RCA	
CD74HCT283E(A)		200 - 84
	♦RCA	
CD74HCT283M(A)		200 - 85
	♦RCA	
CD74HCT373E	♦RCA	238 - 83
CD74HCT373M(A)		239 - 82
	♦RCA	
CD74HCT374E	♦RCA	60 - 40
CD74HCT374M	♦RCA	60 - 41
CD74HCT377E	♦RCA	59 - 43
CD74HCT377M	♦RCA	59 - 44
CD74HCT384E	♦RCA	202 - 73
CD74HCT390E	♦RCA	182 - 30
CD74HCT390M(A)		182 - 31
	♦RCA	
CD74HCT393E	♦RCA	165 - 21
CD74HCT393M	♦RCA	165 - 22
CD74HCT423E(A)		189 - 86
	♦RCA	
CD74HCT423M(A)		189 - 87
	♦RCA	
CD74HCT533E	♦RCA	239 - 83
CD74HCT533M	♦RCA	239 - 84
CD74HCT534E	♦RCA	59 - 45
CD74HCT534M	♦RCA	58 -106
CD74HCT563E	♦RCA	239 - 85
CD74HCT563M	♦RCA	239 - 86
CD74HCT564E	♦RCA	59 - 46
CD74HCT564M	♦RCA	59 - 47
CD74HCT573E	♦RCA	240 - 26
CD74HCT573M	♦RCA	240 - 27
CD74HCT574E	♦RCA	60 - 42
CD74HCT574M	♦RCA	60 - 43
CD74HCT583E(A)		199 - 44
	♦RCA	
CD74HCT583M(A)		199 - 45
	♦RCA	
CD74HCT688E	♦RCA	218 - 81
CD74HCT688M	♦RCA	218 - 82
CD74HCT4002E	♦RCA	118 - 5
CD74HCT4002M	♦RCA	118 - 6
CD74HCT4017E	♦RCA	183 - 42
CD74HCT4017M	♦RCA	183 - 43
CD74HCT4020E	♦RCA	171 - 63
CD74HCT4020M(A)		171 - 64
	♦RCA	

TYPE No.	MFRS	Pg&Line
CD74HCT4024E	♦RCA	168 - 70
CD74HCT4024M	♦RCA	168 - 71
CD74HCT4040E	♦RCA	170 - 44
CD74HCT4040M	♦RCA	170 - 45
CD74HCT4059E	♦RCA	195 - 94
CD74HCT4059M	♦RCA	195 - 95
CD74HCT4060E	♦RCA	171 - 92
CD74HCT4060M	♦RCA	171 - 93
CD74HCT4075E	♦RCA	123 - 5
CD74HCT4075M	♦RCA	123 - 6
CD74HCT4510E	♦RCA	178 - 87
CD74HCT4510M	♦RCA	178 - 88
CD74HCT4516E	♦RCA	161 - 99
CD74HCT4516M	♦RCA	161 -100
CD74HCT4518E	♦RCA	181 - 41
CD74HCT4518M	♦RCA	181 - 42
CD74HCT4520E	♦RCA	164 - 77
CD74HCT4520M	♦RCA	164 - 78
CD74HCT4538E	♦RCA	189 - 88
CD74HCT4538M	♦RCA	189 - 89
CD74HCT7266E(A)		90 - 76
	♦RCA	
CD74HCT7266M(A)		90 - 77
	♦RCA	
CD74HCT40102E		182 - 57
	♦RCA	
CD74HCT40102M		182 - 58
	♦RCA	
CD74HCT40103E		169 - 45
	♦RCA	
CD74HCT40103M		169 - 46
	♦RCA	
CD4000AD	♦RCA	112 - 11
CD4000AE	♦RCA	112 - 12
CD4000AF	♦RCA	112 - 13
CD4000BD	♦RCA	112 - 34
CD4000BE	♦RCA	112 - 35
CD4000BF	♦RCA	112 - 36
CD4000CJ	♦NSC	112 - 17
CD4000CN	♦NSC	112 - 18
CD4000MJ	♦NSC	112 - 3
CD4000MW	♦NSC	112 - 4
CD4000UBD	♦RCA	112 - 14
CD4000UBE	♦RCA	112 - 15
CD4000UBF	♦RCA	112 - 16
CD4001AD	♦RCA	114 - 60
CD4001AE	BELI	114 - 61
	♦RCA	
CD4001AF	BELI	114 - 62
	♦RCA	
CD4001BCJ	♦NSC	114 - 78
CD4001BCN	♦NSC	114 - 79
CD4001BD	♦RCA	114 -107
CD4001BE	BELI	114 -108
	♦RCA	
CD4001BF	BELI	114 -109
	♦RCA	
CD4001BMJ	♦NSC	114 - 80
CD4001BMW	♦NSC	114 - 81
CD4001CJ	♦NSC	114 - 73
CD4001CN	♦NSC	114 - 74
CD4001MJ	♦NSC	114 - 23
CD4001MW	♦NSC	114 - 24
CD4001UBD	♦RCA	114 - 63
CD4001UBE	♦RCA	114 - 64
CD4001UBF	♦RCA	114 - 65
CD4002AD	♦RCA	118 - 75
CD4002AE	♦RCA	118 - 76
CD4002AF	♦RCA	118 - 77
CD4002BD	♦RCA	118 -108
CD4002BE	♦RCA	118 -109
CD4002BF	♦RCA	118 -110
CD4002CJ	♦NSC	118 - 79
CD4002CN	♦NSC	118 - 80
CD4002MJ	♦NSC	118 - 41
CD4002MW	♦NSC	118 - 42
CD4008AD	♦RCA	201 - 53
CD4008AE	♦RCA	201 - 63
CD4008AF	♦RCA	201 - 54
CD4008BCJ	♦NSC	201 - 13
CD4008BCN	♦NSC	201 - 14
CD4008BD	♦RCA	201 - 45
CD4008BE	♦RCA	201 - 46
CD4008BF	♦RCA	201 - 47
CD4008BMJ	♦NSC	201 - 15
CD4008BMW	♦NSC	201 - 16
CD4011AD	♦RCA	99 - 84
CD4011AE	BELI	100 - 27
	♦RCA	
CD4011AF	BELI	99 - 85
	♦RCA	
CD4011BCJ	♦NSC	100 - 60
CD4011BCN	♦NSC	100 - 61
CD4011BD	♦RCA	100 -101
CD4011BE	BELI	100 -102
	♦RCA	
CD4011BF	BELI	100 -103
	♦RCA	
CD4011BMJ	♦NSC	100 - 62
CD4011BMW	♦NSC	100 - 63
CD4011CJ	♦NSC	100 - 28
CD4011CN	♦NSC	100 - 29
CD4011MJ	♦NSC	99 - 86
CD4011MW	♦NSC	99 - 87
CD4011UBD	♦RCA	100 - 52
CD4011UBE	♦RCA	100 - 53
CD4011UBF	♦RCA	100 - 54
CD4012AD	♦RCA	107 - 42
CD4012AE	BELI	107 - 65
	♦RCA	
CD4012AF	BELI	107 - 43
	♦RCA	
CD4012BD	♦RCA	108 - 23
CD4012BE	♦RCA	108 - 24

△-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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CD4012CJ	♦NSC	107 - 66
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CD4012MJ	♦NSC	107 - 44
CD4012MW	♦NSC	107 - 45
CD4012UBD	♦RCA	107 - 81
CD4012UBE	♦RCA	107 - 82
CD4012UBF	♦RCA	107 - 83
CD4013AD	♦RCA	50 -100
CD4013AE	BELI	50 -101
	♦RCA	
CD4013AF	BELI	50 -102
	♦RCA	
CD4013BCJ	♦NSC	50 - 81
CD4013BCN	♦NSC	50 - 82
CD4013BD	♦RCA	50 - 85
CD4013BE	♦RCA	50 - 86
CD4013BF	♦RCA	50 - 87
CD4013BK	♦RCA	50 - 88
CD4013BMJ	♦NSC	50 - 83
CD4013BMW	♦NSC	50 - 84
CD4017AD	♦RCA	183 - 1
CD4017AE	♦RCA	183 - 2
CD4017AF	♦RCA	183 - 3
CD4017BCJ	♦NSC	183 - 17
CD4017BCN	♦NSC	183 - 18
CD4017BD	♦RCA	183 - 4
CD4017BE	♦RCA	183 - 5
CD4017BF	♦RCA	183 - 6
CD4017BMJ	♦NSC	183 - 19
CD4017BMW	♦NSC	183 - 20
CD4018AD	♦RCA	185 - 76
CD4018AE	BELI	185 - 77
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CD4018AF	BELI	185 - 78
	♦RCA	
CD4018BCJ	♦NSC	185 - 79
CD4018BCN	♦NSC	185 - 80
CD4018BD	♦RCA	185 - 93
CD4018BE	♦RCA	185 - 94
CD4018BF	♦RCA	185 - 95
CD4018BMJ	♦NSC	185 - 81
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CD4020AE	♦RCA	171 - 6
CD4020AF	♦RCA	171 - 7
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CD4020BCN	♦NSC	170 -101
CD4020BD	♦RCA	171 - 13
CD4020BE	♦RCA	171 - 14
CD4020BF	♦RCA	171 - 15
CD4020BMJ	♦NSC	170 -102
CD4020BMW	♦NSC	170 -103
CD4022AD	♦RCA	184 - 85
CD4022AE	♦RCA	184 - 86
CD4022AF	♦RCA	184 - 87
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CD4022BCN	♦NSC	184 - 80
CD4022BD	♦RCA	184 - 88
CD4022BE	♦RCA	184 - 89
CD4022BF	♦RCA	184 - 90
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CD4023BD	♦RCA	104 - 11
CD4023BE	♦RCA	104 - 12
CD4023BF	♦RCA	104 - 13
CD4023BMJ	♦NSC	103 - 86
CD4023BMW	♦NSC	103 - 87
CD4023CJ	♦NSC	103 - 63
CD4023CN	♦NSC	103 - 64
CD4023MJ	♦NSC	103 - 31
CD4023MW	♦NSC	103 - 32
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CD4023UBE	♦RCA	103 - 79
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CD4024AE	♦RCA	168 - 28
CD4024AF	♦RCA	168 - 29
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CD4024BCN	♦NSC	168 - 21
CD4024BD	♦RCA	168 - 37
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CD4024BMJ	♦NSC	168 - 22
CD4024BMW	♦NSC	168 - 23
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CD4025BCJ	♦NSC	116 - 96
CD4025BCN	♦NSC	116 - 97
CD4025BD	♦RCA	117 - 13
CD4025BE	♦RCA	117 - 14
CD4025BF	♦RCA	117 - 15
CD4025BMJ	♦NSC	116 - 98
CD4025BMW	♦NSC	116 - 99
CD4025CJ	♦NSC	116 - 91
CD4025CN	♦NSC	116 - 92
CD4025MJ	♦NSC	116 - 69
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CD4026AD	♦RCA	183 - 92
CD4026AE	♦RCA	183 - 93
CD4026AF	♦RCA	183 - 94
CD4026BD	♦RCA	184 - 2
CD4026BE	♦RCA	184 - 3
CD4026BF	♦RCA	184 - 4
CD4027AD	♦RCA	67 - 55
CD4027AE	♦RCA	67 - 56
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CD4028AE	♦RCA	126 - 62
CD4028AF	♦RCA	126 - 63
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CD4028BE	♦RCA	126 - 67
CD4028BF	♦RCA	126 - 68
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CD4029AE	♦RCA	160 - 6
CD4029AF	♦RCA	160 - 7
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CD4030BD	♦RCA	91 - 69
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CD4030BF	BELI	91 - 71
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CD4032BE	♦RCA	199 - 5
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CD4033BD	♦RCA	184 - 5
CD4033BE	♦RCA	184 - 6
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CD4038AE	♦RCA	199 - 23
CD4038AF	♦RCA	199 - 13
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CD4040AF	♦RCA	170 - 11
CD4040BCJ	♦NSC	169 -109
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CD4042BF	♦RCA	232 - 92
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CD4043AE	♦RCA	244 - 54
CD4043AF	♦RCA	244 - 39
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CD4048AF	♦RCA	95 - 20
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CD4048BE	♦RCA	95 - 24
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CD4060BE	♦RCA	171 - 47
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CD4081BF	♦RCA	78 - 92
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CD4099BE	♦RCA	241 - 18
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Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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△-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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DM54ALS02J	♦NSC	112 - 57
DM54ALS03AJ	♦NSC	95 - 94
DM54ALS08J	♦NSC	76 - 22
DM54ALS09J	♦NSC	78 - 64
DM54ALS10AJ	♦NSC	102 - 92
DM54ALS11AJ	♦NSC	79 - 47
DM54ALS12AJ	♦NSC	101 - 42
DM54ALS15J	♦NSC	79 - 48
DM54ALS20AJ	♦NSC	104 - 73
DM54ALS21J	♦NSC	82 -103
DM54ALS22J	♦NSC	104 - 74
DM54ALS27J	♦NSC	115 - 64
DM54ALS30AJ	♦NSC	109 - 93
DM54ALS32J	♦NSC	120 - 18
DM54ALS74AJ	♦NSC	51 - 98
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DM54ALS161AJ	♦NSC	156 - 65
DM54ALS162AJ	♦NSC	174 - 32
DM54ALS163AJ	♦NSC	156 - 66
DM54ALS168BJ	♦NSC	178 -101
DM54ALS169BJ	♦NSC	161 -110
DM54ALS190J	♦NSC	178 - 58
DM54ALS191J	♦NSC	162 - 1
DM54ALS192J	♦NSC	178 - 59
DM54ALS193J	♦NSC	162 - 2
DM54ALS273J	♦NSC	60 - 83
DM54ALS373J	♦NSC	237 - 8
DM54ALS374J	♦NSC	60 - 84
DM54ALS518J	♦NSC	216 - 26
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Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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DM54ALS574J	♦NSC	60 - 86
DM54ALS576J	♦NSC	60 - 45
DM54ALS580J	♦NSC	237 - 41
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DM54ALS811J	♦NSC	89 -105
DM54ALS873J	♦NSC	230 - 92
DM54ALS874J	♦NSC	60 - 46
DM54ALS876J	♦NSC	51 - 57
DM54ALS880J	♦NSC	230 - 93
DM54AS00J	♦NSC	95 - 95
DM54AS02J	♦NSC	112 - 58
DM54AS08J	♦NSC	76 - 23
DM54AS10J	♦NSC	102 - 46
DM54AS11J	♦NSC	79 - 49
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DM54AS27J	♦NSC	115 - 65
DM54AS30J	♦NSC	109 - 10
DM54AS32J	♦NSC	120 - 19
DM54AS74J	♦NSC	52 - 80
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DM54AS113J(A)	♦NSC	74 - 86
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DM54LS01J	♦NSC	100 - 5
DM54LS02J	♦NSC	112 - 60
DM54LS03J	♦NSC	95 -101
DM54LS08J	♦NSC	76 - 25
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DM54LS10J	♦NSC	102 - 96
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DM54LS12J	♦NSC	101 - 45
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DM54S15J	♦NSC	80 - 57
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DM54S175J	♦NSC	55 - 67
DM54S175W	NSC	55 - 86
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DM54S196J	♦NSC	176 - 44
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DM54S197J	♦NSC	158 - 88
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DM74ALS00AN	♦NSC	95 -104
DM74ALS01J	♦NSC	100 - 43
DM74ALS01N	♦NSC	100 - 44
DM74ALS02J	♦NSC	112 - 61
DM74ALS02N	♦NSC	112 - 62
DM74ALS03AJ	♦NSC	95 -105
DM74ALS03AN	♦NSC	95 -106
DM74ALS08J	♦NSC	76 - 26
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DM74ALS09J	♦NSC	78 - 59
DM74ALS09N	♦NSC	78 - 60
DM74ALS10AJ	♦NSC	102 - 87
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DM74ALS11AJ	♦NSC	79 - 53
DM74ALS11AN	♦NSC	79 - 54
DM74ALS12AJ	♦NSC	101 - 46
DM74ALS12AN	♦NSC	101 - 47
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DM74ALS20AJ	♦NSC	104 - 78
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DM74ALS30AN	♦NSC	109 - 63
DM74ALS32J	♦NSC	120 - 21
DM74ALS32N	♦NSC	120 - 22
DM74ALS74AJ	♦NSC	52 - 15
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DM74ALS109AJ	♦NSC	71 - 41
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DM74ALS113AJ	♦NSC	70 - 33
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DM74ALS161AJ	♦NSC	157 - 6
DM74ALS161AN	♦NSC	157 - 7
DM74ALS162AJ	♦NSC	174 - 81
DM74ALS162AN	♦NSC	174 - 82
DM74ALS163AJ	♦NSC	157 - 8
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DM74ALS190J	♦NSC	178 -104
DM74ALS190N	♦NSC	178 -105
DM74ALS191J	♦NSC	162 - 65
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DM74ALS192J	♦NSC	178 -106
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DM74AS02J	♦NSC	112 - 63
DM74AS02N	♦NSC	112 - 64
DM74AS08J	♦NSC	76 - 28
DM74AS08N	♦NSC	76 - 29
DM74AS10J	♦NSC	102 - 42
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DM74AS811J(A)	♦NSC	90 - 5
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△-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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DM74H40N	♦NSC	106 - 65
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DM74L26N	♦NSC	100 - 88
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Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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DM74191N	NSC	162 - 7	DN74LS193P2	♦MATJ	162 - 92	E302F7	♦SGSI	96 - 28	EKLPG015	♦TNL	132 - 40	EP9311	PCA	138 -105
DM74191W	NSC	162 - 8	DN74LS193P5	♦MATJ	162 - 93	E303D2	♦SGSI	103 -104	EKLPG020	♦TNL	132 - 41	EP9313	PCA	138 -106
DM74192J	NSC	179 - 65	DN74LS196P1	♦MATJ	175 - 57	E303D7	♦SGSI	103 -105	EKLPG025	♦TNL	132 - 42	EP9314	PCA	138 -107
DM74192N	NSC	179 - 66	DN74LS196P4	♦MATJ	175 - 58	E303F2	♦SGSI	101 - 58	EKLPG030	♦TNL	132 - 43	EP9315	PCA	138 -108
DM74193J	NSC	162 - 75	DN74LS197P1	♦MATJ	157 - 89	E303F7	♦SGSI	101 - 59	EKLPG035	♦TNL	132 - 44	EP9316	PCA	138 -109
DM74193N	NSC	162 - 76	DN74LS197P4	♦MATJ	157 - 90	E304D2	♦SGSI	104 - 92	EKLPG040	♦TNL	132 - 45	EP9317	PCA	138 -110
DM74196N	NSC	176 - 10	DN74LS260P1	♦MATJ	119 - 30	E304D7	♦SGSI	104 - 93	EKLPG045	♦TNL	132 - 46	EP9318	PCA	139 - 1
DM74197N	NSC	158 - 46	DN74LS260P4	♦MATJ	119 - 31	E304F2	♦SGSI	104 - 94	EKLPG050	♦TNL	132 - 47	EP9319	PCA	139 - 2
DM74259N	NSC	238 - 5	DN74LS266P1	♦MATJ	90 - 8	E304F7	♦SGSI	104 - 95	EKLPG060	♦TNL	132 - 48	EP9320	PCA	139 - 3
DMT301-1	DDD	137 - 93	DN74LS266P4	♦MATJ	90 - 9	E305D2	♦SGSI	108 - 93	EKLPG070	♦TNL	132 - 49	EP9321	PCA	139 - 4
DMT301-2	DDD	137 - 94	DN74LS279P2	♦MATJ	243 - 50	E305D7	♦SGSI	108 - 94	EKLPG080	♦TNL	132 - 50	EP9322	PCA	139 - 5
DMT301-3	DDD	137 - 95	DN74LS279P5	♦MATJ	243 - 51	E305F2	♦SGSI	108 - 95	EKLPG090	♦TNL	132 - 51	EP9323	PCA	139 - 6
DMT301-4	DDD	137 - 96	DN74LS283P2	♦MATJ	200 - 13	E305F7	♦SGSI	108 - 96	EKLPG100	♦TNL	132 - 52	EP9324	PCA	139 - 7
DMT301-5	DDD	137 - 97	DN74LS283P5	♦MATJ	200 - 14	E306D2	♦SGSI	108 -101	EKLPGR10	♦TNL	132 - 53	EP9325	PCA	139 - 8
DMT301-6	DDD	137 - 98	DN74LS290P1	♦MATJ	175 - 88	E306D7	♦SGSI	108 -102	EKLPGR25	♦TNL	132 - 54	EP9326	PCA	139 - 9
DMT301-7	DDD	137 - 99	DN74LS290P4	♦MATJ	175 - 89	E306F2	♦SGSI	108 -103	EKLPGR50	♦TNL	132 - 55	EP9327	PCA	139 - 10
DMT301-8	DDD	137 -100	DN74LS293P1	♦MATJ	158 - 12	E306F7	♦SGSI	108 -104	EKLPGR75	♦TNL	132 - 56	EP9328	PCA	139 - 11
DMT301-9	DDD	137 -101	DN74LS293P4	♦MATJ	158 - 13	ECLDL025	♦TNL	142 - 71	EP8200	PCA	138 - 8	EP9329	PCA	139 - 12
DMT302-1	DDD	137 -102	DN74LS373P3	♦MATJ	236 - 89	ECLDL025M	♦TNL	142 - 72	EP8201	PCA	138 - 9	EP9330	PCA	139 - 13
DMT302-2	DDD	137 -103	DN74LS373P6	♦MATJ	236 - 90	ECLDL050	♦TNL	142 - 73	EP8202	PCA	138 - 10	EP9331	PCA	139 - 14
DMT302-3	DDD	137 -104	DN74LS386P1	♦MATJ	93 - 83	ECLDL050M	♦TNL	142 - 74	EP8203	PCA	138 - 11	EP9332	PCA	139 - 15
DMT303-1	DDD	137 -105	DN74LS386P4	♦MATJ	93 - 84	ECLDL075	♦TNL	142 - 75	EP8204	PCA	138 - 12	EP9333	PCA	139 - 16
DN74LS00P1	♦MATJ	96 - 23	DN74LS390P2	♦MATJ	181 - 67	ECLDL075M	♦TNL	142 - 76	EP8205	PCA	138 - 13	EP9445-7	PCA	137 - 7
DN74LS00P4	♦MATJ	96 - 24	DN74LS390P5	♦MATJ	181 - 68	ECLDL100	♦TNL	142 - 77	EP8206	PCA	138 - 14	EP9445-11	PCA	137 - 8
DN74LS01P1	♦MATJ	99 - 52	DN74LS393P1	♦MATJ	165 - 10	ECLDL100M	♦TNL	142 - 78	EP8207	PCA	138 - 15	EP9445-15	PCA	137 - 9
DN74LS01P4	♦MATJ	99 - 53	DN74LS393P4	♦MATJ	165 - 11	ECLDL125	♦TNL	142 - 79	EP8208	PCA	138 - 16	EP9445-20	PCA	137 - 10
DN74LS02P1	♦MATJ	112 - 69	DN74LS490P2	♦MATJ	181 - 69	ECLDL125M	♦TNL	142 - 80	EP8209	PCA	138 - 17	EP9445-30	PCA	137 - 11
DN74LS02P4	♦MATJ	112 - 70	DN74LS490P5	♦MATJ	181 - 70	ECLDL150	♦TNL	142 - 81	EP8210	PCA	138 - 18	EP9445-40	PCA	137 - 12
DN74LS03P1	♦MATJ	96 - 25	DN811	MATJ	165 - 49	ECLDL150M	♦TNL	142 - 82	EP8211	PCA	138 - 19	EP9445-50	PCA	137 - 13
DN74LS03P4	♦MATJ	96 - 26	DN819	♦MATJ	75 - 80	ECLDL200	♦TNL	142 - 83	EP8213	PCA	138 - 20	EP9445-75	PCA	137 - 14
DN74LS08P1	♦MATJ	76 - 34	DN850	MATJ	188 - 19	ECLDL200M	♦TNL	142 - 84	EP8214	PCA	138 - 21	EP9445-100	PCA	137 - 15
DN74LS08P4	♦MATJ	76 - 35	DN851	MATJ	165 - 50	ECLDL250	♦TNL	142 - 85	EP8215	PCA	138 - 22	EP9445-150	PCA	137 - 16
DN74LS09P1	♦MATJ	78 - 27	DN852	MATJ	125 - 14	ECLDL250M	♦TNL	142 - 86	EP8216	PCA	138 - 23	EP9445-200	PCA	137 - 17
DN74LS09P4	♦MATJ	78 - 28	DP8340J(2)	NSC	246 - 27	ECLDL300	♦TNL	142 - 87	EP8217	PCA	138 - 24	EP9445-250	PCA	137 - 18
DN74LS10P1	♦MATJ	102 - 98	DP8340N(2)	NSC	246 - 28	ECLDL300M	♦TNL	142 - 88	EP8218	PCA	138 - 25	EP9445-300	PCA	137 - 19
DN74LS10P4	♦MATJ	102 - 99	DQXO3	♦STK	192 - 64	ECLDL350	♦TNL	142 - 89	EP8219	PCA	138 - 26	EP9445-350	PCA	137 - 20
DN74LS11P1	♦MATJ	79 - 66	DQXO3SM(A)	♦STK	192 - 65	ECLDL350M	♦TNL	142 - 90	EP8220	PCA	138 - 27	EP9445-400	PCA	137 - 21
DN74LS11P4	♦MATJ	79 - 67	DS1000-50	♦DAL	136 - 64	ECLDL400	♦TNL	142 - 91	EP8221	PCA	138 - 28	EP9445-450	PCA	137 - 22
DN74LS12P1	♦MATJ	101 - 56	DS1000-100	♦DAL	151 - 12	ECLDL400M	♦TNL	142 - 92	EP8222	PCA	138 - 29	EP9445-500	PCA	137 - 23
DN74LS12P4	♦MATJ	101 - 57	DS1000-125	♦DAL	151 - 13	ECLDL450	♦TNL	142 - 93	EP8223	PCA	138 - 30	EP9445-600	PCA	137 - 24
DN74LS15P1	♦MATJ	79 - 68	DS1000-150	♦DAL	151 - 14	ECLDL450M	♦TNL	142 - 94	EP8224	PCA	138 - 31	EP9445-700	PCA	137 - 25
DN74LS15P4	♦MATJ	79 - 69	DS1000-175	♦DAL	151 - 15	ECLDL500	♦TNL	142 - 95	EP8225	PCA	138 - 32	EP9445-800	PCA	137 - 26
DN74LS20P1	♦MATJ	104 - 88	DS1000-200	♦DAL	151 - 16	ECLDL500M	♦TNL	142 - 96	EP8226	PCA	138 - 33	EP9445-900	PCA	137 - 27
DN74LS20P4	♦MATJ	104 - 89	DS1000-250	♦DAL	151 - 17	ECLPG301	♦TNL	132 - 3	EP8227	PCA	138 - 34	EP9445-1000	PCA	137 - 28
DN74LS21P1	♦MATJ	82 - 64	DS1000-500	♦DAL	151 - 18	ECLPG301M	♦TNL	132 - 4	EP8228	PCA	138 - 35	EP9458-25	PCA	139 - 17
DN74LS21P4	♦MATJ	82 - 65	DS1030-100(A)		136 - 65	ECLPG302	♦TNL	132 - 5	EP8229	PCA	138 - 36	EP9458-30	PCA	139 - 18
DN74LS22P1	♦MATJ	104 - 90		♦DAL		ECLPG302M	♦TNL	132 - 6	EP8230	PCA	138 - 37	EP9458-35	PCA	139 - 19
DN74LS22P4	♦MATJ	104 - 91	DS1030-125(A)		136 - 66	ECLPG303	♦TNL	132 - 7	EP8231	PCA	138 - 38	EP9458-40	PCA	139 - 20
DN74LS27P1	♦MATJ	115 - 74		♦DAL		ECLPG303M	♦TNL	132 - 8	EP8232	PCA	138 - 39	EP9458-45	PCA	139 - 21
DN74LS27P4	♦MATJ	115 - 75	DS1030-150(A)		136 - 67	ECLPG304	♦TNL	132 - 9	EP8233	PCA	138 - 40	EP9458-50	PCA	139 - 22
DN74LS30P1	♦MATJ	109 -110		♦DAL		ECLPG304M	♦TNL	132 - 10	EP8270	PCA	138 - 41	EP9458-60	PCA	139 - 23
DN74LS30P4	♦MATJ	110 - 1	DS1030-175(A)		136 - 68	ECLPG305	♦TNL	132 - 11	EP8271	PCA	138 - 42	EP9458-75	PCA	139 - 24
DN74LS32P1	♦MATJ	120 - 29		♦DAL		ECLPG305M	♦TNL	132 - 12	EP8272	PCA	138 - 43	EP9458-100	PCA	139 - 25
DN74LS32P4	♦MATJ	120 - 30	DS1030-200(A)		136 - 69	ECLPG306	♦TNL	132 - 13	EP8273	PCA	138 - 44	EP9458-125	PCA	139 - 26
DN74LS42P2	♦MATJ	127 - 84		♦DAL		ECLPG306M	♦TNL	132 - 14	EP8274	PCA	138 - 45	EP9458-150	PCA	139 - 27
DN74LS42P5	♦MATJ	127 - 85	DS1030-250(A)		136 - 70	ECLPG307	♦TNL	132 - 15	EP8275	PCA	138 - 46	EP9458-175	PCA	139 - 28
DN74LS51P1	♦MATJ	88 - 65		♦DAL		ECLPG307M	♦TNL	132 - 16	EP8276	PCA	138 - 47	EP9458-200	PCA	139 - 29
DN74LS51P4	♦MATJ	88 - 66	DS1030-500(A)		136 - 71	ECLPG308	♦TNL	132 - 17	EP8277	PCA	138 - 48	EP9458-225	PCA	139 - 30
DN74LS54P1	♦MATJ	88 - 9		♦DAL		ECLPG308M	♦TNL	132 - 18	EP8278	PCA	138 - 49	EP9458-250	PCA	139 - 31
DN74LS54P4	♦MATJ	88 - 10	DS1031-100(A)	DAL	136 - 72	ECLPG309	♦TNL	132 - 19	EP8279	PCA	138 - 50	EP9590-25	PCS	139 - 32
DN74LS55P1	♦MATJ	89 - 71	DS1031-125(A)	DAL	136 - 73	ECLPG309M	♦TNL	132 - 20	EP8280	PCA	138 - 51	EP9590-30	PCS	139 - 33
DN74LS55P4	♦MATJ	89 - 72	DS1031-150	DAL	136 - 74	ECLPG310	♦TNL	132 - 21	EP8281	PCA	138 - 52	EP9590-35	PCS	139 - 34
DN74LS73P1	♦MATJ	72 - 6	DS1031-175(A)	DAL	136 - 75	ECLPG310M	♦TNL	132 - 22	EP8282	PCA	138 - 53	EP9590-40	PCS	139 - 35
DN74LS73P4	♦MATJ	72 - 7	DS1031-200(A)	DAL	136 - 76	ECLPG315	♦TNL	132 - 23	EP8283	PCA	138 - 54	EP9590-45	PCS	139 - 36
DN74LS74AP1	♦MATJ	52 - 8	DS1031-250(A)	DAL	136 - 77	ECLPG315M	♦TNL	132 - 24	EP8284	PCA	138 - 55	EP9590-50	PCS	139 - 37
DN74LS74AP4	♦MATJ	52 - 9	DS1031-500(A)	DAL	136 - 78	ECLPG320	♦TNL	132 - 25	EP8285	PCA	138 - 56	EP9590-60	PCS	139 - 38
DN74LS76P2	♦MATJ	72 - 8	DS1031S-100(A)		136 - 79	ECLPG320M	♦TNL	132 - 26	EP8286	PCA	138 - 57	EP9590-75	PCS	139 - 39
DN74LS76P5	♦MATJ	72 - 9		DAL		ECLPG325	♦TNL	132 - 27	EP8287	PCA	138 - 58	EP9590-100	PCS	139 - 40
DN74LS78P1	♦MATJ	72 - 10	DS1031S-125	DAL	136 - 80	ECLPG325M	♦TNL	132 - 28	EP8288	PCA	138 - 59	EP9590-125	PCS	139 - 41
DN74LS78P4	♦MATJ	72 - 11	DS1031S-150(A)		136 - 81	ECLPG330	♦TNL	132 - 29	EP8289	PCA	138 - 60	EP9590-150	PCS	139 - 42
DN74LS83AP2	♦MATJ	200 - 11		DAL		ECLPG330M	♦TNL	132 - 30	EP8290	PCA	138 - 61	EP9590-175	PCS	139 - 43
DN74LS83AP5	♦MATJ	200 - 12	DS1031S-175(A)		136 - 82	ECLPG335	♦TNL	132 - 31	EP8291	PCA	138 - 62	EP9590-200	PCS	139 - 44
DN74LS86P1	♦MATJ	91 -100		DAL		ECLPG335M	♦TNL	132 - 32	EP8292	PCA	138 - 63	EP9590-225	PCS	139 - 45
DN74LS86P4	♦MATJ	91 -101	DS1031S-200(A)		136 - 83	ECLPG340	♦TNL	132 - 33	EP9100	PCA	138 - 64	EP9590-250	PCS	139 - 46
DN74LS90P1	♦MATJ	175 - 86		DAL		ECLPG340M	♦TNL	132 - 34	EP9101	PCA	138 - 65	EP9604-32	PCA	136 - 86
DN74LS90P4	♦MATJ	175 - 87	DS1031S-250(A)		136 - 84	ECLPG345	♦TNL	132 - 35	EP9102	PCA	138 - 66	EP9604-36	PCA	136 - 87
DN74LS92P1	♦MATJ	167 -104		DAL		ECLPG345M	♦TNL	132 - 36	EP9103	PCA	138 - 67	EP9604-40	PCA	136 - 88
DN74LS92P4	♦MATJ	167 -105	DS1031S-500(A)		136 - 85	ECLPG350	♦TNL	132 - 37	EP9104	PCA	138 - 68	EP9604-44	PCA	136 - 89
DN74LS93P1	♦MATJ	158 - 10		DAL		ECLPG350M	♦TNL	132 - 38	EP9105	PCA	138 - 69	EP9604-48	PCA	136 - 90
DN74LS93P4	♦MATJ	158 - 11	DS1215(A)	♦DAL	192 - 66	ECLPWG5	♦RHB	152 - 44	EP9106	PCA	138 - 70	EP9604-52	PCA	136 - 91
DN74LS107P1	♦MATJ	72 - 12	DS3685J(A)	♦NSC	233 - 38	ECLPWG10	♦RHB	152 - 45	EP9107	PCA	138 - 71	EP9604-60	PCA	136 - 92
DN74LS107P4	♦MATJ	72 - 13	DS3685N(A)	♦NSC	233 - 39	ECLPWG15	♦RHB	152 - 46	EP9108	PCA	138 - 72	EP9604-75	PCA	136 - 93
DN74LS109P2	♦MATJ	71 - 31	DS7819J(2)	NSC	78 - 11	ECLPWG20	♦RHB	152 - 47	EP9109	PCA	138 - 73	EP9604-100	PCA	136 - 94
DN74LS109P5	♦MATJ	71 - 32	DS8614N	♦NSC	196 - 78	ECLPWG25	♦RHB	152 - 48	EP9110	PCA	138 - 74	EP9604-125	PCA	136 - 95
DN74LS112P2	♦MATJ	72 - 14	DS8615N(A)	♦NSC	196 - 81	ECLPWG30	♦RHB	152 - 49	EP9111	PCA	138 - 75	EP9604-150	PCA	136 - 96
DN74LS112P5	♦MATJ	72 - 15	DS8616N(A)	♦NSC	196 - 84	ECLPWG35	♦RHB	152 - 50	EP9112	PCA	138 - 76	EP9604-175	PCA	136 - 97
DN74LS113P1	♦MATJ	72 - 16	DS8617N(A)	♦NSC	196 - 88	ECLPWG40	♦RHB	152 - 51	EP9113	PCA	138 - 77	EP9604-200	PCA	136 - 98
DN74LS113P4	♦MATJ	72 - 17	DS8626N	♦NSC	194 - 76	ECLPWG45	♦RHB	152 - 52	EP9114	PCA	138 - 78	EP9604-250	PCA	136 - 99
DN74LS114P1	♦MATJ	72 - 18	DS8629N	♦NSC	194 - 77	ECLPWG50	♦RHB	152 - 53	EP9115	PCA	138 - 79	EP9604-300	PCA	136 -100
DN74LS114P4	♦MATJ	72 - 19	DS8819J(2)	NSC	78 - 12	ECLPWG60	♦RHB	152 - 54	EP9116	PCA	138 - 80	EP9604-350	PCA	136 -101
DN74LS123P2	♦MATJ	190 - 1	DS8819N(2)	NSC	78 - 13	ECLPWG70	♦RHB	152 - 55	EP9117	PCA	138 - 81	EP9604-400	PCA	136 -102
DN74LS123P5	♦MATJ	190 - 2	DTZM1-25	♦RHB	137 -106	ECLPWG80	♦RHB	152 - 56	EP9118	PCA	138 - 82	EP9604-420	PCA	136 -103
DN74LS136P1	♦MATJ	91 -102	DTZM1-50	♦RHB	137 -107	ECLPWG90	♦RHB	152 - 57	EP9119	PCA	138 - 83	EP9604-440	PCA	136 -104
DN74LS136P4	♦MATJ	91 -103	DTZM1-100	♦RHB	137 -108	ECLPWG100	♦RHB	152 - 58	EP9120	PCA	138 - 84	EP9604-450	PCA	136 -105
DN74LS160AP2	♦MATJ	175 - 8	DTZM1-150	♦RHB	137 -109	ED5	♦STX	246 - 17	EP9121	PCA	138 - 85	EP9604-500	PCA	136 -106
DN74LS160AP5	♦MATJ	175 - 9	DTZM1-200	♦RHB	137 -110	ED9(3)	♦STX	246 - 18	EP9122	PCA	138 - 86	EP9604-550	PCA	136 -107
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GXB10107	♦MULB	91 - 21
GXB10109	♦MULB	124 - 73
GXB10110	MULB	122 - 78
GXB10111	♦MULB	115 - 29
GXB10113	♦MULB	92 - 98
GXB10117	♦MULB	83 - 70
GXB10118	♦MULB	83 -103
GXB10119	MULB	84 - 36
GXB10121	♦MULB	84 - 16
GXB10123D	♦PHIN	117 - 53
GXB10123P	♦PHIN	117 - 54
GXB10130	♦MULB	229 - 12
GXB10131	♦MULB	53 - 32
GXB10133	♦MULB	229 - 39
GXB10135	♦MULB	74 - 84
	SIC	
GXB10136	♦MULB	154 - 24
GXB10137	♦MULB	177 - 20
GXB10160	♦MULB	227 - 83
GXB10160D	♦PHIN	227 -107
GXB10160P	♦PHIN	227 -108
GXB10179D	♦PHIN	224 - 50
GXB10179P	♦PHIN	224 - 51
GXB10181	♦RTCF	220 - 15
GXB10181D	♦RTCF	220 - 43
GXB10181P	♦RTCF	220 - 44
GZF1201P	♦MULB	166 - 18
	♦PHIN	
GZF1202P	♦MULB	246 - 29
	♦PHIN	
H102D1	♦SGSI	101 - 6
H102D2	♦SGSI	101 - 7
H102D6	♦SGSI	101 - 8
H103D1	♦SGSI	104 - 23
H103D2	♦SGSI	104 - 24
H103D6	♦SGSI	104 - 25
H104D1	♦SGSI	108 - 97
H104D2	♦SGSI	108 - 98
H104D6	♦SGSI	108 - 99
H105D1	SGSI	89 - 73
H105D2	SGSI	89 - 74
H105D6	SGSI	89 - 75
H109D1	♦SGSI	83 - 38
H109D2	♦SGSI	83 - 39
H109D6	♦SGSI	83 - 40
H110D1	♦SGSI	67 - 16
H110D2	♦SGSI	67 - 17
H110D6	♦SGSI	67 - 18
H111D1	♦SGSI	67 - 19
H111D2	♦SGSI	67 - 20
H111D6	♦SGSI	67 - 21
H117D1	♦SGSI	188 - 65
H117D6	♦SGSI	188 - 66
H122D1	♦SGSI	96 - 32
H122D2	♦SGSI	96 - 33
H122D6	♦SGSI	96 - 34
H124D1	♦SGSI	104 - 96
H124D2	♦SGSI	104 - 97
H124D6	♦SGSI	104 - 98
H156D1	♦SGSI	165 - 79
H156D2	♦SGSI	165 - 80
H156D6	♦SGSI	165 - 81
H157D1	♦SGSI	165 - 82
H157D2	♦SGSI	165 - 83
H157D6	SGSI	165 - 84
H158D1	SGSI	126 - 82
H158D2	SGSI	126 - 83
H158D6	SGSI	126 - 84
H159D1	♦SGSI	64 - 78
H165D1	♦SGSI	64 - 79
H166D1	♦SGSI	64 - 80
H167D1	♦SGSI	91 - 4
H168D1	♦SGSI	91 - 2
H202B1	♦SGSI	101 - 9
H203B1	♦SGSI	104 - 26
H204B1	♦SGSI	108 -100
H205B1	SGSI	89 - 76
H209B1	♦SGSI	83 - 41
H210B1	♦SGSI	67 - 22
H211B1(1)	♦SGSI	67 - 23
H222B1	♦SGSI	96 - 35
H224B1	♦SGSI	104 - 99
H227B1	SGSI	187 - 23
H256B1	♦SGSI	165 - 85
H257B1	♦SGSI	165 - 86
H258B1	SGSI	126 - 85
H629B1	♦SGSI	245 - 79

Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
H632B1	♦SGSI	245 - 80
H1855CD	HUG	203 - 83
H1855CL	HUG	203 - 84
H1855CP	♦HUG	203 - 85
H1855CY	HUG	203 - 86
H1855D	HUG	203 - 92
H1855L	HUG	203 - 74
H1855P	♦HUG	203 - 75
H1855Y	HUG	203 - 76
HAG20011	FSC	108 - 49
HAG20019	FSC	108 - 50
HAG20021	FSC	108 - 51
HAG20029	FSC	108 - 52
HB1855CD	♦HAC	203 - 87
HB1855D	♦HAC	203 - 77
HBC4000AD	SGSI	112 - 6
HBC4000AF	SGSI	112 - 7
HBC4000AK	SGSI	112 - 8
HBC4001AD	♦SGSI	114 - 44
HBC4001AF	♦SGSI	114 - 45
HBC4001AK	♦SGSI	114 - 46
HBC4002AD	♦SGSI	118 - 62
HBC4002AF	♦SGSI	118 - 63
HBC4002AK	♦SGSI	118 - 64
HBC4008AD	♦SGSI	201 - 56
HBC4008AF	♦SGSI	201 - 57
HBC4008AK	♦SGSI	201 - 58
HBC4011AD	♦SGSI	99 - 89
HBC4011AF	♦SGSI	99 - 90
HBC4011AK	♦SGSI	99 - 91
HBC4012AD	♦SGSI	107 - 92
HBC4012AF	♦SGSI	107 - 93
HBC4012AK	♦SGSI	107 - 94
HBC4013AD	♦SGSI	50 -105
HBC4013AF	♦SGSI	50 -106
HBC4013AK	♦SGSI	50 -107
HBC4017AD	♦SGSI	183 - 9
HBC4017AF	♦SGSI	183 - 10
HBC4017AK	♦SGSI	183 - 11
HBC4018AD	SGSI	185 - 85
HBC4018AF	SGSI	185 - 86
HBC4018AK	SGSI	185 - 87
HBC4020AD	♦SGSI	171 - 8
HBC4020AF	♦SGSI	171 - 9
HBC4020AK	♦SGSI	171 - 10
HBC4022AD	♦SGSI	184 - 93
HBC4022AF	♦SGSI	184 - 94
HBC4022AK	♦SGSI	184 - 95
HBC4023AD	♦SGSI	103 - 34
HBC4023AF	♦SGSI	103 - 35
HBC4023AK	♦SGSI	103 - 36
HBC4024AD	♦SGSI	168 - 30
HBC4024AF	♦SGSI	168 - 31
HBC4024AK	♦SGSI	168 - 32
HBC4025AD	♦SGSI	116 - 72
HBC4025AF	♦SGSI	116 - 73
HBC4025AK	♦SGSI	116 - 74
HBC4026AD	SGSI	183 -102
HBC4026AF	SGSI	183 -103
HBC4026AK	SGSI	183 -104
HBC4027AD	♦SGSI	67 - 60
HBC4027AF	♦SGSI	67 - 61
HBC4027AK	♦SGSI	67 - 62
HBC4028AD	♦SGSI	126 - 86
HBC4028AF	♦SGSI	126 - 87
HBC4028AK	♦SGSI	126 - 88
HBC4029AD	♦SGSI	160 - 14
HBC4029AF	♦SGSI	160 - 15
HBC4029AK	♦SGSI	160 - 16
HBC4030AD	SGSI	91 -104
HBC4030AF	SGSI	91 -105
HBC4030AK	SGSI	94 - 39
HBC4032AD	♦SGSI	199 - 16
HBC4032AF	♦SGSI	199 - 17
HBC4032AK	SGSI	199 - 18
HBC4033AD	SGSI	183 -105
HBC4033AF	SGSI	183 -106
HBC4033AK	SGSI	183 -107
HBC4037AD	SGSI	85 - 14
HBC4037AF	SGSI	85 - 15
HBC4037AK	SGSI	85 - 16
HBC4038AD	♦SGSI	199 - 19
HBC4038AF	♦SGSI	199 - 20
HBC4038AK	♦SGSI	199 - 21
HBC4040AD	♦SGSI	170 - 3
HBC4040AF	♦SGSI	170 - 4
HBC4040AK	♦SGSI	170 - 5
HBC4042AD(1)	♦SGSI	232 - 86
HBC4042AF(1)	♦SGSI	232 - 87
HBC4042AK(1)	♦SGSI	232 - 88
HBC4043AD	♦SGSI	244 - 46
HBC4043AF	♦SGSI	244 - 47
HBC4043AK	♦SGSI	244 - 48
HBC4044AD	♦SGSI	244 - 49
HBC4044AF	♦SGSI	244 - 50
HBC4044AK	♦SGSI	244 - 51
HBC4045AD	♦SGSI	194 - 54
HBC4045AF	SGSI	194 - 55
HBC4045AK	♦SGSI	194 - 56
HBC4047AD	SGSI	187 - 24
HBC4047AK	SGSI	187 - 25
HBC4048AD	♦SGSI	95 - 30
HBC4048AF	♦SGSI	95 - 31
HBC4048AK	♦SGSI	95 - 32
HBC4057AD	♦SGSI	222 - 99
HBC4059AD	♦SGSI	196 - 18
HBC4059AK	♦SGSI	196 - 19
HBC4060AD	♦SGSI	170 - 94
HBC4060AF	♦SGSI	170 - 95
HBC4060AK	♦SGSI	170 - 96
HBF4000AE	SGSI	112 - 20
HBF4000AF	SGSI	112 - 21
HBF4001AE	♦SGSI	114 - 76
HBF4001AF	♦SGSI	114 - 77
HBF4002AE	♦SGSI	118 - 82
HBF4002AF	♦SGSI	118 - 83
HBF4008AE	♦SGSI	201 - 65
HBF4008AF	♦SGSI	201 - 66
HBF4011AE	♦SGSI	100 - 31
HBF4011AF	♦SGSI	100 - 32
HBF4012AE	♦SGSI	108 - 6
HBF4012AF	♦SGSI	108 - 7
HBF4013AE	♦SGSI	50 -108
HBF4013AF	♦SGSI	50 -109
HBF4017AE	♦SGSI	183 - 12
HBF4017AF	♦SGSI	183 - 13
HBF4018AE	SGSI	185 - 88
HBF4018AF	SGSI	185 - 89
HBF4020AE	♦SGSI	171 - 11
HBF4020AF	♦SGSI	171 - 12
HBF4022AE	♦SGSI	184 - 96
HBF4022AF	♦SGSI	184 - 97
HBF4023AE	♦SGSI	103 - 66
HBF4023AF	♦SGSI	103 - 67
HBF4024AE	♦SGSI	168 - 33
HBF4024AF	♦SGSI	168 - 34
HBF4025AE	♦SGSI	116 - 94
HBF4025AF	♦SGSI	116 - 95
HBF4026AE	SGSI	183 -108
HBF4026AF	SGSI	183 -109
HBF4027AE	♦SGSI	67 - 63
HBF4027AF	♦SGSI	67 - 64
HBF4028AE	♦SGSI	126 - 89
HBF4028AF	♦SGSI	126 - 90
HBF4029AE	♦SGSI	160 - 17
HBF4029AF	♦SGSI	160 - 18
HBF4030AE	SGSI	91 -106
HBF4030AF	SGSI	91 -107
HBF4032AE	♦SGSI	199 - 26
HBF4032AF	♦SGSI	199 - 27
HBF4033AE	SGSI	183 -110
HBF4033AF	SGSI	184 - 1
HBF4037AE	SGSI	85 - 17
HBF4037AF	SGSI	85 - 18
HBF4038AE	♦SGSI	199 - 28
HBF4038AF	♦SGSI	199 - 29
HBF4040AE	♦SGSI	170 - 6
HBF4040AF	♦SGSI	170 - 7
HBF4042AE(1)	♦SGSI	232 -108
HBF4042AF(1)	♦SGSI	232 -109
HBF4043AE	♦SGSI	244 - 60
HBF4043AF	♦SGSI	244 - 61
HBF4044AE	♦SGSI	244 - 62
HBF4044AF	♦SGSI	244 - 63
HBF4045AE	♦SGSI	194 - 57
HBF4045AF	♦SGSI	194 - 58
HBF4047AE	SGSI	187 - 26
HBF4048AE	♦SGSI	95 - 33
HBF4048AF	♦SGSI	95 - 34
HBF4057AD	♦SGSI	222 -100
HBF4059AD	♦SGSI	196 - 20
HBF4059AE	♦SGSI	196 - 21
HBF4060AE	♦SGSI	170 - 92
HBF4060AF	♦SGSI	170 - 93
HBG20011	FSC	108 - 53
HBG20019	FSC	108 - 54
HBG20021	FSC	108 - 55
HBG20029	FSC	108 - 56
HC1855CL	♦HAC	203 - 88
HC1855CY	♦HAC	203 - 89
HC1855L	♦HAC	203 - 78
HC1855Y	♦HAC	203 - 79
HCC4000BD	♦SGSI	112 - 29
HCC4000BF	♦SGSI	112 - 30
HCC4000BK	♦SGSI	112 - 31
HCC4001BD	♦SGSI	114 -102
HCC4001BF	♦SGSI	114 -103
HCC4001BK	♦SGSI	114 -104
HCC4002BD	♦SGSI	118 - 88
HCC4002BF	♦SGSI	118 - 89
HCC4002BK	♦SGSI	118 - 90
HCC4008BD	♦SGSI	201 - 21
HCC4008BF	♦SGSI	201 - 22
HCC4008BK	♦SGSI	201 - 23
HCC4011BD	♦SGSI	100 - 91
HCC4011BF	♦SGSI	100 - 92
HCC4011BK	♦SGSI	100 - 93
HCC4012BD	♦SGSI	107 -102
HCC4012BF	♦SGSI	107 -103
HCC4012BK	♦SGSI	107 -104
HCC4013BD	♦SGSI	51 - 13
HCC4013BF	♦SGSI	51 - 14
HCC4013BK	♦SGSI	51 - 15
HCC4017BD	♦SGSI	183 - 35
HCC4017BF	♦SGSI	183 - 36
HCC4017BK	♦SGSI	183 - 37
HCC4018BD	♦SGSI	185 -103
HCC4018BF	♦SGSI	185 -104
HCC4018BK	♦SGSI	185 -105
HCC4019BD	♦SGSI	84 - 67
HCC4019BF	♦SGSI	84 - 68
HCC4019BK	♦SGSI	84 - 69
HCC4020BD	♦SGSI	171 - 76
HCC4020BF	♦SGSI	171 - 77
HCC4020BK	♦SGSI	171 - 78
HCC4022BD	♦SGSI	184 -106
HCC4022BF	♦SGSI	184 -107
HCC4022BK	♦SGSI	184 -108
HCC4023BD	♦SGSI	103 - 93
HCC4023BF	♦SGSI	103 - 94
HCC4023BK	♦SGSI	103 - 95
HCC4024BD	♦SGSI	168 - 81
HCC4024BF	♦SGSI	168 - 82
HCC4024BK	♦SGSI	168 - 83
HCC4025BD	♦SGSI	116 -102
HCC4025BF	♦SGSI	116 -103
HCC4025BK	♦SGSI	116 -104
HCC4026BD	♦SGSI	184 - 9
HCC4026BF	♦SGSI	184 - 10
HCC4026BK	♦SGSI	184 - 11
HCC4027BD	♦SGSI	67 - 65
HCC4027BF	♦SGSI	67 - 66
HCC4027BK	♦SGSI	67 - 67
HCC4028BD	♦SGSI	126 - 91
HCC4028BF	♦SGSI	126 - 92
HCC4028BK	♦SGSI	126 - 93
HCC4029BD	♦SGSI	160 - 79
HCC4029BF	♦SGSI	160 - 80
HCC4029BK	♦SGSI	160 - 81
HCC4030BD	♦SGSI	91 -108
HCC4030BF	♦SGSI	91 -109
HCC4030BK	♦SGSI	94 - 19
HCC4032BD	♦SGSI	199 - 30
HCC4032BF	♦SGSI	199 - 31
HCC4032BK	♦SGSI	199 - 32
HCC4033BD	♦SGSI	184 - 12
HCC4033BF	♦SGSI	184 - 13
HCC4033BK	♦SGSI	184 - 14
HCC4038BD	♦SGSI	199 - 33
HCC4038BF	♦SGSI	199 - 34
HCC4038BK	♦SGSI	199 - 35
HCC4040BD	♦SGSI	170 - 52
HCC4040BF	♦SGSI	170 - 53
HCC4040BK	♦SGSI	170 - 54
HCC4042BD	♦SGSI	232 - 50
HCC4042BF	♦SGSI	232 - 51
HCC4042BK	♦SGSI	232 - 52
HCC4043BD	♦SGSI	243 -104
HCC4043BF	♦SGSI	243 -105
HCC4043BK	♦SGSI	243 -106
HCC4044BD	♦SGSI	243 -107
HCC4044BF	♦SGSI	243 -108
HCC4044BK	♦SGSI	243 -109
HCC4045BD	♦SGSI	172 - 24
HCC4045BF	♦SGSI	172 - 25
HCC4045BK	♦SGSI	172 - 26
HCC4047BD	♦SGSI	187 - 27
HCC4047BF	♦SGSI	187 - 28
HCC4047BK	♦SGSI	187 - 29
HCC4048BD	♦SGSI	95 - 36
HCC4048BF	♦SGSI	95 - 37
HCC4048BK	♦SGSI	95 - 38
HCC4060BD	♦SGSI	171 - 79
HCC4060BF	♦SGSI	171 - 80
HCC4060BK	♦SGSI	171 - 81
HCC4063BD	♦SGSI	217 - 65
HCC4063BF	♦SGSI	217 - 66
HCC4063BK	♦SGSI	217 - 67
HCC4068BD	♦SGSI	110 - 99
HCC4068BF	♦SGSI	110 -100
HCC4068BK	♦SGSI	110 -101
HCC4070BD	♦SGSI	91 -110
HCC4070BF	♦SGSI	92 - 1
HCC4070BK	♦SGSI	94 - 26
HCC4071BD	♦SGSI	122 - 25
HCC4071BF	♦SGSI	122 - 26
HCC4071BK	♦SGSI	122 - 27
HCC4072BD	♦SGSI	124 - 43
HCC4072BF	♦SGSI	124 - 44
HCC4072BK	♦SGSI	124 - 45
HCC4073BD	♦SGSI	81 - 28
HCC4073BF	♦SGSI	81 - 29
HCC4073BK	♦SGSI	81 - 30
HCC4075BD	♦SGSI	123 - 76
HCC4075BF	♦SGSI	123 - 77
HCC4075BK	♦SGSI	123 - 78
HCC4077BD	♦SGSI	90 - 10
HCC4077BF	♦SGSI	90 - 11
HCC4077BK	♦SGSI	90 -104
HCC4078BD	♦SGSI	119 - 96
HCC4078BF	♦SGSI	119 - 97
HCC4078BK	♦SGSI	119 - 98
HCC4081BD	♦SGSI	78 - 98
HCC4081BF	♦SGSI	78 - 99
HCC4081BK	♦SGSI	78 -100
HCC4082BD	♦SGSI	83 - 30
HCC4082BF	♦SGSI	83 - 31
HCC4082BK	♦SGSI	83 - 32
HCC4085BD	♦SGSI	85 - 48
HCC4085BF	♦SGSI	85 - 49
HCC4085BK	♦SGSI	85 - 50
HCC4086BD	♦SGSI	86 -106
HCC4086BF	♦SGSI	86 -107
HCC4086BK	♦SGSI	86 -108
HCC4089BD	♦SGSI	197 - 64
HCC4089BF	♦SGSI	197 - 65
HCC4089BK	♦SGSI	197 - 66
HCC4095BD	♦SGSI	64 -104
HCC4095BF	♦SGSI	64 -105
HCC4095BK	♦SGSI	64 -106
HCC4096BD	♦SGSI	64 -107
HCC4096BF	♦SGSI	64 -108
HCC4096BK	♦SGSI	64 -109
HCC4098BD	♦SGSI	190 - 3
HCC4098BF	♦SGSI	190 - 4
HCC4098BK	♦SGSI	190 - 5
HCC4099BD	♦SGSI	240 - 92
HCC4099BF	♦SGSI	240 - 93
HCC4099BK	♦SGSI	240 - 94
HCC4508BD	♦SGSI	232 - 7
HCC4508BF	♦SGSI	232 - 8
HCC4510BD	♦SGSI	177 -109
HCC4510BF	♦SGSI	177 -110
HCC4510BK	♦SGSI	178 - 1
HCC4514BD	♦SGSI	125 - 87
HCC4515BD	♦SGSI	125 - 88
HCC4516BD	SGSI	160 - 82
HCC4516BF	SGSI	160 - 83
HCC4516BK	SGSI	160 - 84
HCC4518BD	♦SGSI	181 - 3
HCC4518BF	♦SGSI	181 - 4
HCC4518BK	♦SGSI	181 - 5
HCC4520BD	♦SGSI	164 - 31
HCC4520BF	♦SGSI	164 - 32
HCC4520BK	♦SGSI	164 - 33
HCC4527BD	♦SGSI	197 - 59
HCC4527BF	♦SGSI	197 - 60
HCC4527BK	♦SGSI	197 - 61
HCC4556BK	♦SGSI	126 - 10
HCC40101BD	♦SGSI	227 - 63
HCC40101BF	♦SGSI	227 - 64
HCC40101BK	♦SGSI	227 - 65
HCC40102BD	♦SGSI	169 - 22
HCC40102BF	♦SGSI	169 - 23
HCC40102BK	♦SGSI	169 - 24
HCC40103BD	♦SGSI	169 - 25
HCC40103BF	♦SGSI	169 - 26
HCC40103BK	♦SGSI	169 - 27
HCC40160BD	♦SGSI	173 - 49
HCC40160BF	♦SGSI	173 - 50
HCC40160BK	♦SGSI	173 - 51
HCC40161BD	♦SGSI	155 - 23
HCC40161BF	♦SGSI	155 - 24
HCC40161BK	♦SGSI	155 - 25
HCC40162BD	♦SGSI	173 - 52
HCC40162BF	♦SGSI	173 - 53
HCC40162BK	♦SGSI	173 - 54
HCC40163BD	♦SGSI	155 - 26
HCC40163BF	♦SGSI	155 - 27
HCC40163BK	♦SGSI	155 - 28
HCC40174BD	♦SGSI	56 - 16
HCC40174BF	♦SGSI	56 - 17
HCC40174BK	♦SGSI	56 - 18
HCC40182BD	♦SGSI	225 - 65
HCC40182BF	♦SGSI	225 - 66
HCC40182BK	♦SGSI	225 - 67
HCF4000BE	♦SGSI	112 - 32
HCF4000BF	♦SGSI	112 - 33
HCF4001BE	♦SGSI	114 -105
HCF4001BF	♦SGSI	114 -106
HCF4002BE	♦SGSI	118 - 91
HCF4002BF	♦SGSI	118 - 92
HCF4008BE	♦SGSI	201 - 24
HCF4008BF	♦SGSI	201 - 25
HCF4011BE	♦SGSI	100 - 94
HCF4011BF	♦SGSI	100 - 95
HCF4012BE	♦SGSI	107 -105
HCF4012BF	♦SGSI	107 -106
HCF4013BE	♦SGSI	51 - 16
HCF4013BF	♦SGSI	51 - 17
HCF4017BE	♦SGSI	183 - 38
HCF4017BF	♦SGSI	183 - 39
HCF4018BE	♦SGSI	185 -106
HCF4018BF	♦SGSI	185 -107
HCF4019BE	♦SGSI	84 - 70
HCF4019BF	♦SGSI	84 - 71
HCF4020BE	♦SGSI	171 - 82
HCF4020BF	♦SGSI	171 - 83
HCF4022BE	♦SGSI	184 -109
HCF4022BF	♦SGSI	184 -110
HCF4023BE	♦SGSI	103 - 96
HCF4023BF	♦SGSI	103 - 97
HCF4024BE	♦SGSI	168 - 84
HCF4024BF	♦SGSI	168 - 85
HCF4025BE	♦SGSI	116 -105
HCF4025BF	♦SGSI	116 -106
HCF4026BE	♦SGSI	184 - 15
HCF4026BF	♦SGSI	184 - 16
HCF4027BE	♦SGSI	67 - 68
HCF4027BF	♦SGSI	67 - 69
HCF4028BE	♦SGSI	126 - 94
HCF4028BF	♦SGSI	126 - 95
HCF4029BE	♦SGSI	160 - 85
HCF4029BF	♦SGSI	160 - 86
HCF4030BE	♦SGSI	92 - 2
HCF4030BF	♦SGSI	92 - 3
HCF4032BE	♦SGSI	199 - 36
HCF4032BF	♦SGSI	199 - 37
HCF4033BE	♦SGSI	184 - 17
HCF4033BF	♦SGSI	184 - 18
HCF4038BE	♦SGSI	199 - 38
HCF4038BF	♦SGSI	199 - 39
HCF4040BE	♦SGSI	170 - 55
HCF4040BF	♦SGSI	170 - 56
HCF4042BE	♦SGSI	232 - 53
HCF4042BF	♦SGSI	232 - 54
HCF4043BE	♦SGSI	243 -110
HCF4043BF	♦SGSI	244 - 1
HCF4044BE	♦SGSI	244 - 2
HCF4044BF	♦SGSI	244 - 3
HCF4045BE	♦SGSI	172 - 27
HCF4045BF	♦SGSI	172 - 28
HCF4047BE	♦SGSI	187 - 30
HCF4047BF	♦SGSI	187 - 31
HCF4048BE	♦SGSI	95 - 39
HCF4048BF	♦SGSI	95 - 40
HCF4060BE	♦SGSI	171 - 84
HCF4060BF	♦SGSI	171 - 85
HCF4063BE	♦SGSI	217 - 68
HCF4063BF	♦SGSI	217 - 69
HCF4068BE	♦SGSI	110 -102
HCF4068BF	♦SGSI	110 -103
HCF4070BE	♦SGSI	92 - 4
HCF4070BF	♦SGSI	92 - 5
HCF4071BE	♦SGSI	122 - 28
HCF4071BF	♦SGSI	122 - 29
HCF4072BE	♦SGSI	124 - 46
HCF4072BF	♦SGSI	124 - 47
HCF4073BE	♦SGSI	81 - 31
HCF4073BF	♦SGSI	81 - 32
HCF4075BE	♦SGSI	123 - 79
HCF4075BF	♦SGSI	123 - 80
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HCF4076BF(1)	♦SGSI	54 - 23
HCF4077BE	♦SGSI	90 - 12
HCF4077BF	♦SGSI	90 - 13
HCF4078BE	♦SGSI	119 - 99
HCF4078BF	♦SGSI	119 -100
HCF4081BE	♦SGSI	78 -101
HCF4081BF	♦SGSI	78 -102
HCF4082BE	♦SGSI	83 - 33
HCF4082BF	♦SGSI	83 - 34
HCF4085BE	♦SGSI	85 - 51
HCF4085BF	♦SGSI	85 - 52
HCF4086BE	♦SGSI	86 -109
HCF4086BF	♦SGSI	86 -110
HCF4089BE	♦SGSI	197 - 67
HCF4089BF	♦SGSI	197 - 68
HCF4095BE	♦SGSI	64 -110
HCF4095BF	♦SGSI	65 - 1
HCF4096BE	♦SGSI	65 - 2
HCF4096BF	♦SGSI	65 - 3
HCF4098BE	♦SGSI	190 - 6
HCF4098BF	♦SGSI	190 - 7
HCF4099BE	♦SGSI	240 - 95
HCF4099BF	♦SGSI	240 - 96
HCF4508BD	♦SGSI	232 - 9
HCF4508BE	♦SGSI	232 - 10
HCF4510BE	♦SGSI	178 - 2
HCF4510BF	♦SGSI	178 - 3
HCF4514BD	♦SGSI	125 - 89
HCF4514BE	♦SGSI	125 - 90
HCF4515BD	♦SGSI	125 - 91
HCF4515BE	♦SGSI	125 - 92
HCF4516BE	♦SGSI	160 - 87
HCF4516BF	♦SGSI	160 - 88
HCF4518BE	♦SGSI	181 - 6
HCF4518BF	♦SGSI	181 - 7
HCF4520BE	♦SGSI	164 - 34
HCF4520BF	♦SGSI	164 - 35
HCF4527BE	♦SGSI	197 - 62
HCF4527BF	♦SGSI	197 - 63
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HCF40101BF	♦SGSI	227 - 67
HCF40102BE	♦SGSI	169 - 28
HCF40102BF	♦SGSI	169 - 29
HCF40103BE	♦SGSI	169 - 30
HCF40103BF	♦SGSI	169 - 31
HCF40160BE	♦SGSI	173 - 55
HCF40160BF	♦SGSI	173 - 56
HCF40161BE	♦SGSI	155 - 29
HCF40161BF	♦SGSI	155 - 30
HCF40162BE	♦SGSI	173 - 57
HCF40162BF	♦SGSI	173 - 58
HCF40163BE	♦SGSI	155 - 31
HCF40163BF	♦SGSI	155 - 32
HCF40174BE	♦SGSI	56 - 19
HCF40174BF	♦SGSI	56 - 20
HCF40182BE	♦SGSI	225 - 68
HCF40182BF	♦SGSI	225 - 69
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HD1-4702-9	HAS	193 - 38
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HD3-4702-8	HAS	193 -104
HD3-4702-9	HAS	193 - 39
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HD74HC00P	♦HITJ	98 - 37
HD74HC01FP	♦HITJ	98 - 38
HD74HC01P	♦HITJ	98 - 39
HD74HC02FP	♦HITJ	115 - 13
HD74HC02P	♦HITJ	115 - 14
HD74HC08FP	♦HITJ	77 - 45
HD74HC08P	♦HITJ	77 - 46
HD74HC09FP	♦HITJ	77 - 43
HD74HC09P	♦HITJ	77 - 44
HD74HC10FP	♦HITJ	102 - 68
HD74HC10P	♦HITJ	102 - 69
HD74HC11FP	♦HITJ	80 - 47
HD74HC11P	♦HITJ	80 - 48
HD74HC20FP	♦HITJ	106 - 29
HD74HC20P	♦HITJ	106 - 30
HD74HC21FP	♦HITJ	82 - 24
HD74HC21P	♦HITJ	82 - 25
HD74HC27FP	♦HITJ	116 - 13
HD74HC27P	♦HITJ	116 - 14
HD74HC30FP	♦HITJ	109 - 54
HD74HC30P	♦HITJ	109 - 55
HD74HC32FP	♦HITJ	121 - 47
HD74HC32P	♦HITJ	121 - 48
HD74HC42FP	♦HITJ	126 - 96
HD74HC42P	♦HITJ	126 - 97
HD74HC51FP	♦HITJ	88 - 90
HD74HC51P	♦HITJ	88 - 91
HD74HC73FP	♦HITJ	69 - 7
HD74HC73P	♦HITJ	69 - 8
HD74HC74FP	♦HITJ	51 - 30
HD74HC74P	♦HITJ	51 - 31
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HD74HC75P	♦HITJ	230 - 74
HD74HC76FP	♦HITJ	69 - 9
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HD74HC77FP	♦HITJ	230 - 75
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HD74HC78P	♦HITJ	69 - 12
HD74HC83FP	♦HITJ	199 - 83
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△-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

3. TYPE No. CROSS INDEX

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HD74HC112P	♦HITJ	69 - 18
HD74HC113FP	♦HITJ	69 - 19
HD74HC113P	♦HITJ	69 - 20
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HD74HC162FP	♦HITJ	174 - 3
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HD74HC163FP	HITJ	155 -108
HD74HC163P	♦HITJ	155 -109
HD74HC173FP	♦HITJ	54 - 46
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HD74HC174FP	♦HITJ	56 - 40
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HD74HC564FP	♦HITJ	60 - 3
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HD74HC573FP	♦HITJ	235 - 39
HD74HC573P	♦HITJ	235 - 40
HD74HC574FP	♦HITJ	60 - 5
HD74HC574P	♦HITJ	60 - 6
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HD74HC686FP	♦HITJ	218 -106
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HD74HC4060FP	♦HITJ	171 - 49
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HD74HC4538FP	♦HITJ	190 - 11
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HD74HCT534FP	♦HITJ	60 - 9
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HD74LS266G	♦HITJ	90 - 87
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HD74LS273G	♦HITJ	60 - 95
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HD74LS668G	♦HITJ	179 - 7
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HD100156F	♦HITJ	246 - 24
HD100160	♦HITJ	226 - 25
HD100160F	♦HITJ	226 - 26
HD100166	♦HITJ	219 - 10
HD100166F	♦HITJ	219 - 11
HD100179	♦HITJ	224 - 15
HD100179F	♦HITJ	224 - 23
HD100180	♦HITJ	201 - 83
HD100180F	♦HITJ	201 - 84
HD100181	♦HITJ	220 - 42
HD100181F	♦HITJ	220 - 41
HD100182	♦HITJ	201 - 89
HD100182F	♦HITJ	201 - 90
HD100183	♦HITJ	202 - 83
HD100183F	♦HITJ	202 - 84
HEF4000B	PHIN	112 - 22
	♦VALG	
HEF4000BD	♦MULB	112 - 23
	♦PHIN	♦RTCF
		♦VALG
HEF4000BP(A)	♦MULB	112 - 24
	♦PHIN	♦RTCF
		♦VALG
HEF4000BPN	SIC	112 - 9
HEF4000BT	♦MULB	112 - 25
	♦PHIN	♦RTCF
		♦VALG
HEF4000BTD	SIC	112 - 10
HEF4001	RTCF	114 - 25
HEF4001BD	♦MULB	114 - 55
	♦PHIN	♦RTCF
		♦VALG
HEF4001BP	♦MULB	114 - 56
	♦PHIN	♦RTCF
		♦VALG
HEF4001BPN	SIC	114 - 26
HEF4001BT	♦MULB	114 - 57
	♦PHIN	♦RTCF
		♦VALG
HEF4001BTD	SIC	114 - 27
HEF4001P	♦MULB	114 - 13
	PHIN	♦VALG
HEF4001U	RTCF	114 - 28
HEF4001UB	PHIN	114 - 67
HEF4001UBD	♦MULB	114 - 68
	♦PHIN	♦RTCF
		♦VALG
HEF4001UBP	♦MULB	114 - 69
	♦PHIN	♦RTCF
		♦VALG
HEF4001UBPN	SIC	113 - 91
HEF4001UBT	♦MULB	114 - 70
	♦PHIN	♦RTCF
		♦VALG
HEF4001UBTD	SIC	114 - 58
HEF4002	RTCF	118 - 43
HEF4002BD	♦MULB	118 - 71
	PHIN	♦RTCF
		♦VALG
HEF4002BP	♦MULB	118 - 72
	PHIN	♦RTCF
		♦VALG
HEF4002BPN	SIC	118 - 44
HEF4002BT	♦MULB	118 - 73
	PHIN	♦RTCF
		♦VALG
HEF4002BTD	SIC	118 - 45
HEF4002P	♦MULB	118 - 46
	PHIN	♦VALG
HEF4008	RTCF	201 - 3
HEF4008B	♦VALG	201 - 2
HEF4008BD	♦MULB	201 - 10
	♦PHIN	♦RTCF
		♦VALG
HEF4008BP	♦MULB	201 - 11
	♦PHIN	♦RTCF
		♦VALG
HEF4008BPN	SIC	201 - 4
HEF4008BT	♦MULB	201 - 12
	♦PHIN	♦RTCF
		♦VALG
HEF4008BTD	SIC	200 -109
HEF4008P	♦MULB	200 -106
	♦PHIN	VALG
HEF4011	RTCF	99 - 74
HEF4011BD	♦MULB	100 - 10
	♦PHIN	♦RTCF
		♦VALG
HEF4011BP	♦MULB	100 - 11
	♦PHIN	♦RTCF
		♦VALG
HEF4011BPN	SIC	99 - 75
HEF4011BT	♦MULB	100 - 12
	♦PHIN	♦RTCF
		♦VALG
HEF4011BTD	SIC	99 - 76
HEF4011P	♦MULB	99 - 43
	♦PHIN	♦VALG
HEF4011U	RTCF	99 - 77
HEF4011UBD	♦MULB	100 - 33
	♦PHIN	♦RTCF
		♦VALG
HEF4011UBP	♦MULB	100 - 34
	♦PHIN	♦RTCF
		♦VALG
HEF4011UBPN	SIC	98 - 85
HEF4011UBT	♦MULB	100 - 35
	♦PHIN	♦RTCF
		♦VALG
HEF4011UBTD	SIC	99 - 92
HEF4012	RTCF	107 - 68
HEF4012BD	♦MULB	107 - 69
	♦PHIN	♦RTCF
		♦VALG
HEF4012BP	♦MULB	107 - 70
	♦PHIN	♦RTCF
		♦VALG
HEF4012BPN	SIC	107 - 71
HEF4012BT	♦MULB	107 - 72
	♦PHIN	♦RTCF
		♦VALG
HEF4012BTD	SIC	107 - 73
HEF4012P	♦MULB	107 - 39
	♦PHIN	♦VALG
HEF4013	RTCF	51 - 26
HEF4013BD	♦PHIN	51 - 95
HEF4013BP	♦PHIN	51 - 96
HEF4013BPN	SIC	51 - 27
HEF4013BT	♦PHIN	51 - 97
HEF4013BTD	SIC	52 - 35
HEF4013P	♦MULB	51 - 24
	♦PHIN	♦VALG
HEF4017	RTCF	183 - 28
HEF4017BD	♦MULB	183 - 60
	♦PHIN	♦RTCF
		♦VALG
HEF4017BP	♦MULB	183 - 61
	♦PHIN	♦RTCF
		♦VALG
HEF4017BPN	SIC	183 - 29
HEF4017BT	♦MULB	183 - 62
	♦PHIN	♦RTCF
		♦VALG
HEF4017BTD	SIC	183 - 63
HEF4017P	♦MULB	183 - 30
	♦PHIN	♦VALG
HEF4018	RTCF	185 - 96
HEF4018BD	♦MULB	185 - 99
	♦PHIN	♦RTCF
		♦VALG
HEF4018BP	♦MULB	185 -100
	♦PHIN	♦RTCF
		♦VALG
HEF4018BPN	SIC	185 - 97
HEF4018BT	♦MULB	185 -101
	♦PHIN	♦RTCF
		♦VALG
HEF4018BTD	SIC	185 -102
HEF4018P	♦MULB	185 - 98
	♦PHIN	♦VALG
HEF4020	RTCF	171 - 54
HEF4020BD	♦MULB	171 - 94
	♦PHIN	♦RTCF
		♦VALG
HEF4020BP	♦MULB	171 - 95
	♦PHIN	♦RTCF
		♦VALG
HEF4020BPN	SIC	171 - 55
HEF4020BT	♦MULB	171 - 96
	♦PHIN	♦RTCF
		♦VALG
HEF4020BTD	SIC	171 -106
HEF4020P	♦MULB	171 - 44
	♦PHIN	♦VALG
HEF4022	RTCF	184 -104
HEF4022BD	♦MULB	185 - 29
	♦PHIN	♦RTCF
		♦VALG
HEF4022BP	♦MULB	185 - 30
	♦PHIN	♦RTCF
		♦VALG
HEF4022BPN	SIC	184 -105
HEF4022BT	♦MULB	185 - 28
	♦PHIN	♦RTCF
		♦VALG
HEF4022BTD	SIC	185 - 22
HEF4022P	♦MULB	184 -103
	♦PHIN	♦VALG
HEF4023	RTCF	103 - 53
HEF4023BD	♦MULB	103 - 68
	♦PHIN	RTCF
		VALG
HEF4023BP	MULB	103 - 69
	♦PHIN	RTCF
		♦VALG
HEF4023BT	♦MULB	103 - 70
	♦PHIN	RTCF
		VALG
HEF4023P	♦MULB	103 - 82
	♦PHIN	♦VALG
HEF4024	RTCF	168 - 67
HEF4024BD	♦MULB	168 - 59
	♦PHIN	♦RTCF
		♦VALG
HEF4024BP	♦MULB	168 - 58
	♦PHIN	♦RTCF
		♦VALG
HEF4024BPN	SIC	168 - 68
HEF4024BT	♦MULB	168 - 60
	♦PHIN	♦RTCF
		♦VALG
HEF4024BTD	SIC	168 - 92
HEF4024P	♦MULB	168 - 88
	♦PHIN	♦VALG
HEF4025	RTCF	116 - 53
HEF4025BD	♦MULB	116 - 82
	♦PHIN	♦RTCF
		♦VALG

Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
HEF4025BP	♦MULB	116 - 83
♦PHIN	♦RTCF	
	♦VALG	
HEF4025BPN	SIC	116 - 54
HEF4025BT	♦MULB	116 - 84
♦PHIN	♦RTCF	
	♦VALG	
HEF4025BTD	SIC	116 - 55
HEF4025P	♦MULB	116 - 89
♦PHIN	♦VALG	
HEF4027	RTCF	67 - 92
HEF4027BD	♦MULB	68 - 4
♦PHIN	♦RTCF	
	♦VALG	
HEF4027BP	♦MULB	68 - 5
♦PHIN	♦RTCF	
	♦VALG	
HEF4027BPN	SIC	67 - 93
HEF4027BT	♦PHIN	68 - 6
HEF4027BTD	SIC	68 -109
HEF4027P	♦MULB	68 - 27
♦PHIN	♦VALG	
HEF4028	RTCF	126 -101
HEF4028B	♦VALG	126 -102
HEF4028BD	♦PHIN	126 -103
HEF4028BP	♦PHIN	126 -104
HEF4028BPN	SIC	126 -105
HEF4028BT	♦PHIN	126 -106
HEF4028BTD	SIC	126 -107
HEF4028P	♦MULB	126 -108
♦PHIN	♦VALG	
HEF4029	RTCF	161 - 62
HEF4029B	♦VALG	160 - 92
HEF4029BD	♦MULB	162 - 15
♦PHIN	♦RTCF	
	♦VALG	
HEF4029BP	♦MULB	162 - 16
♦PHIN	♦RTCF	
	♦VALG	
HEF4029BPN	SIC	161 - 63
HEF4029BT	♦MULB	162 - 17
♦PHIN	♦RTCF	
	♦VALG	
HEF4029BTD	SIC	163 - 11
HEF4029P	♦MULB	160 - 93
♦PHIN	♦VALG	
HEF4030	RTCF	92 - 6
HEF4030BD	♦MULB	94 - 31
PHIN	♦RTCF	
	♦VALG	
HEF4030BP	♦MULB	94 - 32
PHIN	♦RTCF	
	♦VALG	
HEF4030BPN	SIC	94 - 24
HEF4030BT	♦MULB	94 - 33
PHIN	♦RTCF	
	♦VALG	
HEF4030BTD	SIC	92 - 7
HEF4030P	♦MULB	92 - 8
♦PHIN	♦VALG	
HEF4040	RTCF	170 - 41
HEF4040BD	♦MULB	169 -101
♦PHIN	♦RTCF	
	♦VALG	
HEF4040BP	♦MULB	169 -102
♦PHIN	♦RTCF	
	♦VALG	
HEF4040BPN	SIC	170 - 42
HEF4040BT	♦MULB	169 -103
♦PHIN	♦RTCF	
	♦VALG	
HEF4040BTD	SIC	170 - 66
HEF4040P	♦MULB	170 - 59
PHIN	♦VALG	
HEF4042	RTCF	232 - 34
HEF4042BD	♦MULB	232 - 44
♦PHIN	♦RTCF	
	♦VALG	
HEF4042BP	♦MULB	232 - 45
♦PHIN	♦RTCF	
	♦VALG	
HEF4042BPN	SIC	232 - 35
HEF4042BT	♦MULB	232 - 46
♦PHIN	♦RTCF	
	♦VALG	
HEF4042BTD	SIC	232 - 36
HEF4042P	♦MULB	232 - 89
♦PHIN	♦VALG	
HEF4043	RTCF	243 - 76
HEF4043BD	♦MULB	243 - 94
♦PHIN	♦RTCF	
	♦VALG	
HEF4043BP	♦MULB	243 - 95
♦PHIN	♦RTCF	
	♦VALG	
HEF4043BPN	SIC	243 - 77
HEF4043BT	♦MULB	243 - 96
♦PHIN	♦RTCF	
	♦VALG	
HEF4043BTD	SIC	243 - 78
HEF4043P	♦MULB	243 - 79
♦PHIN	♦VALG	
HEF4044	RTCF	243 - 91
HEF4044BD	♦MULB	243 - 97
♦PHIN	♦RTCF	
	♦VALG	
HEF4044BP	♦MULB	243 - 98
♦PHIN	♦RTCF	
	♦VALG	
HEF4044BPN	SIC	243 - 92
HEF4044BT	♦PHIN	243 - 99
♦RTCF	♦VALG	
HEF4044BTD	SIC	243 - 93
HEF4044P	♦MULB	243 - 80
♦PHIN	♦VALG	
HEF4047	RTCF	187 - 32
HEF4047B	♦VALG	187 - 33
HEF4047BD	♦MULB	187 - 34
♦PHIN	♦RTCF	
	♦VALG	
HEF4047BP	♦MULB	187 - 35
♦PHIN	♦RTCF	
	♦VALG	
HEF4047BPN	SIC	187 - 36
HEF4047BT	♦MULB	187 - 37
♦PHIN	♦RTCF	
	♦VALG	
HEF4047BTD	SIC	187 - 38
HEF4059BD	♦MULB	196 - 41
♦PHIN	♦RTCF	
	♦VALG	
HEF4059BP	♦MULB	196 - 42
♦PHIN	♦RTCF	
	♦VALG	
HEF4059BPN	SIC	195 - 96
HEF4059BT	♦PHIN	195 -103
HEF4060BD	♦MULB	171 - 67
♦PHIN	♦RTCF	
	♦VALG	
HEF4060BP	♦MULB	171 - 68
♦PHIN	♦RTCF	
	♦VALG	
HEF4060BPN	SIC	170 - 81
HEF4060BT	♦MULB	171 - 69
♦PHIN	♦RTCF	
	♦VALG	
HEF4060BTD	SIC	171 - 51
HEF4068	RTCF	110 - 58
HEF4068BD	♦MULB	110 - 66
PHIN	♦RTCF	
	♦VALG	
HEF4068BP	♦MULB	110 - 67
PHIN	♦RTCF	
	♦VALG	
HEF4068BPN	SIC	110 - 59
HEF4068BT	♦MULB	110 - 68
PHIN	♦RTCF	
	♦VALG	
HEF4068BTD	SIC	110 - 60
HEF4068P	♦MULB	110 - 44
♦PHIN	♦VALG	
HEF4070	RTCF	92 - 9
HEF4070BD	♦MULB	94 - 34
♦PHIN	♦RTCF	
	♦VALG	
HEF4070BP	♦MULB	94 - 35
♦PHIN	♦RTCF	
	♦VALG	
HEF4070BPN	SIC	92 - 10
HEF4070BT	♦MULB	94 - 36
♦PHIN	♦RTCF	
	♦VALG	
HEF4070BTD	SIC	92 - 11
HEF4070P	♦MULB	92 - 12
♦PHIN	VALG	
HEF4071	RTCF	121 - 93
HEF4071BD	♦MULB	121 -101
♦PHIN	♦RTCF	
	♦VALG	
HEF4071BP	♦MULB	121 -102
♦PHIN	♦RTCF	
	♦VALG	
HEF4071BPN	SIC	121 - 94
HEF4071BT	♦MULB	121 -103
♦PHIN	♦RTCF	
	♦VALG	
HEF4071BTD	SIC	121 - 95
HEF4071P	♦MULB	121 -100
♦PHIN	♦VALG	
HEF4072	RTCF	124 - 12
HEF4072BD	♦PHIN	124 - 15
♦RTCF	♦VALG	
HEF4072BP	♦MULB	124 - 16
♦PHIN	♦RTCF	
	♦VALG	
HEF4072BPN	SIC	124 - 13
HEF4072BT	♦MULB	124 - 17
♦PHIN	♦RTCF	
	♦VALG	
HEF4072BTD	SIC	124 - 14
HEF4072P	♦MULB	124 - 11
♦PHIN	♦VALG	
HEF4073	RTCF	80 - 91
HEF4073B	♦VALG	80 - 88
HEF4073BD	♦MULB	80 -104
♦PHIN	♦RTCF	
	♦VALG	
HEF4073BP	♦MULB	80 -105
♦PHIN	♦RTCF	
	♦VALG	
HEF4073BPN	SIC	80 - 92
HEF4073BT	♦MULB	80 -106
♦PHIN	♦RTCF	
	♦VALG	
HEF4073BTD	SIC	80 - 93
HEF4073P	♦PHIN	80 - 89
HEF4075	RTCF	123 - 40
HEF4075B	♦VALG	123 - 10
HEF4075BD	♦MULB	123 - 43
♦PHIN	♦RTCF	
	♦VALG	
HEF4075BP	♦MULB	123 - 44
♦PHIN	♦RTCF	
	♦VALG	
HEF4075BPN	SIC	123 - 41
HEF4075BT	♦MULB	123 - 45
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HEF4075BT		
(cont.)	♦PHIN	
♦RTCF	♦VALG	
HEF4075BTD	SIC	123 - 42
HEF4077	RTCF	90 - 15
HEF4077B	♦VALG	90 - 16
HEF4077BD	♦MULB	90 -105
♦PHIN	♦RTCF	
	♦VALG	
HEF4077BP	♦MULB	90 -106
♦PHIN	♦RTCF	
	♦VALG	
HEF4077BPN	SIC	90 - 17
HEF4077BT	♦MULB	90 -107
♦PHIN	♦RTCF	
	♦VALG	
HEF4077BTD	SIC	90 -101
HEF4077P	♦PHIN	90 - 18
HEF4078	RTCF	119 - 57
HEF4078BD	♦MULB	119 - 65
♦PHIN	♦RTCF	
	♦VALG	
HEF4078BP	♦MULB	119 - 66
♦PHIN	♦RTCF	
	♦VALG	
HEF4078BPN	SIC	119 - 58
HEF4078BT	♦MULB	119 - 67
♦PHIN	♦RTCF	
	♦VALG	
HEF4078BTD	SIC	119 - 59
HEF4078P	♦MULB	119 - 56
♦PHIN	♦VALG	
HEF4081	RTCF	78 - 51
HEF4081BD	♦MULB	78 - 55
♦PHIN	♦RTCF	
	♦VALG	
HEF4081BP	♦MULB	78 - 56
♦PHIN	♦RTCF	
	♦VALG	
HEF4081BPN	SIC	78 - 52
HEF4081BT	♦MULB	78 - 57
♦PHIN	♦RTCF	
	♦VALG	
HEF4081BTD	SIC	78 - 53
HEF4081P	♦MULB	78 - 58
♦PHIN	♦VALG	
HEF4082	RTCF	82 -106
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♦PHIN	♦RTCF	
	♦VALG	
HEF4082BP	♦MULB	83 - 2
♦PHIN	♦RTCF	
	♦VALG	
HEF4082BPN	SIC	82 -107
HEF4082BT	♦MULB	83 - 3
♦PHIN	♦RTCF	
	♦VALG	
HEF4082BTD	SIC	82 -108
HEF4082P	♦MULB	82 - 84
♦PHIN	♦VALG	
HEF4085	RTCF	85 - 53
HEF4085BD	♦MULB	85 - 61
♦PHIN	♦RTCF	
	♦VALG	
HEF4085BP	♦MULB	85 - 62
♦PHIN	♦RTCF	
	♦VALG	
HEF4085BPN	SIC	85 - 54
HEF4085BT	♦MULB	85 - 63
♦PHIN	♦RTCF	
	♦VALG	
HEF4085BTD	SIC	85 - 55
HEF4085P	♦MULB	85 - 56
♦PHIN	♦VALG	
HEF4086	RTCF	87 - 1
HEF4086B	♦VALG	87 - 2
HEF4086BD	♦MULB	87 - 30
♦PHIN	♦RTCF	
	♦VALG	
HEF4086BP	♦MULB	87 - 31
♦PHIN	♦RTCF	
	♦VALG	
HEF4086BPN	SIC	87 - 3
HEF4086BT	♦MULB	87 - 32
♦PHIN	♦RTCF	
	♦VALG	
HEF4086BTD	SIC	87 - 4
HEF4086P	♦PHIN	87 - 5
HEF4508	RTCF	231 -106
HEF4508BD	♦MULB	232 - 55
♦PHIN	♦RTCF	
	♦VALG	
HEF4508BP	♦MULB	232 - 56
♦PHIN	♦RTCF	
	♦VALG	
HEF4508BPN	SIC	231 -107
HEF4508BT	♦MULB	232 - 57
♦PHIN	♦RTCF	
	♦VALG	
HEF4510	RTCF	178 - 41
HEF4510B	♦VALG	178 - 11
HEF4510BD	♦MULB	178 - 89
♦PHIN	♦RTCF	
	♦VALG	
HEF4510BP	♦MULB	178 - 90
♦PHIN	♦RTCF	
	♦VALG	
HEF4510BPN	SIC	178 - 42
HEF4510BT	♦MULB	178 - 91
♦PHIN	♦RTCF	
	♦VALG	
HEF4510BTD	SIC	177 - 21
HEF4516	RTCF	161 - 58
HEF4516B	♦VALG	160 - 94
HEF4516BD	♦MULB	161 - 18
♦PHIN	♦RTCF	
	♦VALG	
HEF4516BP	♦MULB	161 - 19
♦PHIN	♦RTCF	
	♦VALG	
HEF4516BPN	SIC	161 - 59
HEF4516BT	♦MULB	161 - 20
♦PHIN	♦RTCF	
	♦VALG	
HEF4516BTD	SIC	163 - 5
HEF4518	RTCF	181 - 26
HEF4518BD	♦MULB	181 - 61
♦PHIN	♦RTCF	
	♦VALG	
HEF4518BP	♦MULB	181 - 62
♦PHIN	♦RTCF	
	♦VALG	
HEF4518BPN	SIC	181 - 27
HEF4518BT	♦MULB	181 - 63
♦PHIN	♦RTCF	
	♦VALG	
HEF4518BTD	SIC	181 - 50
HEF4518P	♦MULB	181 - 28
♦PHIN	♦VALG	
HEF4520	RTCF	164 - 56
HEF4520BD	♦MULB	165 - 1
♦PHIN	♦RTCF	
	♦VALG	
HEF4520BP	♦MULB	165 - 2
♦PHIN	♦RTCF	
	♦VALG	
HEF4520BPN	SIC	164 - 57
HEF4520BT	♦MULB	165 - 3
♦PHIN	♦RTCF	
	♦VALG	
HEF4520BTD	SIC	164 - 88
HEF4520P	♦MULB	164 - 58
♦PHIN	♦VALG	
HEF4521	RTCF	194 - 65
HEF4521BD	♦MULB	196 - 54
PHIN	♦RTCF	
	♦VALG	
HEF4521BP	♦MULB	196 - 55
PHIN	♦RTCF	
	♦VALG	
HEF4521BPN	SIC	194 - 66
HEF4521BT	♦MULB	196 - 56
PHIN	♦RTCF	
	♦VALG	
HEF4521BTD	SIC	194 - 67
HEF4522	RTCF	176 - 97
HEF4522BD	♦MULB	177 - 16
♦PHIN	♦RTCF	
	♦VALG	
HEF4522BP	♦MULB	177 - 17
♦PHIN	♦RTCF	
	♦VALG	
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HEF4526BP	♦MULB	159 - 64
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	♦VALG	
HEF4526BPN	SIC	159 - 43
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♦PHIN	♦RTCF	
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HEF4527BT	♦PHIN	197 - 85
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HEF4528BP	♦MULB	190 - 19
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HEF4531BP	♦MULB	228 - 10
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PHIN	♦RTCF	
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Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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	♦PHIN	♦RTCF
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HEF40193BP	♦MULB	161 - 22
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Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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△-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
MB74LS86M	FCAJ	93 - 93	MB604	FCAJ	109 - 16	MB84082B	FCAJ	83 - 7	MC10H118LD	♦MOTA	83 - 95	MC10H180PD	♦MOTA	198 - 11
MB74LS107	FCAJ	70 - 53	MB605	FCAJ	106 - 13	MB84082BM	FCAJ	83 - 8	MC10H118LDS	♦MOTA	83 - 96	MC10H180PDS	♦MOTA	198 - 12
MB74LS107A	FCAJ	70 - 54	MB606	FCAJ	85 -107	MB84518B	FCAJ	181 - 10	MC10H118N	♦MMI	83 -101	MC10H181L	♦MOTA	220 - 27
MB74LS107AM	FCAJ	70 - 55	MB607	FCAJ	81 - 64	MB84518BM	FCAJ	181 - 11	MC10H118NL	♦MMI	83 -102	MC10H181LD	♦MOTA	220 - 28
MB74LS107M	FCAJ	70 - 56	MB609	FCAJ	65 -105	MB84520B	FCAJ	164 - 38	MC10H118P	♦MOTA	83 - 97	MC10H181LDS	♦MOTA	220 - 29
MB74LS109A	FCAJ	69 - 63	MB613	FCAJ	89 - 81	MB84520BM	FCAJ	164 - 39	MC10H118PD	♦MOTA	83 - 98	MC10H181LS	♦MOTA	220 - 30
MB74LS109AM	FCAJ	69 - 64	MB614	FCAJ	82 - 26	MB84524B	FCAJ	166 - 23	MC10H118PDS	♦MOTA	83 - 99	MC10H181LW	♦MOTA	220 - 31
MB74LS112A	FCAJ	70 - 57	MB618	FCAJ	70 - 63	MB84524BM	FCAJ	166 - 24	MC10H119FN	♦MOTA	84 - 52	MC10H181LWD	♦MOTA	220 - 32
MB74LS112AM	FCAJ	70 - 58	MB10101	FCAJ	120 - 40	MBL8282	♦FMI	233 - 60	MC10H119J(A)	♦MMI	84 - 56	MC10H181LWDS	♦MOTA	220 - 33
MB74LS113A	FCAJ	70 - 59	MB10101M	FCAJ	120 - 41	MBL8283	♦FMI	233 - 61	MC10H119L	♦MOTA	84 - 53	MC10H181P	♦MOTA	220 - 34
MB74LS113AM	FCAJ	70 - 60	MB10102	FCAJ	113 - 29	MC10H016FN	♦MMI	169 - 20	MC10H119LD	♦MOTA	84 - 54	MC10H181PD	♦MOTA	220 - 35
MB74LS114A	FCAJ	70 - 61	MB10102M	FCAJ	113 - 30		MOTA		MC10H119LDS	♦MOTA	84 - 55	MC10H181PDS	♦MOTA	220 - 36
MB74LS114AM	FCAJ	70 - 62	MB10103	FCAJ	121 - 66	MC10H016J	♦MMI	169 - 21	MC10H119N(A)	♦MMI	84 - 57	MC10H181PS	♦MOTA	220 - 37
MB74LS122	FCAJ	188 - 72	MB10103M	FCAJ	121 - 67	MC10H016L	♦MOTA	167 - 30	MC10H119NL(A)		84 - 58	MC10H181PW	♦MOTA	220 - 38
MB74LS122M	FCAJ	188 - 73	MB10104	FCAJ	77 - 16	MC10H016LD	♦MOTA	167 - 31		♦MMI		MC10H181PWD	♦MOTA	220 - 39
MB74LS123	FCAJ	190 - 49	MB10104M	FCAJ	77 - 17	MC10H016LDS	♦MOTA	167 - 32	MC10H119P	♦MOTA	245 - 85	MC10H181PWDS	♦MOTA	220 - 40
MB74LS123M	FCAJ	190 - 50	MB10105	FCAJ	122 - 33	MC10H016P	♦MOTA	167 - 33	MC10H119PD	♦MOTA	245 - 86	MC10H186AL(A)		50 - 30
MB74LS136	FCAJ	92 - 21	MB10105M	FCAJ	122 - 34	MC10H016PD	♦MOTA	167 - 34	MC10H119PDS	♦MOTA	245 - 87		♦MOTA	
MB74LS136M	FCAJ	92 - 22	MB10106	FCAJ	117 - 64	MC10H016PDS	♦MOTA	167 - 35	MC10H121FN	♦MOTA	245 - 88	MC10H186AP(A)		50 - 31
MB74LS160A	FCAJ	174 - 42	MB10106M	FCAJ	117 - 65	MC10H100FN	♦MOTA	117 - 27	MC10H121J	♦MMI	84 - 31		♦MOTA	
MB74LS160AM	FCAJ	174 - 43	MB10107	FCAJ	91 - 22	MC10H100L	♦MOTA	117 - 28	MC10H121L	♦MOTA	245 - 89	MC10H209FN	♦MOTA	124 - 65
MB74LS161A	FCAJ	156 - 77	MB10107M	FCAJ	91 - 23	MC10H100LD	♦MOTA	117 - 29	MC10H121LD	♦MOTA	245 - 90	MC10H209L	♦MOTA	124 - 66
MB74LS161AM	FCAJ	156 - 78	MB10109	FCAJ	124 - 54	MC10H100LDS	♦MOTA	117 - 30	MC10H121LDS	♦MOTA	245 - 91	MC10H209LD	♦MOTA	124 - 67
MB74LS162A	FCAJ	174 - 44	MB10109M	FCAJ	124 - 55	MC10H100P	♦MOTA	117 - 31	MC10H121N	♦MMI	84 - 32	MC10H209LDS	♦MOTA	124 - 68
MB74LS162AM	FCAJ	174 - 45	MB10110	FCAJ	122 -104	MC10H100PD	♦MOTA	117 - 32	MC10H121P	♦MOTA	245 - 92	MC10H209P	♦MOTA	124 - 69
MB74LS163A	FCAJ	156 - 79	MB10110M	FCAJ	122 -105	MC10H100PDS	♦MOTA	117 - 33	MC10H121PD	♦MOTA	245 - 93	MC10H209PD	♦MOTA	124 - 70
MB74LS163AM	FCAJ	156 - 80	MB10111	FCAJ	115 - 30	MC10H101FN	♦MOTA	120 - 96	MC10H121PDS	♦MOTA	245 - 94	MC10H209PDS	♦MOTA	124 - 71
MB74LS174	FCAJ	56 - 70	MB10111M	FCAJ	115 - 31	MC10H101L	♦MOTA	120 - 97	MC10H130FN	♦MOTA	229 - 32	MC10H210FN	♦MOTA	122 - 58
MB74LS174M	FCAJ	56 - 71	MB10117	FCAJ	83 - 71	MC10H101LD	♦MOTA	120 - 98	MC10H130J	♦MMI	229 - 41	MC10H210J	♦MMI	122 - 59
MB74LS175	FCAJ	54 -108	MB10117M	FCAJ	83 - 72	MC10H101LDS	♦MOTA	120 - 99	MC10H130L	♦MOTA	229 - 33	MC10H210L	♦MOTA	122 - 60
MB74LS175M	FCAJ	54 -109	MB10118	FCAJ	83 -104	MC10H101P	♦MOTA	120 -100	MC10H130LD	♦MOTA	229 - 34	MC10H210LD	♦MOTA	122 - 61
MB74LS181	FCAJ	222 - 76	MB10118M	FCAJ	83 -105	MC10H101PD	♦MOTA	120 -101	MC10H130LDS	♦MOTA	229 - 35	MC10H210LDS	♦MOTA	122 - 62
MB74LS181M	FCAJ	222 - 77	MB10119	FCAJ	84 - 37	MC10H101PDS	♦MOTA	120 -102	MC10H130N	♦MMI	229 - 42	MC10H210N	♦MMI	122 - 63
MB74LS183	FCAJ	198 - 48	MB10119M	FCAJ	84 - 38	MC10H102FN	♦MOTA	113 - 15	MC10H130P	♦MOTA	229 - 36	MC10H210P	♦MOTA	122 - 64
MB74LS183M	FCAJ	198 - 49	MB10121	FCAJ	84 - 17	MC10H102J(A)	♦MMI	113 - 22	MC10H130PD	♦MOTA	229 - 37	MC10H210PD	♦MOTA	122 - 65
MB74LS190	FCAJ	178 - 65	MB10121M	FCAJ	84 - 18	MC10H102L	♦MOTA	113 - 16	MC10H130PDS	♦MOTA	229 - 38	MC10H210PDS	♦MOTA	122 - 66
MB74LS190M	FCAJ	178 - 66	MB10130	FCAJ	229 - 26	MC10H102LD	♦MOTA	113 - 17	MC10H131FN	♦MOTA	53 - 61	MC10H211FN	♦MOTA	115 - 17
MB74LS191	FCAJ	161 - 76	MB10130M	FCAJ	229 - 27	MC10H102LDS	♦MOTA	113 - 18	MC10H131J(A)	♦MMI	52 - 57	MC10H211J	♦MMI	115 - 18
MB74LS191M	FCAJ	161 - 77	MB10131	FCAJ	53 - 34	MC10H102N	♦MMI	113 - 23	MC10H131L	♦MOTA	53 - 62	MC10H211L	♦MOTA	115 - 19
MB74LS192	FCAJ	179 - 10	MB10131M	FCAJ	53 - 35	MC10H102P	♦MOTA	113 - 19	MC10H131LD	♦MOTA	53 - 63	MC10H211LD	♦MOTA	115 - 20
MB74LS192M	FCAJ	179 - 11	MB10133	FCAJ	229 - 28	MC10H102PD	♦MOTA	113 - 20	MC10H131LDS	♦MOTA	53 - 64	MC10H211LDS	♦MOTA	115 - 21
MB74LS193	FCAJ	165 - 37	MB10133M	FCAJ	229 - 29	MC10H102PDS	♦MOTA	113 - 21	MC10H131N(A)	♦MMI	52 - 58	MC10H211N	♦MMI	115 - 22
MB74LS193M	FCAJ	162 - 19	MB10135	FCAJ	74 - 73	MC10H103FN	♦MOTA	120 -103	MC10H131P	♦MOTA	53 - 65	MC10H211P	♦MOTA	115 - 23
MB74LS221	FCAJ	190 - 51	MB10135M	FCAJ	74 - 74	MC10H103J(A)	♦MMI	120 -110	MC10H131PD	♦MOTA	53 - 66	MC10H211PD	♦MOTA	115 - 24
MB74LS221M	FCAJ	190 - 52	MB10136	FCAJ	159 - 26	MC10H103L	♦MOTA	120 -104	MC10H131PDS	♦MOTA	53 - 67	MC10H211PDS	♦MOTA	115 - 25
MB74LS266	FCAJ	90 - 24	MB10136M	FCAJ	159 - 27	MC10H103LD	♦MOTA	120 -105	MC10H135FN	♦MOTA	74 - 94	MC10L951R(A)	MOTA	204 - 5
MB74LS266M	FCAJ	90 - 25	MB10137	FCAJ	180 - 81	MC10H103LDS	♦MOTA	120 -106	MC10H135L	♦MOTA	74 - 95	MC54F00J	♦MOTA	96 - 66
MB74LS280	FCAJ	226 -104	MB10137M	FCAJ	180 - 82	MC10H103N(A)	♦MMI	121 - 1	MC10H135LD	♦MOTA	74 - 96	MC54F00N	♦MOTA	96 - 67
MB74LS280M	FCAJ	226 -105	MB10160	FCAJ	227 - 81	MC10H103P	♦MOTA	120 -107	MC10H135LDS	♦MOTA	74 - 97	MC54F02J	♦MOTA	112 - 83
MB74LS283	FCAJ	200 - 22	MB10160M	FCAJ	227 - 82	MC10H103PD	♦MOTA	120 -108	MC10H135P	♦MOTA	74 - 98	MC54F02N	♦MOTA	112 - 84
MB74LS283M	FCAJ	200 - 23	MB10161	FCAJ	125 - 21	MC10H103PDS	♦MOTA	120 -109	MC10H135PD	♦MOTA	74 - 99	MC54F08J	♦MOTA	76 - 47
MB74LS386	FCAJ	92 - 23	MB10161M	FCAJ	125 - 22	MC10H104FN	♦MOTA	77 - 7	MC10H135PDS	♦MOTA	74 -100	MC54F08N	♦MOTA	76 - 48
MB74LS386M	FCAJ	92 - 24	MB10162	FCAJ	125 - 23	MC10H104J(A)	♦MMI	77 - 14	MC10H136FN	♦MOTA	159 - 35	MC54F10J	♦MOTA	101 - 71
MB400	FCAJ	96 - 53	MB10162M	FCAJ	125 - 24	MC10H104L	♦MOTA	77 - 8	MC10H136J	♦MMI	164 - 1	MC54F10N	♦MOTA	101 - 72
MB400M	FCAJ	96 - 54	MB10175	FCAJ	49 - 53	MC10H104LD	♦MOTA	77 - 9	MC10H136L	♦MOTA	159 - 36	MC54F11J(A)	♦MOTA	79 - 82
MB401	FCAJ	96 - 55	MB10175M	FCAJ	49 - 54	MC10H104LDS	♦MOTA	77 - 10	MC10H136LD	♦MOTA	159 - 37	MC54F11N(A)	♦MOTA	79 - 83
MB401M	FCAJ	96 - 56	MB10179	FCAJ	224 - 4	MC10H104N(A)	♦MMI	77 - 15	MC10H136LDS	♦MOTA	159 - 38	MC54F20J	♦MOTA	105 - 70
MB402	FCAJ	104 -109	MB10179M	FCAJ	224 - 5	MC10H104P	♦MOTA	77 - 11	MC10H136N	♦MMI	164 - 2	MC54F20N	♦MOTA	105 - 71
MB402M	FCAJ	104 -110	MB10180	FCAJ	198 - 4	MC10H104PD	♦MOTA	77 - 12	MC10H136P	♦MOTA	159 - 39	MC54F21	MOTA	82 - 52
MB403	FCAJ	109 - 49	MB10180M	FCAJ	198 - 5	MC10H104PDS	♦MOTA	77 - 13	MC10H136PD	♦MOTA	159 - 40	MC54F32J	♦MOTA	120 - 42
MB403M	FCAJ	109 - 50	MB10181	FCAJ	220 - 22	MC10H105FN	♦MOTA	122 - 35	MC10H136PDS	♦MOTA	159 - 41	MC54F32N	♦MOTA	120 - 43
MB404	FCAJ	106 - 39	MB10181M	FCAJ	220 - 23	MC10H105J(A)	♦MMI	122 - 42	MC10H160FN	♦MOTA	227 - 84	MC54F64J	♦MOTA	89 - 13
MB404M	FCAJ	106 - 40	MB84001B	FCAJ	114 - 82	MC10H105L	♦MOTA	122 - 36	MC10H160J	♦MMI	227 - 91	MC54F64N	♦MOTA	89 - 16
MB405	FCAJ	85 -105	MB84001BM	FCAJ	114 - 83	MC10H105LD	♦MOTA	122 - 37	MC10H160L	♦MOTA	227 - 85	MC54F74J	♦MOTA	53 - 14
MB405M	FCAJ	85 -106	MB84002B	FCAJ	118 - 93	MC10H105LDS	♦MOTA	122 - 38	MC10H160LD	♦MOTA	227 - 86	MC54F74N	♦MOTA	53 - 15
MB406	FCAJ	81 - 62	MB84002BM	FCAJ	118 - 94	MC10H105N(A)	♦MMI	122 - 43	MC10H160LDS	♦MOTA	227 - 87	MC54F86J	♦MOTA	93 - 12
MB406M	FCAJ	81 - 63	MB84008B	FCAJ	201 - 26	MC10H105P	♦MOTA	122 - 39	MC10H160N	♦MMI	227 - 92	MC54F86N	♦MOTA	93 - 13
MB407	FCAJ	65 - 35	MB84008BM	FCAJ	201 - 27	MC10H105PD	♦MOTA	122 - 40	MC10H160P	♦MOTA	227 - 88	MC54F109J	♦MOTA	74 - 35
MB407M	FCAJ	65 - 36	MB84011B	FCAJ	100 - 67	MC10H105PDS	♦MOTA	122 - 41	MC10H160PD	♦MOTA	227 - 89	MC54F109N	♦MOTA	74 - 36
MB408	FCAJ	198 - 46	MB84011BM	FCAJ	100 - 68	MC10H106FN	♦MOTA	117 - 75	MC10H160PDS	♦MOTA	227 - 90	MC54F112J	♦MOTA	74 - 61
MB408M	FCAJ	198 - 47	MB84012B	FCAJ	108 - 21	MC10H106L	♦MOTA	117 - 76	MC10H166FN	♦MOTA	217 - 97	MC54F112N	♦MOTA	74 - 62
MB410	FCAJ	68 - 54	MB84012BM	FCAJ	108 - 22	MC10H106LD	♦MOTA	117 - 77	MC10H166J	♦MMI	217 -104	MC54F113J	♦MOTA	74 - 63
MB410M	FCAJ	68 - 55	MB84013B	FCAJ	50 -110	MC10H106LDS	♦MOTA	117 - 78	MC10H166L	♦MOTA	217 - 98	MC54F113N	♦MOTA	74 - 64
MB411	FCAJ	87 - 7	MB84013BM	FCAJ	51 - 1	MC10H106P	♦MOTA	117 - 79	MC10H166LD	♦MOTA	217 - 99	MC54F114J	♦MOTA	73 -103
MB411M	FCAJ	87 - 8	MB84017B	FCAJ	183 - 26	MC10H106PD	♦MOTA	117 - 80	MC10H166LDS	♦MOTA	217 -100	MC54F114N	♦MOTA	73 -104
MB416	FCAJ	96 - 57	MB84017BM	FCAJ	183 - 27	MC10H106PDS	♦MOTA	117 - 81	MC10H166N	♦MMI	217 -105	MC54F138J(2A)		125 - 25
MB416M	FCAJ	96 - 58	MB84019B	FCAJ	84 - 87	MC10H107FN	♦MOTA	91 - 8	MC10H166NL	♦MMI	217 -106		♦MOTA	
MB417	FCAJ	112 - 81	MB84019BM	FCAJ	84 - 88	MC10H107J(A)	♦MMI	91 - 15	MC10H166P	♦MOTA	217 -101	MC54F160AJ	♦MOTA	176 - 79
MB417M	FCAJ	112 - 82	MB84020B	FCAJ	171 - 20	MC10H107L	♦MOTA	91 - 9	MC10H166PD	♦MOTA	217 -102	MC54F160AN	♦MOTA	176 - 80
MB420	FCAJ	51 - 63	MB84020BM	FCAJ	171 - 21	MC10H107LD	♦MOTA	91 - 10	MC10H166PDS	♦MOTA	217 -103	MC54F161AJ	♦MOTA	159 - 10
MB420M	FCAJ	51 - 64	MB84022B	FCAJ	184 -101	MC10H107LDS	♦MOTA	91 - 11	MC10H175FN	♦MOTA	233 - 10	MC54F161AN	♦MOTA	159 - 11
MB430	FCAJ	229 - 10	MB84022BM	FCAJ	184 -102	MC10H107N(A)	♦MMI	91 - 16	MC10H175J	♦MMI	233 - 17	MC54F162AJ	♦MOTA	176 - 81
MB430M	FCAJ	229 - 11	MB84023B	FCAJ	103 - 98	MC10H107P	♦MOTA	91 - 12	MC10H175L	♦MOTA	233 - 11	MC54F162AN	♦MOTA	176 - 82
MB431	FCAJ	96 - 59	MB84023BM	FCAJ	103 - 99	MC10H107PD	♦MOTA	91 - 13	MC10H175LD	♦MOTA	233 - 12	MC54F163AJ	♦MOTA	159 - 12
MB431M	FCAJ	96 - 60	MB84025B	FCAJ	116 -107	MC10H107PDS	♦MOTA	91 - 14	MC10H175LDS	♦MOTA	233 - 13	MC54F163AN	♦MOTA	159 - 13
MB433	FCAJ	96 - 61	MB84025BM	FCAJ	116 -108	MC10H109FN	♦MOTA	124 - 56	MC10H175N	♦MMI	233 - 18	MC54F174J	♦MOTA	57 - 53
MB433M	FCAJ	96 - 62	MB84027B	FCAJ	67 - 82	MC10H109J	♦MMI	124 - 57	MC10H175P	♦MOTA	233 - 14	MC54F174N	♦MOTA	57 - 54
MB435	FCAJ	96 - 63	MB84027BM	FCAJ	67 - 83	MC10H109L	♦MOTA	124 - 58	MC10H175PD	♦MOTA	233 - 15	MC54F175J	♦MOTA	55 - 96
MB435M	FCAJ	96 - 64	MB84028B	FCAJ	127 - 18	MC10H109LD	♦MOTA	124 - 59	MC10H175PDS	♦MOTA	233 - 16	MC54F175N	♦MOTA	55 - 97
MB440	FCAJ	190 - 53	MB84028BM	FCAJ	127 - 19	MC10H109LDS	♦MOTA	124 - 60	MC10H176FN	♦MOTA	50 - 23	MC54F181J	♦MOTA	221 - 32
MB440M	FCAJ	190 - 54	MB84029B	FCAJ	154 - 52	MC10H109N	♦MMI	124 - 61	MC10H176J	♦MMI	57 - 59	MC54F181N	♦MOTA	221 - 33
MB442	FCAJ	127 - 16	MB84029BM	FCAJ	165 -102	MC10H109P	♦MOTA	124 - 62	MC10H176L	♦MOTA	50 - 24	MC54F182J	♦MOTA	224 - 88
MB442M	FCAJ	127 - 17	MB84040B	FCAJ	170 - 17	MC10H109PD	♦MOTA	124 - 63	MC10H176LD	♦MOTA	50 - 25	MC54F182N	♦MOTA	224 - 89
MB447	FCAJ	226 - 20	MB84040BM	FCAJ	170 - 18	MC10H109PDS	♦MOTA	124 - 64	MC10H176LDS	♦MOTA	50 - 26	MC54F190J	♦MOTA	182 - 44
MB447M	FCAJ	226 - 21	MB84060B	FCAJ	171 - 2	MC10H113FN	♦MOTA	92 - 99	MC10H176N	♦MMI	57 - 60	MC54F190N	♦MOTA	182 - 45
MB448	FCAJ	216 - 48	MB84060BM	FCAJ	171 - 3	MC10H113L	♦MOTA	92 -100	MC10H176NL	♦MMI	57 - 61	MC54F191J	♦MOTA	163 - 66
MB448M	FCAJ	216 - 49	MB84068B	FCAJ	110 - 73	MC10H113LD	♦MOTA	92 -101	MC10H176P	♦MOTA	50 - 27	MC54F191N	♦MOTA	163 - 67
MB449	FCAJ	92 - 25	MB84068BM	FCAJ	110 - 74	MC10H113LDS	♦MOTA	92 -102	MC10H176PD	♦MOTA	50 - 28	MC54F192J	♦MOTA	180 - 73
MB449M	FCAJ	92 - 26	MB84070B	FCAJ	92 - 27	MC10H113P	♦MOTA	92 -103	MC10H176PDS	♦MOTA	50 - 29	MC54F192N	♦MOTA	180 - 74
MB450	FCAJ	174 - 83	MB84070BM	FCAJ	92 - 28	MC10H113PD	♦MOTA	92 -104	MC10H179FN	♦MOTA	224 - 16	MC54F193J	♦MOTA	163 - 98
MB450M	FCAJ	174 - 84	MB84071B	FCAJ	122 - 1	MC10H113PDS	♦MOTA	92 -105	MC10H179J	♦MMI	224 - 25	MC54F193N	♦MOTA	163 - 99
MB451	FCAJ	174 - 85	MB84071BM	FCAJ	122 - 2	MC10H117FN	♦MOTA	83 - 59	MC10H179L	♦MOTA	224 - 17	MC54F280J	♦MOTA	226 - 56
MB451M	FCAJ	174 - 86	MB84072B	FCAJ	124 - 21	MC10H117J	♦MMI	83 - 66	MC10H179LD	♦MOTA	224 - 18	MC54F280N	♦MOTA	226 - 57
MB456	FCAJ	179 - 67	MB84072BM	FCAJ	124 - 22	MC10H117L	♦MOTA	83 - 60	MC10H179LDS	♦MOTA	224 - 19	MC54F283J	♦MOTA	199 - 63
MB456M	FCAJ	179 - 68	MB84073B	FCAJ	81 - 6	MC10H117LD	♦MOTA	83 - 61	MC10H179N	♦MMI	224 - 26	MC54F283N	♦MOTA	199 - 64
MB457	FCAJ	179 - 69	MB84073BM	FCAJ	81 - 7	MC10H117LDS	♦MOTA	83 - 62	MC10H179NL	♦MMI	224 - 27	MC54F373J	♦MOTA	236 - 26
MB457M	FCAJ	179 - 70	MB84075B	FCAJ	123 - 53	MC10H117N	♦MMI	83 - 67	MC10H179P	♦MOTA	224 - 20	MC54F373N	♦MOTA	236 - 27
MB458	FCAJ	220 - 20	MB84075BM	FCAJ	123 - 54	MC10H117NL	♦MMI	83 - 68	MC10H179PD	♦MOTA	224 - 21	MC54F374J	♦MOTA	63 - 72
MB458M	FCAJ	220 - 21	MB84077B	FCAJ	90 - 26	MC10H117P	♦MOTA	83 - 63	MC10H179PDS	♦MOTA	224 - 22	MC54F374N	♦MOTA	62 - 44
MB459	FCAJ	224 - 13	MB84077BM	FCAJ	90 - 27	MC10H117PD	♦MOTA	83 - 64	MC10H180FN	♦MOTA	198 - 6	MC54F378J	♦MOTA	57 - 16
MB459M	FCAJ	224 - 14	MB84078B	FCAJ	119 - 71	MC10H117PDS	♦MOTA	83 - 65	MC10H180L	♦MOTA	198 - 7	MC54F378N	♦MOTA	57 - 17
MB601	FCAJ	96 - 65	MB84078BM	FCAJ	119 - 72	MC10H118FN	♦MOTA	83 - 93	MC10H180LD	♦MOTA	198 - 8	MC54F381J	♦MOTA	220 - 71
MB602	FCAJ	101 - 70	MB84081B	FCAJ	78 - 75	MC10H118J	♦MMI	83 -100	MC10H180LDS	♦MOTA	198 - 9	MC54F381N	♦MOTA	220 - 72
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Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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MC54HC08BCAN(A)	♦MOTA	76 - 50
MC54HC08J(A)	♦MOTA	76 - 51
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MC54HC74J(A)	♦MOTA	51 -101
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MC74HC30N(A)	♦MOTA	109 - 5
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MC74HC32N(A)	♦MOTA	120 - 48
MC74HC51J(A)	♦MOTA	88 - 71
MC74HC51N(A)	♦MOTA	88 - 72
MC74HC58J(A)	♦MOTA	85 - 1
MC74HC58N(A)	♦MOTA	85 - 2
MC74HC73J(A)	♦MOTA	70 - 70
MC74HC73N(A)	♦MOTA	70 - 71
MC74HC74J(A)	♦MOTA	51 -102
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MC74HC75J(A)	♦MOTA	229 - 71
MC74HC75N(A)	♦MOTA	229 - 72
MC74HC76J(A)	♦MOTA	70 - 72
MC74HC76N(A)	♦MOTA	70 - 73
MC74HC85J(A)	♦MOTA	216 - 76
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MC74HC86J	♦MOTA	92 - 30
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MC74HC107J(A)	♦MOTA	70 - 74
MC74HC107N(A)	♦MOTA	70 - 75
MC74HC109J(A)	♦MOTA	70 - 76
MC74HC109N(A)	♦MOTA	70 - 77
MC74HC112J(A)	♦MOTA	70 - 78
MC74HC112N(A)	♦MOTA	70 - 79
MC74HC113J	♦MOTA	70 - 80
MC74HC113N	♦MOTA	70 - 81
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MC74HC161J(A)	♦MOTA	157 - 12
MC74HC161N(A)	♦MOTA	157 - 13
MC74HC162J(A)	♦MOTA	174 - 91
MC74HC162N(A)	♦MOTA	174 - 92
MC74HC163J(A)	♦MOTA	157 - 14
MC74HC163N(A)	♦MOTA	157 - 15
MC74HC173J	♦MOTA	55 - 1
MC74HC173N	♦MOTA	55 - 2
MC74HC174J(A)	♦MOTA	56 - 73
MC74HC174N(A)	♦MOTA	56 - 74
MC74HC175J	♦MOTA	54 - 64
MC74HC175N(A)	♦MOTA	54 - 65
MC74HC181J(A)	♦MOTA	220 - 25
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MC74HC191J(A)	♦MOTA	159 - 87
MC74HC191N(A)	♦MOTA	159 - 88
MC74HC192J(A)	♦MOTA	177 - 43
MC74HC192N(A)	♦MOTA	177 - 44
MC74HC193J(A)	♦MOTA	159 - 89
MC74HC193N(A)	♦MOTA	159 - 90
MC74HC221J(A)	♦MOTA	188 - 75
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MC74HC259J(A)	♦MOTA	233 - 64
MC74HC259N(A)	♦MOTA	233 - 65
MC74HC266J	♦MOTA	90 - 90
MC74HC266N	♦MOTA	90 - 91
MC74HC273J(A)	♦MOTA	60 -105
MC74HC273N(A)	♦MOTA	60 -106
MC74HC280J(A)	♦MOTA	227 - 3
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MC74HC294N(A)	♦MOTA	195 - 99
MC74HC373J(A)	♦MOTA	237 - 76
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MC74HC374J(A)	♦MOTA	60 -107
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MC74HC390J(A)	♦MOTA	182 - 24
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MC74HC534J(A)	♦MOTA	60 -109
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MC74HC564J(A)	♦MOTA	59 - 66
MC74HC564N(A)	♦MOTA	59 - 67
MC74HC573J(A)	♦MOTA	240 - 38
MC74HC573N(A)	♦MOTA	240 - 39
MC74HC574J(A)	♦MOTA	59 - 68
MC74HC574N(A)	♦MOTA	59 - 69
MC74HC688J(A)	♦MOTA	219 - 5
MC74HC688N(A)	♦MOTA	219 - 6
MC74HC4002J	♦MOTA	118 - 14
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MC74HC4017J(A)	♦MOTA	183 - 70
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MC74HC4020N(A)	♦MOTA	171 -105
MC74HC4024J(A)	♦MOTA	168 - 90
MC74HC4024N(A)	♦MOTA	168 - 91
MC74HC4040J(A)	♦MOTA	170 - 64
MC74HC4040N(A)	♦MOTA	170 - 65
MC74HC4075J	♦MOTA	123 - 12
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MC74HCT00J	♦MOTA	96 - 77
MC74HCT00N(A)	♦MOTA	99 - 31
MC74HCT373J(A)	♦MOTA	233 - 66
MC74HCT373N(A)	♦MOTA	233 - 67
MC74HCT374J	♦MOTA	58 - 18
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△-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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MC1813P	♦MOTA	229 -100
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MC1814P	♦MOTA	229 -102
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MC1901F	♦MOTA	108 - 65
MC1901L	♦MOTA	108 - 66
MC1902F	♦MOTA	111 - 12
MC1902L	♦MOTA	111 - 13
MC1903F	♦MOTA	111 - 18
MC1903L	♦MOTA	111 - 19
MC1904F	♦MOTA	111 - 35
MC1904L	♦MOTA	111 - 36
MC1905F	♦MOTA	111 - 20
MC1905L	♦MOTA	111 - 21
MC1906F	♦MOTA	77 -109
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MC1907F	♦MOTA	78 - 34
MC1907L	♦MOTA	76 - 63
MC1908F	♦MOTA	121 - 96
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MC1909F	♦MOTA	121 - 86
MC1909L	♦MOTA	120 - 52
MC1910F	♦MOTA	114 - 16
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MC1911F	♦MOTA	114 - 3
MC1911L	♦MOTA	114 - 4
MC1912F	♦MOTA	94 - 17
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MC1914F	♦MOTA	229 -103
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MC3021P	MOTA	93 - 43
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MC3022P	MOTA	90 - 64
MC3025L	♦MOTA	105 - 90
MC3025P	♦MOTA	105 - 91
MC3026L	♦MOTA	82 - 9
MC3026P	♦MOTA	82 - 10
MC3060L	MOTA	51 -104
MC3060P	MOTA	51 -105
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MC3101F	♦MOTA	77 - 47
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MC3102F	♦MOTA	113 - 59
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MC3121L	MOTA	93 - 45
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MC3122L	MOTA	90 - 66
MC3126F	♦MOTA	82 - 11
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MC3160F	♦MOTA	51 -106
MC3160L	♦MOTA	51 -107
MC3161F	♦MOTA	72 - 93
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MC3162F	♦MOTA	72 - 95
MC3162L	♦MOTA	72 - 96
MC3482AL	♦MOTA	238 - 6
MC3482BL	♦MOTA	237 -104
MC4000L	♦MOTA	125 -109
MC4000P	♦MOTA	125 -110
MC4001P	♦MOTA	125 - 4
MC4002L	♦MOTA	126 - 1
MC4002P	♦MOTA	126 - 2
MC4007L	MOTA	126 - 11
MC4007P	MOTA	126 - 12
MC4008L	♦MOTA	226 - 13
MC4008P	♦MOTA	226 - 14
MC4010L	♦MOTA	226 - 6
MC4010P	♦MOTA	226 - 7
MC4015L	MOTA	49 - 75
MC4015P	MOTA	49 - 76
MC4016F	♦MOTA	185 - 44
MC4016L	♦MOTA	185 - 45
MC4016P	♦MOTA	185 - 46
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MC4017L	♦MOTA	185 - 48
MC4017P	♦MOTA	185 - 49
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MC4026P	MOTA	198 - 51
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MC4028L	♦MOTA	198 - 53
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MC4318P	♦MOTA	186 - 2
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MC4319L	♦MOTA	185 - 39
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MC10100PD	♦MOTA	117 - 45
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MC10101PD	♦MOTA	120 - 58
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MC10121PDS	♦MOTA	84 - 25
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MC10133LD	♦MOTA	230 - 22
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MC10178PD	♦MOTA	167 - 24
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MC10179LD	♦MOTA	224 - 38
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MC10179P	♦MOTA	224 - 40
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MC10198LD	♦MOTA	188 - 80
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MC10198P	♦MOTA	188 - 82
MC10198PD	♦MOTA	188 - 83
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△-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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MC12014PD	♦MOTA	246 - 67
MC12014PDS	♦MOTA	246 - 68
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MC12015P	♦MOTA	196 - 83
MC12016L	♦MOTA	196 - 85
MC12016P	♦MOTA	196 - 86
MC12017L	♦MOTA	196 - 89
MC12017P	♦MOTA	196 - 90
MC12018L	♦MOTA	197 - 1
MC12018P	♦MOTA	197 - 2
MC12019L	MOTA	196 - 79
MC12019P	MOTA	196 - 80
MC12022P(A)	♦MOTA	197 - 16
MC12023P	♦MOTA	195 - 22
MC12025D	MOTA	194 -103
MC12025P	MOTA	194 -104
MC12040L	♦MOTA	246 - 69
MC12040LD	♦MOTA	246 - 70
MC12040LDS	♦MOTA	246 - 71
MC12040P	♦MOTA	246 - 72
MC12040PD	♦MOTA	246 - 73
MC12040PDS	♦MOTA	246 - 74
MC12060L	MOTA	192 - 78
MC12060P	MOTA	192 - 79
MC12061L	MOTA	192 - 95
MC12061LD	MOTA	192 - 96
MC12061LDS	MOTA	192 - 97
MC12061P	MOTA	192 - 98
MC12061PD	MOTA	192 - 99
MC12061PDS	MOTA	192 -100
MC12071L	♦MOTA	195 -109
MC12071P	♦MOTA	195 -110
MC12073D(A)	♦MOTA	195 - 44
MC12073P(2A)	♦MOTA	195 - 45
MC12074D(A)	♦MOTA	195 - 46
MC12074P(2A)	♦MOTA	195 - 47
MC12090L	♦MOTA	246 - 75
MC12090LD	♦MOTA	246 - 76
MC12090LDS	♦MOTA	246 - 77
MC12090P	♦MOTA	246 - 78
MC12090PD	♦MOTA	246 - 79
MC12090PDS	♦MOTA	246 - 80
MC12509L	♦MOTA	194 - 96
MC12511P	♦MOTA	197 - 3
MC12513L	♦MOTA	194 -102
MC12514L	♦MOTA	246 - 81
MC12514P	♦MOTA	246 - 82
MC12540L	♦MOTA	246 - 83
MC12540P	♦MOTA	246 - 84
MC12560L	MOTA	192 - 80
MC12561L	MOTA	192 -101
MC14000UBAL	♦MOTA	111 -100
MC14000UBALD	♦MOTA	111 -101
MC14000UBALDS	♦MOTA	111 -102
MC14000UBALS	♦MOTA	111 -103
MC14000UBCL	♦MOTA	111 -104
MC14000UBCLD	♦MOTA	111 -105
MC14000UBCLDS	♦MOTA	111 -106
MC14000UBCLS	♦MOTA	111 -107
MC14000UBCP	♦MOTA	111 -108
MC14000UBCPD	♦MOTA	111 -109
MC14000UBCPDS	♦MOTA	111 -110
MC14000UBCPS	♦MOTA	112 - 1
MC14000UBD	♦MOTA	112 - 2
MC14001BAL	♦MOTA	114 - 84
MC14001BALD	♦MOTA	114 - 85
MC14001BALDS	♦MOTA	114 - 86
MC14001BALS	♦MOTA	114 - 87
MC14001BCL	♦MOTA	114 - 88
MC14001BCLD	♦MOTA	114 - 89
MC14001BCLDS	♦MOTA	114 - 90
MC14001BCLS	♦MOTA	114 - 91
MC14001BCP	♦MOTA	114 - 92
MC14001BCPD	♦MOTA	114 - 93
MC14001BCPDS	♦MOTA	114 - 94
MC14001BCPS	♦MOTA	114 - 95
MC14001BD	♦MOTA	114 - 96
MC14001UBAL	♦MOTA	114 - 30
MC14001UBALD	♦MOTA	114 - 31
MC14001UBALDS	♦MOTA	114 - 32
MC14001UBALS	♦MOTA	114 - 33
MC14001UBCL	♦MOTA	114 - 34
MC14001UBCLD	♦MOTA	114 - 35
MC14001UBCLDS	♦MOTA	114 - 36
MC14001UBCLS	♦MOTA	114 - 37
MC14001UBCP	♦MOTA	114 - 38
MC14001UBCPD	♦MOTA	114 - 39
MC14001UBCPDS	♦MOTA	114 - 40
MC14001UBCPS	♦MOTA	114 - 41
MC14001UBD	♦MOTA	114 - 42
MC14002BAL	♦MOTA	118 - 95
MC14002BALD	♦MOTA	118 - 96
MC14002BALDS	♦MOTA	118 - 97
MC14002BALS	♦MOTA	118 - 98
MC14002BCL	♦MOTA	118 - 99
MC14002BCLD	♦MOTA	118 -100
MC14002BCLDS	♦MOTA	118 -101
MC14002BCLS	♦MOTA	118 -102
MC14002BCP	♦MOTA	118 -103
MC14002BCPD	♦MOTA	118 -104
MC14002BCPDS	♦MOTA	118 -105
MC14002BCPS	♦MOTA	118 -106
MC14002BD	♦MOTA	118 -107
MC14002UBAL	♦MOTA	118 - 47
MC14002UBALD	♦MOTA	118 - 48
MC14002UBALDS	♦MOTA	118 - 49
MC14002UBALS	♦MOTA	118 - 50
MC14002UBCL	♦MOTA	118 - 51
MC14002UBCLD	♦MOTA	118 - 52
MC14002UBCLDS	♦MOTA	118 - 53
MC14002UBCLS	♦MOTA	118 - 54
MC14002UBCP	♦MOTA	118 - 55
MC14002UBCPD	♦MOTA	118 - 56
MC14002UBCPDS	♦MOTA	118 - 57
MC14002UBCPS	♦MOTA	118 - 58
MC14002UBD	♦MOTA	118 - 59
MC14008BAL	♦MOTA	201 - 28
MC14008BALD	♦MOTA	201 - 29
MC14008BALDS	♦MOTA	201 - 30
MC14008BALS	♦MOTA	201 - 31
MC14008BCL	♦MOTA	201 - 32
MC14008BCLD	♦MOTA	201 - 33
MC14008BCLDS	♦MOTA	201 - 34
MC14008BCLS	♦MOTA	201 - 35
MC14008BCP	♦MOTA	201 - 36
MC14008BCPD	♦MOTA	201 - 37
MC14008BCPDS	♦MOTA	201 - 38
MC14008BCPS	♦MOTA	201 - 39
MC14008BD	♦MOTA	201 - 40
MC14011BAL	♦MOTA	100 - 69
MC14011BALD	♦MOTA	100 - 70
MC14011BALDS	♦MOTA	100 - 71
MC14011BCL	♦MOTA	100 - 72
MC14011BCLD	♦MOTA	100 - 73
MC14011BCLDS	♦MOTA	100 - 74
MC14011BCLS	♦MOTA	100 - 75
MC14011BCP	♦MOTA	100 - 76
MC14011BCPD	♦MOTA	100 - 77
MC14011BCPDS	♦MOTA	100 - 78
MC14011BCPS	♦MOTA	100 - 79
MC14011BD	♦MOTA	100 - 80
MC14011UBAL	♦MOTA	99 - 94
MC14011UBALD	♦MOTA	99 - 95
MC14011UBALDS	♦MOTA	99 - 96
MC14011UBALS	♦MOTA	99 - 97
MC14011UBCL	♦MOTA	99 - 98
MC14011UBCLD	♦MOTA	99 - 99
MC14011UBCLDS	♦MOTA	99 -100
MC14011UBCLS	♦MOTA	99 -101
MC14011UBCP	♦MOTA	99 -102
MC14011UBCPD	♦MOTA	99 -103
MC14011UBCPDS	♦MOTA	99 -104
MC14011UBCPS	♦MOTA	99 -105
MC14011UBD	♦MOTA	99 -106
MC14012BAL	♦MOTA	108 - 8
MC14012BALD	♦MOTA	108 - 9
MC14012BALDS	♦MOTA	108 - 10
MC14012BALS	♦MOTA	108 - 11
MC14012BCL	♦MOTA	108 - 12
MC14012BCLD	♦MOTA	108 - 13
MC14012BCLDS	♦MOTA	108 - 14
MC14012BCLS	♦MOTA	108 - 15
MC14012BCP	♦MOTA	108 - 16
MC14012BCPD	♦MOTA	108 - 17
MC14012BCPDS	♦MOTA	108 - 18
MC14012BCPS	♦MOTA	108 - 19
MC14012BD	♦MOTA	108 - 20
MC14012UBCL	♦MOTA	107 - 46
MC14012UBCLD	♦MOTA	107 - 47
MC14012UBCLDS	♦MOTA	107 - 48
MC14012UBCLS	♦MOTA	107 - 49
MC14012UBCP	♦MOTA	107 - 50
MC14012UBCPD	♦MOTA	107 - 51
MC14012UBCPDS	♦MOTA	107 - 52
MC14012UBCPS	♦MOTA	107 - 53
MC14012UBD	♦MOTA	107 - 54
MC14013BAL	♦MOTA	50 - 66
MC14013BALD	♦MOTA	50 - 67
MC14013BALDS	♦MOTA	50 - 68
MC14013BALS	♦MOTA	50 - 69
MC14013BCL	♦MOTA	50 - 70
MC14013BCLD	♦MOTA	50 - 71
MC14013BCLDS	♦MOTA	50 - 72
MC14013BCLS	♦MOTA	50 - 73
MC14013BCP	♦MOTA	50 - 74
MC14013BCPD	♦MOTA	50 - 75
MC14013BCPDS	♦MOTA	50 - 76
MC14013BCPS	♦MOTA	50 - 77
MC14013BD	♦MOTA	50 - 78
MC14017BAL	♦MOTA	194 - 34
MC14017BALD	♦MOTA	194 - 35
MC14017BALDS	♦MOTA	194 - 36
MC14017BALS	♦MOTA	194 - 37
MC14017BCL	♦MOTA	194 - 8
MC14017BCLD	♦MOTA	194 - 9
MC14017BCLDS	♦MOTA	194 - 10
MC14017BCLS	♦MOTA	194 - 11
MC14017BCP	♦MOTA	194 - 12
MC14017BCPD	♦MOTA	194 - 13
MC14017BCPDS	♦MOTA	194 - 14
MC14017BCPS	♦MOTA	194 - 15
MC14017BD	♦MOTA	194 - 16
MC14018BAL	♦MOTA	185 - 58
MC14018BALD	♦MOTA	185 - 59
MC14018BALDS	♦MOTA	185 - 60
MC14018BALS	♦MOTA	185 - 61
MC14018BCL	♦MOTA	185 - 62
MC14018BCLD	♦MOTA	185 - 63
MC14018BCLDS	♦MOTA	185 - 64
MC14018BCLS	♦MOTA	185 - 65
MC14018BCP	♦MOTA	185 - 66
MC14018BCPD	♦MOTA	185 - 67
MC14018BCPDS	♦MOTA	185 - 68
MC14018BCPS	♦MOTA	185 - 69
MC14018BD	♦MOTA	185 - 70
MC14020BAL	♦MOTA	164 - 59
MC14020BALD	♦MOTA	171 - 27
MC14020BALDS	♦MOTA	171 - 28
MC14020BALS	♦MOTA	171 - 29
MC14020BCL	♦MOTA	171 - 30
MC14020BCLD	♦MOTA	171 - 31
MC14020BCLDS	♦MOTA	171 - 32
MC14020BCLS	♦MOTA	171 - 33
MC14020BCP	♦MOTA	171 - 34
MC14020BCPD	♦MOTA	171 - 35
MC14020BCPDS	♦MOTA	171 - 36
MC14020BCPS	♦MOTA	171 - 37
MC14020BD	♦MOTA	171 - 38
MC14022BAL	♦MOTA	185 - 1
MC14022BALD	♦MOTA	185 - 2
MC14022BALDS	♦MOTA	185 - 3
MC14022BALS	♦MOTA	185 - 4
MC14022BCL	♦MOTA	185 - 5
MC14022BCLD	♦MOTA	185 - 6
MC14022BCLDS	♦MOTA	185 - 7
MC14022BCLS	♦MOTA	185 - 8
MC14022BCP	♦MOTA	185 - 9
MC14022BCPD	♦MOTA	185 - 10
MC14022BCPDS	♦MOTA	185 - 11
MC14022BCPS	♦MOTA	185 - 12
MC14022BD	♦MOTA	185 - 13
MC14023BAL	♦MOTA	103 -106
MC14023BALD	♦MOTA	103 -107
MC14023BALDS	♦MOTA	103 -108
MC14023BALS	♦MOTA	103 -109
MC14023BCL	♦MOTA	103 -110
MC14023BCLD	♦MOTA	104 - 1
MC14023BCLDS	♦MOTA	104 - 2
MC14023BCP	♦MOTA	104 - 3
MC14023BCPD	♦MOTA	104 - 4
MC14023BCPDS	♦MOTA	104 - 5
MC14023BCPS	♦MOTA	104 - 6
MC14023BD	♦MOTA	104 - 7
MC14023UBAL	♦MOTA	103 - 37
MC14023UBALD	♦MOTA	103 - 38
MC14023UBALDS	♦MOTA	103 - 39
MC14023UBALS	♦MOTA	103 - 40
MC14023UBCL	♦MOTA	103 - 41
MC14023UBCLD	♦MOTA	103 - 42
MC14023UBCLDS	♦MOTA	103 - 43
MC14023UBCLS	♦MOTA	103 - 44
MC14023UBCP	♦MOTA	103 - 45
MC14023UBCPD	♦MOTA	103 - 46
MC14023UBCPDS	♦MOTA	103 - 47
MC14023UBCPS	♦MOTA	103 - 48
MC14023UBD	♦MOTA	103 - 49
MC14024BAL	♦MOTA	168 - 45
MC14024BALD	♦MOTA	168 - 46
MC14024BALDS	♦MOTA	168 - 47
MC14024BALS	♦MOTA	168 - 48
MC14024BCL	♦MOTA	168 - 49
MC14024BCLD	♦MOTA	168 - 50
MC14024BCLDS	♦MOTA	168 - 51
MC14024BCLS	♦MOTA	168 - 52
MC14024BCP	♦MOTA	168 - 53
MC14024BCPD	♦MOTA	168 - 54
MC14024BCPDS	♦MOTA	168 - 55
MC14024BCPS	♦MOTA	168 - 56
MC14024BD	♦MOTA	168 - 57
MC14025BAL	♦MOTA	116 -110
MC14025BALD	♦MOTA	117 - 1
MC14025BALDS	♦MOTA	117 - 2
MC14025BALS	♦MOTA	117 - 3
MC14025BCL	♦MOTA	117 - 4
MC14025BCLD	♦MOTA	117 - 5
MC14025BCLDS	♦MOTA	117 - 6
MC14025BCLS	♦MOTA	117 - 7
MC14025BCP	♦MOTA	117 - 8
MC14025BCPD	♦MOTA	117 - 9
MC14025BCPDS	♦MOTA	117 - 10
MC14025BCPS	♦MOTA	117 - 11
MC14025BD	♦MOTA	117 - 12
MC14025UBAL	♦MOTA	116 - 56
MC14025UBALD	♦MOTA	116 - 57
MC14025UBALDS	♦MOTA	116 - 58
MC14025UBALS	♦MOTA	116 - 59
MC14025UBCL	♦MOTA	116 - 60
MC14025UBCLD	♦MOTA	116 - 61
MC14025UBCLDS	♦MOTA	116 - 62
MC14025UBCLS	♦MOTA	116 - 63
MC14025UBCP	♦MOTA	116 - 64
MC14025UBCPD	♦MOTA	116 - 65
MC14025UBCPDS	♦MOTA	116 - 66
MC14025UBCPS	♦MOTA	116 - 67
MC14025UBD	♦MOTA	116 - 68
MC14027BAL	♦MOTA	67 - 94
MC14027BALD	♦MOTA	67 - 95
MC14027BALDS	♦MOTA	67 - 96
MC14027BALS	♦MOTA	67 - 97
MC14027BCL	♦MOTA	67 - 98
MC14027BCLD	♦MOTA	67 - 99
MC14027BCLDS	♦MOTA	67 -100
MC14027BCLS	♦MOTA	67 -101
MC14027BCP	♦MOTA	67 -102
MC14027BCPD	♦MOTA	67 -103
MC14027BCPDS	♦MOTA	67 -104
MC14027BCPS	♦MOTA	67 -105
MC14027BD	♦MOTA	67 -106
MC14028BCL	♦MOTA	127 - 22
MC14028BCLD	♦MOTA	127 - 23
MC14028BCLDS	♦MOTA	127 - 24
MC14028BCLS	♦MOTA	127 - 25
MC14028BCP	♦MOTA	127 - 26
MC14028BCPD	♦MOTA	127 - 27
MC14028BCPDS	♦MOTA	127 - 28
MC14028BCPS	♦MOTA	127 - 29
MC14028BD	♦MOTA	127 - 30
MC14029BAL	♦MOTA	160 - 59
MC14029BALD	♦MOTA	160 - 60
MC14029BALDS	♦MOTA	160 - 61
MC14029BALS	♦MOTA	160 - 62
MC14029BCL	♦MOTA	160 - 63
MC14029BCLD	♦MOTA	160 - 64
MC14029BCLDS	♦MOTA	160 - 65
MC14029BCLS	♦MOTA	160 - 66
MC14029BCP	♦MOTA	160 - 67
MC14029BCPD	♦MOTA	160 - 68
MC14029BCPDS	♦MOTA	160 - 69
MC14029BCPS	♦MOTA	160 - 70
MC14029BD	♦MOTA	160 - 71
MC14032BAL	♦MOTA	198 - 71
MC14032BALD	♦MOTA	198 - 72
MC14032BALDS	♦MOTA	198 - 73
MC14032BALS	♦MOTA	198 - 74
MC14032BCL	♦MOTA	198 - 79
MC14032BCLD	♦MOTA	198 - 80
MC14032BCLDS	♦MOTA	198 - 81
MC14032BCLS	♦MOTA	198 - 82
MC14032BCP	♦MOTA	198 - 83
MC14032BCPD	♦MOTA	198 - 84
MC14032BCPDS	♦MOTA	198 - 85
MC14032BCPS	♦MOTA	198 - 86
MC14032BD	♦MOTA	198 - 87
MC14038BAL	♦MOTA	198 - 75
MC14038BALD	♦MOTA	198 - 76
MC14038BALDS	♦MOTA	198 - 77
MC14038BALS	♦MOTA	198 - 78
MC14038BCL	♦MOTA	198 - 88
MC14038BCLD	♦MOTA	198 - 89
MC14038BCLDS	♦MOTA	198 - 90
MC14038BCLS	♦MOTA	198 - 91
MC14038BCP	♦MOTA	198 - 92
MC14038BCPD	♦MOTA	198 - 93
MC14038BCPDS	♦MOTA	198 - 94
MC14038BCPS	♦MOTA	198 - 95
MC14038BD	♦MOTA	198 - 96
MC14040BAL	♦MOTA	170 - 22
MC14040BALD	♦MOTA	170 - 23
MC14040BALDS	♦MOTA	170 - 24
MC14040BALS	♦MOTA	170 - 25
MC14040BCL	♦MOTA	170 - 26
MC14040BCLD	♦MOTA	170 - 27
MC14040BCLDS	♦MOTA	170 - 28
MC14040BCLS	♦MOTA	170 - 29
MC14040BCP	♦MOTA	170 - 30
MC14040BCPD	♦MOTA	170 - 31
MC14040BCPDS	♦MOTA	170 - 32
MC14040BCPS	♦MOTA	170 - 33
MC14040BD	♦MOTA	170 - 34
MC14042BAL	♦MOTA	232 - 70
MC14042BALD	♦MOTA	232 - 71
MC14042BALDS	♦MOTA	232 - 72
MC14042BALS	♦MOTA	232 - 73
MC14042BCL	♦MOTA	232 - 74
MC14042BCLD	♦MOTA	232 - 75
MC14042BCLDS	♦MOTA	232 - 76
MC14042BCLS	♦MOTA	232 - 77
MC14042BCP	♦MOTA	232 - 78
MC14042BCPD	♦MOTA	232 - 79
MC14042BCPDS	♦MOTA	232 - 80
MC14042BCPS	♦MOTA	232 - 81
MC14042BD	♦MOTA	232 - 82
MC14043BAL	♦MOTA	244 - 4
MC14043BALD	♦MOTA	244 - 5
MC14043BALDS	♦MOTA	244 - 6
MC14043BALS	♦MOTA	244 - 7
MC14043BCL	♦MOTA	244 - 8
MC14043BCLD	♦MOTA	244 - 9
MC14043BCLDS	♦MOTA	244 - 10
MC14043BCLS	♦MOTA	244 - 11
MC14043BCP	♦MOTA	244 - 12
MC14043BCPD	♦MOTA	244 - 13
MC14043BCPDS	♦MOTA	244 - 14
MC14043BCPS	♦MOTA	244 - 15
MC14043BD	♦MOTA	244 - 16
MC14044BAL	♦MOTA	244 - 17
MC14044BALD	♦MOTA	244 - 18
MC14044BALDS	♦MOTA	244 - 19
MC14044BALS	♦MOTA	244 - 20
MC14044BCL	♦MOTA	244 - 21
MC14044BCLD	♦MOTA	244 - 22
MC14044BCLDS	♦MOTA	244 - 23
MC14044BCLS	♦MOTA	244 - 24
MC14044BCP	♦MOTA	244 - 25
MC14044BCPD	♦MOTA	244 - 26
MC14044BCPDS	♦MOTA	244 - 27
MC14044BCPS	♦MOTA	244 - 28
MC14044BD	♦MOTA	244 - 29
MC14068BAL	♦MOTA	110 - 75
MC14068BALD	♦MOTA	110 - 76
MC14068BALDS	♦MOTA	110 - 77
MC14068BALS	♦MOTA	110 - 78
MC14068BCL	♦MOTA	110 - 79
MC14068BCLD	♦MOTA	110 - 80
MC14068BCLDS	♦MOTA	110 - 81
MC14068BCLS	♦MOTA	110 - 82
MC14068BCP	♦MOTA	110 - 83
MC14068BCPD	♦MOTA	110 - 84
MC14068BCPDS	♦MOTA	110 - 85
MC14068BCPS	♦MOTA	110 - 86
MC14068BD	♦MOTA	110 - 87
MC14070BAL	♦MOTA	92 - 32
MC14070BALD	♦MOTA	92 - 33
MC14070BALDS	♦MOTA	92 - 34
MC14070BALS	♦MOTA	92 - 35
MC14070BCL	♦MOTA	92 - 36
MC14070BCLD	♦MOTA	92 - 37
MC14070BCLDS	♦MOTA	92 - 38
MC14070BCLS	♦MOTA	92 - 39
MC14070BCP	♦MOTA	92 - 40
MC14070BCPD	♦MOTA	92 - 41
MC14070BCPDS	♦MOTA	92 - 42
MC14070BCPS	♦MOTA	92 - 43
MC14070BD	♦MOTA	92 - 44
MC14071BAL	♦MOTA	122 - 3
MC14071BALD	♦MOTA	122 - 4
MC14071BALDS	♦MOTA	122 - 5
MC14071BALS	♦MOTA	122 - 6
MC14071BCL	♦MOTA	122 - 7
MC14071BCLD	♦MOTA	122 - 8
MC14071BCLDS	♦MOTA	122 - 9
MC14071BCLS	♦MOTA	122 - 10
MC14071BCP	♦MOTA	122 - 11
MC14071BCPD	♦MOTA	122 - 12
MC14071BCPDS	♦MOTA	122 - 13
MC14071BCPS	♦MOTA	122 - 14
MC14071BD	♦MOTA	122 - 15
MC14072BAL	♦MOTA	124 - 23
MC14072BALD	♦MOTA	124 - 24
MC14072BALDS	♦MOTA	124 - 25
MC14072BALS	♦MOTA	124 - 26
MC14072BCL	♦MOTA	124 - 27
MC14072BCLD	♦MOTA	124 - 28
MC14072BCLDS	♦MOTA	124 - 29
MC14072BCLS	♦MOTA	124 - 30
MC14072BCP	♦MOTA	124 - 31
MC14072BCPD	♦MOTA	124 - 32
MC14072BCPDS	♦MOTA	124 - 33
MC14072BCPS	♦MOTA	124 - 34
MC14072BD	♦MOTA	124 - 35
MC14073BAL	♦MOTA	81 - 8
MC14073BALD	♦MOTA	81 - 9
MC14073BALDS	♦MOTA	81 - 10
MC14073BALS	♦MOTA	81 - 11
MC14073BCL	♦MOTA	81 - 12
MC14073BCLD	♦MOTA	81 - 13
MC14073BCLDS	♦MOTA	81 - 14
MC14073BCLS	♦MOTA	81 - 15
MC14073BCP	♦MOTA	81 - 16
MC14073BCPD	♦MOTA	81 - 17
MC14073BCPDS	♦MOTA	81 - 18
MC14073BCPS	♦MOTA	81 - 19
MC14073BD	♦MOTA	81 - 20
MC14075BAL	♦MOTA	123 - 55
MC14075BALD	♦MOTA	123 - 56
MC14075BALDS	♦MOTA	123 - 57
MC14075BALS	♦MOTA	123 - 58
MC14075BCL	♦MOTA	123 - 59
MC14075BCLD	♦MOTA	123 - 60
MC14075BCLDS	♦MOTA	123 - 61
MC14075BCLS	♦MOTA	123 - 62
MC14075BCP	♦MOTA	123 - 63
MC14075BCPD	♦MOTA	123 - 64
MC14075BCPDS	♦MOTA	123 - 65
MC14075BCPS	♦MOTA	123 - 66
MC14075BD	♦MOTA	123 - 67
MC14077BAL	♦MOTA	90 - 28
MC14077BALD	♦MOTA	90 - 29
MC14077BALDS	♦MOTA	90 - 30
MC14077BALS	♦MOTA	90 - 31
MC14077BCL	♦MOTA	90 - 32
MC14077BCLD	♦MOTA	90 - 33
MC14077BCLDS	♦MOTA	90 - 34
MC14077BCLS	♦MOTA	90 - 35
MC14077BCP	♦MOTA	90 - 36
MC14077BCPD	♦MOTA	90 - 37
MC14077BCPDS	♦MOTA	90 - 38
MC14077BCPS	♦MOTA	90 - 39
MC14077BD	♦MOTA	90 - 40
MC14078BAL	♦MOTA	119 - 73
MC14078BALD	♦MOTA	119 - 74
MC14078BALDS	♦MOTA	119 - 75
MC14078BALS	♦MOTA	119 - 76
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MC14078BCLDS	♦MOTA	119 - 79
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MC14078BCPD	♦MOTA	119 - 82
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△-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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♦-Mfr's data sheet available in microfilm service

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N74F568N(A)	PHIN	180 - 58
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N74H21N	MULB	82 - 46
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N74H22F	MULB	105 - 15
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N74H22N	MULB	105 - 16
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N74H30F	MULB	109 - 33
	PHIN	VALG
N74H30N	MULB	109 - 34
	PHIN	VALG
N74H30W	MULB	109 - 35
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N74H50F	MULB	86 - 1
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N74H50N	MULB	86 - 2
	PHIN	VALG
N74H51F	MULB	86 - 3
	PHIN	VALG
N74H51N	MULB	86 - 4
	PHIN	VALG
N74H52F	MULB	85 - 4
	PHIN	VALG
N74H52N	MULB	85 - 5
	PHIN	VALG
N74H53F	MULB	89 - 79
	PHIN	VALG
N74H53N	MULB	89 - 80
	PHIN	VALG
N74H54F	MULB	87 - 39
	PHIN	VALG
N74H54N	MULB	87 - 40
	PHIN	VALG
N74H55F	MULB	89 - 28
	PHIN	VALG
N74H55N	MULB	89 - 29
	PHIN	VALG
N74H60F	MULB	81 - 68
	PHIN	VALG
N74H60N	MULB	81 - 69
	PHIN	VALG
N74H61F	MULB	79 - 91
	PHIN	VALG
N74H61N	MULB	79 - 92
	PHIN	VALG
N74H62F	MULB	85 - 9
	PHIN	VALG
N74H62N	MULB	85 - 10
	PHIN	VALG
N74H71F	MULB	65 - 71
	PHIN	VALG
N74H71N	MULB	65 - 72
	PHIN	VALG
N74H72F	MULB	65 - 73
	PHIN	VALG
N74H72N	MULB	65 - 74
	PHIN	VALG
N74H73F	MULB	69 - 67
	PHIN	VALG
N74H73N	MULB	69 - 68
	PHIN	VALG
N74H74F	MULB	52 - 28
	PHIN	VALG
N74H74N	MULB	52 - 29
	PHIN	VALG
N74H76F	MULB	69 - 69
	PHIN	VALG
N74H76N	MULB	69 - 70
	PHIN	VALG
N74H101F	MULB	66 - 27
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N74H101N	MULB	66 - 28
	PHIN	VALG
N74H102F	MULB	66 - 29
	PHIN	VALG
N74H102N	MULB	66 - 30
	PHIN	VALG
N74H103F	MULB	71 - 77
	PHIN	VALG
N74H103N	MULB	71 - 78
	PHIN	VALG
N74H106F	MULB	71 - 79
	PHIN	VALG
N74H106N	MULB	71 - 80
	PHIN	VALG
N74H108F	MULB	71 - 81
	PHIN	VALG
N74H108N	MULB	71 - 82
	PHIN	VALG
N74HC374D	♦SIC	62 - 45
N74HC374N	♦SIC	62 - 46
N74HC377D	♦SIC	62 - 47
N74HC377N	♦SIC	62 - 48
N74HC573D	♦SIC	239 - 56
N74HC573N	♦SIC	239 - 57
N74HCT374D	♦SIC	62 - 16
N74HCT374N	♦SIC	62 - 17
N74HCT377D	♦SIC	62 - 39
N74HCT377N	♦SIC	62 - 40
N74HCT573D	♦SIC	240 - 29
N74HCT573N	♦SIC	240 - 30
N74LS00D	♦MULB	96 -101
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS00N	♦MULB	96 -102
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS01D	♦MULB	99 - 60
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS01F	♦MULB	99 - 61
	PHIN	VALG
N74LS01N	♦MULB	99 - 62
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS02D	♦MULB	112 - 92
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS02N	♦MULB	112 - 93
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS03F	MULB	96 -103
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N74LS03N	MULB	96 -104
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N74LS08D	♦MULB	76 - 71
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS08N	♦MULB	76 - 72
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS09F	MULB	77 - 91
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		♦VALG
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N74LS10N	♦MULB	101 - 93
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS11D	♦MULB	79 - 93
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS11N	♦MULB	79 - 94
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS12F	MULB	101 - 94
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N74LS12N	MULB	101 - 95
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N74LS15F	MULB	79 - 95
	PHIN	VALG
N74LS15N	MULB	79 - 96
	PHIN	VALG
N74LS20D	♦MULB	106 - 86
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS20N	♦MULB	106 - 87
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS21D	♦MULB	82 - 70
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS21N	♦MULB	82 - 71
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS22F	MULB	105 - 17
	PHIN	VALG
N74LS22N	MULB	105 - 18
	PHIN	VALG
N74LS26D	♦MULB	96 -105
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS26N	♦MULB	96 -106
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS27D	♦MULB	115 - 88
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS27F	♦MULB	115 - 89
	PHIN	RTCF
		VALG
N74LS27N	♦MULB	115 - 90
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS30D	♦MULB	110 - 7
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS30N	♦MULB	110 - 8
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS32D	♦MULB	120 - 63
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS32N	♦MULB	120 - 64
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS42D	MULB	127 - 40
	PHIN	RTCF
	SIC	VALG
N74LS42N(2)	MULB	127 - 41
	PHIN	RTCF
	♦SIC	VALG
N74LS51D	♦MULB	88 -100
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS51N	♦MULB	88 -101
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS54D	♦MULB	88 - 15
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS54N	♦MULB	88 - 16
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS55F	MULB	89 - 30
	PHIN	VALG
N74LS55N	MULB	89 - 31
	PHIN	VALG
N74LS73F	♦MULB	70 - 82
	PHIN	RTCF
		VALG
N74LS73N	♦MULB	70 - 83
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS74AD	♦MULB	51 - 67
	♦PHIN	♦RTCF
		♦VALG
N74LS74AF	♦MULB	51 - 68
	PHIN	RTCF
		VALG
N74LS74AN	♦MULB	51 - 69
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS75D	♦MULB	229 - 73
	♦PHIN	♦RTCF
		♦VALG
N74LS75F	♦MULB	229 - 81
	PHIN	RTCF
		VALG
N74LS75N	♦MULB	229 - 74
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS76F	♦MULB	70 - 84
	PHIN	RTCF
		VALG
N74LS76N	♦MULB	70 - 85
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS78F	MULB	70 - 86
	PHIN	VALG
N74LS78N	MULB	70 - 87
	PHIN	VALG
N74LS83AD	♦MULB	200 - 24
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS83AF	♦MULB	200 - 25
	♦PHIN	♦RTCF
		♦VALG
N74LS83AN	♦MULB	200 - 26
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS83F	MULB	200 - 27
	PHIN	
N74LS85D	♦MULB	217 - 8
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS85F	♦MULB	217 - 9
	PHIN	RTCF
		VALG
N74LS85N	♦MULB	217 - 10
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS86D	♦MULB	93 - 94
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS86F	♦MULB	93 - 95
	PHIN	RTCF
		VALG
N74LS86N	♦MULB	93 - 96
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS90F	♦MULB	173 - 86
	PHIN	RTCF
		VALG
N74LS90N	♦MULB	175 - 14
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS92F	♦MULB	167 - 82
	PHIN	RTCF
		VALG
N74LS92N	♦MULB	167 - 96
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS93D	♦MULB	157 - 51
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS93F	♦MULB	155 - 69
	PHIN	RTCF
		VALG
N74LS93N	♦MULB	157 - 52
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS107D	♦MULB	70 - 88
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS107F	♦MULB	70 - 89
	PHIN	RTCF
		VALG
N74LS107N	♦MULB	70 - 90
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS109AF	MULB	69 - 71
	PHIN	VALG
N74LS109AN	♦MULB	69 - 72
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS109D	♦MULB	69 - 73
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS109N	♦MULB	69 - 74
	PHIN	RTCF
	♦SIC	VALG
N74LS112D	♦MULB	70 - 91
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS112F	♦MULB	70 - 92
	PHIN	RTCF
		VALG
N74LS112N	♦MULB	70 - 93
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS113F	♦MULB	70 - 94
	PHIN	RTCF
		VALG
N74LS113N	♦MULB	70 - 95
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS114F	MULB	70 - 96
	PHIN	VALG
N74LS114N	MULB	70 - 97
	PHIN	VALG
N74LS123AF	MULB	190 -101
	PHIN	VALG
N74LS123AN	MULB	190 -102
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N74LS136F	♦MULB	92 - 58
	PHIN	RTCF
		VALG
N74LS136N	♦MULB	92 - 59
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS160AF	MULB	174 - 50
	PHIN	VALG
N74LS160AN	♦MULB	174 - 51
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS161AD	♦MULB	156 - 85
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS161AN	♦MULB	156 - 86
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS162AF	♦MULB	174 - 52
	PHIN	RTCF
		VALG
N74LS162AN	♦MULB	174 - 53
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS163AD	♦MULB	156 - 87
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS163AN	♦MULB	156 - 88
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS168AF	♦MULB	179 - 12
	PHIN	RTCF
		VALG
N74LS168AN	♦MULB	179 - 13
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS169AD	♦MULB	162 - 20
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS169AF	♦MULB	162 - 21
	PHIN	RTCF
		VALG
N74LS169AN	♦MULB	162 - 22
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS173D	♦MULB	55 - 3
	♦PHIN	♦RTCF
		♦VALG
N74LS173F	♦MULB	55 - 4
		♦VALG
N74LS173N	♦MULB	55 - 5
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS174D	♦MULB	56 - 75
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS174F(1)	PHIN	56 - 96
	♦SIC	♦VALG
N74LS174N(1)	♦MULB	56 - 76
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS175D	♦MULB	55 - 6
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS175F	♦VALG	55 - 24
N74LS175N	♦MULB	55 - 7
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS181F	♦MULB	222 - 48
	PHIN	RTCF
		VALG
N74LS181N	♦MULB	222 - 78
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS190F	MULB	178 - 67
	PHIN	VALG
N74LS190N	MULB	178 - 68
	PHIN	VALG
N74LS191D	♦MULB	161 - 78
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS191N	♦MULB	161 - 79
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS192F	♦MULB	179 - 14
	PHIN	RTCF
		VALG
N74LS192N	♦MULB	179 - 15
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS193D	♦MULB	162 - 23
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS193N	♦MULB	162 - 24
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS196F	MULB	174 - 99
	PHIN	VALG
N74LS196N	MULB	174 -100
	PHIN	VALG
N74LS197D	♦MULB	157 - 16
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS197N	♦MULB	157 - 17
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS221F	MULB	190 -103
	PHIN	VALG
N74LS221N	MULB	190 -104
	PHIN	VALG
N74LS256D	♦MULB	231 - 79
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS256F	♦MULB	231 -105
	PHIN	RTCF
		VALG
N74LS256N	♦MULB	231 - 80
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS259D	♦MULB	238 - 52
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS259F	♦MULB	239 - 32
	PHIN	RTCF
		VALG
N74LS259N	♦MULB	238 - 53
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS260D	♦MULB	119 - 32
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS260N	♦MULB	119 - 33
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS261F	MULB	202 - 36
	PHIN	VALG
N74LS261N	MULB	202 - 37
	PHIN	VALG
N74LS266F	♦MULB	90 - 43
	PHIN	RTCF
		VALG
N74LS266N	♦MULB	90 - 44
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74LS273D	♦MULB	61 - 1
	♦PHIN	♦RTCF
	SIC	♦VALG
N74LS273N	♦MULB	61 - 2
	♦PHIN	♦RTCF
	♦SIC	♦VALG

Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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TYPE No.	MFRS	Pg&Line
N74LS279F	MULB	243 - 55
	PHIN	
	VALG	
N74LS279N	MULB	243 - 56
	PHIN	
	VALG	
N74LS283D	♦MULB	200 - 28
	♦PHIN	
	♦RTCF	
	SIC	
	♦VALG	
N74LS283N	♦MULB	200 - 29
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74LS290D	♦MULB	175 - 15
	♦PHIN	
	♦RTCF	
	SIC	
	♦VALG	
N74LS290N	♦MULB	175 - 16
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74LS293D	♦MULB	157 - 53
	♦PHIN	
	♦RTCF	
	SIC	
	♦VALG	
N74LS293N	♦MULB	157 - 54
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74LS363F	♦MULB	238 - 54
	PHIN	
	VALG	
N74LS363N	♦MULB	237 -106
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74LS364F(1)	♦MULB	62 - 22
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	♦VALG	
N74LS364N	♦MULB	61 - 63
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	♦SIC	
	♦VALG	
N74LS373D	♦MULB	236 - 91
	♦PHIN	
	♦RTCF	
	SIC	
	♦VALG	
N74LS373N	♦MULB	236 - 92
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74LS374D	♦MULB	61 - 64
	♦PHIN	
	♦RTCF	
	SIC	
	♦VALG	
N74LS374N	♦MULB	61 - 65
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74LS375D	♦MULB	231 - 35
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74LS375F	♦MULB	231 - 36
	PHIN	
	RTCF	
	VALG	
N74LS375N	♦MULB	231 - 37
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74LS377D	♦MULB	61 - 3
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74LS377N	♦MULB	61 - 4
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74LS378F	♦VALG	56 - 97
N74LS378N	♦MULB	56 - 77
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74LS386F	MULB	92 - 60
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N74LS386N	MULB	92 - 61
	PHIN	
N74LS390D	♦MULB	181 - 54
	♦PHIN	
	♦RTCF	
	SIC	
	♦VALG	
N74LS390N	♦MULB	181 - 55
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	♦SIC	
	♦VALG	
N74LS393D	♦MULB	164 - 99
	♦PHIN	
	♦RTCF	
	SIC	
	♦VALG	
N74LS393N	♦MULB	164 -100
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	♦RTCF	
	♦SIC	
	♦VALG	
N74LS490F	♦MULB	181 - 56
	PHIN	
	RTCF	
	VALG	
N74LS490N	♦MULB	181 - 71
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74LS568AN	♦MULB	179 -105
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74LS568F	♦MULB	179 - 16
	PHIN	
	RTCF	
	VALG	
N74LS568N	♦MULB	179 - 17
	PHIN	
	RTCF	
	♦SIC	
	VALG	
N74LS569AN	♦MULB	163 - 13
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74LS569F	MULB	162 - 25
	PHIN	
	RTCF	
	VALG	
N74LS569N	♦MULB	162 - 26
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	RTCF	
	♦SIC	
	VALG	
N74S00D	♦MULB	96 -107
	♦PHIN	
	♦RTCF	
	SIC	
	♦VALG	
N74S00N	♦MULB	96 -108
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74S02D	♦MULB	112 - 94
	♦PHIN	
	♦RTCF	
	SIC	
	♦VALG	
N74S02N	♦MULB	112 - 95
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TYPE No.	MFRS	Pg&Line
N74S02N		
(cont.)	♦PHIN	
	♦RTCF	♦SIC
		♦VALG
N74S03D	♦MULB	96 -109
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S03F	♦MULB	96 -110
	PHIN	RTCF
		VALG
N74S03N	♦MULB	97 - 1
	♦PHIN	♦RTCF
		♦VALG
N74S08D	♦MULB	76 - 73
	♦PHIN	♦RTCF
		♦VALG
N74S08F	♦MULB	76 - 74
	PHIN	RTCF
		VALG
N74S08N	♦MULB	76 - 75
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S09F	MULB	77 - 49
	PHIN	VALG
N74S09N	MULB	77 - 50
	PHIN	VALG
N74S10D	♦MULB	101 - 96
	♦PHIN	♦RTCF
	SIC	♦VALG
N74S10N	♦MULB	101 - 97
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S11D	♦MULB	79 - 97
	♦PHIN	♦RTCF
	SIC	♦VALG
N74S11N	♦MULB	79 - 98
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S15F	MULB	79 - 99
	PHIN	VALG
N74S15N	MULB	79 -100
	PHIN	VALG
N74S20D	♦MULB	105 - 74
	♦PHIN	♦RTCF
	SIC	♦VALG
N74S20N	♦MULB	105 - 75
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S22F	MULB	105 - 19
	PHIN	VALG
N74S22N	MULB	105 - 20
	PHIN	VALG
N74S32D	♦MULB	120 - 65
	♦PHIN	♦RTCF
	SIC	♦VALG
N74S32N	♦MULB	120 - 66
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S51D	♦MULB	86 - 5
	♦PHIN	♦RTCF
	SIC	♦VALG
N74S51N	♦MULB	86 - 6
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S64D	♦MULB	88 - 34
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S64F	♦MULB	88 - 35
	PHIN	RTCF
		VALG
N74S64N	♦MULB	88 - 36
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S65F	MULB	88 - 53
	PHIN	VALG
N74S65N	MULB	88 - 54
	PHIN	VALG
N74S74D	♦MULB	52 - 63
	♦PHIN	♦RTCF
	SIC	♦VALG
N74S74N	♦MULB	52 - 64
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S85D	♦MULB	216 - 62
	♦PHIN	♦RTCF
	SIC	♦VALG
N74S85N	♦MULB	216 - 63
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S86D	♦MULB	93 - 25
	♦PHIN	♦RTCF
	SIC	♦VALG
N74S86N	♦MULB	93 - 26
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S86W	MULB	93 - 27
	PHIN	
N74S112D	♦MULB	73 - 76
	♦PHIN	♦RTCF
	SIC	♦VALG
N74S112N	♦MULB	73 - 77
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S113F	♦MULB	73 - 78
	PHIN	VALG
N74S113N	♦MULB	73 - 79
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S114F	MULB	73 - 80
	PHIN	VALG
N74S114N	MULB	73 - 81
	PHIN	VALG
N74S133D	♦MULB	111 - 54
cont.next col.		

TYPE No.	MFRS	Pg&Line
N74S133D		
(cont.)	♦PHIN	
	♦RTCF	♦SIC
		♦VALG
N74S133F	♦MULB	111 - 55
	PHIN	VALG
N74S133N	♦MULB	111 - 56
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S133W	MULB	111 - 57
	PHIN	
N74S134D	♦MULB	111 - 38
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S134F	♦MULB	111 - 39
	PHIN	VALG
N74S134N	♦MULB	111 - 40
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S134W	MULB	111 - 41
	PHIN	
N74S135F	♦MULB	95 - 1
	PHIN	VALG
N74S135N	♦MULB	95 - 2
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S138F(2)	♦MULB	125 - 32
N74S138N(2)	♦MULB	125 - 33
N74S168AD	♦MULB	180 - 3
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S168AN	♦MULB	180 - 4
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S168F	♦MULB	180 - 5
N74S168N	♦MULB	180 - 6
	♦SIC	
N74S169AD	♦MULB	163 - 24
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S169AN	♦MULB	163 - 25
	♦PHIN	♦RTCF
		♦VALG
N74S169F	♦MULB	163 - 26
N74S169N	♦MULB	163 - 27
	♦SIC	
N74S174D	♦MULB	57 - 18
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S174F	♦VALG	57 - 41
N74S174N	♦MULB	57 - 19
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S175D	♦MULB	55 - 69
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S175F	♦VALG	55 - 87
N74S175N	♦MULB	55 - 70
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S181F	♦MULB	221 - 61
	PHIN	RTCF
		VALG
N74S181N	♦MULB	221 - 62
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S181W	MULB	221 - 6
	PHIN	♦SIC
N74S182D	♦MULB	224 - 90
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S182F	♦MULB	224 - 91
	PHIN	VALG
N74S182N	♦MULB	224 - 92
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S196F	MULB	176 - 52
	PHIN	
N74S197F	MULB	158 - 95
	PHIN	
N74S260D	♦MULB	119 - 17
	♦PHIN	♦RTCF
	SIC	♦VALG
N74S260N	♦MULB	119 - 18
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S273D	♦MULB	62 - 91
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S273F(1)	♦MULB	63 - 15
	PHIN	♦VALG
N74S273N	♦MULB	62 - 92
	♦PHIN	♦RTCF
	SIC	♦VALG
N74S280F	♦MULB	226 - 72
	PHIN	VALG
N74S280N	♦MULB	226 - 73
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S373D	♦MULB	235 - 64
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N74S373F	♦MULB	235 - 65
N74S373N	♦MULB	235 - 66
	♦PHIN	♦RTCF
		♦VALG
N74S374D	♦MULB	62 - 93
	♦PHIN	♦RTCF
	SIC	♦VALG
N74S374N	♦MULB	62 - 94
	♦PHIN	♦RTCF
	SIC	♦VALG
N74S534F	♦MULB	62 - 95
	♦RTCF	♦VALG

TYPE No.	MFRS	Pg&Line
N74S534N	♦MULB	62 - 96
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N82S41F	MULB	92 - 62
	PHIN	VALG
N82S41N	MULB	92 - 63
	PHIN	VALG
N82S42F	MULB	90 - 45
	PHIN	VALG
N82S42N	MULB	90 - 46
	PHIN	SIC
		VALG
N82S50F	MULB	125 - 34
	PHIN	VALG
N82S50N	MULB	125 - 35
	PHIN	SIC
		VALG
N82S52F	MULB	127 - 42
	PHIN	VALG
N82S52N	MULB	127 - 43
	PHIN	VALG
N82S62A	AMD	226 - 80
N82S62F	AMD	226 - 92
	MULB	PHIN
		VALG
N82S62N	MULB	226 - 93
	PHIN	SIC
		VALG
N82S82F	MULB	222 - 49
	PHIN	VALG
N82S82N	MULB	222 - 50
	PHIN	♦SIC
		VALG
N82S83F	MULB	200 - 71
	PHIN	VALG
N82S83N	MULB	200 - 72
	PHIN	♦SIC
		VALG
N82S90F	MULB	175 - 90
	PHIN	VALG
N82S90N	MULB	175 - 91
	PHIN	VALG
N82S91F	MULB	158 - 14
	PHIN	VALG
N82S91N	MULB	158 - 15
	PHIN	VALG
N1004A	MULB	89 - 10
	PHIN	
N1005A	MULB	89 - 11
	PHIN	
N1006A	MULB	89 - 12
	PHIN	
N1010A	MULB	85 - 65
	PHIN	
N1011A	MULB	85 - 66
	PHIN	
N1012A	MULB	95 - 47
	PHIN	
N1013A	MULB	66 - 65
	PHIN	
N1014A	MULB	75 - 30
	PHIN	
N1015A	MULB	75 - 31
	PHIN	
N1016A	MULB	75 - 32
	PHIN	
N1024A	MULB	85 - 64
	PHIN	
N1025A	MULB	245 - 81
	PHIN	
N1027A	MULB	64 - 81
	PHIN	
N1033A	MULB	75 - 33
	PHIN	
N7400F	♦MULB	97 - 2
	PHIN	RTCF
		VALG
N7400N	♦MULB	97 - 3
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7401F	MULB	100 - 13
	PHIN	VALG
N7401N	MULB	100 - 14
	PHIN	VALG
N7402F	MULB	112 - 96
	PHIN	RTCF
		VALG
N7402N	♦MULB	112 - 97
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7403F	♦MULB	97 - 4
	PHIN	RTCF
		VALG
N7403N	♦MULB	97 - 5
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7408F	♦MULB	76 - 76
	PHIN	RTCF
		VALG
N7408N	♦MULB	76 - 77
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7409F	MULB	78 - 15
	PHIN	VALG
N7409N	MULB	78 - 16
	PHIN	VALG
N7410F	♦MULB	101 - 98
	PHIN	RTCF
		VALG
N7410N	♦MULB	101 - 99
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7411F	♦MULB	79 -101
cont.next col.		

TYPE No.	MFRS	Pg&Line
N7411F		
(cont.)	PHIN	
	RTCF	VALG
N7411N	♦MULB	79 -102
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7412F	MULB	101 -100
	PHIN	VALG
N7412N	MULB	101 -101
	PHIN	VALG
N7420F	♦MULB	107 - 9
	PHIN	RTCF
		VALG
N7420N	♦MULB	107 - 10
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7421F	♦MULB	82 - 93
	PHIN	RTCF
		VALG
N7421N	♦MULB	82 - 94
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7423F	MULB	117 - 94
	PHIN	VALG
N7423N	MULB	117 - 95
	PHIN	VALG
N7425N	♦MULB	117 - 96
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7426F	♦MULB	97 - 6
	PHIN	RTCF
		VALG
N7426N	♦MULB	97 - 7
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7427F	♦MULB	115 - 91
	PHIN	RTCF
		VALG
N7427N	♦MULB	115 - 92
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7430F	♦MULB	110 - 28
	PHIN	RTCF
		VALG
N7430N	♦MULB	110 - 29
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7432F	♦MULB	120 - 67
	PHIN	RTCF
		VALG
N7432N	♦MULB	120 - 68
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7442F	♦MULB	127 - 44
	PHIN	VALG
N7442N	MULB	127 - 45
	PHIN	RTCF
	♦SIC	VALG
N7443F	MULB	127 - 90
	PHIN	VALG
N7443N	MULB	127 - 46
	PHIN	VALG
N7444F	MULB	127 - 97
	PHIN	VALG
N7444N	MULB	127 - 98
	PHIN	VALG
N7450F	MULB	86 - 7
	PHIN	RTCF
		VALG
N7450N	MULB	86 - 8
	PHIN	RTCF
		VALG
N7451F	♦MULB	86 - 9
	PHIN	RTCF
		VALG
N7451N	♦MULB	86 - 10
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7453F	MULB	87 - 11
	PHIN	VALG
N7453N	MULB	87 - 12
	PHIN	VALG
N7454F	MULB	87 - 13
	PHIN	VALG
N7454N	MULB	87 - 14
	PHIN	VALG
N7460F	MULB	81 - 70
	PHIN	VALG
N7460N	MULB	81 - 71
	PHIN	VALG
N7470F	MULB	65 - 37
	PHIN	VALG
N7470N	MULB	65 - 38
	PHIN	VALG
N7472F	MULB	65 - 5
	PHIN	VALG
N7472N	MULB	65 - 6
	PHIN	VALG
N7473F	♦MULB	68 - 9
	PHIN	RTCF
		VALG
N7473N	♦MULB	68 - 10
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7474F	♦MULB	51 - 20
	PHIN	RTCF
		VALG
N7474N	♦MULB	51 - 21
	♦PHIN	♦RTCF
	♦SIC	♦VALG
N7475F	♦MULB	229 - 89
	PHIN	RTCF
		VALG

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
N7475N	♦MULB	229 - 90
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N7476F	♦MULB	68 - 11
	PHIN	
	RTCF	
	VALG	
N7476N	♦MULB	68 - 12
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N7480F	MULB	198 - 66
	PHIN	
	VALG	
N7480N	MULB	198 - 67
	PHIN	
	VALG	
N7483F	♦MULB	200 - 89
	PHIN	
	RTCF	
	VALG	
N7483N	♦MULB	200 - 73
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N7485F	♦MULB	216 - 83
	PHIN	
	RTCF	
	VALG	
N7485N	♦MULB	216 - 84
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N7486F	♦MULB	93 - 97
	PHIN	
	RTCF	
	VALG	
N7486N	♦MULB	93 - 98
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N7490F	♦MULB	173 - 24
	PHIN	
	RTCF	
	VALG	
N7490N	♦MULB	173 - 25
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N7492F	♦MULB	167 - 77
	PHIN	
	RTCF	
	VALG	
N7492N	♦MULB	167 - 78
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N7493F	♦MULB	155 - 1
	PHIN	
	RTCF	
	VALG	
N7493N	♦MULB	155 - 2
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N8241F	MULB	92 - 64
	PHIN	
	VALG	
N8241N	MULB	92 - 65
	PHIN	
	VALG	
N8241Q	MULB	93 - 28
	PHIN	
N8242F	MULB	90 - 47
	PHIN	
	VALG	
N8242N	MULB	90 - 48
	PHIN	
	SIC	
	VALG	
N8242Q	MULB	90 - 69
	PHIN	
N8243F	MULB	246 - 98
	PHIN	
	VALG	
N8243N	MULB	246 - 99
	PHIN	
	VALG	
N8250F	MULB	125 - 36
	PHIN	
	VALG	
N8250N	MULB	125 - 37
	PHIN	
	VALG	
N8251F	MULB	127 - 47
	PHIN	
	VALG	
N8251N	MULB	127 - 48
	PHIN	
	VALG	
N8252F	MULB	127 - 49
	PHIN	
	VALG	
N8252N	MULB	127 - 50
	PHIN	
	VALG	
N8260F	MULB	221 - 86
	PHIN	
N8260N	MULB	221 - 87
	PHIN	
N8260Q	MULB	221 - 88
	PHIN	
N8261F	MULB	245 - 82
	PHIN	
N8261Q	MULB	245 - 83
	PHIN	
N8262F	MULB	227 - 8
	PHIN	
	VALG	
N8262N	MULB	227 - 9
	PHIN	
	♦SIC	
	VALG	
N8268F	MULB	198 - 63
	PHIN	
N8268W	MULB	198 - 64
	PHIN	
N8269F	MULB	216 -103
	PHIN	
N8269W	MULB	216 -104
	PHIN	
N8280F	MULB	173 - 26
	PHIN	
	VALG	
N8280N	MULB	173 - 27
	PHIN	
	VALG	
N8280Q	MULB	174 - 54
	PHIN	
N8281F	MULB	155 - 3
	PHIN	
	VALG	
N8281N	MULB	155 - 4
	PHIN	
	VALG	
N8281Q	MULB	156 - 89
	PHIN	

TYPE No.	MFRS	Pg&Line
N8284F	MULB	162 - 79
	PHIN	
N8284Q	MULB	159 - 91
	PHIN	
N8285F	MULB	179 - 71
	PHIN	
N8285Q	MULB	177 - 45
	PHIN	
N8288F	MULB	174 - 55
	PHIN	
N8288Q	MULB	174 - 56
	PHIN	
N8290F	MULB	174 - 11
	PHIN	
	VALG	
N8290N	MULB	174 - 12
	PHIN	
	VALG	
N8290Q	MULB	176 - 21
	PHIN	
N8291F	MULB	156 - 26
	PHIN	
	VALG	
N8291N	MULB	156 - 27
	PHIN	
	VALG	
N8291Q	MULB	158 - 61
	PHIN	
N8292F	MULB	172 - 75
	PHIN	
	VALG	
N8292N	MULB	172 - 76
	PHIN	
	VALG	
N8292Q	MULB	173 - 28
	PHIN	
N8293F	MULB	154 - 53
	PHIN	
	VALG	
N8293N	MULB	154 - 54
	PHIN	
	VALG	
N8293Q	MULB	155 - 5
	PHIN	
N8415A	MULB	105 - 21
	PHIN	
N8415F	MULB	105 - 22
	PHIN	
N8415J	MULB	108 - 30
	PHIN	
N8416A	MULB	105 - 23
	PHIN	
N8416F	MULB	105 - 24
	PHIN	
N8416J	MULB	105 - 25
	PHIN	
N8417A	MULB	108 - 31
	PHIN	
N8417F	MULB	108 - 32
	PHIN	
N8417J	MULB	108 - 33
	PHIN	
N8424A	MULB	75 - 60
	PHIN	
N8424F	MULB	75 - 61
	PHIN	
N8424J	MULB	75 - 62
	PHIN	
N8425A	MULB	75 - 63
	PHIN	
N8425F	MULB	75 - 64
	PHIN	
N8425J	MULB	75 - 65
	PHIN	
N8440A	MULB	94 - 54
	PHIN	
N8440F	MULB	94 - 55
	PHIN	
N8440J	MULB	94 - 56
	PHIN	
N8455A	MULB	107 -107
	PHIN	
N8455F	MULB	107 -108
	PHIN	
N8455J	MULB	107 -109
	PHIN	
N8470A	MULB	101 -102
	PHIN	
N8470F	MULB	101 -103
	PHIN	
N8470J	MULB	103 -101
	PHIN	
N8471A	MULB	101 -104
	PHIN	
N8471J	MULB	104 - 18
	PHIN	
N8480A	MULB	97 - 8
	PHIN	
N8480F	MULB	97 - 9
	PHIN	
N8480J	MULB	100 - 96
	PHIN	
N8481A	MULB	97 - 10
	PHIN	
N8481F	MULB	97 - 11
	PHIN	
N8481J	MULB	101 - 4
	PHIN	
N8731A	MULB	76 - 78
	PHIN	
N8731F	MULB	76 - 79
	PHIN	
N8731J	MULB	76 - 80
	PHIN	
N8806A	MULB	81 - 72
	PHIN	
N8806F	MULB	81 - 73
	PHIN	
N8806J	MULB	81 - 74
	PHIN	
N8808A	MULB	109 - 84
	PHIN	

TYPE No.	MFRS	Pg&Line
N8808J	MULB	109 - 85
	PHIN	
N8815A	MULB	117 - 97
	PHIN	
N8815N	MULB	117 - 98
	PHIN	
	SIC	
N8816A	MULB	106 - 69
	PHIN	
N8816F	MULB	106 - 70
	PHIN	
N8816J	MULB	106 - 71
	PHIN	
N8821J	MULB	69 - 75
	PHIN	
N8822A	MULB	69 - 76
	PHIN	
N8822F	MULB	69 - 77
	PHIN	
N8822J	MULB	69 - 78
	PHIN	
N8824B	MULB	69 - 79
	PHIN	
N8825A	MULB	65 - 75
	PHIN	
N8825F	MULB	65 - 76
	PHIN	
N8825J	MULB	65 - 77
	PHIN	
N8826A	MULB	70 - 98
	PHIN	
N8826F	MULB	70 - 99
	PHIN	
N8826J	MULB	70 -100
	PHIN	
N8827A	MULB	70 -101
	PHIN	
N8827F	MULB	70 -102
	PHIN	
N8827J	MULB	70 -103
	PHIN	
N8828A	MULB	51 - 70
	PHIN	
N8828F	MULB	51 - 71
	PHIN	
N8828J	MULB	51 - 72
	PHIN	
N8829A	MULB	65 - 78
	PHIN	
N8829F	MULB	65 - 79
	PHIN	
N8829J	MULB	65 - 80
	PHIN	
N8840A	MULB	86 - 11
	PHIN	
N8840F	MULB	86 - 12
	PHIN	
N8840J	MULB	86 - 13
	PHIN	
N8848A	MULB	87 - 73
	PHIN	
N8848F	MULB	87 - 74
	PHIN	
N8848J	MULB	87 - 41
	PHIN	
N8855A	MULB	106 - 88
	PHIN	
N8855F	MULB	106 - 89
	PHIN	
N8855J	MULB	106 - 90
	PHIN	
N8870A	MULB	101 -105
	PHIN	
N8870F	MULB	101 -106
	PHIN	
N8870J	MULB	102 - 93
	PHIN	
N8875A	MULB	115 - 93
	PHIN	
N8875F	MULB	115 - 94
	PHIN	
N8875J	MULB	116 - 11
	PHIN	
N8880A	MULB	98 - 65
	PHIN	
N8880F	MULB	98 - 66
	PHIN	
N8880J	MULB	98 - 67
	PHIN	
N8881F	MULB	99 - 23
	PHIN	
N8881J	MULB	99 - 24
	PHIN	
N8881N	SIC	99 - 25
N8885F	MULB	113 - 69
	PHIN	
N8885J	MULB	113 - 70
	PHIN	
N9308F	MULB	231 -100
	PHIN	
	VALG	
N9308N	MULB	231 -101
	PHIN	
	VALG	
N9314F	MULB	231 - 1
	PHIN	
	VALG	
N9314N	MULB	231 - 2
	PHIN	
	VALG	
N9324F	MULB	218 - 7
	PHIN	
	VALG	
N9324N	MULB	218 - 8
	PHIN	
	SIC	
	VALG	
N9334F	MULB	238 -110
	PHIN	
	VALG	
N9334N	MULB	239 - 1
cont.next col.		

TYPE No.	MFRS	Pg&Line
N9334N		
(cont.)	PHIN	
	♦SIC	
	VALG	
N9401F(1)	PHIN	245 - 12
N9401N	MULB	245 - 13
	PHIN	
	RTCF	
	VALG	
N9602B	MULB	190 -105
	PHIN	
N9602F	MULB	190 -106
	PHIN	
N9602W	MULB	190 -107
	PHIN	
N74100F	MULB	231 - 38
	PHIN	
	VALG	
N74100N	MULB	231 - 39
	PHIN	
	VALG	
N74107F	♦MULB	68 - 13
	PHIN	
	VALG	
N74107N	♦MULB	68 - 14
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74109F	♦MULB	69 - 80
	PHIN	
	VALG	
N74109N	♦MULB	69 - 81
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74109W	MULB	66 -107
	PHIN	
N74116F	♦MULB	231 - 40
	PHIN	
	VALG	
N74116N	♦MULB	230 -100
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74121D	♦MULB	188 - 88
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74121F	♦MULB	188 - 89
	PHIN	
	VALG	
N74121N	♦MULB	188 - 90
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74121W	MULB	188 - 91
	PHIN	
N74122F	MULB	188 - 92
	PHIN	
	VALG	
N74122N	MULB	188 - 93
	PHIN	
	VALG	
N74123D	♦MULB	190 -108
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74123F	♦MULB	190 -109
	PHIN	
	VALG	
N74123N	♦MULB	190 -110
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74160F	♦MULB	174 - 57
	PHIN	
	VALG	
N74160N	♦MULB	174 - 58
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74161F	♦MULB	156 - 90
	PHIN	
	VALG	
N74161N	♦MULB	156 - 91
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74162F	MULB	174 - 59
	PHIN	
	VALG	
N74162N	MULB	174 - 60
	PHIN	
	VALG	
N74163F	♦MULB	156 - 92
	PHIN	
	VALG	
N74163N	♦MULB	156 - 93
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74173F	♦MULB	54 - 68
	♦VALG	
N74173N	♦MULB	54 - 69
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74174F	♦VALG	56 - 84
N74174N	♦MULB	56 - 46
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74175F	♦VALG	55 - 16
N74175N	♦MULB	54 - 70
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74180F	♦MULB	227 - 47
	PHIN	
	VALG	
N74180N	♦MULB	227 - 48
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74181F	♦MULB	222 - 51
	PHIN	
	VALG	
N74181N	♦MULB	222 - 52
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74182F	MULB	225 - 30
	PHIN	
	VALG	
N74182N	MULB	225 - 31
	PHIN	
	VALG	
N74190F	♦MULB	178 - 69
	PHIN	
	VALG	
N74190N	♦MULB	178 - 70
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74190W	MULB	179 - 18
	PHIN	
N74191F	♦MULB	161 - 80
	PHIN	
	VALG	
N74191N	♦MULB	161 - 81
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	

TYPE No.	MFRS	Pg&Line
N74191W	MULB	162 - 27
	PHIN	
N74192F	♦MULB	179 - 19
	PHIN	
	VALG	
N74192N	♦MULB	179 - 20
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74193F	♦MULB	165 - 38
	PHIN	
	RTCF	
	VALG	
N74193N	♦MULB	165 - 39
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74221D	♦MULB	191 - 1
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74221F	♦MULB	191 - 2
	PHIN	
	VALG	
N74221N	♦MULB	191 - 3
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74279D	♦MULB	243 - 57
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
N74279F	♦MULB	243 - 58
	PHIN	
	RTCF	
	VALG	
N74279N	♦MULB	243 - 59
	♦PHIN	
	♦RTCF	
	♦SIC	
	♦VALG	
NCR45CM16C	♦NCR	206 - 67
NCR45CM16P	♦NCR	206 - 68
NE5044D	♦SIC	246 - 25
	♦VALG	
NE5044N	♦SIC	246 - 26
	♦VALG	
NE5045D	♦SIC	125 - 38
	♦VALG	
NE5045N	♦SIC	125 - 39
	♦VALG	
NE5046N	♦VALG	125 - 5
NJU4001BD	♦NJRC	114 -110
NJU4001BN	♦NJRC	115 - 1
NJU4013BD	♦NJRC	51 - 46
NJU4013BM	♦NJRC	51 - 47
NJU4520BD	♦NJRC	164 - 54
NJU4520BM	♦NJRC	164 - 55
NS8000A	♦SSE	246 - 34
OSC1758-400	♦ANA	191 - 87
OSC1758-500	♦ANA	191 - 88
P54PCT273DM	♦PSC	64 - 48
P54PCT273LM	♦PSC	64 - 49
P54PCT273PM	♦PSC	64 - 50
P54PCT373DM	♦PSC	234 - 68
P54PCT373LM	♦PSC	234 - 69
P54PCT373PM	♦PSC	234 - 70
P54PCT533DM	PSC	234 - 71
P54PCT533LM	PSC	234 - 72
P54PCT533PM	PSC	234 - 73
P74PCT273DC	♦PSC	64 - 51
P74PCT273LC	♦PSC	64 - 52
P74PCT273PC	♦PSC	64 - 53
P74PCT373DC	♦PSC	234 - 15
P74PCT373LC	♦PSC	234 - 98
P74PCT373PC	♦PSC	234 - 16
P74PCT533DC	PSC	234 - 17
P74PCT533LC	PSC	234 - 18
P74PCT533PC	PSC	234 - 19
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P3404	ITL	233 - 41
P8282	ITL	238 - 29
P8283	ITL	238 - 30
PC54HC00D(A)	♦MULB	97 - 12
	♦PHIN	
	♦RTCF	
	♦VALG	
PC54HC02D(A)	♦MULB	112 - 98
	♦PHIN	
	♦RTCF	
	♦VALG	
PC54HC03D(A)	♦MULB	97 - 13
	♦PHIN	
	♦RTCF	
	♦VALG	
PC54HC08D(A)	♦MULB	76 - 81
	♦PHIN	
	♦RTCF	
	♦VALG	
PC54HC10D(A)	♦MULB	102 - 64
	♦PHIN	
	♦RTCF	
	♦VALG	
PC54HC11D(A)	♦MULB	79 -103
	♦PHIN	
	♦RTCF	
	♦VALG	
PC54HC20D(A)	♦MULB	105 - 26
	♦PHIN	
	♦RTCF	
	♦VALG	
PC54HC21D(A)	♦MULB	82 - 4
	♦PHIN	
	♦RTCF	
	♦VALG	
PC54HC27D(A)	♦MULB	115 - 95
	♦PHIN	
	♦RTCF	
	♦VALG	
PC54HC30D(A)	♦MULB	109 - 51
	♦PHIN	
	♦RTCF	
	♦VALG	
PC54HC32D(A)	♦MULB	120 - 69
	♦PHIN	
	♦RTCF	
	♦VALG	
PC54HC42D(A)	♦MULB	127 - 51
	♦PHIN	
	♦RTCF	
	♦VALG	
PC54HC73D(A)	♦MULB	68 - 36
	♦PHIN	
	♦RTCF	
	♦VALG	
PC54HC74D(A)	♦MULB	51 - 35
	♦PHIN	
	♦RTCF	
	♦VALG	

Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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TYPE No.	MFRS	Pg&Line
PC54HC75D(A)	♦MULB	231 -103
♦PHIN	♦RTCF	
	♦VALG	
PC54HC85D(A)	♦MULB	217 - 43
♦PHIN	♦RTCF	
	♦VALG	
PC54HC86D(A)	♦MULB	92 - 66
♦PHIN	♦RTCF	
	♦VALG	
PC54HC93D(A)	♦MULB	158 - 62
♦PHIN	♦RTCF	
	♦VALG	
PC54HC107D(A)		68 - 28
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC109D(A)		68 - 61
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC112D(A)		73 - 47
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC123D(A)		191 - 4
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC160D(A)		175 - 60
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC161D(A)		157 - 92
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC162D(A)		175 - 61
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC163D(A)		157 - 93
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC173D(A)		55 - 53
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC174D(A)		57 - 10
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC175D(A)		54 - 41
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC181D(A)		222 - 7
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC182D(A)		225 - 43
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC190D	♦MULB	180 - 7
PC54HC191D(A)		163 - 28
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC192D(A)		180 - 8
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC193D(A)		163 - 29
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC221D(A)		191 - 5
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC259D(A)		240 - 70
♦PHIN	♦RTCF	
	♦VALG	
PC54HC280D(A)		227 - 26
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC283D(A)		199 - 58
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC390D(A)		182 - 34
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC393D(A)		164 - 82
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC423D(A)		191 - 6
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC583D(A)		199 - 94
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC4002D(A)		118 - 29
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC4017D(A)		183 - 81
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC4020D(A)		172 - 7
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC4024D(A)		168 - 97
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC4040D(A)		170 - 71
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC4060D(A)		171 - 70
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC4075D(A)		123 - 26
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC4510D(A)		180 - 22
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC4516D(A)		163 - 46
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC4518D(A)		181 - 88
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TYPE No.	MFRS	Pg&Line
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(cont.)	♦MULB	
♦PHIN	♦RTCF	
	♦VALG	
PC54HC4520D(A)		165 - 24
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC4538D(A)		191 - 7
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC7266D(A)		90 - 49
♦MULB	♦PHIN	
	♦VALG	
PC54HC40102D(A)		177 - 15
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HC40103D(A)		169 - 51
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT00D(A)		97 - 14
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT02D(A)		112 - 99
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT03D(A)		97 - 15
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT08D(A)		76 - 82
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT10D(A)		102 - 70
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT11D(A)		79 -104
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT20D(A)		105 - 27
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT21D(A)		82 - 19
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT27D(A)		115 - 96
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT30D(A)		109 - 66
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT32D(A)		120 - 70
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT42D(A)		127 - 52
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT73D(A)		68 - 15
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT74D(A)		51 - 25
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT75D(A)		231 -110
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT85D(A)		217 - 44
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT86D(A)		92 - 67
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT93D(A)		158 - 47
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT107D(A)		67 -108
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT109D(A)		68 - 37
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT112D(A)		72 - 97
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT123D(A)		191 - 8
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT160D(A)		175 - 62
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT161D(A)		157 - 94
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT162D(A)		175 - 63
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT163D(A)		157 - 95
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT173D(A)		55 - 45
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT174D(A)		57 - 6
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT175D(A)		54 - 27
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT181D(A)		222 - 8
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT182D(A)		225 - 44
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT190D(A)		180 - 9
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TYPE No.	MFRS	Pg&Line
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(cont.)	♦MULB	
♦PHIN	♦RTCF	
	♦VALG	
PC54HCT191D(A)		163 - 30
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT192D(A)		180 - 10
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT193D(A)		163 - 31
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT221D(A)		191 - 9
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT259D(A)		240 - 74
♦PHIN	♦RTCF	
	♦VALG	
PC54HCT280D(A)		227 - 35
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT283D(A)		199 - 65
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT390D(A)		182 - 35
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT393D(A)		164 - 64
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT423D(A)		191 - 10
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT583D(A)		199 -105
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT4002D(A)		118 - 60
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT4017D(A)		183 - 79
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT4020D(A)		171 -108
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT4024D(A)		168 - 94
♦PHIN	♦RTCF	
	♦VALG	
PC54HCT4040D(A)		170 - 68
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT4060D(A)		171 - 71
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT4075D(A)		123 - 32
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT4510D(A)		180 - 23
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT4516D(A)		163 - 47
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT4518D(A)		181 - 89
♦MULB	♦PHIN	
♦RTCF	♦VALG	
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♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT4538D(A)		191 - 11
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC54HCT40102D(A)		177 - 14
♦MULB	♦PHIN	
♦RTCF	♦VALG	
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♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC74HC00D(A)	♦MULB	97 - 16
♦PHIN	♦RTCF	
	♦VALG	
PC74HC00P	♦MULB	99 - 32
♦PHIN	♦RTCF	
	♦VALG	
PC74HC00T	♦MULB	99 - 33
♦PHIN	♦RTCF	
	♦VALG	
PC74HC02D(A)	♦MULB	112 -100
♦PHIN	♦RTCF	
	♦VALG	
PC74HC02P	♦MULB	114 - 7
♦PHIN	♦RTCF	
	♦VALG	
PC74HC02T(A)	♦MULB	114 - 8
♦PHIN	♦RTCF	
	♦VALG	
PC74HC03D(A)	♦MULB	97 - 17
♦PHIN	♦RTCF	
	♦VALG	
PC74HC03P	♦MULB	99 - 36
♦PHIN	♦RTCF	
	♦VALG	
PC74HC03T	♦MULB	99 - 37
♦PHIN	♦RTCF	
	♦VALG	
PC74HC08D(A)	♦MULB	76 - 83
♦PHIN	♦RTCF	
	♦VALG	
PC74HC08P	♦MULB	77 - 99
♦PHIN	♦RTCF	
	♦VALG	
PC74HC08T	♦MULB	77 -100
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TYPE No.	MFRS	Pg&Line
PC74HC08T		
(cont.)	♦PHIN	
♦RTCF	♦VALG	
PC74HC10D(A)	♦MULB	102 - 65
♦PHIN	♦RTCF	
	♦VALG	
PC74HC10P	♦MULB	103 - 18
♦PHIN	♦RTCF	
	♦VALG	
PC74HC10T	♦MULB	103 - 19
♦PHIN	♦RTCF	
	♦VALG	
PC74HC11D(A)	♦MULB	79 -105
♦PHIN	♦RTCF	
	♦VALG	
PC74HC11P	♦MULB	80 - 80
♦PHIN	♦RTCF	
	♦VALG	
PC74HC11T	♦MULB	80 - 81
♦PHIN	♦RTCF	
	♦VALG	
PC74HC20D(A)	♦MULB	105 - 28
♦PHIN	♦RTCF	
	♦VALG	
PC74HC20P	♦MULB	107 - 30
♦PHIN	♦RTCF	
	♦VALG	
PC74HC20T	♦MULB	107 - 31
♦PHIN	♦RTCF	
	♦VALG	
PC74HC21D(A)	♦MULB	82 - 5
♦PHIN	♦RTCF	
	♦VALG	
PC74HC21P	♦MULB	82 - 6
♦PHIN	♦RTCF	
	♦VALG	
PC74HC21T	♦MULB	82 - 7
♦PHIN	♦RTCF	
	♦VALG	
PC74HC27D(A)	♦MULB	115 - 97
♦PHIN	♦RTCF	
	♦VALG	
PC74HC27P	♦MULB	116 - 32
♦PHIN	♦RTCF	
	♦VALG	
PC74HC27T	♦MULB	116 - 33
♦PHIN	♦RTCF	
	♦VALG	
PC74HC30D(A)	♦MULB	109 - 52
♦PHIN	♦RTCF	
	♦VALG	
PC74HC30P	♦MULB	110 - 51
♦PHIN	♦RTCF	
	♦VALG	
PC74HC30T	♦MULB	110 - 52
♦PHIN	♦RTCF	
	♦VALG	
PC74HC32D(A)	♦MULB	120 - 71
♦PHIN	♦RTCF	
	♦VALG	
PC74HC32P	♦MULB	121 - 81
♦PHIN	♦RTCF	
	♦VALG	
PC74HC32T	♦MULB	121 - 82
♦PHIN	♦RTCF	
	♦VALG	
PC74HC42D(A)	♦MULB	127 - 53
♦PHIN	♦RTCF	
	♦VALG	
PC74HC42P	♦MULB	127 - 54
♦PHIN	♦RTCF	
	♦VALG	
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	VALG	
PC74HC58T	MULB	84 - 98
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PC74HC73D(A)	♦MULB	69 - 3
♦PHIN	♦RTCF	
	♦VALG	
PC74HC73P	♦MULB	68 - 62
♦PHIN	♦RTCF	
	♦VALG	
PC74HC73T	♦MULB	68 - 63
♦PHIN	♦RTCF	
	♦VALG	
PC74HC74D(A)	♦MULB	51 - 48
♦PHIN	♦RTCF	
	♦VALG	
PC74HC74P	♦MULB	51 - 49
♦PHIN	♦RTCF	
	♦VALG	
PC74HC74T	♦MULB	51 - 50
♦PHIN	♦RTCF	
	♦VALG	
PC74HC75D(A)	♦MULB	231 - 41
♦PHIN	♦RTCF	
	♦VALG	
PC74HC75P	♦MULB	231 - 83
♦PHIN	♦RTCF	
	♦VALG	
PC74HC75T	♦MULB	231 - 84
♦PHIN	♦RTCF	
	♦VALG	
PC74HC85D(A)	♦MULB	217 - 29
♦PHIN	♦RTCF	
	♦VALG	
PC74HC85P	♦MULB	217 - 30
♦PHIN	♦RTCF	
	♦VALG	
PC74HC85T	♦MULB	217 - 31
♦PHIN	♦RTCF	
	♦VALG	
PC74HC86D(A)	♦MULB	92 - 68
♦PHIN	♦RTCF	
	♦VALG	
PC74HC86P	♦MULB	93 - 60
♦PHIN	♦RTCF	
	♦VALG	
PC74HC86T	♦MULB	93 - 61
♦PHIN	♦RTCF	
	♦VALG	
PC74HC93D(A)	♦MULB	158 - 63
♦PHIN	♦RTCF	
	♦VALG	
PC74HC93P	♦MULB	156 - 28
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	♦VALG	
PC74HC93T	♦MULB	156 - 29
♦PHIN	♦RTCF	
	♦VALG	
PC74HC107D(A)		68 - 64
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC74HC107P	♦MULB	68 - 65
♦PHIN	♦RTCF	
	♦VALG	
PC74HC107T	♦MULB	68 - 66
♦PHIN	♦RTCF	
	♦VALG	
PC74HC109D(A)		69 - 33
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC74HC109P	♦MULB	68 - 67
♦PHIN	♦RTCF	
	♦VALG	
PC74HC109T	♦MULB	68 - 68
♦PHIN	♦RTCF	
	♦VALG	
PC74HC112D(A)		73 - 48
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC74HC112P	♦MULB	68 - 69
♦PHIN	♦RTCF	
	♦VALG	
PC74HC112T	♦MULB	68 - 70
♦PHIN	♦RTCF	
	♦VALG	
PC74HC123D(A)		191 - 12
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC74HC123P	♦MULB	191 - 13
♦PHIN	♦RTCF	
	♦VALG	
PC74HC123T	♦MULB	191 - 14
♦PHIN	♦RTCF	
	♦VALG	
PC74HC160D(A)		175 - 64
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC74HC160P	♦MULB	174 - 13
♦PHIN	♦RTCF	
	♦VALG	
PC74HC160T	♦MULB	174 - 14
♦PHIN	♦RTCF	
	♦VALG	
PC74HC161D(A)		157 - 96
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC74HC161P	♦MULB	157 - 97
♦PHIN	♦RTCF	
	♦VALG	
PC74HC161T	♦MULB	157 - 98
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	♦VALG	
PC74HC162D(A)		175 - 65
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	♦VALG	
PC74HC162P	♦MULB	175 - 66
♦PHIN	♦VALG	
PC74HC162T	♦MULB	175 - 67
♦PHIN	♦VALG	
PC74HC163D(A)		157 - 99
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC74HC163P	♦MULB	155 - 88
♦PHIN	♦RTCF	
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PC74HC163T	♦MULB	155 - 89
♦PHIN	♦RTCF	
	♦VALG	
PC74HC173D(A)		55 - 54
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC74HC173P	♦MULB	54 - 31
♦PHIN	♦RTCF	
	♦VALG	
PC74HC173T	♦MULB	54 - 32
♦PHIN	♦RTCF	
	♦VALG	
PC74HC174D(A)		57 - 11
♦MULB	♦PHIN	
♦RTCF	♦VALG	
PC74HC174P	♦MULB	56 - 27
♦PHIN	♦RTCF	
	♦VALG	
PC74HC174T	♦MULB	56 - 28
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♦RTCF	♦VALG	
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Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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PC74HC181P	♦MULB ♦PHIN ♦RTCF ♦VALG	221 - 97
PC74HC181T	♦MULB ♦PHIN ♦RTCF ♦VALG	221 - 98
PC74HC182D(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	225 - 45
PC74HC182P	♦MULB ♦PHIN ♦RTCF ♦VALG	225 - 53
PC74HC182T	♦MULB ♦PHIN ♦RTCF ♦VALG	225 - 54
PC74HC190D(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	180 - 11
PC74HC190P	♦MULB ♦PHIN ♦RTCF ♦VALG	177 -103
PC74HC190T	♦MULB ♦PHIN ♦RTCF ♦VALG	177 -104
PC74HC191D(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	163 - 32
PC74HC191P	♦MULB ♦PHIN ♦RTCF ♦VALG	161 - 12
PC74HC191T	♦MULB ♦PHIN ♦RTCF ♦VALG	161 - 13
PC74HC192D(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	180 - 12
PC74HC192P	♦MULB ♦PHIN ♦RTCF ♦VALG	179 - 72
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PC74HC193D(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	163 - 33
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PC74HC4020T	♦MULB ♦PHIN ♦RTCF ♦VALG	172 - 10
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PC74HC4024P	♦MULB ♦PHIN ♦RTCF ♦VALG	168 - 73
PC74HC4024T	♦MULB ♦PHIN ♦RTCF ♦VALG	168 - 74
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PC74HC4518P	♦MULB ♦PHIN ♦RTCF ♦VALG	181 - 46
PC74HC4518T	♦MULB ♦PHIN ♦RTCF ♦VALG	181 - 47
PC74HC4520D(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	165 - 26
PC74HC4520P	♦MULB ♦PHIN ♦RTCF ♦VALG	164 - 83
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PC74HC4538T	♦MULB ♦PHIN ♦RTCF ♦VALG	191 - 23
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PC74HC7266P(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	90 - 97
PC74HC7266T(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	90 - 98
PC74HC40102D(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	182 - 64
PC74HC40102P	♦MULB ♦PHIN ♦RTCF ♦VALG	182 - 53
PC74HC40102T	♦MULB ♦PHIN ♦RTCF ♦VALG	182 - 54
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PC74HC40103P	♦MULB ♦PHIN ♦RTCF ♦VALG	169 - 41
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PC74HCT00T(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	99 - 39
PC74HCT02D(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	112 -101
PC74HCT02P	♦MULB ♦PHIN ♦RTCF ♦VALG	114 - 11
PC74HCT02T	♦MULB ♦PHIN ♦RTCF ♦VALG	114 - 12
PC74HCT03D(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	97 - 19
PC74HCT03P	♦MULB ♦PHIN ♦RTCF ♦VALG	99 - 81
PC74HCT03T	♦MULB ♦PHIN ♦RTCF ♦VALG	99 - 82
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PC74HCT08T	♦MULB ♦PHIN ♦RTCF ♦VALG	78 - 44
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PC74HCT10P	♦MULB ♦PHIN ♦RTCF ♦VALG	103 - 27
PC74HCT10T	♦MULB ♦PHIN ♦RTCF ♦VALG	103 - 28
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PC74HCT11T	♦MULB ♦PHIN ♦RTCF ♦VALG	80 - 95
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PC74HCT20P	♦MULB ♦PHIN ♦RTCF ♦VALG	107 - 55
PC74HCT20T	♦MULB ♦PHIN ♦RTCF ♦VALG	107 - 56
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PC74HCT27D(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	115 - 98
PC74HCT27P	♦MULB ♦PHIN ♦RTCF ♦VALG	115 - 99
PC74HCT27T	♦MULB ♦PHIN ♦RTCF ♦VALG	115 -100
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PC74HCT32P	♦MULB ♦PHIN ♦RTCF ♦VALG	121 - 98
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PC74HCT73P	♦MULB ♦PHIN ♦RTCF ♦VALG	68 - 39
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PC74HCT74D(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	51 - 36
PC74HCT74P	♦MULB ♦PHIN ♦RTCF ♦VALG	51 - 37
PC74HCT74T	♦MULB ♦PHIN ♦RTCF ♦VALG	51 - 29
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PC74HCT75P	♦PHIN ♦RTCF ♦VALG	232 - 1
PC74HCT75T	♦MULB ♦PHIN ♦RTCF ♦VALG	232 - 2
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PC74HCT85P	♦MULB ♦PHIN ♦RTCF ♦VALG	217 - 41
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PC74HCT86D(A)	♦PHIN ♦RTCF ♦VALG	92 - 69
PC74HCT86P	♦PHIN ♦RTCF ♦VALG	94 - 20
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PC74HCT107T	♦MULB ♦PHIN ♦RTCF ♦VALG	68 - 71
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PC74HCT112P	♦MULB ♦PHIN ♦RTCF ♦VALG	68 - 43
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PC74HCT123P	♦MULB ♦PHIN ♦RTCF ♦VALG	191 - 25
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Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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PC74HCT174D(A)	♦MULB ♦PHIN ♦RTCF ♦VALG	57 - 7
PC74HCT174P	♦MULB ♦PHIN ♦RTCF ♦VALG	56 - 29
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Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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RG140CK	♦RTN	98 - 45
RG140DC	♦RTN	98 - 46
RG141CJ	♦RTN	98 - 47
RG141CK	♦RTN	98 - 48
RG141DC	♦RTN	98 - 49
RG142CJ	♦RTN	98 - 50
RG142CK	♦RTN	98 - 51
RG142DC	♦RTN	98 - 52
RG143CJ	♦RTN	98 - 53
RG143CK	♦RTN	98 - 54
RG143DC	♦RTN	98 - 55
RG150CJ	♦RTN	94 - 87
RG150CK	♦RTN	94 - 88
RG150DC	♦RTN	94 - 89
RG151CJ	♦RTN	94 - 90
RG151CK	♦RTN	94 - 91
RG151DC	♦RTN	94 - 92
RG152CJ	♦RTN	84 - 99
RG152CK	♦RTN	84 -100
RG152DC	♦RTN	84 -101
RG153CJ	♦RTN	84 -102
RG153CK	♦RTN	84 -103
RG153DC	♦RTN	84 -104
RG170CJ	♦RTN	105 - 53
RG170CK	♦RTN	105 - 54
RG170DC	♦RTN	105 - 55
RG171CJ	♦RTN	105 - 56
RG171CK	♦RTN	105 - 57
RG171DC	♦RTN	105 - 58
RG172CJ	♦RTN	105 - 59
RG172CK	♦RTN	105 - 60
RG172DC	♦RTN	105 - 61
RG173CJ	♦RTN	105 - 62
RG173CK	♦RTN	105 - 63
RG173DC	♦RTN	105 - 64
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RG180CK	RTN	81 - 91
RG180DC	RTN	81 - 92
RG181CJ	RTN	81 - 93
RG181CK	RTN	81 - 94
RG181DC	RTN	81 - 95
RG182CJ	RTN	81 - 96
RG182CK	RTN	81 - 97
RG182DC	RTN	81 - 98
RG183CJ	RTN	81 - 99
RG183CK	RTN	81 -100
RG183DC	RTN	81 -101
RG200CJ	♦RTN	109 - 94
RG200CK	♦RTN	109 - 95
RG200DC	♦RTN	109 - 96
RG201CJ	♦RTN	111 - 14
RG201CK	♦RTN	111 - 15
RG201DC	♦RTN	111 - 16
RG202CJ	♦RTN	109 - 97
RG202CK	♦RTN	109 - 98
RG202DC	♦RTN	109 - 99
RG203CJ	♦RTN	109 -100
RG203CK	♦RTN	109 -101
RG203DC	♦RTN	109 -102
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RG210CK	♦RTN	89 - 45
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RG211CJ	♦RTN	89 - 47
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RG212CJ	♦RTN	89 - 50
RG212CK	♦RTN	89 - 51
RG212DC	♦RTN	89 - 52
RG213CJ	♦RTN	89 - 53
RG213CK	♦RTN	89 - 54
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RG220CJ	♦RTN	98 - 7
RG220CK	♦RTN	98 - 8
RG220DC	♦RTN	98 - 9
RG221CJ	♦RTN	98 - 10
RG221CK	♦RTN	98 - 11
RG221DC	♦RTN	98 - 12
RG222CJ	♦RTN	98 - 13
RG222CK	RTN	98 - 14
RG222DC	RTN	98 - 15
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RG223CK	RTN	98 - 17
RG223DC	RTN	98 - 18
RG230CJ	♦RTN	87 - 95
RG230CK	♦RTN	87 - 96
RG230DC	♦RTN	87 - 97
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△-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

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RG232CK	♦RTN	87 -102
RG232DC	♦RTN	87 -103
RG233CJ	♦RTN	87 -104
RG233CK	♦RTN	87 -105
RG233DC	♦RTN	87 -106
RG240CJ	♦RTN	105 - 98
RG240CK	♦RTN	105 - 99
RG240DC	♦RTN	105 -100
RG241CJ	RTN	105 -101
RG241CK	RTN	105 -102
RG241DC	RTN	105 -103
RG242CJ	RTN	105 -104
RG242CK	RTN	105 -105
RG242DC	RTN	105 -106
RG243CJ	RTN	105 -107
RG243CK	RTN	105 -108
RG243DC	RTN	105 -109
RG250CJ	♦RTN	87 - 43
RG250CK	♦RTN	87 - 44
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RG251CJ	RTN	87 - 46
RG251CK	RTN	87 - 47
RG251DC	RTN	87 - 48
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RG253CK	♦RTN	87 - 53
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RG260DC	♦RTN	109 - 22
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RG261CK	♦RTN	109 - 24
RG261DC	♦RTN	109 - 25
RG262CJ	♦RTN	109 - 26
RG262CK	♦RTN	109 - 27
RG262DC	♦RTN	109 - 28
RG263CJ	♦RTN	109 - 29
RG263CK	♦RTN	109 - 30
RG263DC	♦RTN	109 - 31
RG270CJ	♦RTN	123 - 93
RG270CK	♦RTN	123 - 94
RG270DC	♦RTN	123 - 95
RG271CJ	♦RTN	123 - 96
RG271CK	♦RTN	123 - 97
RG271DC	♦RTN	123 - 98
RG272CJ	♦RTN	123 - 99
RG272CK	♦RTN	123 -100
RG272DC	♦RTN	123 -101
RG273CJ	♦RTN	123 -102
RG273CK	♦RTN	123 -103
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RG280CK	♦RTN	82 - 28
RG280DC	♦RTN	82 - 29
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RG281DC	♦RTN	82 - 32
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RG292CJ	♦RTN	95 - 11
RG292CK	♦RTN	95 - 12
RG292DC	♦RTN	95 - 13
RG293CJ	♦RTN	95 - 14
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RG300CJ	♦RTN	88 -106
RG300CK	♦RTN	88 -107
RG300DC	♦RTN	88 -108
RG301CJ	♦RTN	88 -109
RG301CK	♦RTN	88 -110
RG301DC	♦RTN	89 - 1
RG302CJ	♦RTN	89 - 2
RG302CK	♦RTN	89 - 3
RG302DC	♦RTN	89 - 4
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RG312DC	♦RTN	86 - 34
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RG322CK	♦RTN	102 - 79
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RM993DC	♦RTN	66 -109
RM994CJ	♦RTN	66 -110
RM994DC	♦RTN	67 - 1
RM997CJ	♦RTN	67 - 2
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S8H16F	MULB	106 - 1
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S8H16J	MULB	106 - 2
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S8H21A	MULB	73 - 83
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S8H80J	MULB	98 - 19
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S8T01B	MULB	125 - 8
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S8T01E	MULB	125 - 9
	PHIN	
S8T22F	MULB	188 - 96
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S8T22N	MULB	188 - 97
PHIN	VALG	
S8TS805F	♦MULB	235 - 94
♦PHIN	♦RTCF	
SIC	♦VALG	
S8TS806F	♦MULB	62 - 97
♦PHIN	♦RTCF	
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S8TS807F	♦MULB	235 - 95
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S8TS808F	♦MULB	62 - 98
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S8TS809F	♦MULB	235 - 31
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S54F00G	♦MULB	101 - 14
♦PHIN	♦RTCF	
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S54F00W	♦SIC	97 -106
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S54F02F	♦MULB	112 -102
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54F02G	♦MULB	113 - 67
♦PHIN	♦RTCF	
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S54F02W	♦SIC	113 - 68
S54F08F	♦MULB	76 - 85
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54F08G	♦MULB	76 - 86
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	♦VALG	
S54F08W	♦SIC	77 - 35
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S54F10F	♦MULB	101 -108
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S54F10G	♦MULB	102 - 62
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	♦VALG	
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	♦VALG	
S54F11W	♦VALG	80 - 36
S54F20F	♦MULB	106 - 16
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54F20G	♦MULB	106 - 17
♦PHIN	♦RTCF	
	♦VALG	
S54F20W	♦SIC	105 - 76
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♦PHIN	♦RTCF	
	♦VALG	
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	♦VALG	
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S54F64W	♦SIC	88 - 25
	♦VALG	
S54F74F	♦MULB	52 - 78
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54F74G	♦MULB	52 - 79
♦PHIN	♦RTCF	
	♦VALG	
S54F74W	♦SIC	53 - 21
	♦VALG	
S54F86F	♦MULB	93 - 22
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54F86W	♦MULB	93 - 23
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54F109F	♦MULB	73 - 88
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54F109G	♦MULB	73 - 89
♦PHIN	♦RTCF	
	♦VALG	
S54F109W	♦SIC	73 - 90
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	♦VALG	
S54F175G(A)	♦MULB	55 - 82
♦PHIN	♦RTCF	
	♦VALG	
S54F280AF(A)	♦MULB	226 - 60
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54F280AG(A)	♦MULB	226 - 53
♦PHIN	♦RTCF	
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S54F280AW	♦SIC	226 - 61
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S54F283G(A)	♦MULB	199 - 68
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S54F373F	♦MULB	235 - 47
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54F374F	♦MULB	63 - 82
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54F374G	♦MULB	62 - 49
♦PHIN	♦RTCF	
	♦VALG	
S54F521F	♦MULB	215 - 93
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54F521G	♦MULB	215 - 94
♦PHIN	♦RTCF	
	♦VALG	
S54F521W	♦SIC	215 - 80
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S54F533F	♦SIC	234 - 99
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S54F533W	♦SIC	234 -100
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S54F534F	♦SIC	63 - 83
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S54H00W	MULB	98 - 20
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S54H08W	MULB	77 - 59
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S54H10F	MULB	101 -109
PHIN	VALG	
S54H10W	MULB	102 - 84
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S54H11F	MULB	79 -108
PHIN	VALG	
S54H11W	MULB	80 - 52
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S54H20F	MULB	106 - 55
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S54H20W	MULB	106 - 56
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S54H21F	MULB	82 - 47
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S54H21W	MULB	82 - 48
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S54H22F	MULB	105 - 30
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S54H30F	MULB	109 - 36
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S54H30W	MULB	109 - 37
PHIN	VALG	
S54H50F	MULB	86 - 38
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S54H50W	MULB	86 - 39
PHIN	VALG	
S54H51F	MULB	86 - 40
PHIN	VALG	
S54H51W	MULB	86 - 41
PHIN	VALG	
S54H52F	MULB	84 - 91
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S54H52W	MULB	84 - 92
PHIN	VALG	
S54H53F	MULB	87 - 68
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S54H53W	MULB	87 - 55
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S54H54F	MULB	87 - 56
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S54H62F	MULB	84 - 95
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S54H62W	MULB	84 - 96
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S54H71F	MULB	65 - 81
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S54H71W	MULB	65 - 82
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S54H72F	MULB	65 - 83
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S54H72W	MULB	65 - 84
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S54H73F	MULB	69 - 82
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S54H108F	MULB	71 - 87
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S54H108W	MULB	71 - 88
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♦SIC	♦VALG	
S54LS00G	♦MULB	98 - 75
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS00W	♦MULB	98 - 76
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS01F	MULB	99 - 63
PHIN	RTCF	
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S54LS01W	MULB	99 - 64
PHIN	RTCF	
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S54LS02F	♦MULB	112 -103
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS02G	♦MULB	113 - 81
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS02W	♦MULB	113 - 82
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS03F	MULB	97 - 24
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	VALG	
S54LS03W	MULB	99 - 65
PHIN	RTCF	
	VALG	
S54LS08F	♦MULB	76 - 88
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS08G	♦MULB	76 - 89
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS08W	♦MULB	77 - 92
♦PHIN	♦RTCF	
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S54LS09F	MULB	78 - 36
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S54LS09W	MULB	78 - 37
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S54LS09W		
(cont.)	PHIN	
RTCF	VALG	
S54LS10F	♦MULB	101 -110
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS10G	♦MULB	102 -102
♦PHIN	♦RTCF	
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S54LS10W	♦MULB	102 -103
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS11F	MULB	80 - 1
PHIN	RTCF	
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S54LS11W	MULB	80 - 65
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S54LS12F	MULB	102 - 1
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PHIN	VALG	
S54LS15W	MULB	80 - 90
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S54LS20F	♦MULB	106 - 92
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♦SIC	♦VALG	
S54LS20G	♦MULB	106 - 93
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S54LS20W	♦MULB	106 - 94
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S54LS27W	MULB	116 - 21
PHIN	VALG	
S54LS30F	♦MULB	110 - 9
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS30W	♦MULB	110 - 10
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS32F	♦MULB	120 - 73
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♦SIC	♦VALG	
S54LS32G	♦MULB	121 - 72
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S54LS32W	♦MULB	121 - 73
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♦SIC	♦VALG	
S54LS42W(2)	♦MULB	127 - 61
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♦SIC	♦VALG	
S54LS51F	♦MULB	85 - 35
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS51W	♦MULB	88 - 76
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS54F	MULB	88 - 17
PHIN	RTCF	
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S54LS54W	MULB	87 -107
PHIN	RTCF	
	VALG	
S54LS55F	MULB	89 - 58
PHIN	VALG	
S54LS55W	MULB	89 - 59
PHIN	VALG	
S54LS73F	♦MULB	70 -104
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS73W	♦MULB	70 -105
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS74AF	♦MULB	51 - 73
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS74AG	♦MULB	51 - 74
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS74AW	♦MULB	51 - 75
♦PHIN	♦RTCF	
♦SIC	♦VALG	
S54LS74F	MULB	51 - 76
PHIN	RTCF	
SIC	VALG	

Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
S54LS74W	MULB	51 - 77
	PHIN	RTCF
	SIC	VALG
S54LS75F	♦MULB	229 - 75
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS75W	♦MULB	229 - 76
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS76F	♦MULB	70 -106
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS76W	♦MULB	70 -107
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS77W	MULB	229 - 77
	PHIN	SIC
		VALG
S54LS78F	MULB	70 -108
	PHIN	VALG
S54LS78W	MULB	70 -109
	PHIN	VALG
S54LS83AF	♦MULB	200 - 30
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS83AW	♦MULB	200 - 31
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS83F	MULB	200 - 32
	PHIN	SIC
S54LS83W	MULB	200 - 33
	PHIN	SIC
S54LS85F	♦MULB	217 - 11
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS85G	♦MULB	217 - 12
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS85W	♦MULB	217 - 13
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS86F	♦MULB	93 - 99
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS86G	♦MULB	93 -100
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS86W	♦MULB	93 -101
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS90F	♦MULB	175 - 17
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS90W	♦MULB	175 - 18
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS92F	♦MULB	167 - 97
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS92W	♦MULB	167 - 98
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS93F	♦MULB	157 - 55
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS93W	♦MULB	157 - 56
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS107F	♦MULB	70 -110
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS107W	♦MULB	71 - 1
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS109AF	♦MULB	69 - 86
	♦PHIN	♦RTCF
		♦VALG
S54LS109AW	♦MULB	69 - 87
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS109F	♦MULB	69 - 88
	PHIN	♦SIC
		VALG
S54LS109G	♦MULB	69 - 89
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS109W	♦MULB	69 - 90
	PHIN	♦SIC
		VALG
S54LS112F	♦MULB	71 - 2
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS112G	♦MULB	71 - 3
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS112W	♦MULB	71 - 4
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS113F	♦MULB	71 - 5
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS113W	♦MULB	71 - 6
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS114F	MULB	71 - 7
	PHIN	VALG
S54LS114W	MULB	71 - 8
	PHIN	VALG
S54LS123AF	MULB	191 - 36
	PHIN	SIC
		VALG
S54LS123AW	MULB	191 - 37
	PHIN	SIC
		VALG
S54LS136F	♦MULB	92 - 70
	♦PHIN	♦SIC
		♦VALG
S54LS136W	♦MULB	93 -102
	♦PHIN	♦SIC
		♦VALG
S54LS138F(2)	♦MULB	125 - 41
S54LS138W(2)	♦MULB	125 - 42
S54LS156F(2)	♦MULB	126 - 14
S54LS156W(2)	♦MULB	126 - 15
S54LS160AF	♦MULB	174 - 61
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS160AW	♦MULB	174 - 62
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS161AF	♦MULB	156 - 94
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS161AG	♦MULB	156 - 95
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS161AW	♦MULB	156 - 96
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS162AF	♦MULB	174 - 63
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS162AW	♦MULB	174 - 64
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS163AF	♦MULB	156 - 97
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS163AG	♦MULB	156 - 98
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS163AW	♦MULB	156 - 99
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS168AF	♦MULB	179 - 21
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS168AW	♦MULB	179 - 22
	PHIN	♦RTCF
	♦SIC	VALG
S54LS169AF	♦MULB	162 - 28
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS169AW	♦MULB	162 - 29
	PHIN	♦RTCF
	♦SIC	VALG
S54LS173F	♦MULB	55 - 8
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS173G	♦MULB	55 - 9
	♦PHIN	♦RTCF
		♦VALG
S54LS173W	♦MULB	55 - 10
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS174F	♦MULB	56 - 78
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS174G	♦MULB	56 - 79
	♦PHIN	♦RTCF
		♦VALG
S54LS174W	♦MULB	56 - 80
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS175F	♦MULB	55 - 11
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS175G	♦MULB	55 - 12
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS175W	♦MULB	55 - 13
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS181F	♦MULB	222 - 79
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS181N	MULB	222 - 53
	PHIN	SIC
S54LS181Q	MULB	222 - 54
	PHIN	
S54LS181W	♦MULB	222 - 80
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS190F	MULB	178 - 71
	PHIN	♦SIC
		VALG
S54LS190W	MULB	178 - 72
	PHIN	♦SIC
		VALG
S54LS191F	♦MULB	161 - 82
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS191W	♦MULB	161 - 83
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS192F	♦MULB	179 - 23
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS192W	♦MULB	179 - 24
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS193F	♦MULB	162 - 30
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS193G	♦MULB	162 - 31
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS193W	♦MULB	162 - 32
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS196F	MULB	174 -101
	PHIN	SIC
		VALG
S54LS196W	MULB	174 -102
	PHIN	SIC
		VALG
S54LS197F	♦MULB	157 - 18
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS197W	♦MULB	157 - 19
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS221F	MULB	191 - 38
	PHIN	SIC
		VALG
S54LS221W	MULB	191 - 39
	PHIN	SIC
		VALG
S54LS256F	♦MULB	231 - 81
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS256W	♦MULB	231 - 82
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS259F	♦MULB	238 - 55
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS259W	♦MULB	238 - 56
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS260F	♦MULB	119 - 34
	♦PHIN	♦RTCF
	♦SIC	VALG
S54LS260W	♦MULB	119 - 35
	♦PHIN	♦RTCF
	♦SIC	VALG
S54LS261F	MULB	202 - 38
	PHIN	VALG
S54LS261W	MULB	202 - 39
	PHIN	VALG
S54LS266F	♦MULB	90 - 51
	♦PHIN	♦RTCF
	♦SIC	VALG
S54LS266G	♦MULB	90 - 93
	♦PHIN	♦RTCF
		♦VALG
S54LS266W	♦MULB	90 - 94
	♦PHIN	♦RTCF
	♦SIC	VALG
S54LS273F	♦MULB	61 - 5
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS273G	♦MULB	61 - 6
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS279F	MULB	243 - 60
	PHIN	RTCF
	SIC	VALG
S54LS279W	MULB	243 - 61
	PHIN	RTCF
	SIC	VALG
S54LS283F	♦MULB	200 - 34
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS283G	♦MULB	200 - 35
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS283W	♦MULB	200 - 36
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS290F	♦MULB	175 - 19
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS290W	♦MULB	175 - 20
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS293F	♦MULB	157 - 57
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS293W	♦MULB	157 - 58
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS363F	♦MULB	237 -107
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS363G	♦MULB	237 -108
	♦PHIN	♦RTCF
		♦VALG
S54LS364F	♦MULB	61 - 66
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS364G	♦MULB	61 - 67
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS373F	♦MULB	236 - 93
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS373G	♦MULB	236 - 94
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS374F	♦MULB	61 - 68
	♦PHIN	♦RTCF
	SIC	♦VALG
S54LS374G	♦MULB	61 - 69
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS375F	♦MULB	231 - 42
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS375G	♦MULB	231 - 43
cont.next col.		
S54LS375G (cont.)	♦PHIN	
	♦RTCF	♦SIC
		♦VALG
S54LS375W	♦MULB	231 - 44
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS377F	♦MULB	61 - 7
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS378F	♦MULB	56 - 81
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS378W	♦MULB	56 - 82
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS386F	MULB	92 - 71
	PHIN	
S54LS386W	MULB	93 -103
	PHIN	
S54LS390F	MULB	182 - 11
	PHIN	RTCF
		VALG
S54LS390W	MULB	182 - 12
	PHIN	RTCF
		VALG
S54LS393F	♦MULB	164 -101
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS393W	♦MULB	164 -102
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS490F	♦MULB	181 - 72
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS490W	♦MULB	181 - 73
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS568AF	♦MULB	179 -106
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS568F	MULB	179 - 25
	PHIN	♦SIC
		VALG
S54LS569AF	♦MULB	163 - 14
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54LS569F	♦MULB	162 - 33
	PHIN	♦SIC
		VALG
S54S00F	♦MULB	97 - 26
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S00W	♦MULB	97 -107
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S02F	♦MULB	112 -104
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S02W	♦MULB	113 - 52
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S03F	MULB	97 - 27
	PHIN	
S54S03W	MULB	98 - 24
	PHIN	SIC
S54S08F	♦MULB	76 - 90
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S08W	♦MULB	77 - 41
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S09F	MULB	77 - 51
	PHIN	♦SIC
		VALG
S54S09W	MULB	77 - 52
	PHIN	VALG
S54S10F	♦MULB	102 - 2
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S10W	♦MULB	102 - 48
	♦PHIN	♦SIC
		♦VALG
S54S11F	♦MULB	80 - 3
	♦PHIN	♦RTCF
	SIC	♦VALG
S54S11W	♦MULB	80 - 44
	♦PHIN	♦RTCF
	SIC	♦VALG
S54S15F	MULB	80 - 4
	PHIN	VALG
S54S15W	MULB	80 - 49
	PHIN	VALG
S54S20F	♦MULB	105 - 77
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S20W	♦MULB	105 - 78
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S22F	MULB	105 - 32
	PHIN	VALG
S54S22W	MULB	106 - 22
	PHIN	VALG
S54S32F	MULB	120 - 74
	PHIN	VALG
S54S32W	MULB	121 - 40
	PHIN	VALG
S54S51F	♦MULB	86 - 42
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S51W	♦MULB	86 - 43
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S64F	MULB	88 - 37
	PHIN	VALG
S54S64W	MULB	88 - 26
	PHIN	VALG
S54S65F	MULB	88 - 55
	PHIN	VALG
S54S65W	MULB	88 - 56
	PHIN	VALG
S54S74W	♦MULB	52 - 65
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S85F	♦MULB	216 - 64
	♦PHIN	♦RTCF
	♦SIC	VALG
S54S85W	♦MULB	216 - 65
	♦PHIN	♦RTCF
	♦SIC	VALG
S54S86F	♦MULB	93 - 29
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S86W	♦MULB	93 - 30
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S112F	♦MULB	73 - 91
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S112W	♦MULB	73 - 92
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S113F	♦MULB	73 - 93
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S113W	♦MULB	71 - 9
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S114F	MULB	73 - 94
	PHIN	VALG
S54S114W	MULB	73 - 95
	PHIN	VALG
S54S133F	♦MULB	111 - 58
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S133W	♦MULB	111 - 59
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S134F	MULB	111 - 42
	PHIN	♦SIC
		VALG
S54S134W	MULB	111 - 64
	PHIN	♦SIC
		VALG
S54S135F	♦MULB	94 - 82
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S135W	♦MULB	94 - 83
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S138F(2)	♦MULB	125 - 43
S54S138W(2)	♦MULB	125 - 44
S54S140A	MULB	106 - 6
	PHIN	
S54S168AF	♦MULB	180 - 14
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S168F	♦MULB	180 - 15
	♦SIC	
S54S169AF	♦MULB	163 - 38
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S169F	♦MULB	163 - 39
	♦SIC	
S54S174F(1)	♦MULB	57 - 20
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S174G	♦MULB	57 - 21
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S174W	♦MULB	57 - 22
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S181F	♦MULB	221 - 63
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S181N	MULB	221 - 7
	PHIN	SIC
S54S181W	MULB	221 - 8
	PHIN	
S54S182F	♦MULB	224 - 93
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S182W	♦MULB	224 - 94
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S260F	♦MULB	119 - 19
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S260G	♦MULB	119 - 20
	♦PHIN	♦RTCF
		♦VALG
S54S260W	♦MULB	119 - 21
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S280F	♦MULB	226 - 74
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S280W	♦MULB	226 - 75
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54S373F(1)	♦MULB	235 - 67
	♦PHIN	♦RTCF
	SIC	♦VALG
S54S374F(1)	♦MULB	62 - 99
	♦PHIN	♦RTCF
	SIC	♦VALG

Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
S54S374G	♦MULB	62 -100
	♦PHIN	
	♦SIC	
S54S534F	♦MULB	62 -101
	♦PHIN	
	SIC	
S82S62A	MULB	226 - 81
S82S62F	AMD	226 - 82
	MULB	
S82S82F	MULB	222 - 55
S82S82N	MULB	222 - 56
	PHIN	
S82S83B	MULB	200 - 74
S82S83F	MULB	200 - 75
S89(2)	♦SIEG	196 -107
S360B110	♦SIEG	186 - 15
S360B110C	♦SIEG	186 - 16
S360B114(A)	♦SIEG	186 - 14
S5400F	♦MULB	97 - 28
	♦PHIN	
	♦SIC	
S5400W	♦MULB	99 - 5
	♦PHIN	
	♦SIC	
S5401F	MULB	100 - 15
	PHIN	
S5401W	MULB	100 - 16
	PHIN	
S5402F	MULB	112 -105
	PHIN	
S5402W	MULB	113 -101
	PHIN	
S5403F	♦MULB	97 - 29
	♦PHIN	
	♦SIC	
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	♦SIC	
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S5408W	MULB	77 -101
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S5410F	MULB	102 - 3
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S5410W	MULB	103 - 9
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S5411F	♦MULB	80 - 5
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	♦SIC	
S5411W	♦MULB	80 - 77
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	♦SIC	
S5412F	MULB	102 - 4
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S5412W	MULB	103 - 54
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S5420F	♦MULB	107 - 11
	♦PHIN	
	♦SIC	
S5420W	♦MULB	107 - 12
	♦PHIN	
	♦SIC	
S5421F	MULB	82 - 95
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S5421W	MULB	82 - 96
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S5423F	MULB	117 - 99
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S5423W	MULB	118 - 10
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	SIC	
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S5425F	♦MULB	117 -100
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	♦SIC	
S5425W	♦MULB	118 - 11
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S5427F	MULB	115 -102
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S5427W	MULB	116 - 22
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S5430W	MULB	110 - 31
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	♦SIC	
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	♦SIC	
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S5443W	MULB	127 - 92
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S5444F	MULB	127 - 99
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S5444W	MULB	127 -100
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S5450W	MULB	86 - 45
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S5451F	MULB	86 - 46
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S5451W	MULB	86 - 47
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S5453F	MULB	87 - 15
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S5453W	MULB	87 - 58
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S5454F	MULB	87 - 16
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S5454W	MULB	87 - 59
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S5460W	MULB	81 - 78
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S5470F	MULB	65 - 63
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S5470W	MULB	65 - 64
	PHIN	VALG
S5472F	MULB	65 - 13
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S5472W	MULB	65 - 14
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	PHIN	♦RTCF
	♦SIC	VALG
S5473W	♦MULB	68 - 17
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	♦SIC	VALG
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	♦PHIN	♦RTCF
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S5475W	♦MULB	229 - 92
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S5480W	MULB	198 - 69
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S5492F	MULB	167 - 79
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S5492W	MULB	167 - 80
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S5493F	♦MULB	155 - 6
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S5493W	♦MULB	155 - 7
	♦PHIN	♦RTCF
	♦SIC	♦VALG
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S8241W	MULB	93 - 65
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S8242A	PHIN	90 - 52
S8242F	MULB	90 - 53
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S8242W	MULB	90 - 82
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S8251W	MULB	127 - 65
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S8252F	MULB	127 - 66
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S8262W	MULB	227 - 11
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S8280F	MULB	173 - 31
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S8280W	MULB	173 - 32
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S8281F	MULB	155 - 8
	PHIN	SIC
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S8290F	MULB	174 - 17
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S8290W	MULB	174 - 18
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S8291F	MULB	156 - 32
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S8291W	MULB	156 - 33
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S8292F	MULB	172 - 77
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S8292W	MULB	172 - 78
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S8293W	MULB	154 - 56
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S8415F	MULB	105 - 34
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S8417F	MULB	108 - 36
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S8417J	MULB	108 - 37
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S8455F	MULB	108 - 1
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S8455J	MULB	108 - 2
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S8471A	MULB	102 - 7
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S8471J	MULB	104 - 19
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S8480F	MULB	97 - 32
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S8480J	MULB	100 - 97
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S8481F	MULB	97 - 34
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S8481J	MULB	101 - 5
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S8806J	MULB	81 - 81
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S8822F	MULB	69 - 93
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S8822J	MULB	69 - 94
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S9602W	MULB	191 - 42
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S54121W	♦MULB	188 -100
	♦PHIN	♦RTCF
	♦SIC	♦VALG
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S54161F	♦MULB	156 -101
	♦PHIN	♦RTCF
	♦SIC	♦VALG
S54161R	MULB	156 -102
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S54161W	♦MULB	156 -103
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Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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SFC410EM	THEF	102 - 11
SFC410ET	THEF	102 - 12
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SMD99-5016	♦DDD	149 -108
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SMD99-5040	♦DDD	150 - 2
SMD99-5045	♦DDD	150 - 3
SMD99-5050	♦DDD	150 - 4
SMD99-5060	♦DDD	150 - 5
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SMD99-5125	♦DDD	150 - 8
SMD99-5150	♦DDD	150 - 9
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SMD99C5006	♦DDD	141 - 83
SMD99C5008	♦DDD	141 - 84
SMD99C5010	♦DDD	141 - 85
SMD99C5012	♦DDD	141 - 86
SMD99C5016	♦DDD	141 - 87
SMD99C5020	♦DDD	141 - 88
SMD99C5030	♦DDD	141 - 89
SMD99C5035	♦DDD	141 - 90
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SMD99C5075	♦DDD	141 - 95
SMD99C5100	♦DDD	141 - 96
SMD99C5125	♦DDD	141 - 97
SMD99C5150	♦DDD	141 - 98
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SMD99F5008	♦DDD	150 - 15
SMD99F5010	♦DDD	150 - 16
SMD99F5012	♦DDD	150 - 17
SMD99F5016	♦DDD	150 - 18
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SMD99F5030	♦DDD	150 - 21
SMD99F5035	♦DDD	150 - 22
SMD99F5040	♦DDD	150 - 23
SMD99F5045	♦DDD	150 - 24
SMD99F5050	♦DDD	150 - 25
SMD99F5060	♦DDD	150 - 26
SMD99F5075	♦DDD	150 - 27
SMD99F5100	♦DDD	150 - 28
SMD99F5125	♦DDD	150 - 29
SMD99F5150	♦DDD	150 - 30
SMD99F5175	♦DDD	150 - 31
SMD99F5200	♦DDD	150 - 32
SMD99F5250	♦DDD	150 - 33
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△-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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♦-Mfr's data sheet available in microfilm service

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SP629A	MULB	75 - 53
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T54LS30D2	SGSI	109 - 42
T54LS32D2	SGSI	120 - 86
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T74LS03D1	SGSI	97 - 94
T74LS08B1	SGSI	77 - 1
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T74LS09B1	SGSI	77 - 63
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T74LS15B1	SGSI	80 - 29
T74LS15D1	SGSI	80 - 30
T74LS20B1	SGSI	106 - 19
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T74LS113B1	SGSI	72 - 64
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TC40H010F	♦TOSJ	103 - 26
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TC40H011F	♦TOSJ	80 - 83
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TC40H032F	♦TOSJ	121 - 83
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TC40H051F	♦TOSJ	89 - 8
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TC40H076F	♦TOSJ	68 - 91
TC40H076P	IMTM	68 - 92
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TC40H160F	♦TOSJ	173 - 91
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TC40H161F	♦TOSJ	155 - 76
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TC40H162F	♦TOSJ	173 - 93
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TC40H163F	♦TOSJ	166 - 36
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TC40H175P	IMTM	54 - 10
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TC74HC08F(A)	TOSA	77 - 95
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TC74HC08P(A)	TOSA	77 - 4
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TC74HC20F(A)	TOSA	107 - 17
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TC74HC42F(A)	TOSA	127 - 77
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△-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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TC74HC4518F	TOSA	181 - 92
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TC74HC4520F(A)		165 - 28
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TC74HC4520P(A)		165 - 29
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TC74HC4538F(A)		191 - 74
	TOSA	
TC74HC4538P(A)		191 - 75
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TC74HC7266F	TOSA	90 - 83
TC74HC7266P(A)		90 - 84
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TC74HC7292P	TOSA	196 - 61
TC74HC7294P	TOSA	196 - 62
TC74HC40102P(A)		182 - 65
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TC74HC40103P(A)		169 - 53
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TC74HCT373F(A)		239 - 91
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TC74HCT373P(A)		239 - 92
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TC74HCT374F(A)		61 -108
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TC74HCT374P(A)		61 -109
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TC74HCT563P(A)		239 - 93
	TOSA	
TC74HCT564P(A)		61 -110
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TC74HCT573P(A)		239 - 94
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TC74HCT574P(A)		62 - 1
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TC4000BP	IMTM	112 - 26
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TC4001BP	IMTM	115 - 6
	TOSJ	
TC4001UBP	TOSJ	114 - 97
TC4002BP	IMTM	119 - 7
	TOSJ	
TC4008BP	IMTM	201 - 48
	TOSJ	
TC4011BP	IMTM	100 -110
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TC4011UBP	TOSJ	100 - 81
TC4012BP	IMTM	108 - 39
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TC4013BP	IMTM	50 - 80
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TC4017BP	IMTM	182 -110
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TC4018BP	IMTM	185 - 57
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TC4020BP	IMTM	170 - 91
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TC4022BP	IMTM	184 - 84
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TC4023BP	IMTM	104 - 22
	TOSJ	
TC4024BP	IMTM	168 - 18
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TC4025BP	IMTM	117 - 20
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TC4027BP	IMTM	67 - 36
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TC4028BP	IMTM	127 - 81
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TC4029BP	IMTM	159 - 95
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TC4030BP	IMTM	92 - 96
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TC4032BP	IMTM	198 - 97
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TC4038BP	IMTM	198 - 98
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TC4040BP	IMTM	169 -107
	TOSJ	
TC4042BP	IMTM	233 - 7
	TOSJ	
TC4043BP	IMTM	244 - 52
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TC4044BP	IMTM	244 - 53
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TC4047BP	IMTM	187 - 39
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TC4063BP	IMTM	217 - 87
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TC4068BP	IMTM	110 - 98
	TOSJ	
TC4071BP	IMTM	122 - 22
	TOSJ	
TC4072BP	IMTM	124 - 41
	TOSJ	
TC4073BP	IMTM	81 - 27
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TC4075BP	IMTM	123 - 75
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TC4077BP	IMTM	90 -108
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TC4082BP	IMTM	83 - 29
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TC4085BP	IMTM	85 - 60
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TC4086BP	IMTM	87 - 29
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TC4099BP	IMTM	241 - 48
	TOSJ	
TC4501BP	TOSJ	94 -107
TC4508BP	TOSJ	232 -110
TC4510BP	IMTM	177 - 54
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TC4516BP	IMTM	159 - 97
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TC4518BP	IMTM	180 -106
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TC4520BP	IMTM	164 - 22
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TC4521BP	IMTM	194 - 20
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TC4522BP	IMTM	177 - 3
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TC4526BP	IMTM	159 - 58
	TOSJ	
TC4527BP	IMTM	197 - 41
	TOSJ	
TC4528BP	IMTM	191 - 76
	TOSJ	
TC4530BP	IMTM	246 - 11
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TC4531BP	IMTM	228 - 32
	TOSJ	
TC4560BP	IMTM	201 - 62
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TC4572BP	IMTM	246 - 12
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TC4585BP	IMTM	217 - 93
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TC5001P	TOSJ	165 - 72
TC5018P	TOSJ	165 - 88
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TC5027P	TOSJ	165 - 78
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TC5036P	IMTM	194 - 17
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TC5037P	IMTM	165 - 73
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TC5043P	IMTM	143 - 2
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TC5048P	IMTM	194 - 18
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TC5051P	IMTM	172 - 59
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TC5052P	IMTM	165 - 74
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TC5053P	TOSJ	165 - 75
TC5054P	TOSJ	165 - 76
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TC5071P	♦TOSJ	184 - 58
TC5072P	♦TOSJ	184 - 59
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TC7476BP	IMTM	67 - 37
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TC8282	♦ITL	238 - 40
TC8283	♦ITL	237 - 50
TC9122P	♦TOSJ	166 - 34
TC40102BP	TOSJ	169 - 38
TC40103BP	TOSJ	167 - 67
TC40160BP	IMTM	172 - 73
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TC40161BP	IMTM	154 - 50
	TOSJ	
TC40162BP	IMTM	172 - 74
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TC40163BP	IMTM	154 - 51
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TC40174BP	IMTM	56 - 5
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TC40175BP	IMTM	54 - 5
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TC40192BP	IMTM	177 - 52
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TC40193BP	IMTM	160 - 34
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TDC1008J4A	♦TRW	203 - 67
TDC1008J4C	♦TRW	203 - 59
TDC1008J4F	♦TRW	203 - 68
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TDC1010C1F	♦TRW	214 - 31
TDC1010J1A	♦TRW	214 - 32
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TDE2608DP	THEF	131 - 80
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THCT1010-140JDE		209 - 29
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TMC216HC1A	♦TRW	214 - 13
TMC216HC1C	♦TRW	213 - 81
TMC216HC1F	♦TRW	214 - 14
TMC216HC1G	♦TRW	213 - 82
TMC216HJ3A	♦TRW	214 - 15
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TMC2009C1F	♦TRW	205 -100
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TMC2009J3A	♦TRW	205 -101
TMC2009J3C	♦TRW	205 - 76
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TMC2009L1A	♦TRW	205 -103
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TMC2010J3A	♦TRW	214 - 36
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TMC2010J3F	♦TRW	214 - 37
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TMC2010L1A	♦TRW	214 - 38
TMC2010L1F	♦TRW	214 - 39
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TMC2110C1C	♦TRW	212 - 71
TMC2110C1F	♦TRW	213 - 32
TMC2110C1G	♦TRW	212 - 72
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TMC2110J3C	♦TRW	212 - 73
TMC2110J3F	♦TRW	213 - 34
TMC2110J3G	♦TRW	212 - 74
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TMC2110L1C	♦TRW	212 - 75
TMC2110L1F	♦TRW	213 - 36
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TMC3032J3A1(A)		214 - 61
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	♦TRW	
TMC3033J3A	♦TRW	223 - 30
TMC3033J3A1	♦TRW	223 - 31
TMC3033J3C	♦TRW	223 - 33
TMC3033J3C1	♦TRW	223 - 32
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TQ1111-25(A)	TRQ	168 - 8
TQ1111-30(A)	TRQ	168 - 9
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TSC333AL	♦TSC	94 - 93
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TTLDL020M	♦TNL	150 - 59
TTLDL025	♦TNL	150 - 60
TTLDL025M	♦TNL	150 - 61
TTLDL050	♦TNL	150 - 62
TTLDL050M	♦TNL	150 - 63
TTLDL075	♦TNL	150 - 64
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TTLDL100	♦TNL	150 - 66
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TTLOS5	♦RHB	187 - 62
TTLOS10	♦RHB	187 - 75
TTLOS15	♦RHB	187 - 86
TTLOS20	♦RHB	187 - 89
TTLOS25	♦RHB	187 - 94
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TTLOS80	♦RHB	188 - 3
TTLOS90	♦RHB	188 - 4
TTLOS100	♦RHB	188 - 5
TTLPW005	♦TNL	247 - 54
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TTLPW010	♦TNL	247 - 56
TTLPW010M	♦TNL	247 - 57
TTLPW015	♦TNL	247 - 58
TTLPW015M	♦TNL	247 - 59
TTLPW020	♦TNL	247 - 60
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TTLPW035M	♦TNL	247 - 67
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TTLPW040M	♦TNL	247 - 69
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TTLPW045M	♦TNL	247 - 71
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TTLPW060M	♦TNL	247 - 75
TTLPW070	♦TNL	247 - 76
TTLPW070M	♦TNL	247 - 77
TTLPW075	♦TNL	247 - 78
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TTLPWG50	♦RHB	153 - 18
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U4620B	♦ALGG	195 - 63
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UPD74HC08C(A)		77 - 74
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UPD74HC10C(A)		103 - 10
	♦NECJ	
UPD74HC11C(A)		80 - 55
	♦NECJ	
UPD74HC20C(A)		106 - 27
	♦NECJ	
UPD74HC21C(A)		82 - 8
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UPD74HC27C(A)		116 - 15
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UPD74HC30C(A)		109 - 32
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UPD74HC32C(A)		121 - 49
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Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

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UPD74HC192C(A)	♦NECJ	179 - 50
UPD74HC193C(A)	♦NECJ	162 - 55
UPD74HC259C(A)	♦NECJ	237 - 7
UPD74HC266C(A)	♦NECJ	90 - 60
UPD74HC273C(A)	♦NECJ	62 - 43
UPD74HC373C(A)	♦NECJ	235 - 99
UPD74HC374C(A)	♦NECJ	62 - 76
UPD74HC375C(A)	♦NECJ	230 - 84
UPD74HC390C(A)	♦NECJ	182 - 40
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UPD74HC534C(A)	♦NECJ	62 - 77
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UPD74HC564C(A)	♦NECJ	62 - 78
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UPD74HC4078C(A)	♦NECJ	119 -103
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UPD4013BG	♦NECJ	51 - 18
UPD4023BG	♦NECJ	103 -100
UPD4025BG	♦NECJ	116 -109
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V54ACT846DL	♦VTC	241 -110
V54ACT874D	♦VTC	62 -104
V54ACT874DL	♦VTC	52 - 66
V54ACT876D	♦VTC	62 -105
V54ACT876DL	♦VTC	52 - 67
V54ACT878D	♦VTC	62 -106
V54ACT878DL	♦VTC	52 - 68
V54ACT879D	♦VTC	62 -107
V54ACT879DL	♦VTC	52 - 69
V54ACT880D	♦VTC	230 - 85
V54ACT880DL	♦VTC	230 - 86
V74ACT373D	♦VTC	236 - 39
V74ACT373DL	♦VTC	236 - 40
V74ACT373P	♦VTC	236 - 41
V74ACT373PK	♦VTC	236 - 42
V74ACT373PO	♦VTC	236 - 43
V74ACT374D	♦VTC	62 - 61
V74ACT374DL	♦VTC	62 - 62
V74ACT374P	♦VTC	62 - 63
V74ACT374PK	♦VTC	62 - 64
V74ACT374PO	♦VTC	62 - 65
V74ACT533D	♦VTC	236 - 44
V74ACT533DL	♦VTC	236 - 45
V74ACT533P	♦VTC	236 - 46
V74ACT533PK	♦VTC	236 - 47
V74ACT533PO	♦VTC	236 - 48
V74ACT563D	♦VTC	236 - 49
V74ACT563DL	♦VTC	236 - 50
V74ACT563P	♦VTC	236 - 51
V74ACT563PK	♦VTC	236 - 52
V74ACT563PO	♦VTC	236 - 53
V74ACT564D	♦VTC	62 - 66
V74ACT564DL	♦VTC	62 - 67
V74ACT564P	♦VTC	62 - 68
V74ACT564PK	♦VTC	62 - 69
V74ACT564PO	♦VTC	62 - 70
V74ACT573D	♦VTC	235 - 73
V74ACT573DL	♦VTC	235 - 74
V74ACT573P	♦VTC	235 - 75
V74ACT573PK	♦VTC	235 - 76
V74ACT573PO	♦VTC	235 - 77
V74ACT574D	♦VTC	235 - 78
V74ACT574DL	♦VTC	235 - 79
V74ACT574P	♦VTC	235 - 80
V74ACT574PK	♦VTC	235 - 81
V74ACT574PO	♦VTC	235 - 82
V74ACT575D	♦VTC	62 - 71
V74ACT575DL	♦VTC	62 - 72
V74ACT575P	♦VTC	62 - 73
V74ACT575PK	♦VTC	62 - 74
V74ACT575PO	♦VTC	62 - 75
V74ACT576D	♦VTC	62 -108
V74ACT576DL	♦VTC	62 -109
V74ACT576P	♦VTC	62 -110
V74ACT576PK	♦VTC	63 - 1
V74ACT576PO	♦VTC	63 - 2
V74ACT577D	♦VTC	62 - 82
V74ACT577DL	♦VTC	62 - 83
V74ACT577P	♦VTC	62 - 84
V74ACT577PK	♦VTC	62 - 85
V74ACT577PO	♦VTC	62 - 86
V74ACT580D	♦VTC	236 - 6
V74ACT580DL	♦VTC	236 - 7
V74ACT580P	♦VTC	236 - 8
V74ACT580PK	♦VTC	236 - 9
V74ACT580PO	♦VTC	236 - 10
V74ACT821D	♦VTC	49 - 89
V74ACT821DL	♦VTC	49 - 90
V74ACT821P	♦VTC	49 - 91
V74ACT821PK	♦VTC	49 - 92
V74ACT821PO	♦VTC	49 - 93
V74ACT822D	♦VTC	49 - 94
V74ACT822DL	♦VTC	49 - 95
V74ACT822P	♦VTC	49 - 96
V74ACT822PK	♦VTC	49 - 97
V74ACT822PO	♦VTC	49 - 98
V74ACT823D	♦VTC	49 - 99
V74ACT823DL	♦VTC	49 -100
V74ACT823P	♦VTC	49 -101
V74ACT823PK	♦VTC	49 -102
V74ACT823PO	♦VTC	49 -103
V74ACT824D	♦VTC	49 -104
V74ACT824DL	♦VTC	49 -105
V74ACT824P	♦VTC	49 -106
V74ACT824PK	♦VTC	49 -107
V74ACT824PO	♦VTC	49 -108
V74ACT825D	♦VTC	49 -109
V74ACT825DL	♦VTC	49 -110
V74ACT825P	♦VTC	50 - 1
V74ACT825PK	♦VTC	50 - 2
V74ACT825PO	♦VTC	50 - 3
V74ACT826D	♦VTC	50 - 4
V74ACT826DL	♦VTC	50 - 5
V74ACT826P	♦VTC	50 - 6
V74ACT826PK	♦VTC	50 - 7
V74ACT826PO	♦VTC	50 - 8
V74ACT841D	♦VTC	243 - 1
V74ACT841DL	♦VTC	243 - 2
V74ACT841P	♦VTC	243 - 3
V74ACT841PK	♦VTC	243 - 4
V74ACT841PO	♦VTC	243 - 5
V74ACT842D	♦VTC	243 - 6
V74ACT842DL	♦VTC	243 - 7
V74ACT842P	♦VTC	243 - 8
V74ACT842PK	♦VTC	243 - 9
V74ACT842PO	♦VTC	243 - 10
V74ACT843D	♦VTC	242 - 1
V74ACT843DL	♦VTC	242 - 2
V74ACT843P	♦VTC	242 - 3
V74ACT843PK	♦VTC	242 - 4
V74ACT843PO	♦VTC	242 - 5
V74ACT844D	♦VTC	242 - 6
V74ACT844DL	♦VTC	242 - 7
V74ACT844P	♦VTC	242 - 8
V74ACT844PK	♦VTC	242 - 9
V74ACT844PO	♦VTC	242 - 10
V74ACT845D	♦VTC	242 - 11
V74ACT845DL	♦VTC	242 - 12
V74ACT845P	♦VTC	242 - 13
V74ACT845PK	♦VTC	242 - 14
V74ACT845PO	♦VTC	242 - 15
V74ACT846D	♦VTC	242 - 16
V74ACT846DL	♦VTC	242 - 17
V74ACT846P	♦VTC	242 - 18
V74ACT846PK	♦VTC	242 - 19
V74ACT846PO	♦VTC	242 - 20
V74ACT874D	♦VTC	63 - 3
V74ACT874DL	♦VTC	52 - 70
V74ACT874P	♦VTC	63 - 4
V74ACT874PK	♦VTC	52 - 71
V74ACT874PO	♦VTC	63 - 5
V74ACT876D	♦VTC	63 - 6
V74ACT876DL	♦VTC	52 - 72
V74ACT876P	♦VTC	63 - 7
V74ACT876PK	♦VTC	52 - 73
V74ACT876PO	♦VTC	63 - 8
V74ACT878D	♦VTC	63 - 9
V74ACT878DL	♦VTC	52 - 74
V74ACT878P	♦VTC	63 - 10
V74ACT878PK	♦VTC	52 - 75
V74ACT878PO	♦VTC	63 - 11
V74ACT879D	♦VTC	63 - 12
V74ACT879DL	♦VTC	52 - 76
V74ACT879P	♦VTC	63 - 13
V74ACT879PK	♦VTC	52 - 77
V74ACT879PO	♦VTC	63 - 14
V74ACT880D	♦VTC	230 - 87
V74ACT880DL	♦VTC	230 - 88
V74ACT880P	♦VTC	230 - 89
V74ACT880PK	♦VTC	230 - 90
V74ACT880PO	♦VTC	230 - 91
WD1801U	♦WDC	215 - 4
WD1801V	♦WDC	215 - 5
WD1802U	♦WDC	215 - 6
WD1802V	♦WDC	215 - 7
WD1943-00AD	♦WDC	193 - 49
WD1943-00CD	♦WDC	193 - 50
WD1943-00M	♦WDC	193 - 51
WD1943-02AD	♦WDC	193 - 52
WD1943-02CD	♦WDC	193 - 53
WD1943-02M	♦WDC	193 - 54
WD1943-03AD	♦WDC	193 - 55
WD1943-03CD	♦WDC	193 - 56
WD1943-03M	♦WDC	193 - 57
WD1943-04AD	♦WDC	193 - 58
WD1943-04CD	♦WDC	193 - 59
WD1943-04M	♦WDC	193 - 60
WD1943-05AD	♦WDC	193 - 61
WD1943-05CD	♦WDC	193 - 62
WD1943-05M	♦WDC	193 - 63
WD1943-06AD	♦WDC	193 - 64
WD1943-06CD	♦WDC	193 - 65
WD1943-06M	♦WDC	193 - 66
WD1943XXA	♦WDC	193 - 67
WD1943XXCD	♦WDC	193 - 68
WD1943XXL	♦WDC	193 - 69
WD1943XXM	♦WDC	193 - 70
WD1943XXN	♦WDC	193 - 71
WD1945-00AD	♦WDC	193 - 72
WD1945-00CD	♦WDC	193 - 73
WD1945-00M	♦WDC	193 - 74
WD1945-02AD	♦WDC	193 - 75
WD1945-02CD	♦WDC	193 - 76
WD1945-02M	♦WDC	193 - 77
WD1945-03AD	♦WDC	193 - 78
WD1945-03CD	♦WDC	193 - 79
WD1945-03M	♦WDC	193 - 80
WD1945-04AD	♦WDC	193 - 81
WD1945-04CD	♦WDC	193 - 82
WD1945-04M	♦WDC	193 - 83
WD1945-05AD	♦WDC	193 - 84
WD1945-05CD	♦WDC	193 - 85
WD1945-05M	♦WDC	193 - 86
WD1945-06AD	♦WDC	193 - 87
WD1945-06CD	♦WDC	193 - 88
WD1945-06M	♦WDC	193 - 89
WTL1010	♦WET	206 - 70
WTL1010AJC	♦WET	213 - 37
WTL1010AJM	♦WET	213 - 90
WTL1010JC	♦WET	213 - 87
WTL1010JM	♦WET	214 - 40
WTL1016	WET	206 - 71
WTL1016AJC	♦WET	212 - 77
WTL1016AJM	♦WET	212 - 78
WTL1016JC	♦WET	213 - 78
WTL1016JM	♦WET	214 - 19
WTL1032JC5	♦WET	214 - 49
WTL1032JC8	♦WET	214 - 41
WTL1032JM5	♦WET	214 - 50
WTL1032JM8	♦WET	214 - 42
WTL1032LC5	♦WET	214 - 51
WTL1032LC8	♦WET	214 - 43
WTL1032LM5	♦WET	214 - 52
WTL1032LM8	♦WET	214 - 44
WTL1033JC5	♦WET	214 - 53
WTL1033JC8	♦WET	214 - 45
WTL1033JM5	♦WET	214 - 54
WTL1033JM8	♦WET	214 - 46
WTL1033LC5	♦WET	214 - 55
WTL1033LC8	♦WET	214 - 47
WTL1033LM5	♦WET	214 - 56
WTL1033LM8	♦WET	214 - 48
WTL1064GCD	♦WET	214 - 93
WTL1065GCD	♦WET	214 - 84
WTL1164GCD	♦WET	214 - 85
WTL1164JC	♦WET	214 - 86
WTL1164LCA	♦WET	214 - 87
WTL1165GCD	♦WET	214 - 88
WTL1165JC	♦WET	214 - 89
WTL1165LCA	♦WET	214 - 90
WTL1516AJC	♦WET	210 - 31
WTL1516AJM	♦WET	210 - 32
WTL1516APC	♦WET	210 - 33
WTL1516BGCD	♦WET	210 - 34
WTL1516BGMD	♦WET	211 - 36
WTL1516BJC	♦WET	210 - 35
WTL1516BJM	♦WET	211 - 37
WTL1516BLCA	♦WET	210 - 36
WTL1516BLMA	♦WET	211 - 38
WTL1516JC	♦WET	212 - 79
WTL1516JM	♦WET	212 - 80
WTL1516PC	♦WET	212 - 81
WTL2010AGCD	♦WET	210 - 37
WTL2010AGMD	♦WET	210 - 38
WTL2010AJC	♦WET	210 - 39
WTL2010AJM	♦WET	210 - 40
WTL2010ALCA	♦WET	210 - 41
WTL2010ALMA	♦WET	210 - 42
WTL2010GCD	♦WET	212 - 7
WTL2010GMD	♦WET	212 - 8
WTL2010JC	♦WET	212 - 9
WTL2010JM	♦WET	212 - 10
WTL2010LCA	♦WET	212 - 11
WTL2010LMA	♦WET	212 - 12
WTL2044AGCD	♦WET	210 - 43
WTL2044AGMD	♦WET	211 - 39
WTL2044AJC	♦WET	210 - 44
WTL2044AJM	♦WET	211 - 40
WTL2044ALCA	♦WET	210 - 45
WTL2044ALMA	♦WET	211 - 41
WTL2044GCD	♦WET	212 - 13
WTL2044GMD	♦WET	213 - 38
WTL2044JC	♦WET	212 - 14
WTL2044JM	♦WET	213 - 39
WTL2044LCA	♦WET	212 - 15
WTL2044LMA	♦WET	213 - 40
WTL2245AGCD	♦WET	211 - 42
WTL2245AGMD	♦WET	211 - 43
WTL2245AJC	♦WET	211 - 44
WTL2245AJM	♦WET	211 - 45
WTL2245ALCA	♦WET	211 - 46
WTL2245ALMA	♦WET	211 - 47
WTL2245GCD	♦WET	213 - 41
WTL2245GMD	♦WET	213 - 42
WTL2245JC	♦WET	213 - 43
WTL2245JM	♦WET	213 - 44
WTL2245LCA	♦WET	213 - 45
WTL2245LMA	♦WET	213 - 46
WTL2264-50GCD	♦WET	214 - 78
WTL2264-60GCD	♦WET	214 - 80
WTL2264-75GCD	♦WET	214 - 81
WTL2264-80GCD	♦WET	214 - 82
WTL2264-100GCD	♦WET	214 - 83
WTL2516AGCD	♦WET	210 - 46
WTL2516AGMD	♦WET	211 - 48
WTL2516AJC	♦WET	210 - 47
WTL2516AJE	♦WET	211 - 49
WTL2516AJM	♦WET	211 - 50
WTL2516ALCA	♦WET	210 - 48
WTL2516ALCC	♦WET	210 - 49
WTL2516ALMA	♦WET	211 - 51
WTL2516ALMC	♦WET	211 - 52
WTL2516BGCD	♦WET	208 - 16
WTL2516BGMD	♦WET	209 - 30
WTL2516BJC	♦WET	208 - 17
WTL2516BJE	♦WET	209 - 31
WTL2516BJM	♦WET	209 - 32
WTL2516BLCA	♦WET	208 - 18
WTL2516BLCC	♦WET	208 - 19
WTL2516BLMA	♦WET	209 - 33
WTL2516BLMC	♦WET	209 - 34
WTL2516CGCD	♦WET	207 - 16
WTL2516CGMD	♦WET	208 - 20
WTL2516CJC	♦WET	207 - 17
WTL2516CJE	♦WET	208 - 21
WTL2516CJM	♦WET	208 - 22
WTL2516CLCA	♦WET	207 - 18
WTL2516CLCC	♦WET	207 - 19
WTL2516CLMA	♦WET	208 - 23
WTL2516CLMC	♦WET	208 - 24
WTL2516GCD	♦WET	212 - 16
WTL2516GMD	♦WET	212 - 91
WTL2516JC	♦WET	212 - 17
WTL2516JE	♦WET	212 - 92
WTL2516JM	♦WET	212 - 93
WTL2516LCA	♦WET	212 - 18
WTL2516LCC	♦WET	212 - 19
WTL2516LMA	♦WET	212 - 94
WTL2516LMC	♦WET	212 - 95
WTL2517AGCD	♦WET	210 - 50
WTL2517AGMD	♦WET	211 - 53
WTL2517AJC	♦WET	210 - 51
WTL2517AJE	♦WET	211 - 54
WTL2517AJM	♦WET	211 - 55
WTL2517BGCD	♦WET	208 - 25
WTL2517BGMD	♦WET	209 - 35
WTL2517BJC	♦WET	208 - 26
WTL2517BJE	♦WET	209 - 36
WTL2517BJM	♦WET	209 - 37
WTL2517CGCD	♦WET	207 - 20
WTL2517CGMD	♦WET	208 - 27
WTL2517CJC	♦WET	207 - 21
WTL2517CJE	♦WET	208 - 28
WTL2517CJM	♦WET	208 - 29
WTL2517GCD	♦WET	212 - 20
WTL2517GMD	♦WET	212 - 96
WTL2517JC	♦WET	212 - 21
WTL2517JE	♦WET	212 - 97
WTL2517JM	♦WET	212 - 98
XR3220P	♦EXR	189 - 14
XR2242CP	♦EXR	187 - 40
Z80ACTCCE	ZIL	165 -105
Z80ACTCCM	ZIL	165 -106
Z80ACTCCS	ZIL	165 -107
Z80CTCCE	ZIL	165 - 98
Z80CTCCM	ZIL	165 - 99
Z80CTCCS	ZIL	165 -100
Z80CTCPS	ZIL	165 -101
ZN1010E	♦FERB	189 - 15
ZN1010F	♦FERB	189 - 16
ZN1034D(1)	♦FERB	195 - 81
ZN1034E	♦FERB	195 - 82
ZN1034E(1)	♦FERB	195 - 83
ZN1034P(1)	♦FERB	195 - 84
ZN1034T(1)	♦FERB	195 - 85
ZN5400E	♦FERB	97 -101
ZN5460E	FERB	81 - 89
ZN74191E	FERB	162 - 52
ZN74191J	FERB	162 - 53
ZN74192E	FERB	179 -101
ZN74192J	FERB	179 -102
ZN74193E	FERB	165 - 42
ZN74193J	FERB	165 - 43

Δ-Registered with JEDEC by this manufacturer

♦-Mfr's data sheet available in microfilm service

TECHNICAL SECTIONS

4. FLIP-FLOPS - D-type

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING	
FLIP FLOP, D-TYPE																		
4▼	100231N	CMS		400M†	Yes	Yes		2.0n	4.5		-1.1	-1.4	495m†			B08-107	DIP24d	
5▼	100231Y	CMS		400M†	Yes	Yes		2.0n	4.5		-1.1	-1.4	495m†			B08-107	DIP24d	
6▼	AM29821DC	TTL	1				TS	20n		5.0	2.0	0.8		0	7	74AS841N	DIP24a	
7▼	AM29821DCB	TTL	1				TS	20n		5.0	2.0	0.8		0	7	74AS841	DIP24	☑
8▼	AM29821DM	TTL	1				TS	20n		5.0	2.0	0.8		5	C	74AS841N	DIP24a	
9▼	AM29821DMB	TTL	1				TS	20n		5.0	2.0	0.8		5	C	74AS841	DIP24	☑
10▼	AM29821LC	TTL	1				TS	20n		5.0	2.0	0.8		0	7	74AS841N	LC17	
11▼	AM29821LCB	TTL	1				TS	20n		5.0	2.0	0.8		0	7	74AS841	LC	☑
12▼	AM29821LM	TTL	1				TS	20n		5.0	2.0	0.8		5	C	74AS841N	LC17	
13▼	AM29821LMB	TTL	1				TS	20n		5.0	2.0	0.8		5	C	74AS841	LC	☑
14▼	AM29822DC	TTL	1				TS	20n		5.0	2.0	0.8		0	7	74AS842N	DIP24a	
15▼	AM29822DCB	TTL	1				TS	20n		5.0	2.0	0.8		0	7	74AS842	DIP24	☑
16♦	AM29822DM	TTL	1				TS	20n		5.0	2.0	0.8		5	C	74AS842N	DIP24a	
17▼	AM29822DMB	TTL	1				TS	20n		5.0	2.0	0.8		5	C	74AS842	DIP24	☑
18▼	AM29822LC	TTL	1				TS	20n		5.0	2.0	0.8		0	7	74AS842N	LC17	
19▼	AM29822LCB	TTL	1				TS	20n		5.0	2.0	0.8		0	7	74AS842	LC	☑
20▼	AM29822LM	TTL	1				TS	20n		5.0	2.0	0.8		5	C	74AS842N	LC17	
21▼	AM29822LMB	TTL	1				TS	20n		5.0	2.0	0.8		5	C	74AS842	LC	☑
22▼	AM29823DC	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS843N	DIP24a	
23▼	AM29823DCB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS843	DIP24	☑
24▼	AM29823DM	TTL	1		Yes		TS	20n		5.0	2.0	0.8		5	C	74AS843N	DIP24a	
25▼	AM29823DMB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		5	C	74AS843	DIP24	☑
26▼	AM29823LC	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS843N	LC17	
27▼	AM29823LCB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS843	LC	☑
28▼	AM29823LM	TTL	1		Yes		TS	20n		5.0	2.0	0.8		5	C	74AS843N	LC17	
29▼	AM29823LMB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		5	C	74AS843	LC	☑
30▼	AM29824DC	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS844N	DIP24a	
31▼	AM29824DCB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS844	DIP24	☑
32▼	AM29824DM	TTL	1		Yes		TS	20n		5.0	2.0	0.8		5	C	74AS844N	DIP24a	
33▼	AM29824DMB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		5	C	74AS844	DIP24	☑
34▼	AM29824LC	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS844N	LC17	
35▼	AM29824LCB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS844	LC	☑
36▼	AM29825DC	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS845N	DIP24a	
37▼	AM29825DCB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS845	DIP24	☑
38▼	AM29825DM	TTL	1		Yes		TS	20n		5.0	2.0	0.8		5	C	74AS845N	DIP24a	
39▼	AM29825DMB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		5	C	74AS845	DIP24	☑
40▼	AM29825LC	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS845N	LC17	
41▼	AM29825LCB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS825	LC	☑
42▼	AM29825LM	TTL	1		Yes		TS	20n		5.0	2.0	0.8		5	C	74AS845N	LC17	
43▼	AM29825LMB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		5	C	74AS845	LC	☑
44▼	AM29826DC	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS846N	DIP24a	
45▼	AM29826DCB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS846	DIP24	☑
46▼	AM29826DM	TTL	1		Yes		TS	20n		5.0	2.0	0.8		5	C	74AS846N	DIP24a	
47▼	AM29826DMB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		5	C	74AS846	DIP24	☑
48▼	AM29826LC	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS846N	LC17	
49▼	AM29826LCB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		0	7	74AS846	LC	☑
50▼	AM29826LM	TTL	1		Yes		TS	20n		5.0	2.0	0.8		5	C	74AS846	LC17	
51▼	AM29826LMB	TTL	1		Yes		TS	20n		5.0	2.0	0.8		5	C	74AS846	LC	☑
52	DM54175W(1)		1						0	0						None	None	
53♦	MB10175	ECL	1					3.5n	5.2	0	-1.1	-1.4C	400m†	3	8	B08-97	DIP16b	
54♦	MB10175M	ECL	1					3.5n	5.2	0	-1.1	-1.4C	400m†	3	8	B08-97	DIP16b	
55▼	SN74AS821DW	TTL	1		No	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS821	FP170	
56♦	SN74AS821FN	TTL	1		No	No	TS	11n	0.0	5.0	2.0	0.8		0	7	B08-183	LC20a	
57♦	SN74AS821NT	TTL	1		No	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS821	DIP24e	
58▼	SN74AS822DW	TTL	1		No	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS822	FP170	
59♦	SN74AS822FN	TTL	1		No	No	TS	11n	0.0	5.0	2.0	0.8		0	7	B08-185	LC20a	
60♦	SN74AS822NT	TTL	1		No	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS822	DIP24e	
61▼	SN74AS823DW	TTL	1		Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS823	FP170	
62♦	SN74AS823FN	TTL	1		Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	B08-187	LC20a	
63♦	SN74AS823NT	TTL	1		Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS823	DIP24e	
64▼	SN74AS824DW	TTL	1		Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS824	FP170	
65♦	SN74AS824FN	TTL	1		Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	B08-189	LC20a	
66♦	SN74AS824NT	TTL	1		Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS824	DIP24e	
67▼	SN74AS825DW	TTL	1		Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS825	FP170	
68♦	SN74AS825FN	TTL	1		Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	B08-191	LC20a	
69♦	SN74AS825NT	TTL	1		Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS825	DIP24e	
70▼	SN74AS826DW	TTL	1		Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS826	FP170	
71♦	SN74AS826FN	TTL	1		Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	B08-193	LC20a	
72♦	SN74AS826NT	TTL	1		Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS826	DIP24e	
73	SCL4174B	CMS	1	7M†	Yes	No		100n	0	15	3.5Δ	1.0*	300mQ	5	C	74-174N	DL	☑
74♦	MM74HC374N	CMS	1	28M			TS	50n	0.5	7.0	4.2	1.2	500m	4	8	74S364N	DIP20a	
75♦	MC4015L	TTL	1	30M†				16n	0	5.0	2.5	0.4C	190m†	0	7	74-415	DIP16b	
76♦	MC4015P	TTL	1	30M†				16n	0	5.0	2.5	0.4C	190m†	0	7	74-415	TO-116	
77♦	V54ACT577DL	CMS	1	70M	Yes	Yes	TS	14n	0	5	2.0	0.8		5	C	54ALS577	LC19a	
78♦	V54ACT821D	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		5	C	B08-182	DIP24	
79♦	V54ACT821DL	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		5	C	B08-182	LC19a	
80♦	V54ACT822D	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		5	C	B08-184	DIP24	
81♦	V54ACT822DL	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		5	C	B08-185	LC19a	
82♦	V54ACT823D	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		5	C	B08-186	DIP24	
83♦	V54ACT823DL	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		5	C	B08-187	LC19a	
84♦	V54ACT824D	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		5	C	B08-188	DIP24	
85♦	V54ACT824DL	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		5	C	B08-189	LC19a	
86♦	V54ACT825D	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		5	C	B08-190	DIP24	
87♦	V54ACT825DL	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		5	C	B08-191	LC19a	
88♦	V54ACT826D	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		5	C	B08-192	DIP24	
89♦	V74ACT821D	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-182	DIP24	
90♦	V74ACT821DL	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-183	LC19a	
91♦	V74ACT821P	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-182	DIP24	
92♦	V74ACT821PK	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-183	LC27	
93♦	V74ACT821PO	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-182	FP170	
94♦	V74ACT822D	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-184	DIP24	
95♦	V74ACT822DL	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-185	LC19a	
96♦	V74ACT822P	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-184	DIP24	
97♦	V74ACT822PK	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-185	LC27	
98♦	V74ACT822PO	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-184	FP170	
99♦	V74ACT823D	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-186	DIP24	
100♦	V74ACT823DL	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-187	LC19a	
101♦	V74ACT823P	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-186	DIP24	
102♦	V74ACT823PK	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-187	LC27	
103♦	V74ACT823PO	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-186	FP170	
104♦	V74ACT824D	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-188	DIP24	
105♦	V74ACT824DL	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-189	LC19a	
106♦	V74ACT824P	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-188	DIP24	
107♦	V74ACT824PK	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-189	LC27	
108♦	V74ACT824PO	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-188	FP170	
109♦	V74ACT825D	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-190	DIP24	
110♦	V74ACT825DL	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-191	LC19a	

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	V74ACT825P	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-190	DIP24
2♦	V74ACT825PK	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-191	LC27
3♦	V74ACT825PO	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-190	FP170
4♦	V74ACT826D	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-192	DIP24
5♦	V74ACT826DL	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-193	LC19a
6♦	V74ACT826P	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-192	DIP24
7♦	V74ACT826PK	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-193	LC27
8♦	V74ACT826PO	CMS	1	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-192	FP170
9▼	MC10176FN	ECL	1	150M				4.5n	5.2	0	-1.1	-1.4C	460m†	3	8	B08-181	DIP16a
10♦	MC10176L(1)	ECL	1	150M				4.5n	5.2	0	-1.1	-1.4C	460m†	3	8	B08-181	DIP16a
11▼	MC10176LD	ECL	1	150M				4.5n	5.2	0	-1.1	-1.4C	460m†	3	8	B08-181	DIP16a
12▼	MC10176LDS	ECL	1	150M				4.5n	5.2	0	-1.1	-1.4C	460m†	3	8	B08-181	DIP16a
13▼	MC10176P	ECL	1	150M				4.5n	5.2	0	-1.1	-1.4C	460m†	3	8	B08-181	DIP16b
14▼	MC10176PD	ECL	1	150M				4.5n	5.2	0	-1.1	-1.4C	460m†	3	8	B08-181	DIP16b
15▼	MC10176PDS	ECL	1	150M				4.5n	5.2	0	-1.1	-1.4C	460m†	3	8	B08-181	DIP16b
16▼	MC10186FN	ECL	1	150M				4.5n	5.2	0	-1.1	-1.4C	460m†	3	8	B08-180	DIP16a
17♦	MC10186L(1)	ECL	1	150M				4.5n	5.2	0	-1.1	-1.4C	460m†	3	8	B08-180	DIP16a
18▼	MC10186LD	ECL	1	150M				4.5n	5.2	0	-1.1	-1.4C	460m†	3	8	B08-180	DIP16a
19▼	MC10186LDS	ECL	1	150M				4.5n	5.2	0	-1.1	-1.4C	460m†	3	8	B08-180	DIP16a
20♦	MC10186P	ECL	1	150M				4.5n	5.2	0	-1.1	-1.4C	460m†	3	8	B08-180	DIP16b
21▼	MC10186PD	ECL	1	150M				4.5n	5.2	0	-1.1	-1.4C	460m†	3	8	B08-180	DIP16b
22▼	MC10186PDS	ECL	1	150M				4.5n	5.2	0	-1.1	-1.4C	460m†	3	8	B08-180	DIP16b
23▼	MC10H176FN	ECL	1	250M				2.7n	5.2	0	-1.1	-1.4	460m†	0	7	B08-100	DIP16a
24♦	MC10H176L	ECL	1	250M				2.7n	5.2	0	-1.1	-1.4	460m†	0	7	B08-100	DIP16a
25▼	MC10H176LD	ECL	1	250M				2.7n	5.2	0	-1.1	-1.4	460m†	0	7	B08-100	DIP16a
26▼	MC10H176LDS	ECL	1	250M				2.7n	5.2	0	-1.1	-1.4	460m†	0	7	B08-100	DIP16a
27♦	MC10H176P	ECL	1	250M				2.7n	5.2	0	-1.1	-1.4	460m†	0	7	B08-100	DIP16b
28▼	MC10H176PD	ECL	1	250M				2.7n	5.2	0	-1.1	-1.4	460m†	0	7	B08-100	DIP16b
29▼	MC10H176PDS	ECL	1	250M				2.7n	5.2	0	-1.1	-1.4	460m†	0	7	B08-100	DIP16b
30♦	MC10H186AL(A)	ECL	1	250M				2.7n	5.2	0	-1.1	-1.4	460m†	0	7	B08-180	DIP16a
31♦	MC10H186AP(A)	ECL	1	250M				2.7n	5.2	0	-1.1	-1.4	460m†	0	7	B08-180	DIP16b
32♦	MC1670L	ECL	1	350M†				2.5n	8.0	0	-.96	-1.6C	220m†	3	8	B03-153	DIP16a
33▼	MC1670LD	ECL	1	350M†				2.5n	8.0	0	-.96	-1.6C	220m†	3	8	B03-153	DIP16a
34▼	MC1670LDS	ECL	1	350M†				2.5n	8.0	0	-.96	-1.6C	220m†	3	8	B03-153	DIP16a
35▼	SP16F70CM	ECL	1	350M					5.2	0	.96	1.62C	220m†	3	8	B03-153	TO-5
36▼	SP16F70DC	ECL	1	350M					5.2	0	.96	1.62C	220m†	3	8	B03-153	DIP16a
37▼	SP16F70DG	ECL	1	350M					5.2	0	.96	1.62C	220m†	3	8	B03-153	DIP16a
38♦	MC1690L	ECL	1	500M				1.5n	8.0	0	-.96	-1.6C	200m†	3	8	B08-54	DIP16a
39▼	MC1690LD	ECL	1	500M				1.5n	8.0	0	-.96	-1.6C	200m†	3	8	B08-54	DIP16a
40▼	MC1690LDS	ECL	1	500M				1.5n	8.0	0	-.96	-1.6C	200m†	3	8	B08-54	DIP16a
41♦	F11C70DC	ECL	1	555M				1.7n	5.2	0	-.96	-1.6C	250mQ	0	7	B08-104	DIP16a
42♦	F11C70DM	ECL	1	555M				1.7n	5.2	0	-.96	-1.6C	250mQ	5	C	B08-104	DIP16a
43▼	SP1670DG	ECL	1	600M	Yes	Yes	OE	2.5n	5.2	0	-.9	-1.6C	120m†	3	8	B03-153	DIP16a
44♦	F11C06DC	ECL	1	650M				1.2n	5.2	0	-.96	-1.6C	306mQ	0	7	B08-103	DIP16a
45♦	SH133C0116	ECL	1	1G				1.2n	5.2	0	-1.1	-1.4				B08-103	DIP16 ⊠
46	HMD11131-2	GA	1	2.5G†	Yes	Yes		600p	3.0	5.2			1.8	5	8	B08-206	FP184
47♦	54LS74DM	TTL	2		Yes	Yes		26n	0	5.0	2.0	0.7	40mQ	5	C	74-74N	TO-116
48♦	54LS74FM	TTL	2		Yes	Yes		26n	0	5.0	2.0	0.7	40mQ	5	C	54S74W	TO-86
49♦	DM54H74J	TTL	2		Yes	Yes		30n	0	5.0	2.0	0.8	250mQ			74-74N	DIP14a
50♦	DM74H74N	TTL	2		Yes	Yes		30n	0	5.0	2.0	0.8	250mQ			74-74N	DIP14a
51	K155TM2	TTL	2						0	5.0	2.4	0.4		1	7	None	None
52	K176TM2	MOS	2		Yes	Yes			0	9.0	8.2	0.3		1	7	40-13	None
53♦	SP328A	TTL	2					25n	0	5.0	3.5	0.6C	190m	5	C	B08-44	TO-116
54♦	T54LS74D2	TTL	2		Yes	Yes		26n	0	5.0	2.0	0.7	40mQ	5	C	74-74N	DIP14b
55♦	T74LS74B1	TTL	2		Yes	Yes		26n	0	5.0	2.0	0.8	40mQ	0	7	74-74N	DIP14a
56♦	T74LS74D1	TTL	2		Yes	Yes		26n	0	5.0	2.0	0.8	40mQ	0	7	74-74N	DIP14b
57♦	MSM530	CMS	2	2M†				500n	0	5.0	3.6	0.8	50u	2	7	B08-92	DIP14a
58♦	SFC474LE	TTL	2	3M†	Yes	Yes		150n	0	5.0	2.0	0.7	85m†	0	7	74-74N	TO-116
59♦	SFC474LEM	TTL	2	3M†	Yes	Yes		150n	0	5.0	2.0	0.7	85m†	5	C	74-74N	TO-116
60♦	MM54C74D	CMS	2	3.5M†	Yes	Yes		250n		15	3.5	1.5	500m	5	C	74-74N	DIP16b
61♦	MM74C74N	CMS	2	3.5M†	Yes	Yes		250n		15	3.5	1.5	500m	0	7	74-74N	DIP16a
62♦	MSM530RS	CMS	2	4M				150n	0	5.0	3.6	0.8		3	8	B08-92	DIP14a
63♦	MSM4013RS	CMS	2	4M†	Yes	Yes		0.5u	0.3	16	3.6	1.0	200m	4	8	40-13B	DIP14 ⊠
64	LC4013BM	CMS	2	6M	Yes	Yes		160n	0	20.0	11.0	4.0	150m	4	8	40-13B	FP151
65♦	M4013BP	CMS	2	7M	Yes	Yes		200n	0	15	11	4.0	500m	4	8	40-13B	DIP14a
66♦	MC14013BAL	CMS	2	7M	Yes	Yes		100n	0	15	11	4.0	60uQ	5	C	40-13B	TO-116
67▼	MC14013BALD	CMS	2	7M	Yes	Yes		100n	0	15	11	4.0	60uQ	5	C	40-13B	TO-116
68▼	MC14013BALDS	CMS	2	7M	Yes	Yes		100n	0	15	11	4.0	60uQ	5	C	40-13B	TO-116
69▼	MC14013BALS	CMS	2	7M	Yes	Yes		100n	0	15	11	4.0	60uQ	5	C	40-13B	TO-116
70♦	MC14013BCL	CMS	2	7M	Yes	Yes		100n	0	15	11	4.0	240uQ	4	8	40-13B	TO-116
71▼	MC14013BCLD	CMS	2	7M	Yes	Yes		100n	0	15	11	4.0	240uQ	4	8	40-13B	TO-116
72▼	MC14013BCLDS	CMS	2	7M	Yes	Yes		100n	0	15	11	4.0	240uQ	4	8	40-13B	TO-116
73▼	MC14013BCLS	CMS	2	7M	Yes	Yes		100n	0	15	11	4.0	240uQ	4	8	40-13B	TO-116
74♦	MC14013BCP	CMS	2	7M	Yes	Yes		100n	0	15	11	4.0	240uQ	4	8	40-13B	TO-116
75▼	MC14013BCPD	CMS	2	7M	Yes	Yes		100n	0	15	11	4.0	240uQ	4	8	40-13B	TO-116
76▼	MC14013BCPDS	CMS	2	7M	Yes	Yes		100n	0	15	11	4.0	240uQ	4	8	40-13B	TO-116
77▼	MC14013BCPS	CMS	2	7M	Yes	Yes		100n	0	15	11	4.0	240uQ	4	8	40-13B	TO-116
78▼	MC14013BD	CMS	2	7M	Yes	Yes		100n	0	15	11	4.0	240uQ	4	8	40-13B	TO-116
79	SCL4013B	CMS	2	7M†	Yes	Yes		125n	0.5	18	7.0	3.0	300m	5	C	40-13B	MO001AA
80♦	TC4013BP	CMS	2	7M	Yes	Yes		200n	0	15	14.9	.05C	300m	4	8	40-13B	DIP14a
81♦	CD4013BCJ	CMS	2	7.6M	Yes	Yes		130n	0	15	11	4.0	240uQ	4	8	40-13B	DIP14a
82♦	CD4013BCN	CMS	2	7.6M	Yes	Yes		130n	0	15	11	4.0	240uQ	4	8	40-13B	DIP14a
83♦	CD4013BMJ	CMS	2	7.6M	Yes	Yes		130n	0	15	11	4.0	60uQ	5	C	40-13B	DIP14a
84	CD4013BMW	CMS	2	7.6M	Yes	Yes		130n	0	15	11	4.0	60uQ	5	C	40-13B	FP97c
85♦	CD4013BD	CMS	2	8M	No	No		130n	0	18	7.0	3.0	500m	5	C	40-13B	MO001AD
86♦	CD4013BE	CMS	2	8M	No	No		130n	0	18	7.0	3.0	500m	4	8	40-13B	MO001AB
87♦	CD4013BF	CMS	2	8M	No	No		130n	0	18	7.0	3.0	500m	5	C	40-13B	MO001AB
88♦	CD4013BK	CMS	2	8M	No	No		130n	0	18	7.0	3.0	500m	5	C	40-13B	MO004AF
89♦	4013BDC	CMS	2	9M	Yes	Yes		88n	0	15	11	4.0	1.8mQ	4	8	40-13B	TO-116
90♦	4013BDM	CMS	2	9M	Yes	Yes		88n	0	15	11	4.0	1.8mQ	5	C	40-13B	TO-116
91	4013BFC	CMS	2	9M	Yes	Yes		88n	0	15	11	4.0	1.8mQ	4	8	40-13B	FP21h
92	4013BFM	CMS	2	9M	Yes	Yes		88n	0	15	11	4.0	1.8mQ	5	C	40-13B	FP21h
93♦	4013BPC	CMS	2	9M	Yes	Yes		88n	0	15	11	4.0	1.8mQ	4	8	40-13B	DIP14a
94♦	DM75L11D	TTL	2	9M†	Yes	No		125n	0	5.0	2.0	0.7	18m†	5	C	75-11N	DIP16b
95	DM75L11F	TTL	2	9M†	Yes	No		125n	0	5.0	2.0	0.7	18m†	5	C	75-11N	FP88b
96♦	DM75L11N	TTL	2	9M†	Yes	No		125n	0	5.0	2.0	0.7	18m†	5	C	75-11N	DIP16a
97♦	DM85L11D	TTL	2	9M†	Yes	No		125n	0	5.0	2.0	0.7	18m†	0	7	75-11N	DIP16b
98	DM85L11F	TTL	2	9M†	Yes	No		125n	0	5.0	2.0	0.7	18m†	0	7	75-11N	FP88b
99♦	DM85L11N	TTL	2	9M†	Yes	No		125n	0	5.0	2.0	0.7	18m†	0	7	75-11N	DIP16a
100	CD4013AD	CMS	2	10M	Yes	Yes		110n	0	15	9.95	0.05C	500m	5	C	40-13B	MO001AD
101	CD4013AE	CMS	2	10M	Yes	Yes		125n	0	15	9.95	0.05C	500m	4	8	40-13B	MO001AB
102	CD4013AF	CMS	2	10M	Yes	Yes		110n	0	15	9.95	0.05C	500m	5	C	40-13B	MO001AB
103♦	CM4013AD	CMS	2	10M	Yes	Yes		110n	0	10	7.0	3.0	200m	5	C	40-13B	DIP14a
104♦	CM4013AE	CMS	2	10M	Yes	Yes		125n	0	10	7.0	3.0	200m	4	8	40-13B	DIP14a
105	HBC4013AD	CMS	2	10M	Yes	Yes		110n	0	10	10	0C	20uQ	5	C	40-13B	MO001AD
106	HBC4013AF	CMS	2	10M	Yes	Yes		110n	0	10	10	0C	20uQ	5	C	40-13B	MO001AD
107	HBC4013AK	CMS	2	10M	Yes	Yes		110n	0	10	10	0C	20uQ	5	C	40-13B	MO004AF
108	HBF4013AE	CMS	2	10M	Yes	Yes		125n	0	10	10	0C	200uQ	4	8	40-13B	MO001AB
109	HBF4013AF	CMS	2	10M	Yes	Yes		125n	0	10	10	0C	200uQ	4	8	40-13B	MO001AD
110	MB84013B	CMS	2	10M	Yes	Yes		130n	0	15	10.5	4.5	240uQ	4	8	40-13B	None

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	3 TYPE NUMBER	TECH	1 CKTS PER PKG	2 f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	MB84013BM	CMS	2	10M	Yes	Yes		130n	0	15	10.5	4.5	240uQ	4	8	40-13B	DIP20b
2	MM74PC74	CMS	2	10M	Yes	Yes		55n		5.0	4.0	1.0		0	7	74-74	None
3	MM74PC74I	CMS	2	10M	Yes	Yes		55n		5.0	4.0	1.0		4	8	74-74	None
4♦	MM4613AD	CMS	2	10M†	Yes	Yes		150n	0	5.0	4.99	.01C	500m	5	C	40-13B	DIP14a
5	MM4613AF	CMS	2	10M†	Yes	Yes		150n	0	5.0	4.99	.01C	500m	5	C	40-13B	FP97b
6♦	MM5613AN	CMS	2	10M†	Yes	Yes		150n	0	5.0	4.99	.01C	500m	4	8	40-13B	DIP14a
7♦	MSM4013	CMS	2	10M†	Yes	Yes		250n	0	10	7.2	2.0	2.8mQ	2	7	40-13B	DIP14a
8♦	SFF24013AEV	CMS	2	10M	Yes	Yes		125n	0	10	9.99	.01C	200m	4	8	40-13B	TO-116
9♦	SFF24013AKM	CMS	2	10M	Yes	Yes		110n	0	10	9.99	.01C	200m	5	C	40-13B	TO-116
10♦	DM54L74J	TTL	2	11M†	Yes	Yes		120n	0	5.0	2.0	0.7	10m†	5	C	74-74N	DIP14a
11	DM54L74W	TTL	2	11M	Yes	Yes		60n	0	8.0	2.0	0.7		5	C	54-74W	FP97c
12♦	DM74L74N	TTL	2	11M†	Yes	Yes		120n	0	5.0	2.0	0.7	10m†	0	7	74-74N	DIP14a
13♦	HCC4013BD	CMS	2	12M	Yes	Yes		90n	0	15	11	4.0	500m	5	C	40-13B	DIP14a
14♦	HCC4013BF	CMS	2	12M	Yes	Yes		90n	0	15	11	4.0	500m	5	C	40-13B	DIP14a
15	HCC4013BK	CMS	2	12M	Yes	Yes		90n	0	15	11	4.0	500m	5	C	40-13B	FP130
16♦	HCF4013BE	CMS	2	12M	Yes	Yes		90n	0	15	11	4.0	500m	4	8	40-13B	DIP14a
17♦	HCF4013BF	CMS	2	12M	Yes	Yes		90n	0	15	11	4.0	500m	4	8	40-13B	DIP14a
18	UPD4013BG	CMS	2	14M	Yes	Yes		150n	0	20.0	11.0	4.0	200m	4	8	40-13B	FP161
19♦	FJJ131-7474	TTL	2	15M	Yes	Yes		50n	0	5.0	2.0	0.8	85m†	0	7	74-74N	DIP14a
20♦	N7474F	TTL	2	15M	Yes	Yes		40n	0	5.0	2.0	0.8	150m	0	7	74-74N	DIP14b
21♦	N7474N	TTL	2	15M	Yes	Yes		40n	0.5	7.0	2.0	0.8	150m	0	7	74-74N	DIP14a
22♦	S5474F	TTL	2	15M	Yes	Yes		40n	0.5	7.0	2.0	0.8	150m	5	C	74-74N	DIP14b
23	S5474W	TTL	2	15M	Yes	Yes		40n	0.5	7.0	2.0	0.8	150m	5	C	54-74W	FP153
24♦	HEF4013P	CMS	2	16M	Yes	Yes		30n	0	10	7.0	3.0	2.8mQ	4	8	40-13B	TO-116
25♦	PC54HCT74D(A)	CMS	2	17M	Yes	Yes		60n	0	5.0	2.0	0.8	500m	5	C	74-74	DIP14b
26	HEF4013	CMS	2	18M	Yes	Yes		75n	0	15	11	4.0	400m	4	8	40-13B	DL ☑
27♦	HEF4013BPN	CMS	2	18M	Yes	Yes		75n	0	15	11.0	4.0	400m	4	8	40-13B	DIP14b
28♦	MM54HCT74J(A)	CMS	2	18M	Yes	Yes		52n	0.5	7.0	2.0	0.8	500m	5	C	74-74N	DIP14a
29	PC74HCT74T	CMS	2	18M	Yes	Yes		53n	0	5.0	2.0	0.8	300m	4	C	74-74	FP147
30▼	HD74HC74FP	CMS	2	20M	Yes	Yes		14n	0	5.0	3.15	1.35	500m	4	8	74-74N	FP161
31▼	HD74HC74P	CMS	2	20M	Yes	Yes		14n	0	5.0	3.15	1.35	500m	4	8	74-74N	DIP14a
32♦	M74HC74B1(A)	CMS	2	20M	Yes	Yes		50n	0	5.0	3.15	1.35	500m	4	8	74-74	DIP14a
33	M74HC74C1(A)	CMS	2	20M	Yes	Yes		50n	0	5.0	3.15	1.35	500m	4	8	B08-165	LC33
34♦	M74HC74F1(A)	CMS	2	20M	Yes	Yes		50n	0	5.0	3.15	1.35	500m	4	8	74-74	DIP14a
35♦	PC54HC74D(A)	CMS	2	20M	Yes	Yes		60n	0	5.0	3.15	0.9	500m	5	C	74-74	DIP14b
36♦	PC74HCT74D(A)	CMS	2	20M	Yes	Yes		50n	0	5.0	2.0	0.8	500m	4	8	74-74	DIP14b
37♦	PC74HCT74P	CMS	2	20M	Yes	Yes		53n	0	5.0	2.0	1.35	500m	4	C	74-74	DIP14b
38	TC40H074F	CMS	2	20M	Yes	Yes		72n	0	10.0	4.0	1.0	180m	4	8	54-74W	FP166
39	TC40H074P	CMS	2	20M	Yes	Yes		72n	0	10.0	4.0	1.0	300m	4	8	74-74N	MO001AA
40♦	MM54HC74J	CMS	2	21M	Yes	Yes		58n		4.5	3.15	0.9	500m	5	C	74-74N	DIP14a
41♦	MM74HCT74J(A)	CMS	2	21M	Yes	Yes		44n	0.5	7.0	2.0	0.8	500m	4	8	74-74N	DIP14a
42♦	MM74HCT74N(A)	CMS	2	21M	Yes	Yes		44n	0.5	7.0	2.0	0.8	500m	4	8	74-74N	DIP14a
43♦	SN54HC74J	CMS	2	21M	Yes	Yes		50n	0	5.0	3.15	0.9		5	C	74-74N	MO001AA
44	74HCT74D	CMS	2	22M	No	No		44n	0.5	7.0	2.0	0.8		4	8	74-74	FP147
45♦	74HCT74N	CMS	2	22M	No	No		44n		5.0	2.0	0.8		4	8	74-74	DIP14a
46♦	NJU4013BD	CMS	2	24M		Yes		170n		10	7.0	3.0	0.5	4	8	40-13	DIP14a
47♦	NJU4013BM	CMS	2	24M		Yes		170n		10	7.0	3.0	0.5	4	8	40-13	FP151
48♦	PC74HC74D(A)	CMS	2	24M	Yes	Yes		50n	0	5.0	3.15	0.9	500m	4	8	74-74	DIP14b
49♦	PC74HC74P	CMS	2	24M	Yes	Yes		50n	0	5.0	3.15	0.9	500m	4	8	74-74	DIP14b
50	PC74HC74T	CMS	2	24M	Yes	Yes		50n	0	5.0	3.15	0.9	300m	4	8	74-74	FP147
51	883C4013B	CMS	2	25M	Yes	Yes		90n	0	15	8.2	6.7	300m	5	C	40-13B	MO001AA
52♦	5474DM	TTL	2	25M†	Yes	Yes		40n	0	5.0	2.0	0.8	43m	5	C	74-74N	TO-116
53	5474FM	TTL	2	25M†	Yes	Yes		40n	0	5.0	2.0	0.8	43m	5	C	54-74W	FP52
54♦	7474DC	TTL	2	25M†	Yes	Yes		40n	0	5.0	2.0	0.8	43m	0	7	74-74N	TO-116
55♦	7474PC	TTL	2	25M†	Yes	Yes		40n	0	5.0	2.0	0.8	43m	0	7	74-74N	DIP14a
56	BCL4013B	CMS	2	25M	Yes	Yes		90n	0	15	8.2	6.7	300m	5	C	40-13B	MO001AA
57♦	DM54ALS876J	TTL	2	25M	No	Yes		15n	0	5.0	2.0	0.8		5	C	74AS876	DIP24a
58▼	HD74LS74AG	TTL	2	25M	Yes	Yes		40n	0	5.0	2.0	0.8	400m	2	7	74-74N	DIP14a
59♦	HD74LS74AP	TTL	2	25M	Yes	Yes		40n	0	5.0	2.0	0.8	400m	2	7	74-74N	DIP14a
60♦	M53274P	TTL	2	25M†	Yes	Yes		24n	0	5.0	2.0	0.8	42m†	0	7	74-74N	DIP14a
61♦	MB74LS74A	TTL	2	25M	Yes	Yes		40n	0	5.0	2.0	0.8	40m	2	7	74-74N	DIP14a
62♦	MB74LS74AM	TTL	2	25M	Yes	Yes		40n	0	5.0	2.0	0.8	40m	2	7	74-74N	DIP14a
63♦	MB420	TTL	2	25M	Yes	Yes		10n	0	5.0	2.0	0.8	68m†	0	7	74-74N	DIP14b
64♦	MB420M	TTL	2	25M	Yes	Yes		10n	0	5.0	2.0	0.8	68m†	0	7	74-74N	DIP14b
65♦	MM74HC74J	CMS	2	25M	Yes	Yes		49n	0.5	7.0	4.2	1.2	500m	4	8	74-74N	DIP14a
66♦	MM74HC74N	CMS	2	25M	Yes	Yes		49n	0.5	7.0	4.2	1.2	500m	4	8	74-74N	DIP14a
67	N74LS74AD	TTL	2	25M	Yes	Yes		40n	0.5	7.0	2.0	0.8		0	7	74-74N	FP147
68♦	N74LS74AF	TTL	2	25M	Yes	Yes		40n	0	5.0	2.0	0.8	40m	0	7	74-74N	DIP14b
69♦	N74LS74AN	TTL	2	25M	Yes	Yes		40n	0.5	7.0	2.0	0.8	40m	0	7	74-74N	DIP14a
70♦	N8828A	TTL	2	25M†	Yes	Yes		24n	0	5.0	2.6	0.4C	52m	0	7	74-74N	TO-116
71♦	N8828F	TTL	2	25M†	Yes	Yes		24n	0	5.0	2.6	0.4C	52m	0	7	74-74N	DIP14a
72♦	N8828J	TTL	2	25M†	Yes	Yes		24n	0	5.0	2.6	0.4C	52m	0	7	54-74W	TO-88
73♦	S54LS74AF	TTL	2	25M	Yes	Yes		40n	0.5	7.0	2.0	0.7		5	C	74-74N	DIP14b
74	S54LS74AG	TTL	2	25M	Yes	Yes		40n	0.5	7.0	2.0	0.7		5	C	74-74N	LC24
75	S54LS74AW	TTL	2	25M	Yes	Yes		40n	0.5	7.0	2.0	0.7		5	C	54S74W	FP153
76♦	S54LS74F	TTL	2	25M	Yes	Yes		40n	0	5.0	2.0	0.7	40m	5	C	74-74N	DIP14b
77	S54LS74W	TTL	2	25M	Yes	Yes		40n	0	5.0	2.0	0.7	40m	5	C	54S74W	FP39e
78♦	S8828A	TTL	2	25M†	Yes	Yes		24n	0	5.0	2.6	0.4C	52m	5	C	74-74N	TO-116
79♦	S8828F	TTL	2	25M†	Yes	Yes		24n	0	5.0	2.6	0.4C	52m	5	C	74-74N	DIP14a
80♦	S8828J	TTL	2	25M†	Yes	Yes		24n	0	5.0	2.6	0.4C	52m	5	C	54-74W	TO-88
81♦	SFC474E	TTL	2	25M†	Yes	Yes		40n	0	5.25	2.0	0.8	43m	0	7	74-74N	TO-116
82♦	SFC474EM	TTL	2	25M†	Yes	Yes		40n	0	5.5	2.0	0.8	43m	5	C	74-74N	TO-116
83♦	SFC474ET	TTL	2	25M†	Yes	Yes		40n	0	5.25	2.0	0.8	43m	2	8	74-74N	TO-116
84♦	SFC474PM	TTL	2	25M†	Yes	Yes		40n	0	5.0	2.0	0.8		5	C	54-74W	TO-85
85▼	SN74ALS879ADW	TTL	2	25M	Yes	No	TS	16n	0	5.0	2.0	0.8		0	7	74ALS879	FP170
86▼	SN74ALS879AFN	TTL	2	25M	Yes	No	TS	16n	0	5.0	2.0	0.8		0	7	B08-199	LC20a
87▼	SN74ALS879ANT	TTL	2	25M	Yes	No	TS	16n	0	5.0	2.0	0.8		0	7	74ALS879	DIP24e
88▼	SN74HC74D	CMS	2	25M	Yes	Yes		44n	0	5.0	3.15	0.9		4	8	74-74N	FP147
89♦	SN74HC74N	CMS	2	25M	Yes	Yes		44n	0	5.0	3.15	0.9		4	8	74-74N	MO001AA
90♦	SN7474N	TTL	2	25M	Yes	Yes		40n	0	7.0	2.0	0.8	43m	0	7	74-74N	DIP14a
91♦	TC74HC74P	CMS	2	25M	Yes	Yes		32n	0	5.0	3.15	1.35	500m	4	8	74-74N	DIP14a
92	74HC74D	CMS	2	28M	No	No		43n		5.0	3.15	1.35		4	8	74-74	FP147
93♦	74HC74N	CMS	2	28M	No	No		43n		5.0	3.15	1.35		4	8	74-74	DIP14a
94	DM75L12W	TTL	2	28M	Yes	No		35n	0	0	2.0	0.7		5	C	75-11N	FP98b
95♦	HEF4013BD	CMS	2	28M†	Yes	Yes		90n	0	10	8.0	2.0	500m	4	8	40-13B	DIP14a
96♦	HEF4013BP	CMS	2	28M†	Yes	Yes		90n	0	10	8.0	2.0	500m	4	8	40-13B	DIP14a
97♦	HEF4013BT	CMS	2	28M†	Yes	Yes		90n	0	10	8.0	2.0	400m	4	8	40-13B	FP147
98♦	DM54ALS74AJ	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.8		5	C	74-74	DIP14a
99♦	M74ALS878P	TTL	2	30M			TS	17n	0.5	7.0	2.0	0.8		2	7	74ALS878	DIP24e
100♦	M74ALS879P	TTL	2	30M			TS	17n	0.5	7.0	2.0	0.8		2	7	74ALS879	DIP24e
101♦	MC54HC74J(A)	CMS	2	30M	Yes	Yes		30n	0.5	7.0	3.15	0.9	500m	5	C	74-74N	DIP14a
102♦	MC74HC74J(A)	CMS	2	30M	Yes	Yes		30n	0.5	7.0	3.15	0.9	500m	4	8	74-74N	DIP14a
103♦	MC74HC74N(A)	CMS	2	30M	Yes	Yes		30n	0.5	7.0	3.15	0.9	500m	4	8	74-74N	DIP14a
104▼	MC3060L	TTL	2	30M†	Yes	Yes		17n	0	5.0	2.5	0.4C	120m†	0	7	74-74N	TO-116
105▼	MC3060P	TTL	2	30M†	Yes	Yes		17n	0	5.0	2.5	0.4C	120m†	0	7	74-74N	DIP14a
106♦	MC3160F	TTL	2	30M	Yes	Yes		17n	0	5.0	2.4	0.4C	120m	5	C	74-74N	TO-86
107♦	MC3160L	TTL	2	30M†	Yes	Yes		17n	0	5.0	2.4	0.4C	120m†	5	C	74-74N	TO-116
108♦	SN54ALS74AJ	TTL	2	30M	Yes	Yes		23n	0	5.0	2.0	0.7	12m†	5	C	74-74	DIP14a
109▼	SN74ALS874BFN	TTL	2	30M	Yes	No	TS	14n	0.0	5.0	2.0	0.8		0	7	B08-194	LC20a
110▼	SN74ALS876AFN	TTL	2	30M	No	Yes	TS	14n	0.0	5.0	2.0	0.8		0	7	B08-195	LC20a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1▼	SN74ALS878ADW	TTL	2	30M	Yes	No	TS	16n	0.0	5.0	2.0	0.8		0	7	74ALS878	FP170
2▼	SN74ALS878AFN	TTL	2	30M	Yes	No	TS	16n	0.0	5.0	2.0	0.8		0	7	B08-197	LC20a
3▼	SN74ALS878ANT	TTL	2	30M	Yes	No	TS	16n	0.0	5.0	2.0	0.8		0	7	74ALS878	DIP24e
4♦	US74HCT74N(A)	CMS	2	30M	Yes	Yes		46n	0	5.0	2.0	0.8	500m	4	8	74-74N	DIP14 ☑
5♦	M74HC74P	CMS	2	32M	Yes	Yes		30n	0	6.0	4.2	1.8		4	8	74-74	DIP14a
6♦	DM54LS74AJ	TTL	2	33M	Yes	Yes		35n	0	5.0	2.0	0.7		5	C	74-74	DIP14a
7♦	DM74LS74AN	TTL	2	33M	Yes	Yes		35n	0	5.0	2.0	0.8		0	7	74-74	DIP14a
8♦	DN74LS74AP1	TTL	2	33M	Yes	Yes		40n	0.5	7.0	2.0	0.8	400m	2	7	74-74	DIP14a
9	DN74LS74AP4	TTL	2	33M	Yes	Yes		40n	0.5	7.0	2.0	0.8	400m	2	7	74-74	FP177
10♦	SN54LS74AJ	TTL	2	33M	Yes	Yes		40n	0	7.0	2.0	0.7		5	C	74-74	DIP14a
11▼	SN54LS74AN	TTL	2	33M	Yes	Yes		40n	0	7.0	2.0	0.7		5	C	74-74	DIP14a
12	SN74LS74AD	TTL	2	33M	Yes	Yes		40n	0	7.0	2.0	0.8		0	7	74-74	FP147
13♦	SN74LS74AJ	TTL	2	33M	Yes	Yes		40n	0	7.0	2.0	0.8		0	7	74-74N	DIP14a
14♦	SN74LS74AN	TTL	2	33M	Yes	Yes		40n	0	7.0	2.0	0.8		0	7	74-74N	DIP14a
15♦	DM74ALS74AJ	TTL	2	34M	Yes	Yes		18n	0	5.0	2.0	0.8		0	7	74-74	DIP14a
16♦	DM74ALS74AN	TTL	2	34M	Yes	Yes		18n	0	5.0	2.0	0.8		0	7	74-74	DIP14a
17♦	M74ALS74AP	TTL	2	34M	Yes	Yes		18n	0	5.0	2.0	0.8		2	7	74-74	DIP14a
18♦	M74ALS74P	TTL	2	34M	Yes	Yes		11n	0	5.0	2.0	0.8	22m	2	7	74-74N	DIP14a
19▼	SN74ALS74AD	TTL	2	34M	Yes	Yes		18n	0	5.0	2.0	0.8	12m†	0	7	74-74	FP147
20♦	SN74ALS74AN	TTL	2	34M	Yes	Yes		18n	0	5.0	2.0	0.8	12m†	0	7	74-74	DIP14a
21♦	54H74DM	TTL	2	35M†	Yes	Yes		30n	0	5.0	2.0	0.8	150m†	5	C	74-74N	TO-116
22	54H74FM	TTL	2	35M†	Yes	Yes		30n	0	5.0	2.0	0.8	150m†	5	C	54-74W	FP21h
23♦	74H74DC	TTL	2	35M†	Yes	Yes		30n	0	5.0	2.0	0.8	150m†	0	7	74-74N	TO-116
24♦	74H74PC	TTL	2	35M†	Yes	Yes		30n	0	5.0	2.0	0.8	125m	0	7	74-74N	DIP14a
25♦	DM5474J	TTL	2	35M†	Yes	Yes		40n	0	5.0	2.0	0.8	30mQ	5	C	74-74N	DIP14a
26	DM5474W	TTL	2	35M†	Yes	Yes		40n	0	5.0	2.0	0.8	30mQ	5	C	54-74W	FP97a
27♦	DM7474N	TTL	2	35M†	Yes	Yes		40n	0	5.0	2.0	0.8	30mQ	0	7	74-74N	DIP14a
28♦	N74H74F	TTL	2	35M	Yes	Yes		30n	0	5.0	2.0	0.8	250m	0	7	74-74N	DIP14b
29♦	N74H74N	TTL	2	35M	Yes	Yes		30n	0	5.0	2.0	0.8	250m	0	7	74-74N	DIP14a
30♦	S54H74F	TTL	2	35M	Yes	Yes		30n	0	5.0	2.0	0.8	210m	5	C	74-74N	DIP14b
31	S54H74W	TTL	2	35M	Yes	Yes		30n	0	5.0	2.0	0.8	210m	5	C	54-74W	FP39e
32♦	SFC474HE	TTL	2	35M†	Yes	Yes		30n	0	5.0	2.0	0.8	150m†	0	7	74-74N	TO-116
33♦	SFC474HEM	TTL	2	35M†	Yes	Yes		30n	0	5.0	2.0	0.8	150m†	5	C	74-74N	TO-116
34♦	SFC474HPM	TTL	2	35M†	Yes	Yes		30n	0	5.0	2.0	0.8	150m†	5	C	54-74W	TO-85
35	HEF4013BTD	CMS	2	36M	Yes	Yes		75n	0	15	11.0	4.0	200m	4	8	40-13B	FP147
36♦	MN4013B	CMS	2	36M	Yes	Yes		105n	0	15	11.0	4.0	400m	4	8	40-13B	DIP14a
37♦	LC74HC74	CMS	2	40M†	Yes			40n		5.0	3.5	1.5	0.3	4	8	74-74	DIP14a
38♦	M54HC74F1(A)	CMS	2	40M	Yes	Yes		41n	0	5.0	3.15	1.35	500m	5	C	74-74	DIP14a
39♦	UPD74HC74C(A)	CMS	2	40M	Yes	Yes		32n	0	6.0	4.2	1.2	500m	4	8	74-74N	MO001A
40♦	SN74H74N	TTL	2	43M	Yes	Yes		30n	0	7.0	2.0	0.8	125m	0	7	74-74N	DIP14a
41♦	DM75L11J	TTL	2	45M	Yes	No		20n	0	0	2.0	0.7		5	C	75-11N	DIP16a
42	DM75L11W	TTL	2	45M	Yes	No		20n	0	0	2.0	0.7		5	C	75-11N	FP98b
43♦	DM7511J	TTL	2	45M†	Yes	No		30n	0	5.0	2.0	0.8	275mQ	5	C	75-11N	DIP16a
44♦	DM7511N	TTL	2	45M†	Yes	No		30n	0	5.0	2.0	0.8	275mQ	5	C	75-11N	DIP16a
45	DM7511W	TTL	2	45M†	Yes	No		30n	0	5.0	2.0	0.8	275mQ	5	C	75-11N	FP88a
46♦	DM8511J	TTL	2	45M†	Yes	No		30n	0	5.0	2.0	0.8	275mQ	0	7	75-11N	DIP16a
47♦	DM8511N	TTL	2	45M†	Yes	No		30n	0	5.0	2.0	0.8	275mQ	0	7	75-11N	DIP16a
48	DM8511W	TTL	2	45M†	Yes	No		30n	0	5.0	2.0	0.8	275mQ	0	7	75-11N	FP88a
49▼	CD54AC74F(A)	CMS	2	50M	No	No		10n		5.0	3.85	1.65	500m	5	C	54-74W	MO001AB
50♦	CD54HC74F	CMS	2	50M	Yes	No		45n	0.5	7.0	3.15	1.35	500m	5	C	74-74N	MO001AB
51♦	CD54HCT74F(A)	CMS	2	50M	Yes	No		45n	0.5	7.0	2.0	0.8	500m	5	C	74-74N	MO001AB
52♦	CD74HC74E	CMS	2	50M	Yes	No		37n	0.5	7.0	3.15	1.35	500m	4	8	74-74N	MO001AB
53♦	CD74HC74M	CMS	2	50M	Yes	No		37n	0.5	7.0	3.15	1.35	400m	4	8	74-74N	FP147
54♦	CD74HCT74E	CMS	2	50M	Yes	No		37n	0.5	7.0	2.0	0.8	500m	4	8	74-74N	MO001AB
55♦	CD74HCT74M	CMS	2	50M	Yes	No		37n	0.5	7.0	2.0	0.8	400m	4	8	74-74N	FP147
56♦	M74LS74AP	TTL	2	50M	Yes	Yes		40n	0.5	7.0	2.0	0.8	40m	2	7	74-74N	DIP14a
57♦	MC10H131J(A)	ECL	2	50M				2.0n	5.2	0	-1.1	-1.4		0▼	7	B08-151N	DIP16a
58♦	MC10H131N(A)	ECL	2	50M				2.0n	5.2	0	-1.1	-1.4		0▼	7	B08-151N	DIP16a
59▼	TC74HC74F(A)	CMS	2	53M†	Yes	Yes		40n	0	5.0	3.15	1.35	180m	4	8	74-74N	FP166
60▼	CD74AC74E(A)	CMS	2	56M	No	No		9.0n		5.0	3.85	1.65	500m	4	8	74-74N	MS001c
61▼	CD74AC74M(A)	CMS	2	56M	No	No		9.0n		5.0	3.85	1.65	400m	4	8	74-74N	MS012b
62♦	LC4013B	CMS	2	63M	Yes	Yes		100n	3	15	3.5	1.5	240u	3	8	40-13B	DIP14a
63	N74S74D	TTL	2	75M	Yes	Yes		13n	0.5	7.0	2.0	0.8	250m	0	7	74-74N	FP147
64♦	N74S74N	TTL	2	75M	Yes	Yes		13n	0.5	7.0	2.0	0.8	250m	0	7	74-74N	DIP14a
65	S54S74W	TTL	2	75M	Yes	Yes		13n	0.5	7.0	2.0	0.8	250m	5	C	54S74W	FP153
66♦	V54ACT874DL	CMS	2	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		5	C	B08-194	LC19a
67♦	V54ACT876DL	CMS	2	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		5	C	B08-195	LC19a
68♦	V54ACT878DL	CMS	2	75M	Yes	No		14n	0	5.5	2.0	-0.5		5	C	B08-194	LC19a
69♦	V54ACT879DL	CMS	2	75M	Yes	No		14n	0	5.5	2.0	-0.5		5	C	B08-195	LC19a
70♦	V74ACT874DL	CMS	2	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-194	LC19a
71♦	V74ACT874PK	CMS	2	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-194	LC27
72♦	V74ACT876DL	CMS	2	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-195	LC19a
73♦	V74ACT876PK	CMS	2	75M	Yes	Yes		14n	0	5.5	2.0	-0.5		4	8	B08-195	LC27
74♦	V74ACT878DL	CMS	2	75M	Yes	No		14n	0	5.5	2.0	-0.5		4	8	B08-194	LC19a
75♦	V74ACT878PK	CMS	2	75M	Yes	No		14n	0	5.5	2.0	-0.5		4	8	B08-194	LC27
76♦	V74ACT879DL	CMS	2	75M	Yes	No		14n	0	5.5	2.0	-0.5		4	8	B08-195	LC19a
77♦	V74ACT879PK	CMS	2	75M	Yes	No		14n	0	5.5	2.0	-0.5		4	8	B08-195	LC27
78♦	S54F74F	TTL	2	80M	Yes	Yes		11n	0	5.0	2.0	0.8		5	C	74-74N	DIP14b
79	S54F74G	TTL	2	80M				11n	0	5.0	2.0	0.8		5	C	B08-177	LC24
80♦	DM54AS74J	TTL	2	90M	Yes	Yes		10n	0	5.0	2.0	0.8		5	C	74-74	DIP14a
81♦	SN54AS74J	TTL	2	90M	Yes	Yes		11n	0	5.0	2.0	0.8	52m†	5	C	74-74N	DIP14a
82♦	54F604DM	TTL	2	100M	No	No		10n		5.0	2.0	0.8		5	C	74-604	DIP28a
83	54F604L1M	TTL	2	100M	No	No		10n		5.0	2.0	0.8		5	C	74-604	LC19a
84♦	74F604DC	TTL	2	100M	No	No		10n		5.0	2.0	0.8		0	7	74-604	DIP28a
85	74F604L1C	TTL	2	100M	No	No		10n		5.0	2.0	0.8		0	7	74-604	LC19a
86♦	74F604PC	TTL	2	100M	No	No		10n		5.0	2.0	0.8		0	7	74-604	DIP28a
87	74F604QC	TTL	2	100M	No	No		10n		5.0	2.0	0.8		0	7	74-604	LC27
88	74F604SC	TTL	2	100M	No	No		10n		5.0	2.0	0.8		0	7	74-604	FP174
89♦	DM74AS74J	TTL	2	105M	Yes	Yes		9.0n	0	5.0	2.0	0.8		0	7	74-74	DIP14a
90♦	DM74AS74N	TTL	2	105M	Yes	Yes		9.0n	0	5.0	2.0	0.8		0	7	74-74	DIP14a
91▼	SN74AS74D	TTL	2	105M	Yes	Yes		9.0n	0	5.0	2.0	0.8	52m†	0	7	74-74N	FP147
92♦	SN74AS74N	TTL	2	105M	Yes	Yes		9.0n	0	5.0	2.0	0.8	52m†	0	7	74-74N	DIP14a
93♦	54S74DM	TTL	2	110M†	Yes	Yes		9.0n	0	5.0	2.0	0.8	150m†	5	C	74-74N	TO-116
94	54S74FM	TTL	2	110M†	Yes	Yes		9.0n	0	5.0	2.0	0.8	150m†	5	C	54S74W	FP21h
95♦	74S74DC	TTL	2	110M†	Yes	Yes		9.0n	0	5.0	2.0	0.8	150m†	0	7	74-74N	TO-116
96♦	74S74PC	TTL	2	110M†	Yes	Yes		9.0n	0	5.0	2.0	0.8	150m†	0	7	74-74N	DIP14a
97♦	DM54S74J	TTL	2	110M	Yes	Yes		16n		5.0	2.0	0.8		5	C	54S74	DIP14a
98♦	DM74S74N	TTL	2	110M†	Yes	Yes		9.0n	0	5.0	2.0	0.8	150m†	0	7	74-74N	DIP14a
99♦	SAB1801D	ECL	2	110M					5.2	0	-.81	-1.8		0	7	B08-160	DIP14 ☑
100♦	SN54S74J	TTL	2	110M	Yes	Yes		13n	0	7.0	2.0	0.8	150m†	5	C	74-74N	DIP14a
101	SN74S74D	TTL	2	110M	Yes	Yes		13n	0	7.0	2.0	0.8		0	7	74-74	FP147
102♦	SN74S74N	TTL	2	110M	Yes	Yes		13n	0	7.0	2.0	0.8	150m†	0	7	74-74N	DIP14a
103♦	54AC74DM(A)	CMS	2	125M	Yes	Yes		135n	0	5.0	2.0	0.8		5	C	74-74	DIP14a
104♦	54AC74SM(A)	CMS	2	125M	Yes	Yes		135n	0	5.0	2.0	0.8		5	C	74-74	DIP14a
105♦	54ACT74DM(A)	CMS	2	125M	Yes	Yes		135n	0	5.0	2.0	0.8		5	C	74-74	DIP14a
106♦	54ACT74SM(A)	CMS	2	125M	Yes	Yes		135n	0	5.0	2.0	0.8		5	C	74-74	DIP14a
107♦	54F74DM	TTL	2	125M†	Yes	Yes		7.0n	0	5.0	2.0	0.8		5	C	74-74N	DIP14b
108	54F74FM	TTL	2	125M†	Yes	Yes		7.0n	0	5.0	2.0	0.8		5	C	54-74W	FP115
109	54F74L1M	TTL	2	125M	Yes	Yes		7.0n	0	5.0	2.0	0.8		5	C	B08-165	LC19
110♦	74AC74DC(A)	CMS	2	125M	Yes	Yes		135n	0	5.0	2.0	0.8		4	8	74-74	DIP14a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING	
1♦	74AC74PC(A)	CMS	2	125M	Yes	Yes		135n	0	5.0	2.0	0.8		4	8	74-74	DIP14a	
2♦	74AC74SC(A)	CMS	2	125M	Yes	Yes		135n	0	5.0	2.0	0.8		4	8	74-74	FP147	
3♦	74ACT74DC(A)	CMS	2	125M	Yes	Yes		135n	0	5.0	2.0	0.8		4	8	74-74	DIP14a	
4♦	74ACT74PC(A)	CMS	2	125M	Yes	Yes		135n	0	5.0	2.0	0.8		4	8	74-74	DIP14a	
5♦	74ACT74SC(A)	CMS	2	125M	Yes	Yes		135n	0	5.0	2.0	0.8		4	8	74-74	FP147	
6♦	74F74DC	TTL	2	125M†	Yes	Yes		7.0n	0	5.0	2.0	0.8		0	7	74-74N	DIP14b	
7	74F74L1C	TTL	2	125M	Yes	Yes		7.0n	0	5.0	2.0	0.8		0	7	B08-165	LC19	
8♦	74F74PC	TTL	2	125M†	Yes	Yes		7.0n	0	5.0	2.0	0.8		0	7	74-74N	DIP14a	
9	74F74QC	TTL	2	125M	Yes	Yes		7.0n	0	5.0	2.0	0.8		0	7	B08-165	LC26	
10	74F74SC	TTL	2	125M	Yes	Yes		7.0n	0	5.0	2.0	0.8		0	7	54-74	FP147	
11♦	F10131DC	ECL	2	125M				4.5n	5.2	0	-1.1	-1.4C	291mQ	0	7	B08-105	DIP16a	
12♦	F10531DM	ECL	2	125M				4.5n	5.2	0	-1.1	-1.4C	291mQ	5	C	B08-105	DIP16a	
13♦	F10531FM	ECL	2	125M				4.5n	5.2	0	-1.1	-1.4C	291mQ	5	C	B08-105	FP103	
14♦	MC54F74J	TTL	2	125M	Yes	Yes		9.0n	0	5.5	2.0	0.8		5	C	74-74N	DIP14a	
15▼	MC54F74N	TTL	2	125M	Yes	Yes		9.0n	0	5.5	2.0	0.8		5	C	74-74N	DIP14a	
16♦	MC74F74J	TTL	2	125M	Yes	Yes		9.0n	0	5.25	2.0	0.8		0	7	74-74N	DIP14a	
17♦	MC74F74N	TTL	2	125M	Yes	Yes		9.0n	0	5.25	2.0	0.8		0	7	74-74N	DIP14a	
18▼	N74F74D	TTL	2	125M†	Yes	Yes			0	5.0	2.0	0.8		0	7	74-74	FP147	
19♦	N74F74F	TTL	2	125M†	Yes	Yes		6.8n	-.5	5.0	2.0	0.8		0	7	74-74N	DIP14a	
20♦	N74F74N	TTL	2	125M†	Yes	Yes			0	5.0	2.0	0.8		0	7	74-74	DIP14a	
21	S54F74W	TTL	2	125M†	Yes	Yes		6.8n	-.5	5.0	2.0	0.8		5	C	54-74W	FP153	
22♦	SN74AS874FN	TTL	2	125M	Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	B08-194	LC20a	
23♦	SN74AS876FN	TTL	2	125M	No	Yes	TS	11n	0.0	5.0	2.0	0.8		0	7	B08-195	LC20a	
24▼	SN74AS878DW	TTL	2	125M	Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74ALS878	FP170	
25♦	SN74AS878FN	TTL	2	125M	Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	B08-197	LC20a	
26♦	SN74AS878NT	TTL	2	125M	Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74ALS878	DIP24e	
27▼	SN74AS879DW	TTL	2	125M	Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74ALS879	FP170	
28♦	SN74AS879FN	TTL	2	125M	Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	B08-199	LC20a	
29♦	SN74AS879NT	TTL	2	125M	Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74ALS879	DIP24e	
30♦	10131F	ECL	2	160M†	Yes	Yes		5.0n	5.2	0	-1.1	-1.4C	234m	3	8	B08-33	DIP16a	
31♦	10131N	ECL	2	160M†	Yes	Yes		5.0n	5.2	0	-1.1	-1.4	234m†	3	8	B08-33	DIP16a	
32♦	GXB10131	ECL	2	160M†	Yes	Yes		3.0n	5.2	0	-1.1	-1.4	230m†	0	7	B08-33	DIP16b	
33♦	HD10131	ECL	2	160M†				5.0n	5.2	0	-1.1	-1.4C	200m	3	8	L00-117	DIP16b	
34♦	MB10131	ECL	2	160M	Yes	Yes			5.2	0	-1.1	-1.4C	235m†	0	7	B08-33	DIP16b	
35♦	MB10131M	ECL	2	160M	Yes	Yes			5.2	0	-1.1	-1.4C	235m†	0	7	B08-33	DIP16b	
36▼	MC10131FN	ECL	2	160M†	Yes	Yes		4.5n	5.2	0	-1.1	-1.4C	225m†	3	8	B08-33	DIP16a	
37♦	MC10131L	ECL	2	160M†	Yes	Yes		4.5n	5.2	0	-1.1	-1.4C	225m†	3	8	B08-33	DIP16a	
38▼	MC10131LD	ECL	2	160M†	Yes	Yes		4.5n	5.2	0	-1.1	-1.4C	225m†	3	8	B08-33	DIP16a	
39▼	MC10131LDS	ECL	2	160M†	Yes	Yes		4.5n	5.2	0	-1.1	-1.4C	225m†	3	8	B08-33	DIP16a	
40♦	MC10131P	ECL	2	160M†	Yes	Yes		4.5n	5.2	0	-1.1	-1.4C	235m†	3	8	B08-33	DIP16b	
41▼	MC10131PD	ECL	2	160M†	Yes	Yes		4.5n	5.2	0	-1.1	-1.4C	235m†	3	8	B08-33	DIP16b	
42▼	MC10131PDS	ECL	2	160M†	Yes	Yes		4.5n	5.2	0	-1.1	-1.4C	235m†	3	8	B08-33	DIP16b	
43♦	MC10531F	ECL	2	160M†	Yes	Yes		4.3n	5.2	0	-1.1	-1.4C	235m†	5	C	B08-33	FP85	
44♦	MC10531L	ECL	2	160M†	Yes	Yes		4.3n	5.2	0	-1.1	-1.4C	235m†	5	C	B08-33	DIP16b	
45♦	F95231DC	ECL	2	200M				3.7n	5.2	0	-1.1	-1.4	291mQ	0	7	B08-105	DIP16a	
46♦	10231F	ECL	2	225M†	Yes	Yes		3.7n	5.2	0	-1.1	-1.4	270m†	3	8	B08-82	DIP16a	
47♦	10231N	ECL	2	225M†	Yes	Yes		3.7n	5.2	0	-1.1	-1.4	270m†	3	8	B08-82	DIP16a	
48♦	F10231DC	ECL	2	225M†				3.3n	5.2	0	-1.1	-1.4C	338mQ	0	7	B08-106	DIP16a	
49♦	F10631DM	ECL	2	225M†				3.3n	5.2	0	-1.1	-1.4C	338mQ	5	C	B08-106	DIP16a	
50♦	F10631FM	ECL	2	225M†				3.3n	5.2	0	-1.1	-1.4C	338mQ	5	C	B08-106	FP103	
51▼	MC10231FN	ECL	2	225M†				4.5n	5.2	0	-1.1	-1.4C	270m†	3	8	B08-151	DIP16a	
52♦	MC10231L	ECL	2	225M†				4.5n	5.2	0	-1.1	-1.4C	270m†	3	8	B08-151	DIP16a	
53▼	MC10231LD	ECL	2	225M†				4.5n	5.2	0	-1.1	-1.4C	270m†	3	8	B08-151	DIP16a	
54▼	MC10231LDS	ECL	2	225M†				4.5n	5.2	0	-1.1	-1.4C	270m†	3	8	B08-151	DIP16a	
55♦	MC10231P	ECL	2	225M†				4.5n	5.2	0	-1.1	-1.4C	270m†	3	8	B08-151	DIP16b	
56▼	MC10231PD	ECL	2	225M†				4.5n	5.2	0	-1.1	-1.4C	270m†	3	8	B08-151	DIP16b	
57▼	MC10231PDS	ECL	2	225M†				4.5n	5.2	0	-1.1	-1.4C	270m†	3	8	B08-151	DIP16b	
58♦	MC10631F	ECL	2	225M†	Yes	Yes		2.0n	5.2	0	-1.1	-1.4C	270m†	5	C	B08-33	FP85	
59♦	MC10631L	ECL	2	225M†	Yes	Yes		2.0n	5.2	0	-1.1	-1.4C	270m†	5	C	B08-33	DIP16b	
60♦	HD10231	ECL	2	250M†				3.7n	5.2	0	-1.1	-1.4C	200m	3	8	L00-117	DIP16b	
61▼	MC10H131FN	ECL	2	250M				2.0n	5.2	0	-1.1	-1.4	235m†	0	7	B08-151	DIP16a	
62♦	MC10H131L	ECL	2	250M				2.0n	5.2	0	-1.1	-1.4	235m†	0	7	B08-151	DIP16a	
63▼	MC10H131LD	ECL	2	250M				2.0n	5.2	0	-1.1	-1.4	235m†	0	7	B08-151	DIP16a	
64▼	MC10H131LDS	ECL	2	250M				2.0n	5.2	0	-1.1	-1.4	235m†	0	7	B08-151	DIP16a	
65♦	MC10H131P	ECL	2	250M				2.0n	5.2	0	-1.1	-1.4	235m†	0	7	B08-151	DIP16b	
66▼	MC10H131PD	ECL	2	250M				2.0n	5.2	0	-1.1	-1.4	235m†	0	7	B08-151	DIP16b	
67▼	MC10H131PDS	ECL	2	250M				2.0n	5.2	0	-1.1	-1.4	235m†	0	7	B08-151	DIP16b	
68♦	MC10131J	ECL	2	250M	Yes	Yes		2.0n	5.2	0	-1.1	-1.4		0	7	B08-33	DIP16	
69♦	MC10131N	ECL	2	250M	Yes	Yes		2.0n	5.2	0	-1.1	-1.4		0	7	B08-33	DIP16	
70	SH133C01	ECL	2	1G				1.2n	5.2	0	-1.1	-1.4				B08-176	FP	☑
71▼	SP9131DG	ECL	2	1.2G	Yes	Yes	OE	2.0n	5.2	0	-1.1	-1.4	364m	3	8	B08-33	DIP16a	
72▼	SP9131LC	ECL	2	1.2G	Yes	Yes	OE	2.0n	5.2	0	-1.1	-1.4	364m	3	8	B08-33	LC24	
73	10G021A-F	GA	2	2G				1.0n	6.0	1.0	-0.8	-1.7	200m	5	C	B08-202	FP185	
74♦	10G021A-L	GA	2	2G				1.0n	6.0	1.0	-0.8	-1.7	200m	5	C	B08-206	LC31	
75♦	10G021A2F	ECL	2	2.3G	Yes	Yes		750p	5.2	1.0	-1.1	-1.4	1.1	0	8	BO8-210	FP172	
76♦	10G021A2L	ECL	2	2.3G	Yes	Yes		750p	5.2	1.0	-1.1	-1.4	1.1	0	8	BO8-210	LC31	
77♦	F100131DC	ECL	3					3.1n	5.2	0.5	-1.1	-1.4	670mQ	0	7	B08-107	DIP24c	
78♦	F100131FC	ECL	3					2.7n	5.2	0	-1.1	-1.4	670mQ	0	7	B08-107	FP126	
79♦	HD100131	ECL	3	300M				2.8n	5.2	0	-1.1	-1.4	40m†	0	8	B08-107	DIP24d	
80♦	HD100131F	ECL	3	300M				2.7n	5.2	0	-1.1	-1.4	40m†	0	8	B08-107	FP146	
81♦	100131F	ECL	3	350M†	Yes	Yes		2.3n	5.2	0	-1.1	-1.4	495m†	0	8	B08-107	DIP24d	
82♦	100131Y	ECL	3	350M†	Yes	Yes		2.3n	5.2	0	-1.1	-1.4	495m†	0	8	B08-107	FP173	
83♦	100131AF	ECL	3	400M				2.0n	5.2	0	-1.1	-1.4C	495m†	0	8	B08-107	DIP24d	
84♦	100131AY	ECL	3	400M				1.8n	5.2	0	-1.1	-1.4C	495m†	0	8	B08-107	FP173	
85♦	100131D	ECL	3	400M				1.5n	5.2	0	-1.1	-1.4		0	8	B08-107	DIP24d	
86♦	HXA100131D	ECL	3	400M				1.3n	5.2	0	-1.1	-1.4	430m	0	8	B08-107	DL	☑
87♦	HXA100131F	ECL	3	400M				1.3n	5.2	0	-1.1	-1.4	430m	0	8	B08-107	FP	☑
88♦	AM25S08DC	TTL	4		No	No		17n		5.0	2.0	0.8		0	7	B08-212	DIP16a	
89♦	AM25S08DM	TTL	4		No	No		17n	0.5	7.0	2.0	0.8		5	C	B08-212	DIP16a	
90	AM25S08FM	TTL	4		No	No		17n	0.5	7.0	2.0	0.8		5	C	B08-212	FP101a	
91♦	AM25S08PC	TTL	4		No	No		17n	0.5	7.0	2.0	0.8		0	7	B08-212	DIP16	
92♦	AM25S09DC	TTL	4		Nb	No		17n		5.0	2.0	0.8		0	7	B08-213	DIP16a	
93♦	AM25S18DC	TTL	4		No	No		13n		5.0	2.0	0.8		0	7	B08-163	DIP16a	
94♦	AM25S18DM	TTL	4		No	No		13n		5.0	2.0	0.8		5	C	B08-163	DIP16a	
95♦	AM25S18FM	TTL	4		No	No		13n		5.0	2.0	0.8		5	C	B08-163	FP101a	
96♦	AM25S18PC	TTL	4		No	No		13n		5.0	2.0	0.8		0	7	B08-163	DIP16	
97	K155TM5	TTL	4						0	5.0	2.4	0.4		1	7	None	None	
98	K155TM7	TTL	4						0	5.0	2.4	0.4		1	7	None	None	
99♦	FZJ131	DTL	4	500k					0	12	14.3	1.0		0	7	B08-94	DIP16a	
100♦	FZJ135	HNL	4	500k				138n	0	15	7.5	4.5	720m	2	8	B08-94	DIP16a	
101♦	54LS175DM	TTL	4	2.5M	Yes	No		30n	0	5.0	2.0	0.7	225m	5	C	74-175N	DIP16a	
102	54LS175FM	TTL	4	2.5M	Yes	No		30n	0	5.0	2.0	0.7	225m	5	C	54-175W	FP93c	
103♦	54S175DM	TTL	4	2.5M	Yes	No		30n	0	5.0	2.0	0.8	225m	5	C	74-175N	DIP16a	
104	54S175FM	TTL	4	2.5M	Yes	No		30n	0	5.0	2.0	0.8	225m	5	C	54-175W	FP93c	
105♦	74LS175DC	TTL	4	2.5M	Yes	No		30n	0	5.0	2.0	0.7	225m	0	7	74-175N	DIP16a	
106	74LS175PC	TTL	4	2.5M	Yes	No		30n	0	5.0	2.0	0.7	225m	0	7	74-175N	None	
107♦	74S175DC	TTL	4	2.5M	Yes	No		30n	0	5.0	2.0	0.8	225m	0	7	74-175N	DIP16a	
108	74S175PC	TTL	4	2.5M	Yes	No		30n	0	5.0	2.0	0.8	225m	0	7	74-175N	None	
109♦	54175DM	TTL	4	2.5M	Yes	No		30n	0	5.0	2.0	0.8	225m	5	C	74-175N	DIP16a	
110	54175FM	TTL	4	2.5M	Yes	No		30n	0	5.0	2.0	0.8	225m	5	C	54-175W	FP93c	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	74175DC	TTL	4	2.5M	Yes	No		30n	0	5.0	2.0	0.8	225m	0	7	74-175N	DIP16b
2	74175PC	TTL	4	2.5M	Yes	No		30n	0	5.0	2.0	0.8	225m	0	7	74-175N	None
3♦	FCJ221(1)	DTL	4	5M†				95n	0	6.0	2.2	0.8	300m	0	7	B08-37	DIP16a
4♦	M40175BP	CMS	4	7M	Yes	No		200n	0	15	11		500m	4	8	74-175N	DIP16b
5♦	TC40175BP	CMS	4	7M	Yes	No		200n	0	15	14.9	.05C	300m	4	8	74-175N	DIP16a
6	CD40175BC	CMS	4	10M	Yes	No		50n	0	15	7.0	3.0	500m	4	8	74-175N	DL ☑
7	CD40175BM	CMS	4	10M	Yes	No		50n	0	15	7.0	3.0	500m	5	C	74-175N	DL ☑
8▼	MM54C175D	CMS	4	10M	Yes	No		75n		15	8.0	2.0	500m	5	C	74-175N	DL ☑
9	MM74C175N(1)	CMS	4	10M	Yes	No		75n		15	8.0	2.0	500m	4	8	74-175N	DL ☑
10♦	TC40H175P	CMS	4	10M	Yes	No		63n	0	5.0	4.0	1.0	300m	4	8	74-175N	DIP16a
11	CD40175BD	CMS	4	11M	Yes	No		160n	0	20.0	7.0	3.0	500m	5	C	74-175N	MO001AE
12	CD40175BE	CMS	4	11M	Yes	No		160n	0	20.0	7.0	3.0	500m	4	8	74-175N	MO001AC
13	CD40175BF	CMS	4	11M	Yes	No		160n	0	20.0	7.0	3.0	500m	5	C	74-175N	MO001AG
14	CD40175BK	CMS	4	11M	Yes	No		160n	0	20.0	7.0	3.0	500m	5	C	54-175W	MO004AG
15	CD4076BC	CMS	4	12M	Yes	No		50n	0	15	7.0	3.0	500m	4	8	74-173N	DL ☑
16	CD4076BM	CMS	4	12M	Yes	No		50n	0	15	7.0	3.0	500m	5	C	74-173N	DL ☑
17	MM54C173D(1)	CMS	4	12M	Yes	No		180n		15	8.0	2.0	500m	5	C	74-173N	DL ☑
18	MM74C173N(1)	CMS	4	12M	Yes	No		180n		15	8.0	2.0	500m	4	8	74-173N	DL ☑
19	UPD4175BG	CMS	4	14M	Yes	No		150n	0	20.0	11.0	4.0	200m	4	8	54-175	FP162
20	883C4076B	CMS	4	16M	Yes	No		90n	0	15	8.2	6.7	300n	5	C	74-173N	MO001AG
21	BCL4076B	CMS	4	16M	Yes	No		90n	0	15	8.2	6.7	300m	5	C	74-173N	MO001AG
22♦	HCF4076BE(1)	CMS	4	16M	Yes	No	TS	90n	0	15	11	4.0	200m	4	8	74-173N	DIP16a
23♦	HCF4076BF(1)	CMS	4	16M	Yes	No	TS	90n	0	15	11	4.0	200m	4	8	74-173N	None
24♦	HEF40175P(1)	CMS	4	16M†	Yes	No		40n	0	10	7.0	3.0	400uQ	4	8	74-175N	DIP16a
25	SCL4076B	CMS	4	16M	Yes	No		90n	0	15	8.2	6.7	300m	5	C	74-173N	MO001AG
26♦	SN54HC379J	CMS	4	16M	No	No		48n	0	5.0	3.15	0.9		5	C	74LS379N	DIP16a
27♦	PC54HCT175D(A)	CMS	4	17M	Yes	No		60n	0	5.0	2.0	0.8	500m	5	C	74-175	DIP16b
28♦	PC74HCT173P	CMS	4	17M	Yes	No		65n	0	5.0	2.0	0.8	500m	4	C	74-173	DIP16b
29	PC74HCT173T	CMS	4	17M	Yes	No		65n	0	5.0	2.0	0.8	300m	4	C	74-173	FP148
30	PC74HCT175T	CMS	4	17M	Yes	No		50n	0	5.0	2.0	0.8	300m	4	C	74-175	FP148
31♦	PC74HC173P	CMS	4	18M	Yes	No		68n	0	5.0	3.15	1.35	500m	4	C	74-173	DIP16b
32	PC74HC173T	CMS	4	18M	Yes	No		68n	0	5.0	3.15	1.35	300m	4	C	74-173	FP148
33	74HCT173D	CMS	4	20M	Yes	No		54n	0.5	7.0	2.0	0.8		4	8	74-173	FP162
34♦	74HCT173N	CMS	4	20M	Yes	No		54n	0.5	7.0	2.0	0.8		4	8	74-173	DIP16b
35	74HCT175D	CMS	4	20M	Yes	No		48n	0.5	7.0	2.0	0.8		4	8	74-175	FP162
36♦	74HCT175N	CMS	4	20M	Yes	No		48n	0.5	7.0	2.0	0.8		4	8	74-175	DIP16b
37♦	DM7613J(1)	TTL	4	20M	Yes	No		33n		5.0	2.0	0.8		5	C	B08-156	DIP16a
38♦	M74HC175B1(A)	CMS	4	20M	Yes	No		44n	0	5.0	3.15	1.35	500n	4	8	74-175	DIP16a
39	M74HC175C1(A)	CMS	4	20M	Yes	No		44n	0	5.0	3.15	1.35	500n	4	8	B08-167	LC33
40♦	M74HC175F1(A)	CMS	4	20M	Yes	No		44n	0	5.0	3.15	1.35	500n	4	8	74-175	DIP16b
41♦	PC54HC175D(A)	CMS	4	20M	Yes	No		53n	0	5.0	3.15	0.9	500m	5	C	74-175	DIP16b
42♦	PC74HCT175D(A)	CMS	4	20M	Yes	No		50n	0	5.0	2.0	0.8	500m	4	8	74-175	DIP16b
43♦	PC74HCT175P	CMS	4	20M	Yes	No		53n	0	5.0	2.0	1.35	500m	4	C	74-175	DIP16b
44▼	SN74HC379D	CMS	4	20M	No	No		40n	0	5.0	3.15	0.9		4	8	74LS379N	FP162
45♦	SN74HC379N	CMS	4	20M	No	No		40n	0	5.0	3.15	0.9		4	8	74LS379N	DIP16a
46▼	HD74HC173FP	CMS	4	21M	Yes	No	TS	14n	0	5.0	3.15	1.35	500m	4	8	74-173N	FP162
47▼	HD74HC173P	CMS	4	21M	Yes	No	TS	14n	0	5.0	3.15	1.35	500m	4	8	74-173N	DIP16a
48♦	MM54HC173J	CMS	4	21M	Yes	No	TS	57n	0.5	7.0	4.2	1.2	500m	5	C	74-173N	DIP16a
49♦	SN54HC175J	CMS	4	21M	Yes	No		45n	0	5.0	3.15	0.9		5	C	74-175N	DIP16a
50♦	CD54HC175F	CMS	4	23M	Yes			45n	0.5	7.0	3.15	1.35	500m	5	C	74-175N	MS001a
51♦	CD54HCT175F	CMS	4	23M	Yes	No		45n	0.5	7.0	2.0	0.8	500m	5	C	74-175N	MS001a
52▼	HD74HC175FP	CMS	4	24M	Yes	No		14n	0	5.0	3.15	1.35	500m	4	8	74-175N	FP162
53▼	HD74HC175P	CMS	4	24M	Yes	No		14n	0	5.0	3.15	1.35	500m	4	8	74-175N	DIP16a
54♦	MM54HC175J	CMS	4	24M	Yes	No		38n	0.5	7.0	4.2	1.2	500m	5	C	74-175N	DIP16a
55♦	PC74HC175D(A)	CMS	4	24M	Yes	No		44n	0	5.0	3.15	0.9	500m	4	8	74-175	DIP16b
56♦	PC74HC175P	CMS	4	24M	Yes	No		44n	0	5.0	3.15	0.9	500m	4	8	74-175	DIP16b
57	PC74HC175T	CMS	4	24M	Yes	No		44n	0	5.0	3.15	0.9	300m	4	8	74-175	FP148
58♦	AM25LS08DM	TTL	4	25M	No	No		35n		5.0	2.0	0.7		5	C	B08-211	DIP16b
59♦	AM25LS08FM	TTL	4	25M	No	No		35n		5.0	2.0	0.7		5	C	B08-211	FP101a
60♦	AM25LS2519DM	TTL	4	25M	Yes	No		58n		5.0	2.0	0.7		5	C	B08-214	DIP20b
61♦	AM25LS2519FM	TTL	4	25M	Yes	No		58n		5.0	2.0	0.7		5	C	B08-214	FP143
62♦	AM25LS2519LM	TTL	4	25M	Yes	No		58n		5.0	2.0	0.7		5	C	B08-214	LC17
63♦	MC54HC175J(A)	CMS	4	25M	Yes	No		36n	0	5.0	3.2	1.1	500m	5	C	74-175N	DIP16 ☑
64♦	MC74HC175J	CMS	4	25M	Yes	No		36n	0	5.0	3.2	1.1	500m	4	8	74-175N	DIP16 ☑
65♦	MC74HC175N(A)	CMS	4	25M	Yes	No		36n	0	5.0	3.2	1.1	500m	4	8	74-175N	DIP16 ☑
66♦	MM74HC173J	CMS	4	25M	Yes	No	TS	48n	0.5	7.0	4.2	1.2	500m	4	8	74-173N	DIP16a
67♦	MM74HC173N	CMS	4	25M	Yes	No	TS	48n	0.5	7.0	4.2	1.2	500m	4	8	74-173N	DIP16a
68♦	N74173F	TTL	4	25M	Yes	No		43n	0	5.0	2.0	0.8		0	7	74-173N	DIP16a
69♦	N74173N	TTL	4	25M	Yes	No		43n	0.5	7.0	2.0	0.8		0	7	74-173N	DIP16a
70♦	N74175N	TTL	4	25M	Yes	No		35n	0.5	7.0	2.0	0.8		0	7	74-175N	DIP16a
71♦	S54175F	TTL	4	25M	Yes	No		35n	0.5	7.0	2.0	0.8		5	C	74-175N	DIP16b
72	S54175W	TTL	4	25M	Yes	No		35n	0.5	7.0	2.0	0.8		5	C	54-175W	FP154
73▼	SN74HC173D	CMS	4	25M	Yes	No	TS	38n	0.0	5.0	3.15	0.9		4	8	74-173	FP162
74▼	SN74HC173N	CMS	4	25M	Yes	No	TS	38n	0.0	5.0	3.15	0.9		4	8	74-173	DIP16b
75▼	SN74HC175D	CMS	4	25M	Yes	No		40n	0	5.0	3.15	0.9		4	8	74-175N	FP162
76♦	SN74HC175N	CMS	4	25M	Yes	No		40n	0	5.0	3.15	0.9		4	8	74-175N	DIP16a
77	74HC173D	CMS	4	26M	Yes	No		48n		5.0	3.15	1.35		4	8	74-173	FP162
78♦	74HC173N	CMS	4	26M	Yes	No		48n		5.0	3.15	1.35		4	8	74-173	DIP16b
79	74HC175D	CMS	4	28M	Yes	No		37n		5.0	3.15	1.35		4	8	74-175	FP162
80♦	74HC175N	CMS	4	28M	Yes	No		37n		5.0	3.15	1.35		4	8	74-175	DIP16b
81♦	MM74HC175J	CMS	4	28M	Yes	No		32n	0.5	7.0	4.2	1.2	500m	4	8	74-175N	DIP16a
82♦	MM74HC175N	CMS	4	28M	Yes	No		32n	0.5	7.0	4.2	1.2	500m	4	8	74-175N	DIP16a
83♦	CD74HC175E	CMS	4	29M	Yes	No		37n	0.5	7.0	3.15	1.35	500m	4	8	74-175N	MS001a
84♦	CD74HC175M	CMS	4	29M	Yes	No		37n	0.5	7.0	3.15	1.35	400m	4	8	74-175N	MS012c
85♦	CD74HCT175E	CMS	4	29M	Yes	No		37n	0.5	7.0	2.0	0.8	500m	4	8	74-175N	MS001a
86♦	CD74HCT175M	CMS	4	29M	Yes	No		37n	0.5	7.0	2.0	0.8	400m	4	8	74-175N	MS012c
87♦	AM25LS08DC	TTL	4	30M	No	No		30n		5.0	2.0	0.8		0	7	B08-211	DIP16b
88♦	AM25LS08PC	TTL	4	30M	No	No		30n		5.0	2.0	0.8		0	7	B08-211	DIP16
89♦	AM25LS2519DC	TTL	4	30M	Yes	No		52n		5.0	2.0	0.8		0	7	B08-214	DIP20b
90♦	AM25LS2519LC	TTL	4	30M	Yes	No		52n		5.0	2.0	0.8		0	7	B08-214	LC17
91♦	AM25LS2519PC	TTL	4	30M	Yes	No		52n		5.0	2.0	0.8		0	7	B08-214	DIP20b
92♦	AM29LS18DC	TTL	4	30M			TS	35n	0	5.0	2.0	0.8		0	7	B08-161	DIP16a
93♦	AM29LS18PC	TTL	4	30M			TS	35n	0	5.0	2.0	0.8		0	7	B08-161	DIP16
94♦	DM76L13J(1)	TTL	4	30M				24n	0	0	2.0	0.7		5	C	B08-156	DIP16a
95	DM76L13W	TTL	4	30M				24n	0	0	2.0	0.7		5	C	B08-156	FP98b
96♦	DM86L13N(1)	TTL	4	30M				24n	0	0	2.0	0.7		0	7	B08-156	DIP16a
97	DM7613W(1)	TTL	4	30M				24n	0	0	2.0	0.7		5	C	B08-156	FP98b
98♦	DM8613N(1)	TTL	4	30M				24n	0	0	2.0	0.8		0	7	B08-156	DIP16a
99♦	DM54175J(1)	TTL	4	30M	Yes	No		25n		5.0	2.0	0.8		5	C	B08-93	DIP16a
100♦	DN74LS173P1	TTL	4	30M	No	No		35n		5	2.0	0.8		2	7	74-173	DIP16a
101♦	DN74LS173P2	TTL	4	30M	No	No		35n		5	2.0	0.8		2	7	74-173	DIP16 ☑
102▼	HD74LS175G	TTL	4	30M	Yes	No		35n	0	5.0	2.0	0.8	400m	2	7	74-175N	DIP16a
103▼	HD74LS175P	TTL	4	30M	Yes	No		35n	0	5.0	2.0	0.8	400m	2	7	74-175N	DIP16a
104♦	HEF40175BD(1)	CMS	4	30M†	Yes	No		70n	0	10	7.0	3.0	500m	4	8	74-175N	DIP16b
105♦	HEF40175BP(1)	CMS	4	30M†	Yes	No		70n	0	10	7.0	3.0	500m	4	8	74-175N	DIP16b
106	HEF40175BT	CMS	4	30M	Yes	No		70n	0	15	7.0	2.0	200m	4	8	54-175W	FP148
107▼	HEF40175BT(1)	CMS	4	30M†	Yes	No		70n	0	10	7.0	3.0	500m	4	8	74-175N	FP148
108♦	MB74LS175	TTL	4	30M	Yes	No		35n	0	5.0	2.0	0.8	90m	2	7	74-175N	DIP16a
109♦	MB74LS175M	TTL	4	30M	Yes	No		35n	0	5.0	2.0	0.8	90m	2	7	74-175N	DIP16b
110♦	MC54HC173J	CMS	4	30M	Yes	No	TS	31n	0.5	7.0	3.15	0.9	500m	5	C	74-173	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	3 TYPE NUMBER	TECH	1 CKTS PER PKG	2 f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING	
1♦	MC74HC173J	CMS	4	30M	Yes	No	TS	31n	0.5	7.0	3.15	0.9	500m	4	8	74-173	DIP16a	
2♦	MC74HC173N	CMS	4	30M	Yes	No	TS	31n	0.5	7.0	3.15	0.9	500m	4	8	74-173	DIP16b	
3	N74LS173D	TTL	4	30M	Yes	No		30n	0.5	7.0	2.0	0.8		0	7	54-173	FP148	
4♦	N74LS173F	TTL	4	30M	Yes	No		25n	0	5.0	2.0	0.8		0	7	74-173N	DIP16a	
5♦	N74LS173N	TTL	4	30M	Yes	No		30n	0.5	7.0	2.0	0.8		0	7	74-173N	DIP16a	
6	N74LS175D	TTL	4	30M	Yes	No		25n	0.5	7.0	2.0	0.8		0	7	74-175N	FP148	
7♦	N74LS175N	TTL	4	30M	Yes	No		25n	0.5	7.0	2.0	0.8		0	7	74-175N	DIP16a	
8♦	S54LS173F	TTL	4	30M	Yes	No		30n	0.5	7.0	2.0	0.7		5	C	74-173N	DIP16b	
9	S54LS173G	TTL	4	30M	Yes	No		30n	0.5	7.0	2.0	0.7		5	C	54-173	LC24	
10	S54LS173W	TTL	4	30M	Yes	No		30n	0.5	7.0	2.0	0.7		5	C	54-173W	FP154	
11♦	S54LS175F	TTL	4	30M	Yes	No		25n	0.5	7.0	2.0	0.7		5	C	74-175N	DIP16b	
12	S54LS175G	TTL	4	30M				25n	0.5	7.0	2.0	0.7		5	C	B08-178	LC24	
13	S54LS175W	TTL	4	30M	Yes	No		25n	0.5	7.0	2.0	0.7		5	C	54-175W	FP154	
14♦	SN74LS171N	TTL	4	30M				40n	0	7.0	2.0	0.8		0	7	74LS171	DIP16a	
15♦	N8T10N	TTL	4	35M			TS	35n	0	5.0	2.0	0.8		0	7	B08-200	DIP16a	
16♦	N74175F	TTL	4	35M	Yes	No		30n	0	5.0	2.0	0.8		0	7	74-175N	DIP16a	
17♦	SN54175J(1)	TTL	4	35M	Yes	No		35n	0	7.0	2.0	0.8		5	C	74-175	DIP16a	
18	SN54175W(1)	TTL	4	35M	Yes	No		35n	0	7.0	2.0	0.8		5	C	54-175	FP101	
19♦	SN74175N(1)	TTL	4	35M	Yes	No		35n	0	7.0	2.0	0.8		0	7	74-175	DIP16a	
20♦	DM54LS175J	TTL	4	40M	Yes	No		36n	0	5.0	2.0	0.7		5	C	74-175	DIP16a	
21♦	DM54LS175W	TTL	4	40M	Yes	No		29n	0	5.0	2.0	0.8	14m	5	C	54-175W	FP98b	
22♦	DN74LS175P2	TTL	4	40M	Yes	No		40n	0.5	7.0	2.0	0.8	400m	2	7	74-175	DIP16a	
23	DN74LS175P5	TTL	4	40M	Yes	No		40n	0.5	7.0	2.0	0.8	400m	2	7	74-175	FP178	
24♦	N74LS175F	TTL	4	40M	Yes	No		25n	0	5.0	2.0	0.8		0	7	74-175N	DIP16a	
25♦	SN54ALS175J	TTL	4	40M	Yes	No		24n	0	5.0	2.0	0.7		5	C	74-175N	DIP16a	
26♦	SN54LS175J	TTL	4	40M	Yes	No		35n	0	5.5	2.0	0.7		5	C	74-175N	DIP16a	
27▼	SN54LS175N(2)	TTL	4	40M	Yes	No		35n	0	5.5	2.0	0.7		5	C	74-175N	DIP16a	
28♦	SN54LS379J	TTL	4	40M				27n	0	7.0	2.0	0.7	40m†	5	C	74LS379	DIP16a	
29♦	SN54LS379N	TTL	4	40M†	Yes	No		27n		5.0	2.0	0.7		5	C	54LS379	DIP16b	
30	SN74LS175D	TTL	4	40M	Yes	No		30n	0	7.0	2.0	0.8		0	7	74-175	FP148	
31♦	SN74LS175J	TTL	4	40M	Yes	No		35n	0	5.25	2.0	0.8		0	7	74-175N	DIP16a	
32♦	SN74LS175N	TTL	4	40M	Yes	No		35n	0	5.25	2.0	0.8		0	7	74-175N	DIP16b	
33	SN74LS379D	TTL	4	40M				27n	0	7.0	2.0	0.8	40m†	0	7	74LS379	FP148	
34♦	SN74LS379J	TTL	4	40M				27n	0	7.0	2.0	0.8	40m†	0	7	74LS379	DIP16a	
35♦	SN74LS379N	TTL	4	40M				27n	0	7.0	2.0	0.8	40m†	0	7	74LS379	DIP16a	
36♦	HEF40175BPN	CMS	4	45M	Yes	No		50n	0	15	11.0	4.0	400m	4	8	74-175N	DIP16b	
37	HEF40175BTD	CMS	4	45M	Yes	No		50n	0	15	11.0	4.0	200m	4	8	54-175W	FP148	
38♦	M74ALS175P	TTL	4	45M	Yes	No		24n	0.5	7.0	2.0	0.8		2	7	74-175	DIP16b	
39♦	AM25LS2518DC	TTL	4	50M			TS	38n	0	5.0	2.0	0.8		0	7	B08-163	DIP16a	
40♦	AM25LS2518LC	TTL	4	50M†			TS	38n	0	5.0	2.0	0.80		0	7	B08-163	LC17	
41♦	AM25LS2518PC	TTL	4	50M			TS	38n	0	5.0	2.0	0.8		0	7	B08-163	DIP16	
42♦	AM25LS2518XM	TTL	4	50M†			TS	45n	0	5.0	2.0	0.70		5	C	B08-163	CH138	
43♦	M74LS173AP(1)	TTL	4	50M†	Yes	No	TS	18n	0	5.0	2.0	0.8	95m†	0	7	74-173N	DL	☑
44♦	M74LS175P	TTL	4	50M	Yes	No		30n	0.5	7.0	2.0	0.8	130m	2	7	74-175N	DIP16b	
45♦	PC54HCT173D(A)	CMS	4	50M	Yes	No		26n	0	5.0	2.0	0.8	500m	5	C	74-173	DIP16b	
46♦	PC74HCT173D(A)	CMS	4	50M	Yes	No		26n	0	5.0	2.0	0.8	500m	4	8	74-173	DIP16b	
47♦	SN54LS173AJ(1)	TTL	4	50M†	Yes	No	TS	18n	0	5.0	2.0	0.8	95m†	5	C	74-173N	DL	☑
48▼	SN74ALS175D	TTL	4	50M	Yes	No		17n	0	5.0	2.0	0.8		0	7	74-175N	FP162	
49♦	SN74ALS175N	TTL	4	50M	Yes	No		17n	0	5.0	2.0	0.8		0	7	74-175N	DIP16a	
50♦	SN74LS173AN(1)	TTL	4	50M†	Yes	No	TS	18n	0	5.0	2.0	0.8	95m†	0	7	74-173N	DL	☑
51▼	TC74HC175F(A)	CMS	4	53M†	Yes	No		41n	0	5.0	3.15	1.35	180m	4	8	74-175N	FP167	
52♦	TC74HC175P	CMS	4	53M†	Yes	No		41n	0	5.0	3.15	1.35	500m	4	8	74-175N	DIP16a	
53♦	PC54HC173D(A)	CMS	4	55M	Yes	No		25n	0	5.0	3.15	0.9	500m	5	C	74-173	DIP16b	
54♦	PC74HC173D(A)	CMS	4	55M	Yes	No		25n	0	5.0	3.15	0.9	500m	4	8	74-173	DIP16b	
55▼	TC74HC173F(A)	CMS	4	55M†	Yes	No	TS	41n	0	5.0	3.15	1.35	180m	4	8	74-173N	FP167	
56▼	TC74HC173P(A)	CMS	4	55M†	Yes	No	TS	41n	0	5.0	3.15	1.35	500m	4	8	74-173N	DIP16a	
57♦	CD54HC173F	CMS	4	60M	Yes	No		51n	0.5	7.0	3.15	1.35	500m	5	C	74-173N	MO001AC	
58♦	CD54HCT173F	CMS	4	60M	Yes	No	TS	51n	0.5	7.0	2.0	0.80	500m	5	C	74-173N	MO001AC	
59♦	CD74HC173E	CMS	4	60M	Yes	No		43n	0.5	7.0	3.15	1.35	500m	4	8	74-173N	MS001a	
60♦	CD74HC173M	CMS	4	60M	Yes	No		43n	0.5	7.0	3.15	1.35	400m	4	8	74-173N	MS012c	
61♦	CD74HCT173E	CMS	4	60M	Yes	No	TS	43n	0.5	7.0	2.0	0.80	500m	4	8	74-173N	MS001a	
62♦	CD74HCT173M	CMS	4	60M	Yes	No		43n	0.5	7.0	2.0	0.8	400m	4	8	74-173N	MS012c	
63♦	UPD74HC175C(A)	CMS	4	64M	Yes	No		28n	0	4.5	3.15	0.9	500m	4	8	74-175	DIP16a	
64♦	AM25S09DM	TTL	4	65M	No	No		17n		5.0	2.0	0.8		5	C	B08-213	DIP16a	
65♦	AM25S09FM	TTL	4	65M	No	No		17n		5.0	2.0	0.8		5	C	B08-213	FP101a	
66♦	AM25S09PC	TTL	4	65M	No	No		17n		5.0	2.0	0.8		0	7	B08-213	DIP16	
67♦	DM54S175J	TTL	4	65M	Yes	No		21n		5.0	2.0	0.8		5	C	B08-93	DIP16a	
68♦	M54HC175F1(A)	CMS	4	67M	Yes	No		36n	0	5.0	3.15	1.35	500n	5	C	74-175	DIP16b	
69	N74S175D	TTL	4	75M	Yes	No		17n	0.5	7.0	2.0	0.8		0	7	74-175N	FP148	
70♦	N74S175N	TTL	4	75M	Yes	No		17n	0.5	7.0	2.0	0.8		0	7	74-175N	DIP16a	
71♦	54F379DM	TTL	4	100M	No	No		6.5n		5.0	2.0	0.8		5	C	54LS379	DIP16a	
72	54F379L1M	TTL	4	100M	No	No		6.5n		5.0	2.0	0.8		5	C	54LS379	LC19	
73♦	74F379DC	TTL	4	100M	No	No		6.5n		5.0	2.0	0.8		0	7	74LS379	DIP16a	
74	74F379L1C	TTL	4	100M	No	No		6.5n		5.0	2.0	0.8		0	7	74LS379	LC19	
75♦	74F379PC	TTL	4	100M	No	No		6.5n		5.0	2.0	0.8		0	7	74LS379	DIP16a	
76	74F379QC	TTL	4	100M	No	No		6.5n		5.0	2.0	0.8		0	7	74LS379	LC26	
77	74F379SC	TTL	4	100M	No	No		6.5n		5.0	2.0	0.8		0	7	74LS379	FP148	
78♦	DM54AS175J(A)	TTL	4	100M	Yes	No		11n	0	5.0	2.0	0.8		5	C	74-175	DIP16a	
79♦	N74F175D(A)	TTL	4	100M†	Yes	No		9.5n	0	5.0	2.0	0.8		0	7	74-175	FP148	
80♦	N74F175N(A)	TTL	4	100M†	Yes	No		9.5n	0	5.0	2.0	0.8		0	7	74-175	DIP16a	
81♦	S54F175F(A)	TTL	4	100M	Yes	No		11n	0	5.0	2.0	0.8		5	C	74-175N	DIP16b	
82	S54F175G(A)	TTL	4	100M				11n	0	5.0	2.0	0.8		5	C	B08-178	LC24	
83♦	SN74AS175N	TTL	4	100M	Yes	No	TS	14n	0	5.0	2.0	0.8		0	7	74-175N	DIP16a	
84♦	DM74AS175J(A)	TTL	4	105M	Yes	No		10n	0	5.0	2.0	0.8		0	7	74-175	DIP16a	
85♦	DM74AS175N(A)	TTL	4	105M	Yes	No		10n	0	5.0	2.0	0.8		0	7	74-175	DIP16a	
86♦	DM54S175W	TTL	4	110M	Yes	No		18n	0	5.0	2.0	0.8	75m	5	C	54-175W	FP98b	
87♦	N74S175F	TTL	4	110M	Yes	No		12n	0	5.0	2.0	0.8		0	7	74-175N	DIP16a	
88♦	SN54S175J(1)	TTL	4	110M†	Yes	No		10n	0	5.0	2.0	0.8		5	C	74-175N	DIP16a	
89	SN74S175D	TTL	4	110M	Yes	No		22n	0	7.0	2.0	0.8		0	7	74-175	FP148	
90♦	SN74S175J(1)	TTL	4	110M†	Yes	No		10n	0	5.0	2.0	0.8		0	7	74-175N	DIP16a	
91♦	SN74S175N(1)	TTL	4	110M†	Yes	No		10n	0	5.0	2.0	0.8		0	7	74-175N	DIP16a	
92	54F175L1M	TTL	4	140M	Yes	No		6.5n	0	5.0	2.0	0.8		5	C	B08-167	LC19	
93	74F175L1C	TTL	4	140M	Yes	No		6.5n	0	5.0	2.0	0.8		0	7	B08-167	LC19	
94	74F175QC	TTL	4	140M	Yes	No		6.5n	0	5.0	2.0	0.8		0	7	B08-167	LC26	
95	74F175SC	TTL	4	140M	Yes	No		6.5n	0	5.0	2.0	0.8		0	7	54-175	FP148	
96♦	MC54F175J	TTL	4	140M	Yes	No		12n	0	5.5	2.0	0.8		5	C	74-175N	DIP16a	
97▼	MC54F175N	TTL	4	140M	Yes	No		12n	0	5.5	2.0	0.8		5	C	74-175N	DIP16a	
98♦	MC74F175J	TTL	4	140M	Yes	No		12n	0	5.25	2.0	0.8		0	7	74-175N	DIP16a	
99♦	MC74F175N	TTL	4	140M	Yes	No		12n	0	5.25	2.0	0.8		0	7	74-175N	DIP16b	
100♦	54F175DM	TTL	4	150M†	Yes	No		6.5n	0	5.0	2.0	0.8		5	C	74-175N	DIP16b	
101	54F175FM	TTL	4	150M†	Yes	No		6.5n	0	5.0	2.0	0.8		5	C	54-175W	FP117	
102♦	74F175DC	TTL	4	150M†	Yes	No		6.5n	0	5.0	2.0	0.8		0	7	74-175N	DIP16b	
103♦	74F175PC	TTL	4	150M†	Yes	No		6.5n	0	5.0	2.0	0.8		0	7	74-175N	DIP16a	
104♦	100150F	ECL	6		Yes	No		1.5n	5.2	0	-1.1	-1.4	460m†	0	8	B08-147	DIP24d	
105♦	100150Y	ECL	6		Yes	No		1.3n	5.2	0	-1.1	-1.4	460m†	0	8	B08-147	FP173	
106♦	AM25S07DC	TTL	6		No	No		17n		5.0	2.0	0.8		0	7	B08-211	DIP16a	
107♦	AM25S07DM	TTL	6		No	No		17n		5.0	2.0	0.8		5	C	B08-211	DIP16a	
108♦	AM25S07FM	TTL	6		No	No		17n		5.0	2.0	0.8		5	C	B08-211	FP101a	
109♦	AM25S07PC	TTL	6		No	No		17n		5.0	2.0	0.8		0	7	B08-211	DIP16	
110♦	F100151DC	ECL	6					3.1n	5.2	0.5	-1.1	-1.4		0	8	B08-147	DIP24c	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	3 TYPE NUMBER	TECH	1 CKTS PER PKG	2 f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	F100151FC	ECL	6					2.9n	5.2	0.5	-1.1	-1.4		0	8	B08-147	FP139
2♦	HXA100150D	ECL	6					0.9n	5.2	0	-1.1	-1.4	450m	0	8	B08-147	DL ☑
3♦	HXA100150F	ECL	6					0.9n	5.2	0	-1.1	-1.4	450m	0	8	B08-147	FP ☑
4♦	M40174BP	CMS	6	2.5M	Yes	No		200n	0	15	11	4.0	500m	4	8	74-174N	DIP16b
5♦	TC40174BP	CMS	6	7M	Yes	No		200n	0	15	14.9	.05C	300m	4	8	74-174N	DIP16a
6	CD40174BC	CMS	6	10M	Yes	No		50n	0	15	7.0	3.0	500m	4	8	74-174N	DL ☑
7	CD40174BM	CMS	6	10M	Yes	No		50n	0	15	7.0	3.0	500m	5	C	74-174N	DL ☑
8	CD40174BD(1)	CMS	6	12M	Yes	No		140n	0	20	7.0	3.0	500m	5	C	74-174N	MO001AE
9	CD40174BE(1)	CMS	6	12M	Yes	No		140n	0	20	7.0	3.0	500m	4	8	74-174N	MO001AC
10	CD40174BF(1)	CMS	6	12M	Yes	No		140n	0	20	7.0	3.0	500m	5	C	74-174N	MO001AC
11	MM54C174D(1)	CMS	6	12M	Yes	No		75n		15	8.0	2.0	500m	5	C	74-174N	DL ☑
12	MM74C174N(1)	CMS	6	12M	Yes	No		75n		15	8.0	2.0	500m	4	8	74-174N	DL ☑
13	883C4174B	CMS	6	15M	Yes	No		100n	0	15	8.2	6.7	300n	5	C	74-174N	MO001AG
14	BCL4174B	CMS	6	15M	Yes	No		100n	0	15	8.2	6.7	300m	5	C	74-174N	MO001AG
15	UPD4174BG	CMS	6	15M	Yes	No		150n	0	20.0	11.0	4.0	200m	4	8	54-174	FP162
16♦	HCC40174BD	CMS	6	16M†	Yes	No		100n	0	15	11	4.0	500m	5	C	74-174N	DIP16a
17♦	HCC40174BF	CMS	6	16M†	Yes	No		100n	0	15	11	4.0	500m	5	C	74-174N	DIP16a
18	HCC40174BK	CMS	6	16M†	Yes	No		100n	0	15	11	4.0	500m	5	C	54-174W	FP131
19♦	HCF40174BE	CMS	6	16M†	Yes	No		100n	0	15	11	4.0	500m	4	8	74-174N	DIP16a
20♦	HCF40174BF	CMS	6	16M†	Yes	No		100n	0	15	11	4.0	500m	4	8	74-174N	DIP16a
21♦	HEF40174P(1)	CMS	6	16M†	Yes	No		40n	0	10	7.0	3.0	400uQ	4	8	74-174N	DIP16a
22♦	SN54HC378J	CMS	6	16M	No	No		48n	0	5.0	3.15	0.9		5	C	74LS378N	DIP16a
23♦	M74HC174B1(A)	CMS	6	20M	Yes	No		47n	0	5.0	3.15	1.35	500n	4	8	74-174	DIP16a
24	M74HC174C1(A)	CMS	6	20M	Yes	No		47n	0	5.0	3.15	1.35	500n	4	8	B08-166	LC33
25♦	M74HC174F1(A)	CMS	6	20M	Yes	No		47n	0	5.0	3.15	1.35	500n	4	8	74-174	DIP16b
26♦	MM54HC174J	CMS	6	20M	Yes	No		42n	0.5	7.0	4.2	1.2	500m	5	C	74-174N	DIP16a
27♦	PC74HC174P	CMS	6	20M	Yes	No		50n	0	5.0	3.15	1.35	500m	4	C	74-174	DIP16b
28	PC74HC174T	CMS	6	20M	Yes	No		50n	0	5.0	3.15	1.35	300m	4	C	74-174	FP148
29♦	PC74HCT174P	CMS	6	20M	Yes	No		53n	0	5.0	2.0	0.8	500m	4	C	74-174	DIP16b
30	PC74HCT174T	CMS	6	20M	Yes	No		53n	0	5.0	2.0	0.8	300m	4	C	74-174	FP148
31▼	SN74HC378D	CMS	6	20M	No	No		40n	0	5.0	3.15	0.9		4	8	74LS378N	FP162
32♦	SN74HC378N	CMS	6	20M	No	No		40n	0	5.0	3.15	0.9		4	8	74LS378N	DIP16a
33	TC40H174F	CMS	6	20M	Yes	No		68n	0	10.0	4.0	1.0	180m	4	8	54-174W	MO001AC
34	TC40H174P	CMS	6	20M	Yes	No		68n	0	10.0	4.0	1.0	300m	4	8	74-174N	MO001AC
35♦	SN54HC174J	CMS	6	21M	Yes	No		48n	0	5.0	3.15	0.9		5	C	74-174N	DIP16a
36	74HCT174D	CMS	6	24M	Yes	No		44n	0.5	7.0	2.0	0.8		4	8	74-174	FP162
37♦	74HCT174N	CMS	6	24M	Yes	No		44n	0.5	7.0	2.0	0.8		4	8	74-174	DIP16b
38♦	CD54HC174F	CMS	6	24M	Yes	No		43n	0.5	7.0	3.15	1.35	500m	5	C	74-174N	MO001AC
39♦	CD54HCT174F	CMS	6	24M	Yes	No		43n	0.5	7.0	2.0	0.8	500m	5	C	74-174N	MO001AC
40▼	HD74HC174FP	CMS	6	24M	Yes	No		15n	0	5.0	3.15	1.35	500m	4	8	74-174N	FP162
41▼	HD74HC174P	CMS	6	24M	Yes	No		15n	0	5.0	3.15	1.35	500m	4	8	74-174N	DIP16a
42♦	MM74HC174J	CMS	6	24M	Yes	No		35n	0.5	7.0	4.2	1.2	500m	4	8	74-174N	DIP16a
43♦	MM74HC174N	CMS	6	24M	Yes	No		35n	0.5	7.0	4.2	1.2	500m	4	8	74-174N	DIP16a
44♦	AM25LS07DM	TTL	6	25M	No	No		35n		5.0	2.0	0.7		5	C	B08-211	DIP16b
45♦	AM25LS07FM	TTL	6	25M	No	No		35n		5.0	2.0	0.7		5	C	B08-211	FP101a
46♦	N74174N	TTL	6	25M	Yes	No		30n	0	5.0	2.0	0.8		0	7	74-174N	DIP16b
47♦	S54174F	TTL	6	25M	Yes	No		35n	0.5	7.0	2.0	0.8		5	C	74-174N	DIP16b
48	S54174W	TTL	6	25M	Yes	No		35n	0.5	7.0	2.0	0.8		5	C	54-174W	FP154
49▼	SN74HC174D	CMS	6	25M	Yes	No		40n	0	5.0	3.15	0.9		4	8	74-174N	FP162
50♦	SN74HC174N	CMS	6	25M	Yes	No		40n	0	5.0	3.15	0.9		4	8	74-174N	DIP16a
51	74HC174D	CMS	6	28M	Yes	No		35n		5.0	3.15	1.35		4	8	74-174	FP162
52♦	74HC174N	CMS	6	28M	Yes	No		35n		5.0	3.15	1.35		4	8	74-174	DIP16b
53♦	CD74HC174E	CMS	6	28M	Yes	No		35n	0.5	7.0	3.15	1.35	500m	4	8	74-174N	MS001a
54♦	CD74HC174M	CMS	6	28M	Yes	No		35n	0.5	7.0	3.15	1.35	400m	4	8	74-174N	MS012c
55♦	CD74HCT174E	CMS	6	28M	Yes	No		35n	0.5	7.0	2.0	0.80	500m	4	8	74-174N	MS001a
56♦	CD74HCT174M	CMS	6	28M	Yes	No		35n	0.5	7.0	2.0	0.8	400m	4	8	74-174N	MS012c
57♦	54LS378DM(1)	TTL	6	30M†	No	No		27n	0	5.0	2.0	0.8	110m	5	C	74LS378N	DIP16a
58	54LS378FM(1)	TTL	6	30M†				27n	0	5.0	2.0	0.8	110m	5	C	54LS378W	FP93c
59♦	74LS378DC	TTL	6	30M†	No	No		27n	0	5.0	2.0	0.8	110m	0	7	74LS378N	DIP16a
60	74LS378PC	TTL	6	30M†	No	No		27n	0	5.0	2.0	0.8	110m	0	7	74LS378N	None
61♦	AM25LS07DC	TTL	6	30M	No	No		30n		5.0	2.0	0.8		0	7	B08-211	DIP16b
62♦	AM25LS07PC	TTL	6	30M	No	No		30n		5.0	2.0	0.8		0	7	B08-211	DIP16
63▼	DM54174J	TTL	6	30M	Yes	No		25n		5.0	2.0	0.8		5	C	74-174	DIP16a
64▼	HD74LS174G	TTL	6	30M	Yes	No		35n	0	5.0	2.0	0.8	400m	2	7	74-174N	DIP16a
65▼	HD74LS174P	TTL	6	30M	Yes	No		35n	0	5.0	2.0	0.8	400m	2	7	74-174N	DIP16a
66♦	HEF40174BD(1)	CMS	6	30M†	Yes	No		65n	0	10	7.0	3.0	500m	4	8	74-174N	DIP16b
67♦	HEF40174BP(1)	CMS	6	30M†	Yes	No		65n	0	10	7.0	3.0	500m	4	8	74-174N	DIP16b
68	HEF40174BT	CMS	6	30M	Yes	No		65n	0	15	7.0	2.0	200m	4	8	54-174W	FP148
69▼	HEF40174BT(1)	CMS	6	30M†	Yes	No		65n	0	10	7.0	3.0	400m	4	8	74-174N	FP148
70♦	MB74LS174	TTL	6	30M	Yes	No		35n	0	5.0	2.0	0.8	156m	2	7	74-174N	DIP16a
71♦	MB74LS174M	TTL	6	30M	Yes	No		35n	0	5.0	2.0	0.8	156m	2	7	74-174N	DIP16b
72♦	MC54HC174J(A)	CMS	6	30M	Yes	No		31n	0	5.0	3.2	1.1	500m	5	C	74-174N	DIP16 ☑
73♦	MC74HC174J(A)	CMS	6	30M	Yes	No		31n	0	5.0	3.2	1.1	500m	4	8	74-174N	DIP16 ☑
74♦	MC74HC174N(A)	CMS	6	30M	Yes	No		31n	0	5.0	3.2	1.1	500m	4	8	74-174N	DIP16 ☑
75	N74LS174D	TTL	6	30M	Yes	No		30n	0.5	7.0	2.0	0.8		0	7	74-174N	FP148
76♦	N74LS174N(1)	TTL	6	30M	Yes	No		30n	0.5	7.0	2.0	0.8		0	7	74-174N	DIP16a
77♦	N74LS378N	TTL	6	30M	No	No		27n	0	5.0	2.0	0.8		0	7	74LS378N	DIP16b
78♦	S54LS174F	TTL	6	30M	Yes	No		30n	0.5	7.0	2.0	0.7		5	C	74-174N	DIP16b
79	S54LS174G	TTL	6	30M	Yes	No		30n	0.5	7.0	2.0	0.7		5	C	54-174	LC24
80	S54LS174W	TTL	6	30M	Yes	No		30n	0.5	7.0	2.0	0.7		5	C	54-174W	FP154
81♦	S54LS378F	TTL	6	30M	No	No		27n	0	5.0	2.0	0.7		5	C	74LS378N	DIP16a
82	S54LS378W	TTL	6	30M				27n	0	5.0	2.0	0.7		5	C	54LS378W	FP153
83♦	M74HC174P	CMS	6	32M	Yes	No		28n	0	6.0	4.2	1.8		4	8	74-174	DIP16b
84♦	N74174F	TTL	6	35M	Yes	No		30n	0	5.0	2.0	0.8		0	7	74-174N	DIP16a
85▼	SN54174J	TTL	6	35M	Yes	No		35n	0	7.0	2.0	0.8		5	C	74-174	DIP16a
86▼	SN74174N	TTL	6	35M	Yes	No		35n	0	7.0	2.0	0.8		0	7	74-174	DIP16a
87♦	DM54LS174J	TTL	6	40M	Yes	No		36n	0	5.0	2.0	0.7		5	C	74-174	DIP16a
88	DM54LS174W	TTL	6	40M	Yes	No		29n	0	5.0	2.0	0.8	14m	5	C	54-174W	FP98b
89♦	DM74LS174N	TTL	6	40M	Yes	No		29n	0	5.0	2.0	0.8	14m	0	7	74-174N	DIP16a
90♦	DM74LS175N	TTL	6	40M	Yes	No		29n	0	5.0	2.0	0.8	14m	0	7	74-175N	DIP16a
91▼	DM54174W	TTL	6	40M	Yes	No		25n	0	5.0	2.0	0.8	38m	5	C	54-174W	FP98b
92▼	DM74174N	TTL	6	40M	Yes	No		25n	0	5.0	2.0	0.8	38m	0	7	74-174N	DIP16a
93♦	DM74175N(1)	TTL	6	40M	Yes	No		25n	0	5.0	2.0	0.8	38m	0	7	74-175N	DIP16a
94♦	DN74LS174P2	TTL	6	40M	Yes	No		35n	0.5	7.0	2.0	0.8	400m	2	7	74-174	DIP16a
95	DN74LS174P5	TTL	6	40M	Yes	No		35n	0.5	7.0	2.0	0.8	400m	2	7	74-174	FP178
96♦	N74LS174F(1)	TTL	6	40M	Yes	No		30n	0	5.0	2.0	0.8		0	7	74-174N	DIP16a
97♦	N74LS378F	TTL	6	40M	No	No		27n	0	5.0	2.0	0.8		0	7	74LS378N	DIP16a
98♦	SN54ALS174J	TTL	6	40M	Yes	No		24n	0	5.0	2.0	0.7		5	C	74-174N	DIP16a
99♦	SN54LS174J	TTL	6	40M†	Yes	No		35n		5.0	2.0	0.7		5	C	54-174	DIP16a
100▼	SN54LS174N	TTL	6	40M†	Yes	No		35n		5.0	2.0	0.7		5	C	54-174	DIP16b
101♦	SN54LS378J	TTL	6	40M				27n	0	7.0	2.0	0.7	60m†	5	C	74LS378	DIP16a
102♦	SN54LS378N	TTL	6	40M†	Yes	No		27n		5.0	2.0	0.7		5	C	54LS378	DIP16b
103	SN74LS174D	TTL	6	40M	Yes	No		30n	0	7.0	2.0	0.8		0	7	74-174	FP148
104♦	SN74LS174J	TTL	6	40M	Yes	No		35n	0	5.25	2.0	0.8		0	7	74-174N	DIP16a
105▼	SN74LS174N	TTL	6	40M	Yes	No		35n	0	5.25	2.0	0.8		0	7	74-174N	DIP16b
106	SN74LS378D	TTL	6	40M				27n	0	7.0	2.0	0.8	60m†	0	7	74LS378	FP148
107♦	SN74LS378J	TTL	6	40M				27n	0	7.0	2.0	0.8	60m†	0	7	74LS378	DIP16a
108♦	SN74LS378N	TTL	6	40M				27n	0	7.0	2.0	0.8	60m†	0	7	74LS378	DIP16a
109▼	TC74HC174F(A)	CMS	6	43M†	Yes	No		45n	0	5.0	3.15	1.35	180m	4	8	74-174N	FP167
110♦	HEF40174BPN	CMS	6	45M	Yes	No		45n	0	15	11.0	4.0	400m	4	8	74-174N	DIP16b

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING	
1	HEF40174BTD	CMS	6	45M	Yes	No		50n	0	15	11.0	4.0	200m	4	8	54-174W	FP148	
2♦	M74ALS174P	TTL	6	45M	Yes	No		24n	0.5	7.0	2.0	0.8		2	7	74-174	DIP16b	
3♦	M74LS174P	TTL	6	47M	Yes	No		35n	0.5	7.0	2.0	0.8	80m	2	7	74-174N	DIP16b	
4♦	TC74HC174P	CMS	6	48M†	Yes	No		45n	0	5.0	3.15	1.35	500m	4	8	74-174N	DIP16a	
5♦	M54HC174F1(A)	CMS	6	50M	Yes	No		39n	0	5.0	3.15	1.35	500n	5	C	74-174	DIP16b	
6♦	PC54HCT174D(A)	CMS	6	50M	Yes	No		17n	0	5.0	2.0	0.8	500m	5	C	74-174	DIP16b	
7♦	PC74HCT174D(A)	CMS	6	50M	Yes	No		17n	0	5.0	2.0	0.8	500m	4	8	74-174	DIP16b	
8▼	SN74ALS174D	TTL	6	50M	Yes	No		17n	0	5.0	2.0	0.8		0	7	74-174N	FP162	
9♦	SN74ALS174N	TTL	6	50M	Yes	No		17n	0	5.0	2.0	0.8		0	7	74-174N	DIP16a	
10♦	PC54HC174D(A)	CMS	6	60M	Yes	No		15n	0	5.0	3.15	0.9	500m	5	C	74-174	DIP16b	
11♦	PC74HC174D(A)	CMS	6	60M	Yes	No		15n	0	5.0	3.15	0.9	500m	4	8	74-174	DIP16b	
12♦	UPD74HC174C(A)	CMS	6	60M	Yes	No		31n	0	4.5	3.15	0.9	500m	4	8	74-174	DIP16a	
13♦	DM54S174J	TTL	6	65M	Yes	No		21n		5.0	2.0	0.8		5	C	74-174N	DIP16a	
14♦	54F378DM	TTL	6	70M	No	No		7.5n		5.0	2.0	0.8		5	C	74LS378	DIP16a	
15	54F378L1M	TTL	6	70M	No	No		7.5n		5.0	2.0	0.8		5	C	54LS378	LC19	
16▼	MC54F378J	TTL	6	70M	No	No		7.5n		5.0	2.0	0.8		5	C	74LS378	DIP16a	
17▼	MC54F378N	TTL	6	70M	No	No		7.5n		5.0	2.0	0.8		5	C	74LS378	DIP16a	
18	N74S174D	TTL	6	75M	Yes	No		17n	0.5	7.0	2.0	0.8		0	7	74-174N	FP148	
19♦	N74S174N	TTL	6	75M	Yes	No		17n	0.5	7.0	2.0	0.8		0	7	74-174N	DIP16a	
20♦	S54S174F(1)	TTL	6	75M	Yes	No		17n	0.5	7.0	2.0	0.8		5	C	74-174N	DIP16b	
21	S54S174G	TTL	6	75M	Yes	No		17n	0.5	7.0	2.0	0.8		5	C	B08-166	LC24	
22	S54S174W	TTL	6	75M	Yes	No		17n	0.5	7.0	2.0	0.8		5	C	54-174W	FP154	
23♦	74F378DC	TTL	6	80M	No	No		7.5n		5.0	2.0	0.8		0	7	74LS378	DIP16a	
24	74F378L1C	TTL	6	80M	No	No		7.5n		5.0	2.0	0.8		0	7	74LS378	LC19	
25♦	74F378PC	TTL	6	80M	No	No		7.5n		5.0	2.0	0.8		0	7	74LS378	DIP16a	
26	74F378QC	TTL	6	80M	No	No		7.5n		5.0	2.0	0.8		0	7	74LS378	LC26	
27	74F378SC	TTL	6	80M	No	No		7.5n		5.0	2.0	0.8		0	7	74LS378	FP148	
28♦	DM54AS174J(A)	TTL	6	100M	Yes	No		11n	0	5.0	2.0	0.8		5	C	74-174	DIP16a	
29♦	N74F174D(A)	TTL	6	100M	Yes	No		11n	0	5.0	2.0	0.8		0	7	74-174	FP148	
30♦	N74F174N(A)	TTL	6	100M	Yes	No		11n	0	5.0	2.0	0.8		0	7	74-174	DIP16a	
31♦	N74F378D(A)	TTL	6	100M†	No	No	TS	9.5n	0	5.0	2.0	0.8		0	7	74LS378	FP148	
32♦	N74F378N(A)	TTL	6	100M†	No	No	TS	9.5n	0	5.0	2.0	0.8		0	7	74LS378	DIP16a	
33♦	SN54AS174J	TTL	6	100M	Yes	No		11n	0	5.0	2.0	0.8		5	C	74-174N	DIP16a	
34▼	SN74AS174D	TTL	6	100M	Yes	No		10n	0	5.0	2.0	0.8		0	7	74-174N	FP162	
35♦	SN74AS174N	TTL	6	100M	Yes	No		10n	0	5.0	2.0	0.8		0	7	74-174N	DIP16a	
36♦	DM74AS174J(A)	TTL	6	105M	Yes	No		10n	0	5.0	2.0	0.8		0	7	74-174	DIP16a	
37♦	DM74AS174N(A)	TTL	6	105M	Yes	No		10n	0	5.0	2.0	0.8		0	7	74-174	DIP16a	
38	DM54S174W	TTL	6	110M	Yes	No		18n	0	5.0	2.0	0.8	75m	5	C	54-174W	FP98b	
39♦	DM74S174N	TTL	6	110M	Yes	No		18n	0	5.0	2.0	0.8	75m	0	7	74-174N	DIP16a	
40♦	DM74S175N	TTL	6	110M	Yes	No		18n	0	5.0	2.0	0.8	75m	0	7	74-175N	DIP16a	
41♦	N74S174F	TTL	6	110M	Yes	No		13n	0	5.0	2.0	0.8		0	7	74-174N	DIP16a	
42♦	SN54S174J(1)	TTL	6	110M†	Yes	No		10n	0	5.0	2.0	0.8		5	C	74-174N	DIP16a	
43	SN74S174D	TTL	6	110M	Yes	No		22n	0	7.0	2.0	0.8		0	7	74-174	FP148	
44▼	SN74S174J	TTL	6	110M†	Yes	No		10n	0	5.0	2.0	0.8		0	7	74-174N	DIP16a	
45♦	SN74S174N(1)	TTL	6	110M†	Yes	No		10n	0	5.0	2.0	0.8		0	7	74-174N	DIP16a	
46♦	54F174DM	TTL	6	140M	Yes	No		7.0n	0	5.0	2.0	0.8		5	C	74-174	DIP16b	
47	54F174L1M	TTL	6	140M	Yes	No		7.0n	0	5.0	2.0	0.8		5	C	B08-166	LC19	
48♦	74F174DC	TTL	6	140M	Yes	No		7.0n	0	5.0	2.0	0.8		0	7	74-174	DIP16b	
49	74F174L1C	TTL	6	140M	Yes	No		7.0n	0	5.0	2.0	0.8		0	7	B08-166	LC19	
50♦	74F174PC	TTL	6	140M	Yes	No		7.0n	0	5.0	2.0	0.8		0	7	74-174	DIP16a	
51	74F174QC	TTL	6	140M	Yes	No		7.0n	0	5.0	2.0	0.8		0	7	B08-166	LC26	
52	74F174SC	TTL	6	140M	Yes	No		7.0n	0	5.0	2.0	0.8		0	7	54-174	FP148	
53♦	MC54F174J	TTL	6	140M	Yes	No		14n	0	5.5	2.0	0.8		5	C	74-174	DIP16a	
54▼	MC54F174N	TTL	6	140M	Yes	No		14n	0	5.5	2.0	0.8		5	C	74-174	DIP16a	
55♦	MC74F174J	TTL	6	140M	Yes	No		14n	0	5.25	2.0	0.8		0	7	74-174	DIP16a	
56♦	MC74F174N	TTL	6	140M	Yes	No		14n	0	5.25	2.0	0.8		0	7	74-174	DIP16b	
57♦	10176F(1)	ECL	6	150M†	No	No		5.0n	5.2	0	-1.1	-1.4	457m†	3	8	B08-100	DIP16a	
58♦	10176N	ECL	6	150M†	No	No		5.0n	5.2	0	-1.1	-1.4	457m†	3	8	B08-100	DIP16a	
59♦	MC10H176J	ECL	6	250M				3.0n	5.2		-1.1	-1.4	460m†	0	7	B08-100	DIP16a	
60♦	MC10H176N	ECL	6	250M				3.0n	5.2		-1.1	-1.4	460m†	0	7	B08-100	DIP16a	
61♦	MC10H176NL	ECL	6	250M				3.0n	5.2		-1.1	-1.4	460m†	0	7	B08-100	LC45	
62♦	100151F	ECL	6	375M†	Yes	No		2.4n	5.2	0	-1.1	-1.4	615m†	0	8	B08-204	DIP24d	
63♦	100151Y	ECL	6	375M†	Yes	No		2.2n	5.2	0	-1.1	-1.4	615m†	0	8	B08-203	FP173	
64♦	100150D	ECL	6	400M				1.2n	5.2	0	-1.1	-1.4		0	8	B08-147	DIP24d	
65♦	HD100151	ECL	6	400M				2.6n	5.2	0	-1.1	-1.4	40m†	0	8	B08-147	DIP24d	
66♦	HD100151F	ECL	6	400M				2.6n	5.2	0	-1.1	-1.4	40m†	0	8	B08-147	FP146	
67♦	HXA100151D	ECL	6	400M				0.9n	5.2	0	-1.1	-1.4	630m	0	8	B08-147	DL	☑
68♦	HXA100151F	ECL	6	400M				0.9n	5.2	0	-1.1	-1.4	630m	0	8	B08-147	FP	☑
69♦	54HCT273C(A)	CMS	8		Yes	No		47n	0	5.5				5	C	74-273N	DIP20b	
70♦	54HCT273D(A)	CMS	8		Yes	No		47n	0	5.5				5	C	74-273N	DIP20b	
71♦	54HCT374	CMS	8		No	No	TS	36n		5.0	2.0	0.8	1.0	5	C	54LS374	DIP20b	
72♦	54HCT534	CMS	8		No	No	TS	43n		5.0	2.0	0.8	1.0	5	C	54LS534	DIP20b	
73♦	54HCT564	CMS	8		No	No	TS	43n		5.0	2.0	0.8	1.0	5	C	54LS564	DIP20b	
74♦	54HCT574	CMS	8		No	No	TS	36n		5.0	2.0	0.8	1.0	5	C	54LS574	DIP20b	
75♦	74HC574D	CMS	8		No	No	TS	34n		5.0	3.15	1.35	1.0	4	8	74LS574	DIP20b	
76♦	74HC574N	CMS	8		No	No	TS	34n		5.0	3.15	1.35	1.0	4	8	74LS574	DIP20b	
77♦	74HCT273C(A)	CMS	8		Yes	No		38n	0	5.2				4	8	74-273N	DIP20b	
78♦	74HCT273P(A)	CMS	8		Yes	No		38n	0	5.2				4	8	74-273N	DIP20b	
79♦	74HCT374	CMS	8		No	No	TS	34n		5.0	2.0	0.8	1.0	4	8	74-374	DIP20b	
80♦	74HCT534	CMS	8		No	No	TS	40n		5.0	2.0	0.8	1.0	4	8	74LS534	DIP20b	
81♦	74HCT564	CMS	8		No	No	TS	40n		5.0	2.0	0.8	1.0	4	8	74LS564	DIP20b	
82♦	74HCT574N	CMS	8		No	No	TS	34n		5.0	2.0	0.8	1.0	4	8	74LS574	DIP20b	
83♦	74SC273C(A)	CMS	8		Yes	No		47n	0	5.2				4	8	74-273N	DIP20b	
84♦	74SC273D(A)	CMS	8		Yes	No		47n	0	5.2				4	8	74-273N	DIP20b	
85♦	74SC273P(A)	CMS	8		Yes	No		47n	0	5.2				4	8	74-273N	DIP20b	
86♦	AM25S374DC	TTL	8		No	No		17n		5.0	2.0	0.8		0	7	74S374	DIP20	☑
87♦	AM25S374DM	TTL	8		No	No		17n		5.0	2.0	0.8		5	C	74S374	DIP20	☑
88♦	AM25S374FM	TTL	8		No	No		17n		5.0	2.0	0.8		5	C	74S374	FP20	☑
89♦	AM25S374PC	TTL	8		No	No		17n		5.0	2.0	0.8		0	7	74S374	DIP20	☑
90♦	AM54S374DC	TTL	8		No	No		17n		5.0	2.0	0.8		0	7	74S374	DIP20	☑
91♦	AM54S374DM	TTL	8		No	No		17n		5.0	2.0	0.8		5	C	74S374	DIP20	☑
92♦	AM54S374FM	TTL	8		No	No		17n		5.0	2.0	0.8		5	C	74S374	FP20	☑
93♦	AM54S374PC	TTL	8		No	No		17n		5.0	2.0	0.8		0	7	74S374	DIP20	☑
94♦	AM74S374DC	TTL	8		No	No		17n		5.0	2.0	0.8		0	7	74S374	DIP20	☑
95♦	AM74S374DM	TTL	8		No	No		17n		5.0	2.0	0.8		5	C	74S374	DIP20	☑
96♦	AM74S374FM	TTL	8		No	No		17n		5.0	2.0	0.8		5	C	74S374	FP20	☑
97♦	AM74S374PC	TTL	8		No	No		17n		5.0	2.0	0.8		0	7	74S374	DIP20	☑
98♦	HEF40374B(A)	CMS	8		No	No			0	15		1.5	400m	4	8	74LS364N	DIP20	☑
99♦	IDT54AHCT273D	CMS	8		Yes	No		17n		5.0	2.0	0.8		5	C	74-273	DIP20b	
100♦	IDT54AHCT273DB	CMS	8		Yes	No		17n		5.0	2.0	0.8		5	C	74-273	DIP20b	
101♦	IDT54AHCT273L	CMS	8		Yes	No		17n		5.0	2.0	0.8		5	C	B08-168	LC25	
102♦	IDT54AHCT273LB	CMS	8		Yes	No		17n		5.0	2.0	0.8		5	C	B08-168	LC25	
103♦	IDT54AHCT374D	CMS	8		No	No	TS	18n		5.0	2.0	0.8		5	C	74LS364	DIP20b	
104♦	IDT54AHCT374DB	CMS	8		No	No	TS	18n		5.0	2.0	0.8		5	C	74LS364	DIP20b	
105♦	IDT54AHCT374L	CMS	8		No	No	TS	18n		5.0	2.0	0.8		5	C	B08-169	LC25	
106♦	IDT54AHCT374LB	CMS	8		No	No	TS	18n		5.0	2.0	0.8		5	C	B08-169	LC25	
107♦	IDT54AHCT377D	CMS	8		No	No				5.0	2.0	0.8		5	C	74LS377	DIP20b	
108♦	IDT54AHCT377DB	CMS	8		No	No				5.0	2.0	0.8		5	C	74LS377	DIP20b	
109♦	IDT54AHCT377L	CMS	8		No	No				5.0	2.0	0.8		5	C	B08-170	LC25	
110♦	IDT54AHCT377LB	CMS	8		No	No				5.0	2.0	0.8		5	C	B08-170	LC25	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING	
1♦	IDT54AHCT534D	CMS	8		No	No	TS	18n		5.0	2.0	0.8		5	C	74LS534	DIP20b	
2♦	IDT54AHCT534DB	CMS	8		No	No	TS	18n		5.0	2.0	0.8		5	C	74LS534	DIP20b	
3♦	IDT54AHCT534L	CMS	8		No	No	TS	18n		5.0	2.0	0.8		5	C	B08-173	LC25	
4♦	IDT54AHCT534LB	CMS	8		No	No	TS	18n	0.5	5.0	2.0	0.8		5	C	B08-173	LC25	
5♦	IDT74AHCT273D	CMS	8		Yes	No		15n		5.0	2.0	0.8		0	7	74-273	DIP20b	
6♦	IDT74AHCT273L	CMS	8		Yes	No		15n		5.0	2.0	0.8		0	7	B08-168	LC25	
7♦	IDT74AHCT374D	CMS	8		No	No	TS	16n		5.0	2.0	0.8		0	7	74LS364	DIP20b	
8♦	IDT74AHCT374L	CMS	8		No	No	TS	16n		5.0	2.0	0.8		0	7	B08-169	LC25	
9♦	IDT74AHCT377D	CMS	8		No	No				5.0	2.0	0.8		0	7	74LS377	DIP20b	
10♦	IDT74AHCT377L	CMS	8		No	No				5.0	2.0	0.8		0	7	B08-170	LC25	
11♦	IDT74AHCT534D	CMS	8		No	No	TS	16n		5.0	2.0	0.8		0	7	74LS534	DIP20b	
12♦	IDT74AHCT534L	CMS	8		No	No	TS	16n		5.0	2.0	0.8		0	7	B08-173	LC25	
13▼	M54HCT374F1	CMS	8		No	No	TS			5.0				5	C	54S374W	DIP20c	
14▼	M74HCT374B1	CMS	8		No	No	TS			5.0				4	8	74S374	DIP20c	
15▼	M74HCT374C1	CMS	8		No	No	TS			5.0				4	8	B08-169	LC19	
16▼	M74HCT374F1	CMS	8		No	No	TS			5.0				4	8	74S374	DIP20c	
17♦	MC54HCT374J	CMS	8		No	No	TS			5	2.0	0.8		5	C	74LS364	DIP20b	
18♦	MC74HCT374J	CMS	8		No	No	TS			5	2.0	0.8	500m	4	8	74LS364	DIP20b	
19♦	MC74HCT374N	CMS	8		No	No	TS		0.5	7.0	2.0	0.8	500m	4	8	74LS364	DIP20b	
20♦	MD54HCT374RC	CMS	8		No	No		40n		5.0	2.0	0.8	1.0	5	C	74LS364	DIP20b	
21♦	MD54HCT574PC	CMS	8		No	No		40n	0.5	7.5	2.0	0.8	1.0	5	C	74LS364	DIP20	Ø
22♦	MD54HCT574RC	CMS	8		No	No		40n		5.0	2.0	0.8	1.0	5	C	74LS574	DIP20a	
23♦	MD74HCT374RE	CMS	8		No	No		37n		5.0	2.0	0.8	450m	4	8	74LS364	DIP20b	
24♦	MD74HCT574RE	CMS	8		No	No		37n		5.0	2.0	0.8	450m	4	8	74LS364	DIP20b	Ø
25♦	N74F374D	TTL	8		No	No	TS	8.0n	0	5.0	2.0	0.8		0	7	74LS364	FP170	
26♦	N74F374N	TTL	8		No	No	TS	8.0n	0	5.0	2.0	0.8		0	7	74LS364	DIP20a	
27♦	N74F377N(A)	TTL	8		No	No	TS		0	5.0	2.0	0.8		0	7	74LS377	DIP20a	
28♦	N74F534D	TTL	8		No	No	TS	10n	0	5.0	2.0	0.8		0	7	54LS534	FP170	
29▼	N74F534N	TTL	8		No	No	TS	10n	0	5.0	2.0	0.8		0	7	54LS534	DIP20a	
30▼	IDT54FCT273ADB	CMS	8	10M†	Yes	No	TP	8.3n		5.0	2.0	0.8	5.0uQ	5	C	B08-168	DIP20b	
31▼	IDT54FCT273AEB	CMS	8	10M†	Yes	No	TP	8.3n		5.0	2.0	0.8	5.0uQ	5	C	B08-168	FP183	
32▼	IDT54FCT273ALB	CMS	8	10M†	Yes	No	TP	8.3n		5.0	2.0	0.8	5.0uQ	5	C	B08-168	LC19	
33♦	IDT54FCT273DB	CMS	8	10M†	Yes	No	TP	15n		5.0	2.0	0.8	5.0uQ	5	C	74-273	DIP20b	
34▼	IDT54FCT273EB	CMS	8	10M†	Yes	No	TP	15n		5.0	2.0	0.8	5.0uQ	5	C	B08-168	FP183	
35♦	IDT54FCT273LB	CMS	8	10M†	Yes	No	TP	15n		5.0	2.0	0.8	5.0uQ	5	C	B08-168	LC19	
36▼	IDT54FCT377ADB	CMS	8	10M†	No	No		8.3n		5.0	2.0	0.8	5.0uQ	5	C	74LS377	DIP20b	
37▼	IDT54FCT377AEB	CMS	8	10M†	No	No		8.3n		5.0	2.0	0.8	5.0uQ	5	C	74LS377	FP183	
38▼	IDT54FCT377ALB	CMS	8	10M†	No	No		8.3n		5.0	2.0	0.8	5.0uQ	5	C	74LS377	LC19	
39♦	IDT54FCT377DB	CMS	8	10M†	No	No				5.0	2.0	0.8		5	C	74LS377	DIP20b	
40▼	IDT54FCT377EB	CMS	8	10M†	No	No		15n		5.0	2.0	0.8	5.0uQ	5	C	B08-170	FP183	
41♦	IDT54FCT377LB	CMS	8	10M†	No	No		15n		5.0	2.0	0.8	5.0uQ	5	C	B08-170	LC19	
42▼	IDT54FCT534ADB	CMS	8	10M†	No	No	TS	7.2n		5.0	2.0	0.8	5.0uQ	5	C	B08-173	DIP20b	
43▼	IDT54FCT534AEB	CMS	8	10M†	No	No	TS	7.2n		5.0	2.0	0.8	5.0uQ	5	C	B08-173	FP183	
44▼	IDT54FCT534ALB	CMS	8	10M†	No	No	TS	7.2n		5.0	2.0	0.8	5.0uQ	5	C	B08-173	LC19	
45♦	IDT54FCT534DB	CMS	8	10M†	No	No	TS	11n		5.0	2.0	0.8	5.0uQ	5	C	74LS534	DIP20b	
46▼	IDT54FCT534EB	CMS	8	10M†	No	No	TS	11n		5.0	2.0	0.8	5.0uQ	5	C	B08-173	FP183	
47♦	IDT54FCT534LB	CMS	8	10M†	No	No	TS	11n		5.0	2.0	0.8	5.0uQ	5	C	B08-173	LC19	
48▼	IDT54FCT574ADB	CMS	8	10M†	No	No	TS	7.2n		5.0	2.0	0.8	5.0uQ	5	C	54LS574	DIP20b	
49▼	IDT54FCT574AEB	CMS	8	10M†	No	No	TS	7.2n		5.0	2.0	0.8	5.0uQ	5	C	54LS574	FP183	
50▼	IDT54FCT574ALB	CMS	8	10M†	No	No	TS	7.2n		5.0	2.0	0.8	5.0uQ	5	C	54LS574	LC19	
51▼	IDT54FCT574DB	CMS	8	10M†	No	No	TS	11n		5.0	2.0	0.8	5.0uQ	5	C	54LS574	DIP20b	
52▼	IDT54FCT574EB	CMS	8	10M†	No	No	TS	11n		5.0	2.0	0.8	5.0uQ	5	C	54LS574	FP183	
53▼	IDT54FCT574LB	CMS	8	10M†	No	No	TS	11n		5.0	2.0	0.8	5.0uQ	5	C	54LS574	LC19	
54▼	IDT74FCT273AD	CMS	8	10M†	Yes	No	TP	7.2n		5.0	2.0	0.8	5.0uQ	0	7	74-273	DIP20b	
55▼	IDT74FCT273AJ	CMS	8	10M†	Yes	No	TP	7.2n		5.0	2.0	0.8	5.0uQ	0	7	74-273	LC20	
56▼	IDT74FCT273AL	CMS	8	10M†	Yes	No	TP	7.2n		5.0	2.0	0.8	5.0uQ	0	7	74-273	LC19	
57▼	IDT74FCT273AP	CMS	8	10M†	Yes	No	TP	7.2n		5.0	2.0	0.8	5.0uQ	0	7	74-273	DIP20a	
58▼	IDT74FCT273ASO	CMS	8	10M†	Yes	No	TP	7.2n		5.0	2.0	0.8	5.0uQ	0	7	74-273	FP168	
59♦	IDT74FCT273D	CMS	8	10M†	Yes	No	TP	13n		5.0	2.0	0.8	5.0uQ	0	7	74-273	DIP20b	
60▼	IDT74FCT273J	CMS	8	10M†	Yes	No	TP	13n		5.0	2.0	0.8	5.0uQ	0	7	74-273	LC20	
61♦	IDT74FCT273L	CMS	8	10M†	Yes	No	TP	13n		5.0	2.0	0.8	5.0uQ	0	7	B08-166	LC19	
62▼	IDT74FCT273P	CMS	8	10M†	Yes	No	TP	13n		5.0	2.0	0.8	5.0uQ	0	7	74-273	DIP20a	
63▼	IDT74FCT273SO	CMS	8	10M†	Yes	No	TP	13n		5.0	2.0	0.8	5.0uQ	0	7	74-273	FP168	
64▼	IDT74FCT377AD	CMS	8	10M†	No	No		7.2n		5.0	2.0	0.8	5.0uQ	0	7	74LS377	DIP20b	
65▼	IDT74FCT377AJ	CMS	8	10M†	No	No		7.2n		5.0	2.0	0.8	5.0uQ	0	7	74LS377	LC20	
66▼	IDT74FCT377AL	CMS	8	10M†	No	No		7.2n		5.0	2.0	0.8	5.0uQ	0	7	74LS377	LC19	
67▼	IDT74FCT377AP	CMS	8	10M†	No	No		7.2n		5.0	2.0	0.8	5.0uQ	0	7	74LS377	DIP20a	
68▼	IDT74FCT377ASO	CMS	8	10M†	No	No		7.2n		5.0	2.0	0.8	5.0uQ	0	7	74LS377	FP168	
69♦	IDT74FCT377D	CMS	8	10M†	No	No				5.0	2.0	0.8		0	7	74LS377	DIP20b	
70▼	IDT74FCT377J	CMS	8	10M†	No	No		13n		5.0	2.0	0.8	5.0uQ	0	7	74LS377	LC20	
71♦	IDT74FCT377L	CMS	8	10M†	No	No				5.0	2.0	0.8		0	7	B08-170	LC25	
72▼	IDT74FCT377P	CMS	8	10M†	No	No		13n		5.0	2.0	0.8	5.0uQ	0	7	74LS377	DIP20a	
73▼	IDT74FCT377SO	CMS	8	10M†	No	No		13n		5.0	2.0	0.8	5.0uQ	0	7	74LS377	FP168	
74▼	IDT74FCT534AD	CMS	8	10M†	No	No	TS	6.5n		5.0	2.0	0.8	5.0uQ	0	7	74LS534	DIP20b	
75▼	IDT74FCT534AJ	CMS	8	10M†	No	No	TS	6.5n		5.0	2.0	0.8	5.0uQ	0	7	74LS534	LC20	
76▼	IDT74FCT534AL	CMS	8	10M†	No	No	TS	6.5n		5.0	2.0	0.8	5.0uQ	0	7	74LS534	LC19	
77▼	IDT74FCT534AP	CMS	8	10M†	No	No	TS	6.5n		5.0	2.0	0.8	5.0uQ	0	7	74LS534	DIP20a	
78▼	IDT74FCT534ASO	CMS	8	10M†	No	No	TS	6.5n		5.0	2.0	0.8	5.0uQ	0	7	74LS534	FP168	
79♦	IDT74FCT534D	CMS	8	10M†	No	No	TS	10n		5.0	2.0	0.8	5.0uQ	0	7	74LS534	DIP20b	
80▼	IDT74FCT534J	CMS	8	10M†	No	No	TS	10n		5.0	2.0	0.8	5.0uQ	0	7	74LS534	LC20	
81♦	IDT74FCT534L	CMS	8	10M†	No	No	TS	10n		5.0	2.0	0.8	5.0uQ	0	7	B08-173	LC19	
82▼	IDT74FCT534P	CMS	8	10M†	No	No	TS	10n		5.0	2.0	0.8	5.0uQ	0	7	74LS534	DIP20b	
83▼	IDT74FCT534SO	CMS	8	10M†	No	No	TS	10n		5.0	2.0	0.8	5.0uQ	0	7	74LS534	FP168	
84▼	IDT74FCT574AD	CMS	8	10M†	No	No	TS	6.5n	0	5.0	2.0	0.8	5.0uQ	0	7	74LS574N	DIP20b	
85▼	IDT74FCT574AJ	CMS	8	10M†	No	No	TS	6.5n	0	5.0	2.0	0.8	5.0uQ	0	7	74LS574N	LC20	
86▼	IDT74FCT574AL	CMS	8	10M†	No	No	TS	6.5n	0	5.0	2.0	0.8	5.0uQ	0	7	74LS574N	LC19	
87▼	IDT74FCT574AP	CMS	8	10M†	No	No	TS	6.5n	0	5.0	2.0	0.8	5.0uQ	0	7	74LS574N	DIP20b	
88▼	IDT74FCT574ASO	CMS	8	10M†	No	No	TS	6.5n	0	5.0	2.0	0.8	5.0uQ	0	7	74LS574N	FP168	
89▼	IDT74FCT574D	CMS	8	10M†	No	No	TS	10n	0	5.0	2.0	0.8	5.0uQ	0	7	74LS574N	DIP20b	
90▼	IDT74FCT574J	CMS	8	10M†	No	No	TS	10n	0	5.0	2.0	0.8	5.0uQ	0	7	74LS574N	LC20	
91▼	IDT74FCT574L	CMS	8	10M†	No	No	TS	10n	0	5.0	2.0	0.8	5.0uQ	0	7	74LS574N	LC19	
92▼	IDT74FCT574P	CMS	8	10M†	No	No	TS	10n	0	5.0	2.0	0.8	5.0uQ	0	7	74LS574N	DIP20a	
93▼	IDT74FCT574SO	CMS	8	10M†	No	No	TS	10n	0	5.0	2.0	0.8	5.0uQ	0	7	74LS574N	FP168	
94♦	HEF40374BP	CMS	8	12M†	No	No	TS	110n	0	10	7.0	3.0	500m	4	8	40-374	DIP20a	
95♦	HEF40374BT	CMS	8	12M†	No	No	TS	110n	0	10	7.0	3.0	400m	4	8	40-374	FP169	
96♦	PC74HCT273P	CMS	8	13M	Yes	No		53n	0	5.0	2.0	0.8	500m	4	C	74-273	DIP20b	
97	PC74HCT273T	CMS	8	13M	Yes	No		53n	0	5.0	2.0	0.8	300m	4	C	74-273	FP169	
98	74HCT273D(A)	CMS	8	15M	Yes	No		49n	0.5	7.0	2.0	0.8		4	8	74-273N	FP169	
99♦	74HCT273N(A)	CMS	8	15M	Yes	No		49n	0.5	7.0	2.0	0.8		4	8	74-273N	DIP20a	
100♦	PC74HCT534P	CMS	8	15M	No	No	TS	45n	0	5.0	2.0	0.8	500m	4	C	74LS534	DIP20b	
101♦	PC74HCT534T	CMS	8	15M	No	No	TS	45n	0	5.0	2.0	0.8	300m	4	C	74LS534	FP169	
102♦	CD54HCT273F	CMS	8	16M	Yes	No		37n	0	5.0	2.0	0.8	500m	5	C	74-273N	DIP20b	
103♦	CD54HCT377F	CMS	8	16M	No	No		41n	0	5.0	2.0	0.80	500m	5	C	74LS377N	DIP20b	
104♦	CD54HCT534F	CMS	8	16M	No	No		35n	0	5.0	2.0	0.80	500m	5	C	74LS534N	DIP20b	
105♦	CD54HCT564F	CMS	8	16M	No	No		35n	0	5.0	2.0	0.80	500m	5	C	74LS564N	DIP20b	
106	CD74HCT534M	CMS	8	16M				35n	0	5.0	2.0	0.8	300m	4	8	54LS534	FP169	
107♦	PC74HCT374P	CMS	8	17M	No	No		48n	0	5.0	2.0	0.8	500m	4	C	74LS364	DIP20b	
108	PC74HCT374T	CMS	8	17M	No	No		48n	0	5.0	2.0	0.8	300m	4	C	74LS364	FP169	
109♦	74HCT534D	CMS	8	18M	No	No	TS	38n	0.5	7.0	2.0	0.8		4	8	74LS534N	FP169	
110♦	74HCT534N	CMS	8	18M	No	No		38n	0.5	7.0	2.0	0.8		4	8	74LS534	DIP20a	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	M74HCT564B1(A)	CMS	8	18M	No	No		50n	0	5.0	2.0	0.8	500m	4	8	74LS564	DIP20a
2	M74HCT564C1(A)	CMS	8	18M	No	No		50n	0	5.0	2.0	0.8	500m	4	8	B08-174	LC33
3♦	M74HCT564F1(A)	CMS	8	18M	No	No		50n	0	5.0	2.0	0.8	500m	4	8	74LS564	DIP20b
4♦	M74HCT574B1(A)	CMS	8	18M	No	No		50n	0	5.0	2.0	0.8	500m	4	8	74LS574	DIP20a
5	M74HCT574C1(A)	CMS	8	18M	No	No		50n	0	5.0	2.0	0.8	500m	4	8	B08-175	LC33
6♦	M74HCT574F1(A)	CMS	8	18M	No	No		50n	0	5.0	2.0	0.8	500m	4	8	74LS574	DIP20b
7♦	PC74HCT377P	CMS	8	18M	No	No		48n	0	5.0	2.0	1.35	500m	4	C	74LS377	DIP20b
8	PC74HCT377T	CMS	8	18M	No	No		48n	0	5.0	2.0	1.35	300m	4	C	74LS377	FP169
9♦	PC74HCT564P	CMS	8	18M	No	No	TS	53n	0	5.0	2.0	0.8	500m	4	C	74LS564	DIP20b
10♦	PC74HCT564T	CMS	8	18M	No	No	TS	53n	0	5.0	2.0	0.8	300m	4	C	74LS564	FP169
11♦	SN54HC273J	CMS	8	18M	Yes	No		48n	0	5.0	3.15	0.90		5	C	74-273N	DIP20b
12♦	54HCT374C	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.7	0.5	5	C	74LS364N	DIP20b
13♦	54HCT374D	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.7	0.5	5	C	74LS364N	DIP20b
14♦	54HCT534C	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.7	0.5	5	C	74LS534N	DIP20b
15♦	54HCT534D	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.7	0.5	5	C	74LS534N	DIP20b
16♦	54HCT564C	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.7	0.5	5	C	74LS564N	DIP20b
17♦	54HCT564D	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.7	0.5	5	C	74LS564N	DIP20b
18♦	54HCT574C	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.7	0.5	5	C	74LS574N	DIP20b
19♦	54HCT574D	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.7	0.5	5	C	74LS574N	DIP20b
20♦	74SC374C	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.8	0.5	4	8	74LS364N	DIP20b
21♦	74SC374D	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.8	0.5	4	8	74LS364N	DIP20b
22♦	74SC374P	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.8	0.5	4	8	74LS364N	DIP20b
23♦	74SC534C	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.8	0.5	4	8	74LS534N	DIP20b
24♦	74SC534D	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.8	0.5	4	8	74LS534N	DIP20b
25♦	74SC534P	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.8	0.5	4	8	74LS534N	DIP20b
26♦	74SC564C	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.8	0.5	4	8	74LS564N	DIP20b
27♦	74SC564D	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.8	0.5	4	8	74LS564N	DIP20b
28♦	74SC564P	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.8	0.5	4	8	74LS564N	DIP20b
29♦	74SC574C	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.8	0.5	4	8	74LS574N	DIP20b
30♦	74SC574D	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.8	0.5	4	8	74LS574N	DIP20b
31♦	74SC574P	CMS	8	20M	No	No	TS	47n	0	5.0	2.0	0.8	0.5	4	8	74LS574N	DIP20b
32♦	AM2920XM	TTL	8	20M			TS	54n	0	5.0	2.0	0.70		5	C	B08-162	CH136
33♦	CD54HC273F	CMS	8	20M	Yes	No		32n	0	5.0	3.15	1.35	500m	5	C	74-273N	DIP20b
34♦	CD54HC374F	CMS	8	20M	No	No		36n	0	5.0	3.15	1.35	500m	5	C	74LS364N	DIP20b
35♦	CD54HC377F	CMS	8	20M	No	No		41n	0	5.0	3.15	1.35	500m	5	C	74LS377N	DIP20b
36♦	CD54HC534F	CMS	8	20M	No	No		33n	0	5.0	3.15	1.35	500m	5	C	74LS534N	DIP20b
37♦	CD54HC564F	CMS	8	20M	No	No		33n	0	5.0	3.15	1.35	500m	5	C	74LS564N	DIP20b
38♦	CD54HC574F	CMS	8	20M	No	No		36n	0	5.0	3.15	1.35	500m	5	C	74LS574N	DIP20b
39♦	CD54HCT374F	CMS	8	20M	No	No		35n	0	5.0	2.0	0.80	500m	5	C	74LS364N	DIP20b
40♦	CD54HCT574F	CMS	8	20M	No	No		35n	0	5.0	2.0	0.80	500m	5	C	74LS574N	DIP20b
41	CD74HC534M	CMS	8	20M				35n	0	5.0	3.15	1.35	300m	4	8	54LS534	FP169
42♦	CD74HCT273E	CMS	8	20M	Yes	No		37n	0	5.0	2.0	0.8	500m	4	8	74-273N	DIP20a
43♦	CD74HCT377E	CMS	8	20M	No	No		41n	0	5.0	2.0	0.80	500m	4	8	74LS377N	DIP20a
44	CD74HCT377M	CMS	8	20M				41n	0	5.0	2.0	0.8	300m	4	8	54LS377	FP169
45♦	CD74HCT534E	CMS	8	20M	No	No		35n	0	5.0	2.0	0.80	500m	4	8	74LS534N	DIP20a
46♦	CD74HCT564E	CMS	8	20M	No	No		35n	0	5.0	2.0	0.80	500m	4	8	74LS564N	DIP20a
47	CD74HCT564M	CMS	8	20M				35n	0	5.0	2.0	0.8	300m	4	8	54LS564	FP169
48♦	DM54LS374J	TTL	8	20M	No	No		38n		5.0	2.0	0.7		5	C	74LS364	DIP20b
49♦	M74HC273B1(A)	CMS	8	20M	Yes	No		47n	0	5.0	3.15	1.35	500n	4	8	74-273	DIP20a
50	M74HC273C1(A)	CMS	8	20M	Yes	No		47n	0	5.0	3.15	1.35	500n	4	8	B08-168	LC33
51♦	M74HC273F1(A)	CMS	8	20M	Yes	No		47n	0	5.0	3.15	1.35	500n	4	8	74-273	DIP20b
52♦	M74HC374B1(A)	CMS	8	20M	No	No		42n	0	5.0	3.15	1.35	500n	4	8	74LS364	DIP20a
53	M74HC374C1(A)	CMS	8	20M				42n	0	5.0	3.15	1.35	500n	4	8	B08-169	LC33
54♦	M74HC374F1(A)	CMS	8	20M	No	No		42n	0	5.0	3.15	1.35	500n	4	8	74LS364	DIP20b
55♦	M74HC534B1(A)	CMS	8	20M	No	No		42n	0	5.0	3.15	1.35	500n	4	8	74LS534	DIP20a
56	M74HC534C1(A)	CMS	8	20M				42n	0	5.0	3.15	1.35	500m	4	8	B08-173	LC33
57♦	M74HC534F1(A)	CMS	8	20M	No	No		42n	0	5.0	3.15	1.35	500m	4	8	74LS534	DIP20b
58♦	M74HC564B1(A)	CMS	8	20M	No	No		42n	0	5.0	3.15	1.35	500m	4	8	74LS564	DIP20a
59	M74HC564C1(A)	CMS	8	20M	No	No		42n	0	5.0	3.15	1.35	500m	4	8	B08-174	LC33
60♦	M74HC564F1(A)	CMS	8	20M	No	No		42n	0	5.0	3.15	1.35	500m	4	8	74LS564	DIP20b
61♦	M74HC574B1(A)	CMS	8	20M	No	No		42n	0	5.0	3.15	1.35	500m	4	8	74LS574	DIP20a
62	M74HC574C1(A)	CMS	8	20M	No	No		42n	0	5.0	3.15	1.35	500m	4	8	B08-175	LC33
63♦	M74HC574F1(A)	CMS	8	20M	No	No		42n	0	5.0	3.15	1.35	500m	4	8	74LS574	DIP20b
64♦	MC54HC564J(A)	CMS	8	20M	No	No		49n		5.0	2.4	1.8	500m	5	C	74AS576	DIP20b
65♦	MC54HC574J(A)	CMS	8	20M	No	No		49n		5.0	2.4	1.8	500m	5	C	74LS574	DIP20b
66♦	MC74HC564J(A)	CMS	8	20M	No	No		49n		5.0	2.4	1.8	500m	4	8	74AS576	DIP20b
67♦	MC74HC564N(A)	CMS	8	20M	No	No		49n		5.0	2.4	1.8	500m	4	8	74AS576	DIP20b
68♦	MC74HC574J(A)	CMS	8	20M	No	No		49n		5.0	2.4	1.8	500m	4	8	74LS574	DIP20b
69♦	MC74HC574N(A)	CMS	8	20M	No	No		49n		5.0	2.4	1.8	500m	4	8	74LS574	DIP20b
70♦	MM54HC273J(A)	CMS	8	20M	Yes	No		40n	0.5	7.0	4.2	1.2	500m	5	C	74-273N	DIP20b
71♦	MM54HCT374J(A)	CMS	8	20M	No	No	TS	69n		5	2.0	0.8	500m	5	C	74LS364N	DIP20b
72♦	MV74SC374(A)	CMS	8	20M	No	No		60n	0.5	7.0	2.0	0.8	450m	0	7	74LS364	DIP20b
73♦	MV74SC534(A)	CMS	8	20M	No	No		60n	0.5	7.0	2.0	0.8	450m	0	7	74LS364N	DIP20b
74♦	MV74SC564(A)	CMS	8	20M	No	No		60n	0.5	7.0	2.0	0.8	450m	0	7	74AS576	DIP20b
75♦	MV74SC574(A)	CMS	8	20M	No	No		60n	0.5	7.0	2.0	0.8	450m	0	7	74LS574N	DIP20b
76♦	PC74HC273P	CMS	8	20M	Yes	No		48n	0	5.0	3.15	1.35	500m	4	C	74-273	DIP20b
77	PC74HC273T	CMS	8	20M	Yes	No		48n	0	5.0	3.15	1.35	300m	4	C	74-273	FP169
78♦	PC74HC377P	CMS	8	20M	No	No		48n	0	5.0	3.15	1.35	500m	4	C	74LS377	DIP20b
79	PC74HC377T	CMS	8	20M	No	No		48n	0	5.0	3.15	1.35	300m	4	C	74LS377	FP169
80♦	PC74HC534P	CMS	8	20M	No	No	TS	50n	0	5.0	3.15	1.35	500m	4	C	74LS534	DIP20b
81♦	PC74HC534T	CMS	8	20M	No	No	TS	50n	0	5.0	3.15	1.35	300m	4	C	74LS534	FP169
82♦	PC74HC564P	CMS	8	20M	No	No	TS	50n	0	5.0	3.15	1.35	500m	4	C	74LS564	DIP20b
83♦	PC74HC564T	CMS	8	20M	No	No	TS	50n	0	5.0	3.15	1.35	300m	4	C	74LS564	FP169
84♦	PC74HC574P(A)	CMS	8	20M	No	No	TS	45n	0	5.0	3.15	1.35	500m	4	C	74LS574	DIP20b
85♦	PC74HC574T(A)	CMS	8	20M	No	No	TS	45n	0	5.0	3.15	1.35	300m	4	C	74LS574	FP169
86♦	PC74HCT574P(A)	CMS	8	20M	No	No	TS	53n	0	5.0	2.0	0.8	500m	4	C	74LS574	DIP20b
87♦	PC74HCT574T(A)	CMS	8	20M	No	No	TS	53n	0	5.0	2.0	0.8	300m	4	C	74LS574	FP169
88♦	SN54HC374J	CMS	8	20M	No	No	TS	69n	0	5.0	3.15	0.9		5	C	74LS364N	DIP20b
89▼	SN74HC377DW	CMS	8	20M	No	No		40n	0	5.0	3.15	0.9		4	8	74LS377N	FP169
90♦	SN74HC377N	CMS	8	20M	No	No		40n	0	5.0	3.15	0.9		4	8	74LS377N	DIP20a
91	TC40H273F	CMS	8	20M				68n	0	10.0	4.0	1.0	180m	4	8	54-273W	FP168
92♦	TC40H273P	CMS	8	20M	Yes	No		68n	0	10.0	4.0	1.0	300m	4	8	74-273N	DIP20b
93♦	74HCT374D	CMS	8	21M	No	No	TS	40n	0.5	7.0	2.0	0.8		4	8	74AS576	FP169
94♦	74HCT374N	CMS	8	21M	No	No	TS	40n	0.5	7.0	2.0	0.8		4	8	74AS576	DIP20a
95♦	SN54HC534J(A)	CMS	8	21M	No	No	TS	54n	0	5.0	3.15	0.90		5	C	74LS534N	DIP20b
96▼	SN54HCT374J(A)	CMS	8	21M	No	No	TS	54n	0.0	5.0	2.0	0.8		5	C	74AS576	DIP20a
97▼	SN74HC273D	CMS	8	21M	Yes	No		40n	0	5.0	3.15	0.90		4	8	74-273N	FP169
98♦	SN74HC273N	CMS	8	21M	Yes	No		40n	0	5.0	3.15	0.90		4	8	74-273N	DIP20a
99	74HCT377D	CMS	8	22M	No	No		40n	0.5	7.0	2.0	0.8		4	8	74LS377	FP169
100♦	74HCT377N	CMS	8	22M	No	No		40n	0.5	7.0	2.0	0.8		4	8	74LS377	DIP20a
101♦	74HCT564D	CMS	8	22M	No	No	TS	44n	0.5	7.0	2.0	0.8	5	4	8	74LS564N	FP169
102♦	74HCT564N	CMS	8	22M	No	No		44n	0.5	7.0	2.0	0.8		4	8	74LS564	DIP20a
103♦	MM54HC374J	CMS	8	23M	No	No	TS	60n	0.5	7.0	4.2	1.2	500m	5	C	74LS364N	DIP20b
104♦	MM54HC534J	CMS	8	23M	No	No	TS	50n	0.5	7.0	4.2	1.2	500m	5	C	74LS534N	DIP20b
105♦	MM54HC564J	CMS	8	23M	No	No	TS	41n	0	5.0	4.2	1.2	500m	5	C	74LS564N	DIP20b
106♦	MM54HC574J	CMS	8	23M	No	No	TS	41n	0	4.5	3.15	1.35	500m	5	C	54LS574W	DIP14a
107▼	HD74HC273FP	CMS	8	24M	Yes	No		18n	0	5.0	3.15	1.35	500m	4	8	74-273N	FP168
108▼	HD74HC273P	CMS	8	24M	Yes	No		18n	0	5.0	3.15	1.35	500m	4	8	74-273N	DIP20a
109▼	HD74HC374FP	CMS	8	24M	No	No	TS	18n	0	5.0	3.15	1.34	500m	4	8	74LS364N	FP168
110▼	HD74HC374P	CMS	8	24M	No	No	TS	18n	0	5.0	3.15	1.35	500m	4	8	74LS364N	DIP20a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING	
1▼	HD74HC377FP	CMS	8	24M	No	No		13n	0	5.0	3.15	1.35	500m	4	8	74LS377N	FP168	
2▼	HD74HC377P	CMS	8	24M	No	No		13n	0	5.0	3.15	1.35	500m	4	8	74LS377N	DIP20a	
3▼	HD74HC564FP	CMS	8	24M	No	No	TS	13n	0	5.0	3.15	1.35	500m	4	8	74AS576	FP168	
4▼	HD74HC564P	CMS	8	24M	No	No	TS	13n	0	5.0	3.15	1.35	500m	4	8	74AS576	DIP20a	
5▼	HD74HC574FP	CMS	8	24M	No	No	TS	13n	0	5.0	3.15	1.35	500m	4	8	74LS574N	FP168	
6▼	HD74HC574P	CMS	8	24M	No	No	TS	13n	0	5.0	3.15	1.35	500m	4	8	74LS574N	DIP20a	
7▼	HD74HCT374FP	CMS	8	24M	No	No	TS	15n	0	5.0	2.0	0.8	500m	4	8	74LS364N	FP168	
8▼	HD74HCT374P	CMS	8	24M	No	No	TS	15n	0	5.0	2.0	0.8	500m	4	8	74LS364N	DIP20a	
9▼	HD74HCT534FP	CMS	8	24M	No	No	TS	15n	0	5.0	2.0	0.8	500m	4	8	74LS534N	FP168	
10▼	HD74HCT534P	CMS	8	24M	No	No	TS	15n	0	5.0	2.0	0.8	500m	4	8	74LS534N	DIP20a	
11▼	HD74HCT564FP	CMS	8	24M	No	No	TS	15n	0	5.0	2.0	0.8	500m	4	8	74LS564	FP168	
12▼	HD74HCT564P	CMS	8	24M	No	No	TS	15n	0	5.0	2.0	0.8	500m	4	8	74LS564	DIP20a	
13▼	HD74HCT574FP	CMS	8	24M	No	No	TS	15n	0	5.0	2.0	0.8	500m	4	8	74LS574N	FP168	
14▼	HD74HCT574P	CMS	8	24M	No	No	TS	15n	0	5.0	2.0	0.8	500m	4	8	74LS574N	DIP20a	
15♦	MM74HC273J(A)	CMS	8	24M	Yes	No		33n	0.5	7.0	4.2	1.2	500m	4	8	74-273	DIP20b	
16♦	MM74HC273N(A)	CMS	8	24M	Yes	No		33n	0.5	7.0	4.2	1.2	500m	4	8	74-273	DIP20a	
17♦	MM74HCT374J(A)	CMS	8	24M	No	No	TS	57n	0.5	7.0	2.0	0.8	500m	4	8	74LS364N	DIP20b	
18♦	MM74HCT374N(A)	CMS	8	24M	No	No	TS	57n	0.5	7.0	2.0	0.8	500m	4	8	74LS364N	DIP20a	
19♦	SN74HC374N	CMS	8	24M	No	No	TS	58n	0	5.0	3.15	0.9		4	9	74LS364N	DIP20a	
20♦	SN74HC574N	CMS	8	24M	No	No	TS	66n	0	5.0	3.15	0.9		4	8	74LS574N	DIP20b	
21▼	SN74HCT574N	CMS	8	24M	No	No	TS	66n		5.0	2.0	0.8	1.0	4	8	74LS574	DIP20b	
22♦	AM2920DC	TTL	8	25M			TS	45n	0	5.0	2.0	0.80		0	7	B08-162	DIP22b	
23♦	AM2920LC	TTL	8	25M			TS	45n	0	5.0	2.0	0.80		0	7	B08-162	LC18	
24♦	AM2920PC	TTL	8	25M			TS	45n	0	5.0	2.0	0.8		0	7	B08-162	DIP22a	
25♦	AM8120DC	TTL	8	25M†	Yes	No	TS	43n	0	5.0	2.0	0.8		0	7	B08-164	DIP24a	
26♦	AM8120LC	TTL	8	25M	Yes	No	TS	43n	0	5.0	2.0	0.80		0	7	B08-164	LC18	
27♦	AM8120PC	TTL	8	25M†	Yes	No	TS	43n	0	5.0	2.0	0.8		0	7	B08-164	DIP24a	
28♦	CD74HC273E	CMS	8	25M	Yes	No		32n	0	5.0	3.15	1.35	500m	4	8	74-273N	DIP20a	
29	CD74HC273M	CMS	8	25M	Yes	No		32n	0.5	7.0	3.15	1.35	300m	4	8	74-273	FP169	
30♦	CD74HC374E	CMS	8	25M	No	No		36n	0	5.0	3.15	1.35	500m	4	8	74LS364N	DIP20a	
31	CD74HC374M	CMS	8	25M				36n	0	5.0	3.15	1.35	300m	4	8	54S374	FP169	
32♦	CD74HC377E	CMS	8	25M	No	No		41n	0	5.0	3.15	1.35	500m	4	8	74LS377N	DIP20a	
33	CD74HC377M	CMS	8	25M				41n	0	5.0	3.15	1.35	300m	4	8	54LS377	FP169	
34♦	CD74HC534E	CMS	8	25M	No	No		33n	0	5.0	3.15	1.35	500m	4	8	74LS534N	DIP20a	
35♦	CD74HC564E	CMS	8	25M	No	No		33n	0	5.0	3.15	1.35	500m	4	8	74LS564N	DIP20a	
36	CD74HC564M	CMS	8	25M				35n	0	5.0	3.15	1.35	300m	4	8	54LS564	FP169	
37♦	CD74HC574E	CMS	8	25M	No	No		36n	0	5.0	3.15	1.35	500m	4	8	74LS574N	DIP20a	
38	CD74HC574M	CMS	8	25M				36n	0	5.0	3.15	1.35	300m	4	8	54LS574	FP169	
39	CD74HCT273M	CMS	8	25M				32n	0	5.0	3.15	1.35	300m	4	8	54LS273	FP169	
40♦	CD74HCT374E	CMS	8	25M	No	No		35n	0	5.0	2.0	0.80	500m	4	8	74LS364N	DIP20a	
41	CD74HCT374M	CMS	8	25M				35n	0	5.0	2.0	0.8	300m	4	8	54S374	FP169	
42♦	CD74HCT574E	CMS	8	25M	No	No		35n	0	5.0	2.0	0.80	500m	4	8	74LS574N	DIP20a	
43	CD74HCT574M	CMS	8	25M				35n	0	5.0	2.0	0.8	300m	4	8	54LS574	FP169	
44♦	DM54ALS564J	TTL	8	25M	No	No		15n	0	5.0	2.0	0.8		5	C	74LS564	DIP20b	
45♦	DM54ALS576J	TTL	8	25M	No	No		15n	0	5.0	2.0	0.8		5	C	74AS576	DIP20b	
46♦	DM54ALS874J	TTL	8	25M	Yes	No		15n	0	5.0	2.0	0.8		5	C	74AS874	DIP24a	
47♦	M74HC377B1(A)	CMS	8	25M	No	No		39n	0	5.0	3.15	1.35	500m	4	8	74LS377	DIP20a	
48	M74HC377C1(A)	CMS	8	25M				39n	0	5.0	3.15	1.35	500m	4	8	B08-170	LC33	
49♦	M74HC377F1(A)	CMS	8	25M	No	No		39n	0	5.0	3.15	1.35	500m	4	8	74LS377	DIP20b	
50▼	SN54ALS576AJ	TTL	8	25M	No	No	TS	15n	0	5.0	2.0	0.7		5	C	74AS576	DIP20b	
51♦	SN74HC534N(A)	CMS	8	25M	No	No	TS	45n	0	5.0	3.15	0.90		4	8	74LS534N	DIP20a	
52♦	SN74HC564N	CMS	8	25M	No	No	TS	45n	0	5.0	3.15	0.9		4	8	74LS564N	DIP10	
53▼	SN74HCT374N(A)	CMS	8	25M	No	No	TS	45n	0.0	5.0	2.0	0.8		4	8	74AS576	DIP20a	
54▼	SN74HCT534N(A)	CMS	8	25M	No	No	TS	45n	0.0	5.0	2.0	0.8		4	8	74LS534	DIP20a	
55▼	SN74HCT564N	CMS	8	25M	No	No	TS	66n		5.0	2.0	0.8		4	8	74LS564	DIP20b	
56♦	TC40H374F	CMS	8	25M			TS	57n	0	10.0	4.0	1.0	180m	4	8	54LS374W	FP168	
57♦	TC40H374P	CMS	8	25M	No	No	TS	57n	0	5	4.0	1.0	300m	4	8	74LS364N	DIP20b	
58♦	TC74HC273P(A)	CMS	8	25M	Yes	No	TP	39n	0	5.0	3.15	1.35	500m	4	8	74-273N	DIP20b	
59	74HC273D	CMS	8	28M	Yes	No		34n	0.5	7.0	4.2	1.8		4	8	74-273N	FP169	
60♦	74HC273N	CMS	8	28M	Yes	No		34n	0.5	7.0	4.2	1.8		4	8	74-273N	DIP20a	
61	74HC374D	CMS	8	28M	No	No		38n	0.5	7.0	4.2	1.8		4	8	74AS576	FP169	
62♦	74HC374N	CMS	8	28M	No	No		38n	0.5	7.0	4.2	1.8		4	8	74AS576	DIP20a	
63	74HC377D	CMS	8	28M	No	No		34n	0.5	7.0	4.2	1.8		4	8	74LS377	FP169	
64♦	74HC377N	CMS	8	28M	No	No		34n	0.5	7.0	4.2	1.8		4	8	74LS377	DIP20a	
65	74HC534D	CMS	8	28M	No	No		35n		5.0	3.15	1.35		4	8	74LS534	FP169	
66♦	74HC534N	CMS	8	28M	No	No		35n		5.0	3.15	1.35		4	8	74LS534	DIP20a	
67	74HC564D	CMS	8	28M	No	No		35n		5.0	3.15	1.35		4	8	74LS564	FP169	
68♦	74HC564N	CMS	8	28M	No	No		35n		5.0	3.15	1.35		4	8	74LS564	DIP20a	
69♦	MM74HC374J	CMS	8	28M	No	No	TS	50n	0.5	7.0	4.2	1.2	500m	4	8	74LS364N	DIP20b	
70♦	MM74HC534J	CMS	8	28M	No	No	TS	50n	0.5	7.0	4.2	1.2	500m	4	8	74LS534N	DIP20b	
71♦	MM74HC534N	CMS	8	28M	No	No	TS	50n	0.5	7.0	4.2	1.2	500m	4	8	74LS534N	DIP20a	
72♦	MM74HC564J	CMS	8	28M	No	No	TS	34n	0.5	7.0	4.2	1.2	500m	4	8	74LS564N	DIP20b	
73♦	MM74HC564N	CMS	8	28M	No	No	TS	34n	0.5	7.0	4.2	1.2	500m	4	8	74LS564N	DIP20a	
74♦	MM74HC574J	CMS	8	28M	No	No	TS	34n	0.5	7.0	4.2	1.2	500m	4	8	74LS574N	DIP20b	
75♦	MM74HC574N	CMS	8	28M	No	No	TS	34n	0.5	7.0	4.2	1.2	500m	4	8	74LS574N	DIP20a	
76▼	SN54ALS574AJ	TTL	8	28M	No	No	TS	22n	0	5.0	2.0	0.7		5	C	74LS574N	DIP20b	
77♦	54LS377DM	TTL	8	30M†	No	No		25n	0	5.0	2.0	0.8	140m	5	C	74LS377N	DIP20b	
78♦	54LS377FM	TTL	8	30M†				25n	0	5.0	2.0	0.8	140m	5	C	54LS377W	FP144	
79♦	74LS273DC	TTL	8	30M†	Yes	No		27n	0	5.0	2.0	0.8	135n	0	7	74-273N	DIP20b	
80♦	74LS273PC(1)	TTL	8	30M†	Yes	No		27n	0	5.0	2.0	0.8	135m	0	7	74-273N	DIP20a	
81♦	74LS377DC	TTL	8	30M†	No	No		25n	0	5.0	2.0	0.8	140m	0	7	74LS377N	DIP20b	
82♦	74LS377PC	TTL	8	30M†	No	No		251n	0	5.0	2.0	0.8	140m	0	7	74LS377N	DIP20a	
83♦	DM54ALS273J	TTL	8	30M	Yes	No		17n	0	5.0	2.0	0.8		5	C	74-273	DIP20b	
84♦	DM54ALS374J	TTL	8	30M	No	No		18n	0	5.0	2.0	0.8		5	C	74LS364	DIP20b	
85♦	DM54ALS534J	TTL	8	30M	No	No		18n	0	5.0	2.0	0.8		5	C	74LS534	DIP20b	
86♦	DM54ALS574J	TTL	8	30M	No	No		15n	0	5.0	2.0	0.8		5	C	74LS574	DIP20b	
87♦	DM74ALS564J	TTL	8	30M	No	No		14n	0	5.0	2.0	0.8		0	7	74LS564	DIP20b	
88♦	DM74ALS564N	TTL	8	30M	No	No		14n	0	5.0	2.0	0.8		0	7	74LS564	DIP20a	
89♦	DM74ALS576J	TTL	8	30M	No	No		14n	0	5.0	2.0	0.8		0	7	74AS576	DIP20b	
90♦	DM74ALS576N	TTL	8	30M	No	No		14n	0	5.0	2.0	0.8		0	7	74AS576	DIP20a	
91♦	DM74ALS874J	TTL	8	30M	Yes	No		14n	0	5.0	2.0	0.8		0	7	74AS874	DIP24a	
92♦	DM74ALS874N	TTL	8	30M	Yes	No		14n	0	5.0	2.0	0.8		0	7	74AS874	DIP24a	
93♦	DM74ALS876J	TTL	8	30M	No	Yes	TS	14n	0	5.0	2.0	0.8		0	7	74AS876	DIP24a	
94♦	DM74ALS876N	TTL	8	30M	No	Yes	TS	14n	0	5.0	2.0	0.8		0	7	74AS876	DIP24a	
95▼	HD74LS273G	TTL	8	30M	Yes	No		27n	0	5.0	2.0	0.8	400m	2	7	74LS132N	DIP20b	
96▼	HD74LS273P	TTL	8	30M	Yes	No		27n	0	5.0	2.0	0.8	400m	2	7	74LS132N	DIP20a	
97♦	M74ALS575P	TTL	8	30M	No	No	TS	15n	0.5	7.0	2.0	0.8	149m	2	7	74ALS575	DIP24e	
98♦	M74ALS576P	TTL	8	30M	No	No	TS	15n	0.5	7.0	2.0	0.8	130m	2	7	74AS576	DIP20a	
99♦	M74ALS577P	TTL	8	30M	Yes	No	TS	15n	0.5	7.0	2.0	0.8	149m	2	7	74ALS577	DIP24e	
100♦	M74ALS874P	TTL	8	30M	Yes	No	TS	25n	0.5	7.0	2.0	0.8	150m	2	7	74AS874	DIP24e	
101♦	M74ALS876P	TTL	8	30M	No	Yes	TS	15n	0.5	7.0	2.0	0.8	150m	2	7	74AS876	DIP24e	
102♦	MC54HC273J(A)	CMS	8	30M	Yes	No		28n	0	5.0	3.2	1.1	500m	5	C	74-273N	DIP20	☑
103♦	MC54HC374J(A)	CMS	8	30M	No	No		28n	0	5.0	3.2	1.1	500m	5	C	74LS364N	DIP20	☑
104♦	MC54HC534J(A)	CMS	8	30M	No	No		28n	0	5.0	3.2	1.1	500m	5	C	74LS534N	DIP20	☑
105♦	MC74HC273J(A)	CMS	8	30M	Yes	No		28n	0	5.0	3.2	1.1	500m	4	8	74-273N	DIP20	☑
106♦	MC74HC273N(A)	CMS	8	30M	Yes	No		28n	0	5.0	3.2	1.1	500m	4	8	74-273N	DIP20	☑
107♦	MC74HC374J(A)	CMS	8	30M	No	No		28n	0	5.0	3.2	1.1	500m	4	8	74LS364N	DIP20	☑
108♦	MC74HC374N(A)	CMS	8	30M	No	No		28n	0	5.0	3.2	1.1	500m	4	8	74LS364N	DIP20	☑
109♦	MC74HC534J(A)	CMS	8	30M	No	No		28n	0	5.0	3.2	1.1	500m	4	8	74LS534N	DIP20	☑
110♦	MC74HC534N(A)	CMS	8	30M	No	No		28n	0	5.0	3.2	1.1	500m	4	8	74LS534N	DIP20	☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1	N74LS273D	TTL	8	30M	Yes	No		27n	0.5	7.0	2.0	0.8		0	7	74-273N	FP169
2♦	N74LS273N	TTL	8	30M	Yes	No		27n	0.5	7.0	2.0	0.8		0	7	74-273N	DIP20d
3♦	N74LS377D	TTL	8	30M	No	No		27n	0	5.0	2.0	0.8		0	7	74LS377N	DIP20 ☑
4♦	N74LS377N	TTL	8	30M	No	No		27n	0	5.0	2.0	0.8		0	7	74LS377N	DIP20 ☑
5♦	S54LS273F	TTL	8	30M	Yes	No		27n	0.5	7.0	2.0	0.7		5	C	74-273N	DIP20b
6	S54LS273G	TTL	8	30M				27n	0.5	7.0	2.0	0.7		5	C	B08-137	LC24
7♦	S54LS377F	TTL	8	30M	No	No		27n	0.5	7.0	2.0	0.7		5	C	74LS377N	DIP20b
8♦	SN54ALS273J	TTL	8	30M	Yes	No	TP	20n	0	5.0	2.0	0.7		5	C	74-273N	DIP16a
9♦	SN54ALS374J	TTL	8	30M	No	No	TS	21n	0	5.0	2.0	0.8		5	C	74LS364N	DIP20b
10▼	SN74ALS564ADW	TTL	8	30M	No	No	TS	18n	0	5.0	2.0	0.8		0	7	74AS576	FP169
11▼	SN74ALS564AN	TTL	8	30M	No	No	TS	18n	0	5.0	2.0	0.8		0	7	74AS576	DIP20a
12▼	SN74ALS575ADW	TTL	8	30M	No	No	TS	14n	0	5.0	2.0	0.8		0	7	74ALS575	FP170
13▼	SN74ALS575AFN	TTL	8	30M	No	No	TS	14n	0	5.0	2.0	0.8		0	7	54ALS575	LC27
14▼	SN74ALS575ANT	TTL	8	30M	No	No	TS	14n	0	5.0	2.0	0.8		0	7	74ALS575	DIP24e
15▼	SN74ALS576ADW	TTL	8	30M	No	No	TS	14n	0	5.0	2.0	0.8		0	7	74AS576	FP169
16▼	SN74ALS576AN	TTL	8	30M	No	No	TS	14n	0	5.0	2.0	0.8		0	7	74AS576	DIP20b
17▼	SN74ALS577ADW	TTL	8	30M	Yes	No	TS	14n	0	5.0	2.0	0.8		0	7	74ALS577	FP170
18▼	SN74ALS577AFN	TTL	8	30M	Yes	No	TS	14n	0	5.0	2.0	0.8		0	7	74ALS577	LC27
19▼	SN74ALS577ANT	TTL	8	30M	Yes	No	TS	14n	0	5.0	2.0	0.8		0	7	74ALS577	DIP24e
20▼	SN74ALS874BDW	TTL	8	30M	Yes	No	TS	14n	0	5.0	2.0	0.8		0	7	74AS874	FP170
21▼	SN74ALS876ADW	TTL	8	30M	No	Yes	TS	14n	0.0	5.0	2.0	0.8		0	7	74AS876	FP170
22▼	SN74ALS876ANT	TTL	8	30M	No	Yes	TS	14n	0.0	5.0	2.0	0.8		0	7	74AS876	DIP24e
23▼	SN74LS273N	TTL	8	30M	Yes	No	TP	27n	0.0	5.0	2.0	0.8		0	7	74-273N	DIP20a
24♦	M74HC273P	CMS	8	32M	Yes	No		34n	0	6.0	4.2	1.8		4	8	74-273	DIP20a
25♦	M74HC374P	CMS	8	32M	No	No		31n	0	6.0	4.2	1.8		4	8	74LS364	DIP20a
26♦	M74HC534P	CMS	8	32M	No	No		31n	0	6.0	4.2	1.8		4	8	74LS534	DIP20a
27♦	M74ALS273P	TTL	8	33M	Yes	No		19n	0.5	7.0	2.0	0.8		2	7	74-273	DIP20a
28♦	M74ALS374P	TTL	8	33M	Yes	No		19n	0.5	7.0	2.0	0.8		2	7	74-274	DIP20a
29♦	M74ALS534P	TTL	8	33M	Yes	No		19n	0.5	7.0	2.0	0.8		2	7	74LS534	DIP20a
30♦	54LS374DM	TTL	8	35M†	No	No		28n	0	5.0	2.0	0.8	225m	5	C	74LS364N	DIP20b
31	54LS374FM	TTL	8	35M†				28n	0	5.0	2.0	0.8	225m	5	C	54S374W	FP144
32♦	54LS534DM	TTL	8	35M†	No	No		28n	0	5.0	2.0	0.8	225m	5	C	74LS534N	DIP20b
33	54LS534FM	TTL	8	35M†				28n	0	5.0	2.0	0.8	225m	5	C	54LS534W	FP144
34♦	54LS564DM	TTL	8	35M†	No	No		28n	0	5.0	2.0	0.8	225m	5	C	74LS564N	DIP20b
35	54LS564FM	TTL	8	35M†				28n	0	5.0	2.0	0.8	225m	5	C	54LS564W	FP144
36♦	54LS574DM	TTL	8	35M†	No	No		28n	0	5.0	2.0	0.8	200m	5	C	74LS574N	DIP20b
37	54LS574FM	TTL	8	35M†				28n	0	5.0	2.0	0.8	200m	5	C	54LS574W	FP144
38♦	74HCT374C	CMS	8	35M	No	No	TS	38n	0	5.0	2.0	0.8	0.5	4	8	74LS364N	DIP20b
39♦	74HCT374P	CMS	8	35M	No	No	TS	38n	0	5.0	2.0	0.8	0.5	4	8	74LS364N	DIP20b
40♦	74HCT534C	CMS	8	35M	No	No	TS	38n	0	5.0	2.0	0.8	0.5	4	8	74LS534N	DIP20b
41♦	74HCT534P	CMS	8	35M	No	No	TS	38n	0	5.0	2.0	0.8	0.5	4	8	74LS534N	DIP20b
42♦	74HCT564C	CMS	8	35M	No	No	TS	38n	0	5.0	2.0	0.8	0.5	4	8	74LS564N	DIP20b
43♦	74HCT564P	CMS	8	35M	No	No	TS	38n	0	5.0	2.0	0.8	0.5	4	8	74LS564N	DIP20b
44♦	74HCT574C	CMS	8	35M	No	No	TS	38n	0	5.0	2.0	0.8	0.5	4	8	74LS574N	DIP20b
45♦	74HCT574D	CMS	8	35M	No	No	TS	38n	0	5.0	2.0	0.8	0.5	4	8	74LS574N	DIP20b
46♦	74HCT574P	CMS	8	35M	No	No	TS	38n	0	5.0	2.0	0.8	0.5	4	8	74LS574N	DIP20b
47♦	74LS374DC	TTL	8	35M†	No	No		28n	0	5.0	2.0	0.8	225m	5	7	74LS364N	DIP20b
48♦	74LS374PC(1)	TTL	8	35M†	No	No		28n	0	5.0	2.0	0.8	225m	0	7	74LS364N	DIP20a
49♦	74LS534DC	TTL	8	35M†	No	No		28n	0	5.0	2.0	0.8	225m	0	7	74LS534N	DIP20b
50♦	74LS534PC	TTL	8	35M†	No	No		28n	0	5.0	2.0	0.8	225m	0	7	74LS534N	DIP20a
51♦	DM74ALS273J	TTL	8	35M	Yes	No		15n	0	5.0	2.0	0.8		0	7	74-273	DIP20b
52♦	DM74ALS273N	TTL	8	35M	Yes	No		15n	0	5.0	2.0	0.8		0	7	74-273	DIP20a
53♦	DM74ALS374J	TTL	8	35M	No	No		16n	0	5.0	2.0	0.8		0	7	74LS364	DIP20b
54♦	DM74ALS374N	TTL	8	35M	No	No		16n	0	5.0	2.0	0.8		0	7	74LS364	DIP20a
55♦	DM74ALS534J	TTL	8	35M	No	No		16n	0	5.0	2.0	0.8		0	7	74LS534	DIP20b
56♦	DM74ALS534N	TTL	8	35M	No	No		16n	0	5.0	2.0	0.8		0	7	74LS534	DIP20a
57♦	DM74ALS574J	TTL	8	35M	No	No		14n	0	5.0	2.0	0.8		0	7	74LS574	DIP20b
58♦	DM74ALS574N	TTL	8	35M	No	No		14n	0	5.0	2.0	0.8		0	7	74LS574	DIP20a
59▼	HD74HC534FP	CMS	8	35M	No	No	TS	18n	0	5.0	3.15	1.35	500m	4	8	74LS534N	FP168
60▼	HD74HC534P	CMS	8	35M	No	No	TS	18n	0	5.0	3.15	1.35	500m	4	8	74LS534N	DIP20a
61▼	HD74LS374G	TTL	8	35M	No	No		28n	0	5.0	2.0	0.8		2	7	74LS364	DIP20b
62▼	HD74LS374P	TTL	8	35M	No	No		28n	0	5.0	2.0	0.8		2	7	74LS364	DIP20a
63♦	N74LS364N	TTL	8	35M	No	No		34n	0.5	7.0	2.0	0.8		0	7	74LS364N	DIP20d
64	N74LS374D	TTL	8	35M	No	No		18n	0.5	7.0	2.0	0.8		0	7	74LS364N	FP169
65♦	N74LS374N	TTL	8	35M	No	No		18n	0.5	7.0	2.0	0.8		0	7	74LS364N	DIP20d
66♦	S54LS364F	TTL	8	35M	No	No		34n	0.5	7.0	2.0	0.7		5	C	74LS364N	DIP20b
67	S54LS364G	TTL	8	35M	No	No		34n	0.5	7.0	2.0	0.7		5	C	74LS364N	LC24
68♦	S54LS374F	TTL	8	35M	No	No		18n	0.5	7.0	2.0	0.7		5	C	74LS364N	DIP20b
69	S54LS374G	TTL	8	35M				18n	0.5	7.0	2.0	0.7		5	C	B08-179	LC24
70▼	SN74ALS273DW	TTL	8	35M	Yes	No	TP	15n	0	5.0	2.0	0.8		0	7	74-273N	FP169
71♦	SN74ALS273N	TTL	8	35M	Yes	No	TP	15n	0	5.0	2.0	0.8		0	7	74-273N	DIP16a
72▼	SN74ALS374DW	TTL	8	35M	No	No	TS	16n	0	5.0	2.0	0.8		0	7	74LS364	FP169
73♦	SN74ALS374N	TTL	8	35M	No	No	TS	16n	0	5.0	2.0	0.8		0	7	74LS364	DIP20a
74▼	SN74ALS534DW	TTL	8	35M	No	No	TS	18n	0	5.0	2.0	0.8		0	7	74LS534N	FP169
75♦	SN74ALS534N	TTL	8	35M	No	No	TS	18n	0	5.0	2.0	0.8		0	7	74LS534N	DIP20a
76▼	SN74ALS574ADW	TTL	8	35M	No	No	TS	14n	0	5.0	2.0	0.8		0	7	74LS574N	FP169
77▼	SN74ALS574AN	TTL	8	35M	No	No	TS	14n	0	5.0	2.0	0.8		0	7	74LS574N	DIP20b
78▼	CD54AC374F(A)	CMS	8	36M	No	No	TS	5.6n		5.0	3.85	1.65	500m	5	C	54LS374W	MS001c
79▼	CD74AC374E(A)	CMS	8	36M	No	No	TS	5.6n		5.0	3.85	1.65	500m	4	8	74LS364N	MS001c
80▼	CD74AC374M(A)	CMS	8	36M	No	No	TS	5.6n		5.0	3.85	1.65	400m	4	8	74LS364N	FP169
81♦	M54HCT564F1(A)	CMS	8	38M	No	No		41n	0	5.0	2.0	0.8	500m	5	C	74LS564	DIP20b
82♦	M54HCT574F1(A)	CMS	8	38M	No	No		41n	0	5.0	2.0	0.8	500m	5	C	74LS574	DIP20b
83♦	AM25LS2520DC(1)	TTL	8	40M	Yes	No		35n	0	5.0	2.0	0.8		0	7	B08-164	DIP22b
84♦	AM25LS2520DCB	TTL	8	40M	Yes	No		35n	0	5.0	2.0	0.8		0	7	B08-164	DIP22b
85♦	AM25LS2520DM(1)	TTL	8	40M	Yes	No		35n	0	5.0	2.0	0.7		5	C	B08-164	DIP22b
86♦	AM25LS2520DMB	TTL	8	40M	Yes	No		35n	0	5.0	2.0	0.7		5	C	B08-164	DIP22b
87	AM25LS2520FM	TTL	8	40M	Yes	No		35n	0	5.0	2.0	0.7		5	C	B08-164	FP66b
88	AM25LS2520FMB	TTL	8	40M	Yes	No		35n	0	5.0	2.0	0.7		5	C	B08-164	FP66b
89	AM25LS2520LC	TTL	8	40M	Yes	No		35n	0	5.0	2.0	0.8		0	7	B08-164	LC18
90	AM25LS2520LCB	TTL	8	40M	Yes	No		35n	0	5.0	2.0	0.8		0	7	B08-164	LC18
91	AM25LS2520LM	TTL	8	40M	Yes	No		35n	0	5.0	2.0	0.7		5	C	B08-164	LC18
92	AM25LS2520LMB	TTL	8	40M	Yes	No		35n	0	5.0	2.0	0.7		5	C	B08-164	LC18
93♦	AM25LS2520PC(1)	TTL	8	40M	Yes	No		35n	0	5.0	2.0	0.8		0	7	B08-164	DIP22b
94♦	AM25LS2520PCB	TTL	8	40M	Yes	No		35n	0	5.0	2.0	0.8		0	7	B08-164	DIP22b
95	AMZ8120	TTL	8	40M				35n	0	5.0	2.0	0.8		0	7	B08-131	DL ☑
96♦	M74LS273P	TTL	8	40M	Yes	No		27n	0.5	7.0	2.0	0.8	135m	2	7	74-273N	DIP20a
97♦	M74LS374P	TTL	8	40M	No	No	TS	28n	0.5	7.0	2.0	0.8	225m	2	7	74LS364N	DIP20a
98♦	M74LS377P	TTL	8	40M	No	No		27n	0.5	7.0	2.0	0.8	140m	2	7	74LS377N	DIP20a
99♦	SN54LS273J(1)	TTL	8	40M	Yes	No	TP	27n	0	5.0	2.0	0.7		5	C	74-273N	DIP20b
100▼	SN54LS273N	TTL	8	40M	Yes	No	TP	27n	0	5.0	2.0	0.7		5	C	74-273N	DIP20b
101♦	SN54LS377J	TTL	8	40M	No	No	TP	27n	0	5.0	2.0	0.7	80m†	5	C	74LS377	DIP20b
102♦	SN54LS377N	TTL	8	40M†	Yes	No		27n		5.0	2.0	0.7		5	C	54LS377	DIP20b
103♦	SN74LS377DW	TTL	8	40M	No	No	TP	27n	0	5.0	2.0	0.8	80m†	0	7	74LS377	FP169
104	SN74LS377FN	TTL	8	40M				27n	0	7.0	2.0	0.8	80m†	0	7	B08-170	LC20
105♦	SN74LS377J	TTL	8	40M	No	No		27n	0	7.0	2.0	0.8	80m†	0	7	74LS377	DIP20b
106♦	SN74LS377N	TTL	8	40M	No	No	TP	27n	0	5.0	2.0	0.8	80m†	0	7	74LS377	DIP20a
107♦	SN74273N(1)	TTL	8	40M	Yes	No		27n	0	7.0	2.0	0.8		0	7	74-273N	DIP20a
108▼	TC74HCT374F(A)	CMS	8	41M†	No	No	TS	50n	0	5.0	2.0	0.8	180m	4	8	74LS364N	FP168
109▼	TC74HCT374P(A)	CMS	8	41M†	No	No	TS	50n	0	5.0	2.0	0.8	500m	4	8	74LS364N	DIP20a
110▼	TC74HCT564P(A)	CMS	8	41M†	No	No	TS	51n	0	5.0	2.0	0.8	500m	4	8	74LS564	DIP20a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	3 TYPE NUMBER	TECH	1 CKTS PER PKG	2 f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING	
1▼	TC74HCT574P(A)	CMS	8	41M†	No	No	TS	51n	0	5.0	2.0	0.8	500m	4	8	74LS574N	DIP20a	
2♦	54LS273DM	TTL	8	45M	Yes	No		27n	0	5.0	2.0	0.7	85m†	5	C	74-273N	DIP20b	
3	54LS273FM	TTL	8	45M				27n	0	5.0	2.0	0.7	85m†	5	C	54LS273W	FP144	
4♦	M54HC374F1(A)	CMS	8	45M	No	No		35n	0	5.0	3.15	1.35	500n	5	C	74LS364	DIP20b	
5♦	M54HC534F1(A)	CMS	8	45M	No	No		35n	0	5.0	3.15	1.35	500n	5	C	74LS534	DIP20b	
6♦	M54HC564F1(A)	CMS	8	45M	No	No		35n	0	5.0	3.15	1.35	500m	5	C	74LS564	DIP20b	
7♦	M54HC574F1(A)	CMS	8	45M	No	No		35n	0	5.0	3.15	1.35	500m	5	C	74LS574	DIP20b	
8▼	TC74HC374F(A)	CMS	8	45M†	No	No	TS	44n	0	5.0	3.15	1.35	180m	4	8	74LS364N	FP168	
9▼	TC74HC374P(A)	CMS	8	45M†	No	No	TS	44n	0	5.0	3.15	1.35	500m	4	8	74LS364N	DIP20a	
10▼	TC74HC534F(A)	CMS	8	45M†	No	No	TS	44n	0	5.0	3.15	1.35	180m	4	8	74LS534N	FP168	
11▼	TC74HC534P(A)	CMS	8	45M†	No	No	TS	44n	0	5.0	3.15	1.35	500m	4	8	74LS534N	DIP20a	
12▼	TC74HC564F(A)	CMS	8	45M†	No	No	TS	38n	0	5.0	3.15	1.35	180m	4	8	74AS576	FP168	
13▼	TC74HC564P(A)	CMS	8	45M†	No	No	TS	38n	0	5.0	3.15	1.35	500m	4	8	74AS576	DIP20a	
14▼	TC74HC574F(A)	CMS	8	45M†	No	No	TS	38n	0	5.0	3.15	1.35	180m	4	8	74LS574N	FP168	
15▼	TC74HC574P(A)	CMS	8	45M†	No	No	TS	38n	0	5.0	3.15	1.35	500m	4	8	74LS574N	DIP20a	
16♦	N74HCT374D	CMS	8	48M	No	No	TS	40n		4.5	2.0	0.8	0.2	4	8	74-374	FP169	
17♦	N74HCT374N	CMS	8	48M	No	No	TS	40n		4.5	2.0	0.8	0.5	4	8	74-374	DIP20b	
18▼	TC74HC273F(A)	CMS	8	48M†	Yes	No	TP	45n	0	5.0	3.15	1.35	180m	4	8	74-273N	FP168	
19♦	M54HC273F1(A)	CMS	8	50M	Yes	No		39n	0	5.0	3.15	1.35	500n	5	C	74-273	DIP20b	
20♦	M74ALS564P	TTL	8	50M	No	No	TS	15n	0.5	7.0	2.0	0.8	130m	2	7	74LS564N	DIP20a	
21♦	M74ALS574P	TTL	8	50M	No	No	TS	15n	0.5	7.0	2.0	0.8	130m	2	7	74LS574N	DIP20a	
22♦	N74LS364F(1)	TTL	8	50M	No	No		33n	0	5.0	2.0	0.8		0	7	74LS364N	DIP20	☑
23▼	SN54LS374J	TTL	8	50M	No	No	TS	28n	0	5.0	2.0	0.8		5	C	74LS364N	DIP20b	
24▼	SN54LS374L	TTL	8	50M	No	No	TS	28n		5	2.0	0.7		5	C	74LS364N	LC43	
25▼	SN54LS374N	TTL	8	50M	No	No	TS	28n	0	5.0	2.0	0.8		5	C	74LS364N	DIP20b	
26▼	SN54LS374W	TTL	8	50M	No	No	TS	28n	0	7.0	2.0	0.8	200mQ	5	C	74LS364N	FP183	
27♦	SN54LS534J	TTL	8	50M	No	No	TS	25n	0	5.0	2.0	0.7		5	C	74LS534N	DIP20b	
28♦	SN54LS534L	TTL	8	50M	No	No	TS	30n		5	2.0	0.7		5	C	74LS534N	LC43	
29♦	SN54LS534W	TTL	8	50M	No	No	TS	30n		5	2.0	0.7		5	C	74LS534N	FP183	
30▼	SN54S374J	TTL	8	50M	No	No	TS	17n		5.0	2.0	0.7		5	C	74LS364N	DIP20b	
31▼	SN54S374L	TTL	8	50M	No	No	TS	17n		5.0	2.0	0.7		5	C	74LS364N	LC43	
32▼	SN54S374W	TTL	8	50M	No	No	TS	17n		5.0	2.0	0.7		5	C	74LS364N	FP183	
33♦	SN74LS374DW	TTL	8	50M	No	No	TS	28n	0	5.0	2.0	0.8		0	7	74LS364	FP169	
34▼	SN74LS374J	TTL	8	50M	No	No		28n	0	5.0	2.0	0.8	200mQ	0	7	74LS364N	DL	☑
35▼	SN74LS374N	TTL	8	50M	No	No	TS	28n	0	5.0	2.0	0.8		0	7	74LS364N	DIP20a	
36♦	SN74LS534J	TTL	8	50M	No	No	TS	25n	0	5.0	2.0	0.8		0	7	74LS534N	DIP20b	
37♦	SN74LS534N	TTL	8	50M	No	No	TS	25n	0	5.0	2.0	0.8		0	7	74LS534N	DIP20a	
38▼	SN74S374N	TTL	8	50M	No	No	TS	17n		5	2.0	0.8		0▼	C	74LS364N	DIP20a	
39	N74HCT377D	CMS	8	54M	No	No		45n		4.5	2.0	0.8	0.2	4	8	74LS377	FP169	
40♦	N74HCT377N	CMS	8	54M	No	No		45n		4.5	2.0	0.8	0.5	4	8	74LS377	DIP20b	
41▼	TC74HC377F	CMS	8	55M†	No	No		40n	0	5.0	3.15	1.35	180m	4	8	74LS377N	FP168	
42▼	TC74HC377P	CMS	8	55M†	No	No		40n	0	5.0	3.15	1.35	500m	4	8	74LS377N	DIP20a	
43♦	UPD74HC273C(A)	CMS	8	58M	Yes	No		30n	0	4.5	3.15	0.9	500m	4	8	74-273	DIP20b	
44♦	MC54F374N	TTL	8	60M	No	No		10n	0	5.0	2.0	0.8		5	C	74LS364N	DIP20b	
45♦	N74HC374D	CMS	8	60M	No	No	TS	45n		4.5	3.15	0.9	0.2	4	8	74-374	FP169	
46♦	N74HC374N	CMS	8	60M	No	No	TS	45n		4.5	3.15	0.9	0.5	4	8	74-374	DIP20b	
47	N74HC377D	CMS	8	60M	No	No		40n		4.5	3.15	0.9	0.2	4	8	74LS377	FP169	
48♦	N74HC377N	CMS	8	60M	No	No		40n		4.5	3.15	0.9	0.5	4	8	74LS377	DIP20b	
49♦	S54F374G	TTL	8	60M			TS	8.5n	0	5.0	2.0	0.8		5	C	B08-179	LC24	
50♦	V54ACT374D	CMS	8	60M	No	No	TS	20n	0	5	2.0	0.8		5	C	74LS364	DIP20b	
51♦	V54ACT374DL	CMS	8	60M	No	No	TS	20n	0	5	2.0	0.8		5	C	74LS364	LC25	
52♦	V54ACT534D	CMS	8	60M	No	No	TS	20n	0	5	2.0	0.8		4	8	74LS534	DIP20b	
53♦	V54ACT534DL	CMS	8	60M	No	No	TS	20n	0	5	2.0	0.8		5	C	74LS534	DIP20b	
54♦	V54ACT534P	CMS	8	60M	No	No	TS	20n	0	5	2.0	0.8		4	8	74LS534	DIP20b	
55♦	V54ACT534PK	CMS	8	60M	No	No	TS	20n	0	5	2.0	0.8		4	8	74LS534	DIP20b	
56♦	V54ACT534PO	CMS	8	60M	No	No	TS	20n	0	5	2.0	0.8		4	8	74LS534	DIP20b	
57♦	V54ACT564D	CMS	8	60M	No	No	TS	12n	0	5	2.0	0.8		5	C	74LS564	DIP20b	
58♦	V54ACT564DL	CMS	8	60M	No	No	TS	12n	0	5	2.0	0.8		5	C	74LS564	LC25	
59♦	V54ACT575D	CMS	8	60M	Yes	Yes	TS	14n	0	5.5	2.0	0.8		5	C	74ALS575	FP170	
60♦	V54ACT575DL	CMS	8	60M	Yes	Yes	TS	14n	0	5.0	2.0	0.8		5	C	54ALS575	LC19a	
61♦	V74ACT374D	CMS	8	60M	No	No	TS	20n	0	5	2.0	0.8		4	8	74LS364	DIP20b	
62♦	V74ACT374DL	CMS	8	60M	No	No	TS	20n	0	5	2.0	0.8		4	8	74LS364	LC25	
63♦	V74ACT374P	CMS	8	60M	No	No	TS	20n	0	5	2.0	0.8		4	8	74LS364	DIP20b	
64♦	V74ACT374PK	CMS	8	60M	No	No	TS	20n	0	5	2.0	0.8		4	8	74LS364	LC26	
65♦	V74ACT374PO	CMS	8	60M	No	No	TS	20n	0	5	2.0	0.8		4	8	74LS364	FP179	
66♦	V74ACT564D	CMS	8	60M	No	No	TS	12n	0	5	2.0	0.8		4	8	74LS564	DIP20b	
67♦	V74ACT564DL	CMS	8	60M	No	No	TS	12n	0	5	2.0	0.8		4	8	74LS564	LC25	
68♦	V74ACT564P	CMS	8	60M	No	No	TS	12n	0	5	2.0	0.8		4	8	74LS564	DIP20b	
69♦	V74ACT564PK	CMS	8	60M	No	No	TS	12n	0	5	2.0	0.8		4	8	74LS564	LC26	
70♦	V74ACT564PO	CMS	8	60M	No	No	TS	12n	0	5	2.0	0.8		4	8	74LS564	FP179	
71♦	V74ACT575D	CMS	8	60M	Yes	Yes	TS	14n	0	5.0	2.0	0.8		4	8	74ALS575	DIP24	
72♦	V74ACT575DL	CMS	8	60M	Yes	Yes	TS	14n	0	5.0	2.0	0.8		4	8	54ALS575	LC19a	
73♦	V74ACT575P	CMS	8	60M	Yes	Yes	TS	14n	0	5.0	2.0	0.8		4	8	74ALS575	DIP24	
74♦	V74ACT575PK	CMS	8	60M	Yes	Yes	TS	14n	0	5.0	2.0	0.8		4	8	54ALS575	LC27	
75♦	V74ACT575PO	CMS	8	60M	Yes	Yes	TS	14n	0	5.0	2.0	0.8		4	8	74ALS575	FP170	
76♦	UPD74HC374C(A)	CMS	8	65M	No	No	TS	15n	0	6.0	4.2	1.2	500m	4	8	74LS364	DIP20b	
77♦	UPD74HC534C(A)	CMS	8	65M	No	No	TS	32n	0	6.0	4.2	1.2	500m	4	8	74LS534	DIP20b	
78♦	UPD74HC564C(A)	CMS	8	65M	No	No	TS	32n	0	6.0	4.2	1.2	500m	4	8	74LS564	DIP20b	
79♦	UPD74HC574C(A)	CMS	8	65M	No	No	TS	32n	0	6.0	4.2	1.2	500m	4	8	74LS574	DIP20b	
80♦	M54HC377F1(A)	CMS	8	67M	No	No		32n	0	5.0	3.15	1.35	500m	5	C	74LS377	DIP20b	
81♦	V54ACT577P	CMS	8	70M	Yes	Yes	TS	14n	0	5	2.0	0.8		5	C	74ALS577	DIP24	
82♦	V74ACT577D	CMS	8	70M	Yes	Yes	TS	14n	0	5	2.0	0.8		4	8	74ALS577	DIP24	
83♦	V74ACT577DL	CMS	8	70M	Yes	Yes	TS	14n	0	5	2.0	0.8		4	8	54ALS577	LC19a	
84♦	V74ACT577P	CMS	8	70M	Yes	Yes	TS	14n	0	5	2.0	0.8		4	8	74ALS577	DIP24	
85♦	V74ACT577PK	CMS	8	70M	Yes	Yes	TS	14n	0	5	2.0	0.8		4	8	54ALS577	LC27	
86♦	V74ACT577PO	CMS	8	70M	Yes	Yes	TS	14n	0	5	2.0	0.8		4	8	74ALS577	DIP24	
87♦	N8TS806F	TTL	8	75M	No	No		8.0n	0	5.0	2.0	0.8		0	7	74LS574	DIP20	☑
88♦	N8TS806N	TTL	8	75M	No	No	TS	13n	0.5	7.0	2.0	0.8		0	7	74LS574	DIP20d	
89♦	N8TS808F	TTL	8	75M	No	No		8.0n	0	5.0	2.0	0.8		0	7	74AS576	DIP20	☑
90♦	N8TS808N	TTL	8	75M	No	No	TS	13n	0.5	7.0	2.0	0.8		0	7	74AS576	DIP20d	
91	N74S273D	TTL	8	75M	Yes	No		15n	0.5	7.0	2.0	0.8		0	7	74-273N	FP169	
92♦	N74S273N	TTL	8	75M	Yes	No		15n	0.5	7.0	2.0	0.8		0	7	74-273N	DIP20d	
93	N74S374D	TTL	8	75M	No	No		12n	0.5	7.0	2.0	0.8		0	7	74LS364N	FP169	
94♦	N74S374N	TTL	8	75M	No	No		12n	0.5	7.0	2.0	0.8		0	7	74LS364N	DIP20d	
95♦	N74S534F	TTL	8	75M	No	No		8.0n	0	5.0	2.0	0.8		0	7	74LS534N	DIP20	☑
96♦	N74S534N	TTL	8	75M	No	No		17n	0.5	7.0	2.0	0.8		0	7	74LS534N	DIP20d	
97♦	S8TS806F	TTL	8	75M	No	No	TS	13n	0.5	7.0	2.0	0.8		5	C	74LS574	DIP20b	
98♦	S8TS808F	TTL	8	75M	No	No	TS	13n	0.5	7.0	2.0	0.8		5	C	74AS576	DIP20b	
99♦	S54S374F(1)	TTL	8	75M	No	No		12n	0.5	7.0	2.0	0.8		5	C	74LS364N	DIP20b	
100	S54S374G	TTL	8	75M				12n	0.5	7.0	2.0	0.8		5	C	B08-179	LC24	
101♦	S54S534F	TTL	8	75M	No	No		17n	0.5	7.0	2.0	0.8		5	C	74LS534N	DIP20b	
102♦	V54ACT576D	CMS	8	75M	No	No	TS	14n		5.0	2.0	0.8		5	C	54AS576	DIP20b	
103♦	V54ACT576DL	CMS	8	75M	No	No	TS	14n		5.0	2.0	0.8		5	C	54AS576	LC25	
104♦	V54ACT874D	CMS	8	75M	Yes	No		14n	0	5	2.0	0.8		5	C	74AS874	DIP24	
105♦	V54ACT876D	CMS	8	75M	No	Yes	TS	14n	0	5	2.0	0.8		5	C	74AS876	DIP24	
106♦	V54ACT878D	CMS	8	75M	Yes	No	TS	14n	0	5	2.0	0.8		5	C	74AS878	DIP24	
107♦	V54ACT879D	CMS	8	75M	Yes	No	TS	14n	0	5	2.0	0.8		5	C	74AS879	DIP24	
108♦	V74ACT576D	CMS	8	75M	No	No	TS	14n		5.0	2.0	0.8		4	8	74AS576	DIP20b	
109♦	V74ACT576DL	CMS	8	75M	No	No	TS	14n		5.0	2.0	0.8		4	8	74AS576	LC25	
110♦	V74ACT576P	CMS	8	75M	No	No	TS	14n		5.0	2.0	0.8		4	8	74AS576	DIP20b	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE "DRAWING INDEX" FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE "DRAWING INDEX" FOR PAGE NUMBER) OUTLINE DRAWING
1♦	V74ACT576PK	CMS	8	75M	No	No	TS	14n		5.0	2.0	0.8		4	8	74AS576	LC26
2♦	V74ACT576PO	CMS	8	75M	No	No	TS	14n		5.0	2.0	0.8		4	8	74AS576	FP179
3♦	V74ACT874D	CMS	8	75M	Yes	No	TS	14n	0	5	2.0	0.8		4	8	74AS874	DIP24
4♦	V74ACT874P	CMS	8	75M	Yes	No	TS	14n	0	5	2.0	0.8		4	8	74AS874	DIP24
5♦	V74ACT874PO	CMS	8	75M	Yes	No	TS	14n	0	5	2.0	0.8		4	8	74AS874	FP170
6♦	V74ACT876D	CMS	8	75M	No	Yes	TS	14n	0	5	2.0	0.8		4	8	74AS876	DIP24
7♦	V74ACT876P	CMS	8	75M	No	Yes	TS	14n	0	5	2.0	0.8		4	8	74AS876	DIP24
8♦	V74ACT876PO	CMS	8	75M	No	Yes	TS	14n	0	5	2.0	0.8		4	8	74AS876	FP170
9♦	V74ACT878D	CMS	8	75M	Yes	No	TS	14n	0	5	2.0	0.8		4	8	74AS878	DIP24
10♦	V74ACT878P	CMS	8	75M	Yes	No	TS	14n	0	5	2.0	0.8		4	8	74AS878	DIP24
11♦	V74ACT878PO	CMS	8	75M	Yes	No	TS	14n	0	5	2.0	0.8		4	8	74AS878	FP170
12♦	V74ACT879D	CMS	8	75M	Yes	No	TS	14n	0	5	2.0	0.8		4	8	74AS879	DIP24
13♦	V74ACT879P	CMS	8	75M	Yes	No	TS	14n	0	5	2.0	0.8		4	8	74AS879	DIP24
14♦	V74ACT879PO	CMS	8	75M	Yes	No	TS	14n	0	5	2.0	0.8		4	8	74AS879	FP170
15♦	N74S273F(1)	TTL	8	95M	Yes	No		15n	0	5.0	2.0	0.8		0	7	74-273N	DIP20 ☑
16♦	54F273DM(A)	TTL	8	100M	Yes	No		11n	0	5.0	2.0	0.8		5	C	74-273	DIP20b
17	54F273L1M(A)	TTL	8	100M	Yes	No		11n	0	5.0	2.0	0.8		5	C	B08-168	LC19
18♦	54F377DM(A)	TTL	8	100M	No	No		12n	0	5.0	2.0	0.8		5	C	74LS377	DIP20b
19	54F377L1M(A)	TTL	8	100M				12n	0	5.0	2.0	0.8		5	C	B08-170	LC19
20♦	54F534DM	TTL	8	100M†	No	No		11n	0	5.0	2.0	0.8		5	C	74LS534N	DIP20b
21	54F534FM	TTL	8	100M†				11n	0	5.0	2.0	0.8		5	C	54LS534W	FP171
22	54F534L1M	TTL	8	100M				11n	0	5.0	2.0	0.8		5	C	B08-173	LC19
23♦	54F564DM(A)	TTL	8	100M	No	No		9.5n	0	5.0	2.0	0.8		5	C	74LS574	DIP20b
24	54F564L1M(A)	TTL	8	100M	No	No		9.5n	0	5.0	2.0	0.8		5	C	B08-174	LC19
25♦	54F574DM(A)	TTL	8	100M	No	No		9.5n	0	5.0	2.0	0.8		5	C	74LS574	DIP20b
26	54F574L1M(A)	TTL	8	100M	No	No		9.5n	0	5.0	2.0	0.8		5	C	B08-175	LC19
27♦	54F825DM(A)	TTL	8	100M				9.5n	0	5.0	2.0	0.8		5	C	B08-190	DIP24a
28	54F825L1M(A)	TTL	8	100M				9.5n	0	5.0	2.0	0.8		5	C	B08-191	LC19a
29♦	54F825SDM(A)	TTL	8	100M				9.5n	0	5.0	2.0	0.8		5	C	B08-190	DIP24e
30♦	74F273DC(A)	TTL	8	100M	Yes	No		11n	0	5.0	2.0	0.8		0	7	74-273	DIP20b
31	74F273L1C(A)	TTL	8	100M	Yes	No		11n	0	5.0	2.0	0.8		0	7	B08-168	LC19
32♦	74F273PC(A)	TTL	8	100M	Yes	No		11n	0	5.0	2.0	0.8		0	7	74-273	DIP20a
33	74F273QC(A)	TTL	8	100M	Yes	No		11n	0	5.0	2.0	0.8		0	7	B08-168	LC26
34	74F273SC(A)	TTL	8	100M				11n	0	5.0	2.0	0.8		0	7	54LS273	FP169
35♦	74F377DC(A)	TTL	8	100M	No	No		12n	0	5.0	2.0	0.8		0	7	74LS377	DIP20b
36	74F377L1C(A)	TTL	8	100M				12n	0	5.0	2.0	0.8		0	7	B08-170	LC19
37♦	74F377PC(A)	TTL	8	100M	No	No		12n	0	5.0	2.0	0.8		0	7	74LS377	DIP20a
38	74F377QC(A)	TTL	8	100M				12n	0	5.0	2.0	0.8		0	7	B08-170	LC26
39	74F377SC(A)	TTL	8	100M				12n	0	5.0	2.0	0.8		0	7	54LS377	FP169
40♦	74F534DC	TTL	8	100M†	No	No		10n	0	5.0	2.0	0.8		0	7	74LS534N	DIP20b
41	74F534L1C	TTL	8	100M				10n	0	5.0	2.0	0.8		0	7	B08-173	LC19
42	74F534QC	TTL	8	100M				10n	0	5.0	2.0	0.8		0	7	B08-173	LC26
43	74F534SC	TTL	8	100M				10n	0	5.0	2.0	0.8		0	7	54LS534	FP169
44♦	74F564DC(A)	TTL	8	100M†	No	No	TS	8.0n	0	5.0	2.0	0.8		0	7	74LS564	DIP20a
45	74F564L1C(A)	TTL	8	100M	No	No		9.5n	0	5.0	2.0	0.8		0	7	B08-174	LC19
46♦	74F564PC(A)	TTL	8	100M	No	No		9.5n	0	5.0	2.0	0.8		0	7	74LS574	DIP20a
47	74F564QC(A)	TTL	8	100M	No	No		9.5n	0	5.0	2.0	0.8		0	7	B08-174	LC26
48	74F564SC(A)	TTL	8	100M				9.5n	0	5.0	2.0	0.8		0	7	54LS564	FP169
49♦	74F574DC(A)	TTL	8	100M†	No	No	TS	13n	0	5.0	2.0	0.8		0	7	74LS574	DIP20a
50	74F574L1C(A)	TTL	8	100M	No	No		9.5n	0	5.0	2.0	0.8		0	7	B08-175	LC19
51♦	74F574PC(A)	TTL	8	100M	No	No		9.5n	0	5.0	2.0	0.8		0	7	74LS574	DIP20a
52	74F574QC(A)	TTL	8	100M	No	No		9.5n	0	5.0	2.0	0.8		0	7	B08-175	LC26
53	74F574SC(A)	TTL	8	100M				9.5n	0	5.0	2.0	0.8		0	7	54LS574	FP169
54♦	74F825DC(A)	TTL	8	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-190	DIP24a
55	74F825L1C(A)	TTL	8	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-191	LC19a
56♦	74F825PC(A)	TTL	8	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-190	DIP24a
57	74F825QC(A)	TTL	8	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-191	LC27
58	74F825SC(A)	TTL	8	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-190	FP170
59♦	74F825SDC(A)	TTL	8	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-190	DIP24e
60♦	74F825SPC(A)	TTL	8	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-190	DIP24e
61♦	DM54AS374J	TTL	8	100M	No	No		11n	0	5.0	2.0	0.8		5	C	74LS364	DIP20b
62♦	DM54AS534J	TTL	8	100M	No	No		11n	0	5.0	2.0	0.8		5	C	74LS534	DIP20b
63♦	DM54AS574J	TTL	8	100M	No	No		11n	0	5.0	2.0	0.8		5	C	74LS574	DIP20b
64♦	DM54AS575J	TTL	8	100M				11n	0	5.0	2.0	0.8		5	C	74ALS575	DIP24a
65♦	DM54AS576J	TTL	8	100M	No	No		11n	0	5.0	2.0	0.8		5	C	74AS576	DIP20b
66♦	DM54AS577J	TTL	8	100M	Yes	No		11n	0	5.0	2.0	0.8		5	C	74ALS577	DIP24a
67♦	DM54AS874J	TTL	8	100M	Yes	No		12n	0	5.0	2.0	0.8		5	C	74AS874	DIP24a
68♦	DM54AS876J	TTL	8	100M	No	Yes	TS	12n	0	5.0	2.0	0.8		5	C	74AS876	DIP24a
69♦	DM54AS878J	TTL	8	100M	Yes	No	TS	12n	0	5.0	2.0	0.8		5	C	74AS878	DIP24a
70♦	DM54AS879J	TTL	8	100M	Yes	No	TS	12n	0	5.0	2.0	0.8		5	C	74AS879	DIP24a
71♦	DM54S374J	TTL	8	100M	No	No	TS	20n		5.0	2.0	0.8		5	C	54S374	DIP20b
72♦	MC54F374J	TTL	8	100M	No	No	TS	12n	0	5.5	2.0	0.8		5	C	74LS364N	DIP20b
73♦	MC54F534J	TTL	8	100M	No	No	TS	14n	0	5.50	2.0	0.80		5	C	74LS534N	DIP20b
74♦	MC54F534N	TTL	8	100M	No	No	TS	14n	0	5.50	2.0	0.80		5	C	74LS534N	DIP20b
75♦	MC74F374J	TTL	8	100M	No	No	TS	12n	0	5.25	2.0	0.8		0	7	74LS364N	DIP20b
76♦	MC74F374N	TTL	8	100M	No	No	TS	12n	0	5.25	2.0	0.8		0	7	74LS364N	DIP20b
77♦	MC74F534J(A)	TTL	8	100M	No	No	TS	12n	0	5.25	2.0	0.80		0	7	74LS534N	DIP20b
78♦	MC74F534N	TTL	8	100M	No	No	TS	12n	0	5.25	2.0	0.80		0	7	74LS534N	DIP20b
79♦	N74F374F	TTL	8	100M	No	No		7.0n	-.5	5.0	2.0	0.8		0	7	74LS364N	DIP20b
80▼	N74F574D(A)	TTL	8	100M†	No	No	TS	13n	0	5.0	2.0	0.8		0	7	74LS574	FP169
81▼	N74F574N(A)	TTL	8	100M†	No	No	TS	13n	0	5.0	2.0	0.8		0	7	74LS574	DIP20a
82♦	S54F374F	TTL	8	100M	No	No		7.0n	-.5	5.0	2.0	0.8		5	C	74LS364N	DIP20b
83♦	S54F534F	TTL	8	100M	No	No		8.5n	-.5	5.0	2.0	0.8		5	C	74LS534N	DIP20b
84	S54F534W	TTL	8	100M				8.5n	-.5	5.0	2.0	0.8		5	C	54LS534W	FP154
85♦	SN54AS374J	TTL	8	100M	No	No	TS	12n	0	5.0	2.0	0.8		5	C	74LS364N	DIP20b
86♦	SN54S534J	TTL	8	100M	No	No	TS	18n	0	5.0	2.0	0.8		5	C	74LS534N	DIP20b
87♦	SN54S534L	TTL	8	100M	No	No	TS	20n		5	2.0	0.8		5	C	74LS534N	LC43
88♦	SN54S534W	TTL	8	100M	No	No	TS	20n		5	2.0	0.8		5	C	74LS534N	FP183
89♦	SN74S374DW	TTL	8	100M	No	No	TS		0	7.0	2.0	0.8		0	7	74LS364	FP169
90♦	SN74S534J	TTL	8	100M	No	No	TS	18n	0	5.0	2.0	0.8		0	7	74LS534N	DIP20b
91♦	SN74S534N	TTL	8	100M	No	No	TS	18n	0	5.0	2.0	0.8		0	7	74LS534N	DIP20a
92♦	SN74S536J(1)	TTL	8	100M			TS	20n	0	7.0	2.0	0.8		0	7	74S536	DIP20b
93♦	SN74S536N(1)	TTL	8	100M			TS	20n	0	7.0	2.0	0.8		0	7	74S536	DIP20a
94♦	74F534PC	TTL	8	110M†	No	No		10n	0	5.0	2.0	0.8		0	7	74LS534N	DIP20a
95♦	N74F377D(A)	TTL	8	120M†	No	No	TS		0	5.0	2.0	0.8		0	7	74LS377	FP170
96♦	54AC374DM(A)	CMS	8	125M	No	No	TS	12n	0	5.0	2.0	0.8		5	C	74LS364	DIP20a
97♦	54AC374SM(A)	CMS	8	125M	No	No	TS	12n	0	5.0	2.0	0.8		5	C	74LS364	FP179
98♦	54ACT374DM(A)	CMS	8	125M	No	No	TS	12n	0	5.0	2.0	0.8		5	C	74LS364	DIP20a
99♦	54ACT374SM(A)	CMS	8	125M	No	No	TS	12n	0	5.0	2.0	0.8		5	C	74LS364	FP179
100♦	74AC374DC(A)	CMS	8	125M	No	No	TS	12n	0	5.0	2.0	0.8		4	8	74LS364	DIP20a
101♦	74AC374PC(A)	CMS	8	125M	No	No	TS	12n	0	5.0	2.0	0.8		4	8	74LS364	DIP20a
102♦	74AC374SC(A)	CMS	8	125M	No	No	TS	12n	0	5.0	2.0	0.8		4	8	74LS364	FP179
103♦	74ACT374DC(A)	CMS	8	125M	No	No	TS	12n	0	5.0	2.0	0.8		4	8	74LS364	DIP20a
104♦	74ACT374PC(A)	CMS	8	125M	No	No	TS	12n	0	5.0	2.0	0.8		4	8	74LS364	DIP20a
105♦	74ACT374SC(A)	CMS	8	125M	No	No	TS	12n	0	5.0	2.0	0.8		4	8	74LS364	FP179
106♦	DM74AS374J	TTL	8	125M	No	No		9.0n	0	5.0	2.0	0.8		0	7	74LS364	DIP20b
107♦	DM74AS374N	TTL	8	125M	No	No		9.0n	0	5.0	2.0	0.8		0	7	74LS364	DIP20a
108♦	DM74AS534J	TTL	8	125M	No	No		9.0n	0	5.0	2.0	0.8		0	7	74LS534	DIP20b
109♦	DM74AS534N	TTL	8	125M	No	No		9.0n	0	5.0	2.0	0.8		0	7	74LS534	DIP20a
110♦	DM74AS574J	TTL	8	125M	No	No		9.0n	0	5.0	2.0	0.8		0	7	74LS574	DIP20b

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - D-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1♦	DM74AS574N	TTL	8	125M	No	No		9.0n	0	5.0	2.0	0.8		0	7	74LS574	DIP20a	
2♦	DM74AS575J	TTL	8	125M				9.0n	0	5.0	2.0	0.8		0	7	74ALS575	DIP24a	
3♦	DM74AS575N	TTL	8	125M				9.0n	0	5.0	2.0	0.8		0	7	74ALS575	DIP24a	
4♦	DM74AS576J	TTL	8	125M	No	No		9.0n	0	5.0	2.0	0.8		0	7	74AS576	DIP20b	
5♦	DM74AS576N	TTL	8	125M	No	No		9.0n	0	5.0	2.0	0.8		0	7	74AS576	DIP20a	
6♦	DM74AS577J	TTL	8	125M	Yes	No		9.0n	0	5.0	2.0	0.8		0	7	74ALS577	DIP24a	
7♦	DM74AS577N	TTL	8	125M	Yes	No		9.0n	0	5.0	2.0	0.8		0	7	74ALS577	DIP24a	
8♦	DM74AS874J	TTL	8	125M	Yes	No		10n	0	5.0	2.0	0.8		0	7	74AS874	DIP24a	
9♦	DM74AS874N	TTL	8	125M	Yes	No		10n	0	5.0	2.0	0.8		0	7	74AS874	DIP24a	
10♦	DM74AS876J	TTL	8	125M	No	Yes	TS	10n	0	5.0	2.0	0.8		0	7	74AS876	DIP24a	
11♦	DM74AS876N	TTL	8	125M	No	Yes	TS	10n	0	5.0	2.0	0.8		0	7	74AS876	DIP24a	
12♦	DM74AS878J	TTL	8	125M	Yes	No	TS	10n	0	5.0	2.0	0.8		0	7	74AS878	DIP24a	
13♦	DM74AS878N	TTL	8	125M	Yes	No	TS	10n	0	5.0	2.0	0.8		0	7	74AS878	DIP24a	
14♦	DM74AS879J	TTL	8	125M	Yes	No	TS	10n	0	5.0	2.0	0.8		0	7	74AS879	DIP24a	
15♦	DM74AS879N	TTL	8	125M	Yes	No	TS	10n	0	5.0	2.0	0.8		0	7	74AS879	DIP24a	
16▼	SN74AS374DW	TTL	8	125M	No	No	TS	16n	0.0	5.0	2.0	0.8		0	7	74LS364N	FP169	
17♦	SN74AS374N	TTL	8	125M	No	No	TS	16n	0.0	5.0	2.0	0.8		0	7	74LS364N	DIP20a	
18▼	SN74AS534DW	TTL	8	125M	No	No	TS	16n	0.0	5.0	2.0	0.8		0	7	74LS534N	FP169	
19♦	SN74AS534N	TTL	8	125M	No	No	TS	16n	0.0	5.0	2.0	0.8		0	7	74LS534N	DIP20a	
20▼	SN74AS574DW	TTL	8	125M	No	No	TS	9n	0.0	5.0	2.0	0.8		0	7	74LS574N	FP169	
21♦	SN74AS574N	TTL	8	125M	No	No	TS	9n	0.0	5.0	2.0	0.8		0	7	74LS574N	DIP20a	
22▼	SN74AS575DW	TTL	8	125M	Yes	No	TS	9n	0.0	5.0	2.0	0.8		0	7	74ALS575	FP170	
23♦	SN74AS575FN	TTL	8	125M	Yes	No	TS	9n	0.0	5.0	2.0	0.8		0	7	74ALS575	LC20a	
24♦	SN74AS575NT	TTL	8	125M	Yes	No	TS	9n	0.0	5.0	2.0	0.8		0	7	74ALS575	DIP24e	
25▼	SN74AS576DW	TTL	8	125M	No	No	TS	9n	0.0	5.0	2.0	0.8		0	7	74AS576	FP169	
26♦	SN74AS576N	TTL	8	125M	No	No	TS	9n	0.0	5.0	2.0	0.8		0	7	74AS576	DIP20a	
27▼	SN74AS577DW	TTL	8	125M	Yes	No	TS	9n	0.0	5.0	2.0	0.8		0	7	74ALS577	FP170	
28♦	SN74AS577FN	TTL	8	125M	Yes	No	TS	9n	0	5.0	2.0	0.8		0	7	74ALS577	LC20a	
29♦	SN74AS577NT	TTL	8	125M	Yes	No	TS	9n	0.0	5.0	2.0	0.8		0	7	74ALS577	DIP24e	
30▼	SN74AS874DW	TTL	8	125M	Yes	No	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS874	FP170	
31▼	SN74AS874NT	TTL	8	125M	Yes	No	TS	11n		5	2.0	0.8		0	7	74AS874	DIP24e	
32▼	SN74AS876DW	TTL	8	125M	No	Yes	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS876	FP170	
33♦	SN74AS876NT	TTL	8	125M	No	Yes	TS	11n	0.0	5.0	2.0	0.8		0	7	74AS876	DIP24e	
34♦	IDT54FCT374C	CMS	8	130M			TS	10n		5.0	2.0	0.8	500m	5	C	40-374	DIP20	☑
35♦	IDT54FCT374L	CMS	8	130M			TS	10n		5.0	2.0	0.8	500m	5	C	40-374	LC	☑
36♦	IDT74FCT374C	CMS	8	130M			TS	10n		5.0	2.0	0.8	500m	0	7	40-374	DIP20	☑
37♦	IDT74FCT374L	CMS	8	130M			TS	10n		5.0	2.0	0.8	500m	0	7	40-374	LC	☑
38♦	54F374DM	TTL	8	140M	No	No		11n	0	5.0	2.0	0.8		5	C	74LS364N	DIP20b	
39	54F374FM	TTL	8	140M				11n	0	5.0	2.0	0.8		5	C	54S374W	FP171	
40	54F374L1M	TTL	8	140M				11n	0	5.0	2.0	0.8		5	C	B08-169	LC19	
41♦	74F374DC	TTL	8	140M	No	No		10n	0	5.0	2.0	0.8		0	7	74LS364N	DIP20b	
42	74F374L1C	TTL	8	140M				10n	0	5.0	2.0	0.8		0	7	B08-169	LC19	
43♦	74F374PC	TTL	8	140M	No	No		10n	0	5.0	2.0	0.8		0	7	74LS364N	DIP20a	
44	74F374QC	TTL	8	140M				10n	0	5.0	2.0	0.8		0	7	B08-169	LC26	
45	74F374SC	TTL	8	140M				11n	0	5.0	2.0	0.8		0	7	54S374	FP169	
46♦	N74F273D(A)	TTL	8	145M†	Yes	Yes		12n	0	5.0	2.0	0.8		0	7	74-273	FP170	
47♦	N74F273N(A)	TTL	8	145M†	Yes	Yes		12n	0	5.0	2.0	0.8		0	7	74-273	DIP20a	
48▼	P54PCT273DM	CMS	8	250M†	Yes	No		10n	0	5.0	2.0	0.8	135m	5	C	74-273N	DIP20b	
49▼	P54PCT273LM	CMS	8	250M†	Yes	No		10n	0	5.0	2.0	0.8	135m	5	C	74-273N	LC17	
50▼	P54PCT273PM	CMS	8	250M†	Yes	No		10n	0	5.0	2.0	0.8	135m	5	C	74-273N	DIP20a	
51▼	P74PCT273DC	CMS	8	250M†	Yes	No		10n	0	5.0	2.0	0.8	135m	0	7	74-273N	DIP20b	
52▼	P74PCT273LC	CMS	8	250M†	Yes	No		10n	0	5.0	2.0	0.8	135m	0	7	74-273N	LC17	
53▼	P74PCT273PC	CMS	8	250M†	Yes	No		10n	0	5.0	2.0	0.8	135m	0	7	74-273N	DIP20a	
54	AM29824LM	TTL	9					18n	0.5	7.0	2.0	0.8		5	C	74AS844N	LC17	
55♦	54F823DM(A)	TTL	9	100M				9.5n	0	5.0	2.0	0.8		5	C	B08-186	DIP24a	
56	54F823L1M(A)	TTL	9	100M				9.5n	0	5.0	2.0	0.8		5	C	B08-187	LC19a	
57♦	54F823SDM(A)	TTL	9	100M				9.5n	0	5.0	2.0	0.8		5	C	B08-186	DIP24e	
58♦	74F823DC(A)	TTL	9	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-186	DIP24a	
59	74F823L1C(A)	TTL	9	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-187	LC19a	
60♦	74F823PC(A)	TTL	9	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-186	DIP24a	
61	74F823QC(A)	TTL	9	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-187	LC27	
62	74F823SC(A)	TTL	9	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-186	FP170	
63♦	74F823SDC(A)	TTL	9	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-186	DIP24e	
64♦	74F823SPC(A)	TTL	9	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-186	DIP24e	
65♦	54F821DM(A)	TTL	10	100M				9.5n	0	5.0	2.0	0.8		5	C	B08-182	DIP24a	
66	54F821L1M(A)	TTL	10	100M				9.5n	0	5.0	2.0	0.8		5	C	B08-183	LC19a	
67♦	54F821SDM(A)	TTL	10	100M				9.5n	0	5.0	2.0	0.8		5	C	B08-182	DIP24e	
68♦	74F821DC(A)	TTL	10	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-182	DIP24a	
69	74F821L1C(A)	TTL	10	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-183	LC19a	
70♦	74F821PC(A)	TTL	10	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-182	DIP24a	
71	74F821QC(A)	TTL	10	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-183	LC27	
72	74F821SC(A)	TTL	10	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-182	FP170	
73♦	74F821SDC(A)	TTL	10	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-182	DIP24e	
74♦	74F821SPC(A)	TTL	10	100M				9.5n	0	5.0	2.0	0.8		0	7	B08-182	DIP24e	

FLIP FLOP, J-K

78	H159D1	DTL	1					770n	0	20	8.0	6.0		0	7	None	None	
79	H165D1	DTL	1						0	20	8.0	6.0		0	7	None	None	
80	H166D1	DTL	1						0	20	8.0	6.0		0	7	None	None	
81♦	N1027A	ECL	1					4.0n	5.2	0	-1.1	-1.4	250m	0	7	None	DIP16a	
82♦	FZJ101	DTL	1	500k†				770n	0	12	7.5	4.5	168m	0	7	B02-242	DIP16a	
83♦	FZJ105	DTL	1	500k†				770n	0	12	7.5	4.5	168m	2	8	B02-242	DIP16a	
84♦	FZJ111	DTL	1	500k†				770n	0	12	7.5	4.5	168m	0	7	B02-242a	DIP16a	
85♦	FZJ115	DTL	1	500k†				770n	0	12	7.5	4.5	168m	2	8	B02-242a	DIP16a	
86♦	923HM	RTL	1	2M				15n	0	3.6			250m	0	7	B02-21	TO-99	
87♦	MM483	TTL	1	2M†				500n	10	0	-8.0	-1.0C		5	C	B03-8w	TO-100	
88♦	MM583	TTL	1	2M†				500n	10	0	-8.0	-1.0C		0	7	B03-8w	TO-100	
89♦	FCJ111	DTL	1	3M	Yes	Yes		140n	0	8	5.3	.4C	73m	0	7	B02-336	TO-116	
90♦	SFC472LE	TTL	1	3M†	Yes	Yes		200n	0	5.0	2.0	0.7		0	7	74L72	TO-116	
91♦	SFC472LEM	TTL	1	3M†	Yes	Yes		200n	0	5.0	2.0	0.7		5	C	74L72	TO-116	
92♦	FCJ101	DTL	1	5M					0	6.0	2.3	0.8	81m	0	7	B02-67a	TO-116	
93♦	SP620A	DTL	1	5M†					0	4.5			135m†	0	7	None	DIP14a	
94	DM75L12F	TTL	1	10M†	Yes	No		120n	0	5.0	2.0	0.7	22mQ	5	C	75-12N	FP88b	
95♦	DM75L12J	TTL	1	10M†	Yes	No		120n	0	5.0	2.0	0.7	22mQ	5	C	75-12N	DIP16a	
96♦	DM75L12N	TTL	1	10M†	Yes	No		120n	0	5.0	2.0	0.7	22mQ	5	C	75-12N	DIP16a	
97	DM85L12F	TTL	1	10M†	Yes	No		120n	0	5.0	2.0	0.7	22mQ	0	7	75-12N	FP88b	
98♦	DM85L12J	TTL	1	10M†	Yes	No		120n	0	5.0	2.0	0.7	22mQ	0	7	75-12N	DIP16a	
99♦	DM85L12N	TTL	1	10M†	Yes	No		120n	0	5.0	2.0	0.7	22mQ	0	7	75-12N	DIP16a	
100♦	FJJ111-7472	TTL	1	10M	Yes	Yes		40n	0	5.0	2.0	0.8	40m†	0	7	74L72	DIP14a	
101♦	DM54L72J	TTL	1	11M†	Yes	Yes		150n	0	5.0	2.0	0.7	5.0m†	5	C	74L72	DIP14a	
102♦	DM54L72W	TTL	1	11M	Yes	Yes		75n	0	5.0	2.0	0.7		5	C	54L72	FP97c	
103♦	DM74L72N	TTL	1	11M†	Yes	Yes		150n	0	5.0	2.0	0.7	5.0m†	0	7	74L72	DIP14a	
104	HCC4095BD	CMS	1	12M	Yes	Yes		150n	0	10	10	0	200m	5	C	40-95B	MO001AD	
105	HCC4095BF	CMS	1	12M	Yes	Yes		150n	0	10	10	0	200m	5	C	40-95B	MO001AB	
106	HCC4095BK	CMS	1	12M	Yes	Yes		150n	0	10	10	0	200m	5	C	40-95B	MO004AF	
107	HCC4096BD	CMS	1	12M				150n	0	10	10	0	200m	5	C	None	MO001AD	
108	HCC4096BF	CMS	1	12M				150n	0	10	10	0	200m	5	C	None	MO001AB	
109	HCC4096BK	CMS	1	12M				150n	0	10	10	0	200m	5	C	None	MO004AF	
110	HCF4095BE	CMS	1	12M	Yes	Yes		150n	0	10	10	0	200m	4	8	40-95B	MO001AB	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - JK-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1	HCF4095BF	CMS	1	12M	Yes	Yes		150n	0	10	10	0	200m	4	8	40-95B	MO001AB
2	HCF4096BE	CMS	1	12M				150n	0	10	10	0	200m	4	8	None	MO001AB
3	HCF4096BF	CMS	1	12M				150n	0	10	10	0	200m	4	8	None	MO001AB
4♦	M53272P	TTL	1	15M†	Yes	Yes		30n	0	5.0	2.0	0.8	40m†	0	7	74L72	DIP14a
5♦	N7472F	TTL	1	15M	Yes	Yes		40n	0	5.0	2.0	0.8	100m	0	7	74L72	DIP14b
6♦	N7472N	TTL	1	15M	Yes	Yes		40n	0	5.0	2.0	0.8	100m	0	7	74L72	DIP14a
7	RF32CJ	TTL	1	15M	Yes	Yes			0	5.0	3.4	0.2	30m†	0	7	B04-42	FP52j
8	RF32CK	TTL	1	15M	Yes	Yes			0	5.0	3.4	0.2	30m†	0	7	B04-42	FP52k
9♦	RF32DC	TTL	1	15M	Yes	Yes			0	5.0	3.4	0.2	30m†	0	7	B04-42	DIP14e
10	RF33CJ	TTL	1	15M	Yes	Yes			0	5.0	3.4	0.2	30m†	0	7	B04-42	FP52j
11	RF33CK	TTL	1	15M	Yes	Yes			0	5.0	3.4	0.2	30m†	0	7	B04-42	FP52k
12♦	RF33DC	TTL	1	15M	Yes	Yes			0	5.0	3.4	0.2	30m†	0	7	B04-42	DIP14e
13♦	S5472F	TTL	1	15M	Yes	Yes		40n	0	5.0	2.0	0.8	100m	5	C	74L72	DIP14b
14♦	S5472W	TTL	1	15M	Yes	Yes		40n	0	5.0	2.0	0.8	100m	5	C	54L72	FP39e
15♦	SFC472E	TTL	1	15M†	Yes	Yes		50n	0	5	2.0	0.8	40m†	0	7	74L72	TO-116
16	CD4095BD	CMS	1	16M	Yes	Yes		200n	0	20	7.0	3.0	500m	5	C	40-95B	MO001AD
17	CD4095BE	CMS	1	16M	Yes	Yes		200n	0	20	7.0	3.0	500m	4	8	40-95B	MO001AB
18	CD4095BF	CMS	1	16M	Yes	Yes		200n	0	20	7.0	3.0	500m	5	C	40-95B	MO001AB
19	CD4096BD	CMS	1	16M	Yes	Yes		200n	0	20	7.0	3.0	500m	5	C	40-96B	MO001AD
20	CD4096BE	CMS	1	16M	Yes	Yes		200n	0	20	7.0	3.0	500m	4	8	40-96B	MO001AB
21	CD4096BF	CMS	1	16M	Yes	Yes		200n	0	20	7.0	3.0	500m	5	C	40-96B	MO001AB
22	926FM	RTL	1	20M†	Yes	Yes			0	3.6			500m	5	C	B02-62	FP28b
23♦	926HM	RTL	1	20M†	Yes	Yes			0	3.6			500m	5	C	B02-62	TO-100
24♦	5472DM	TTL	1	20M†	Yes	Yes		40n	0	5.0	2.0	0.8	50m†	5	C	74L72	TO-116
25♦	5472FM	TTL	1	20M†	Yes	Yes		40n	0	5.0	2.0	0.8	50m†	5	C	54L72	FP52
26♦	7472DC	TTL	1	20M†	Yes	Yes		40n	0	5.0	2.0	0.8	50m†	0	7	74L72	TO-116
27♦	7472PC	TTL	1	20M†	Yes	Yes		40n	0	5.0	2.0	0.8	50m†	0	7	74L72	DIP14a
28♦	9000DC	TTL	1	20M†				12n	0	5.0	1.8	.85		0	7	None	DIP14a
29♦	9000DM	TTL	1	20M†	Yes	Yes		12n	0	5.0	1.7	.90		5	C	74-104N	DIP14a
30	9000FM	TTL	1	20M†				12n	0	5.0	1.7	.90		5	C	54-104W	FP28b
31♦	9926HM	DTL	1	20M†	Yes	Yes			4.0	12			500m	5	C	B02-62	TO-100
32♦	DM5470J	TTL	1	20M	Yes	Yes		50n	0	5.0	2.0	0.8	130mQ	5	C	74-70N	DIP14a
33	DM5470W	TTL	1	20M	Yes	Yes		50n	0	5.0	2.0	0.8	130mQ	5	C	54-70W	FP97a
34♦	DM7470N	TTL	1	20M	Yes	Yes		50n	0	5.0	2.0	0.8	130mQ	0	7	74-70N	DIP14a
35♦	MB407	TTL	1	20M	Yes	Yes		30n	0	5.0	2.0	0.8	50m†	0	7	74L72	DIP14b
36♦	MB407M	TTL	1	20M	Yes	Yes		30n	0	5.0	2.0	0.8	50m†	0	7	74L72	DIP14b
37♦	N7470F	TTL	1	20M	Yes	Yes		50n	0	5.0	2.0	0.8	130m	0	7	74-70N	DIP14b
38♦	N7470N	TTL	1	20M	Yes	Yes		50n	0	5.0	2.0	0.8	130m	0	7	74-70N	DIP14a
39	RF50CJ	TTL	1	20M	Yes	Yes			0	5.0	3.4	0.2	50m†	5	C	4-15P	FP52j
40	RF50CK	TTL	1	20M	Yes	Yes			0	5.0	3.4	0.2	50m†	5	C	4-15P	FP52k
41♦	RF50DC	TTL	1	20M	Yes	Yes			0	5.0	3.4	0.2	50m†	5	C	4-15P	DIP14e
42	RF51CJ	TTL	1	20M	Yes	Yes			0	5.0	3.4	0.2	50m†	5	C	4-15P	FP52j
43	RF51CK	TTL	1	20M	Yes	Yes			0	5.0	3.4	0.2	50m†	5	C	4-15P	FP52k
44♦	RF51DC	TTL	1	20M	Yes	Yes			0	5.0	3.4	0.2	50m†	5	C	4-15P	DIP14e
45	RF52CJ	TTL	1	20M	Yes	Yes			0	5.0	3.4	0.2	50m†	0	7	4-15P	FP52j
46	RF52CK	TTL	1	20M	Yes	Yes			0	5.0	3.4	0.2	50m†	0	7	4-15P	FP52k
47♦	RF52DC	TTL	1	20M	Yes	Yes			0	5.0	3.4	0.2	50m†	0	7	4-15P	DIP14e
48	RF53CJ	TTL	1	20M	Yes	Yes			0	5.0	3.4	0.2	50m†	0	7	4-15P	FP52j
49	RF53CK	TTL	1	20M	Yes	Yes			0	5.0	3.4	0.2	50m†	0	7	4-15P	FP52k
50♦	RF53DC	TTL	1	20M	Yes	Yes			0	5.0	3.4	0.2	50m†	0	7	4-15P	DIP14e
51	RF60CJ	TTL	1	20M	No	Yes			0	5.0	3.4	0.2	55m†	5	C	4-16P	FP52j
52	RF60CK	TTL	1	20M	No	Yes			0	5.0	3.4	0.2	55m†	5	C	4-16P	FP52k
53♦	RF60DC	TTL	1	20M	No	Yes			0	5.0	3.4	0.2	55m†	5	C	4-16P	DIP14e
54	RF61CJ	TTL	1	20M	No	Yes			0	5.0	3.4	0.2	55m†	5	C	4-16P	FP52j
55	RF61CK	TTL	1	20M	No	Yes			0	5.0	3.4	0.2	55m†	5	C	4-16P	FP52k
56♦	RF61DC	TTL	1	20M	No	Yes			0	5.0	3.4	0.2	55m†	5	C	4-16P	DIP14e
57	RF62CJ	TTL	1	20M	No	Yes			0	5.0	3.4	0.2	55m†	0	7	4-16P	FP52j
58	RF62CK	TTL	1	20M	No	Yes			0	5.0	3.4	0.2	55m†	0	7	4-16P	FP52k
59♦	RF62DC	TTL	1	20M	No	Yes			0	5.0	3.4	0.2	55m†	0	7	4-16P	DIP14e
60	RF63CJ	TTL	1	20M	No	Yes			0	5.0	3.4	0.2	55m†	0	7	4-16P	FP52j
61	RF63CK	TTL	1	20M	No	Yes			0	5.0	3.4	0.2	55m†	0	7	4-16P	FP52k
62♦	RF63DC	TTL	1	20M	No	Yes			0	5.0	3.4	0.2	55m†	0	7	4-16P	DIP14e
63♦	S5470F	TTL	1	20M	Yes	Yes		50n	0	5.0	2.0	0.8	130m	5	C	74-70N	DIP14b
64	S5470W	TTL	1	20M	Yes	Yes		50n	0	5.0	2.0	0.8	130m	5	C	54-70W	FP39e
65♦	SFC472EM	TTL	1	20M†	Yes	Yes		40n	0	5.0	2.0	0.8	50m†	5	C	74L72	TO-116
66♦	SFC472ET	TTL	1	20M†	Yes	Yes		40n	0	5.0	2.0	0.8	50m†	2	8	74L72	TO-116
67♦	SFC472HE	DTL	1	20M†	Yes	Yes		6n	0	7			20m†	0	7	74L72	TO-116
68♦	SFC472HPM	DTL	1	20M†				6n	0	7			20m†	5	C	None	ZB ☑
69♦	SFC472PM	DTL	1	20M†				13n	0	7			10m†	5	C	None	ZB ☑
70♦	SN7472N	TTL	1	20M	Yes	Yes		40n	0	5.0	2.0	0.8	50m†	0	7	74L72	DIP14a
71♦	N74H71F	TTL	1	25M	Yes	Yes		22n	0	5.0	2.0	0.8	150m†	0	7	74H71N	DIP14b
72♦	N74H71N	TTL	1	25M	Yes	Yes		22n	0	5.0	2.0	0.8	150m†	0	7	74H71N	DIP14a
73♦	N74H72F	TTL	1	25M	Yes	Yes		22n	0	5.0	2.0	0.8	250m†	0	7	74L72	DIP14b
74♦	N74H72N	TTL	1	25M	Yes	Yes		22n	0	5.0	2.0	0.8	125m†	0	7	74L72	DIP14a
75♦	N8825A	TTL	1	25M†	Yes	Yes		50n	0	5.0	2.6	0.4C	132m	0	7	74-70N	TO-116
76♦	N8825F	TTL	1	25M†	Yes	Yes		50n	0	5.0	2.6	0.4C		0	7	74-70N	DIP14a
77♦	N8825J	TTL	1	25M†	Yes	Yes		50n	0	5.0	2.6	0.4C	132m	0	7	54-70W	TO-88
78♦	N8829A	TTL	1	25M†	Yes	Yes		50n	0	5.0	2.0	0.8	132m	0	7	74L72	TO-116
79♦	N8829F	TTL	1	25M†	Yes	Yes		50n	0	5.0	2.0	0.8		0	7	74L72	DIP14a
80♦	N8829J	TTL	1	25M†	Yes	Yes		50n	0	5.0	2.0	0.48	132m	0	7	54L72	TO-88
81♦	S54H71F	TTL	1	25M	Yes	Yes		22n	0	5.0	2.0	0.8	150m†	5	C	74H71N	DIP14b
82	S54H71W	TTL	1	25M	Yes	Yes		22n	0	5.0	2.0	0.8	150m†	5	C	54H71W	FP39e
83♦	S54H72F	TTL	1	25M	Yes	Yes		22n	0	5.0	2.0	0.8	125m	5	C	74L72	DIP14b
84♦	S54H72W	TTL	1	25M	Yes	Yes		22n	0	5.0	2.0	0.8	125m	5	C	54L72	FP39e
85♦	S8825A	TTL	1	25M†	Yes	Yes		50n	0	5.0	2.6	0.4C	132m	5	C	74-70N	TO-116
86♦	S8825F	TTL	1	25M†	Yes	Yes		50n	0	5.0	2.6	0.4C		5	C	74-70N	DIP14a
87♦	S8825J	TTL	1	25M†	Yes	Yes		50n	0	5.0	2.6	0.4C	132m	5	C	54-70W	TO-88
88♦	S8829A	TTL	1	25M†	Yes	Yes		50n	0	5.0	2.0	0.8	132m	5	C	74L72	TO-116
89♦	S8829F	TTL	1	25M†	Yes	Yes		50n	0	5.0	2.0	0.8		5	C	74L72	DIP14a
90♦	S8829J	TTL	1	25M†	Yes	Yes		50n	0	5.0	2.0	0.8	132m	5	C	54L72	TO-88
91♦	SN54110J	TTL	1	25M	Yes	Yes		30n	0	5.0	2.0	0.8	100m	5	C	74L72	DIP14a
92♦	DM5472J	TTL	1	27M†	Yes	Yes		45n	0	5.0	2.0	0.8	85mQ	5	C	74L72	DIP14a
93♦	DM5472W	TTL	1	27M†	Yes	Yes		45n	0	5.0	2.0	0.8	85mQ	5	C	54L72	FP97a
94♦	DM7472N	TTL	1	27M†	Yes	Yes		45n	0	5.0	2.0	0.8	85mQ	0	7	74L72	DIP14a
95♦	DM7512J	TTL	1	28M†	Yes	No		40n	0	5.0	2.0	0.8	285mQ	5	C	75-12N	DIP16a
96♦	DM7512N	TTL	1	28M†	Yes	No		40n	0	5.0	2.0	0.8	285mQ	5	C	75-12N	DIP16a
97	DM7512W	TTL	1	28M†	Yes	No		40n	0	5.0	2.0	0.8	285mQ	5	C	75-12N	FP88a
98♦	DM8512N	TTL	1	28M†	Yes			40n	0	5.0	2.0	0.8	285mQ	0	7	75-12	DIP16a
99	DM8512W	TTL	1	28M†	Yes	No		40n	0	5.0	2.0	0.8	285mQ	0	7	75-12N	FP88a
100	54H71FM	TTL	1	30M†	Yes	Yes		27n	0	5.0	2.0	0.8	150m	5	C	54H71W	FP21h
101♦	54H72DM	TTL	1	30M†	Yes	Yes		27n	0	5.0	2.0	0.8	125m	5	C	74L72	TO-116
102♦	54H72FM	TTL	1	30M†	Yes	Yes		27n	0	5.0	2.0	0.8	125m	5	C	54L72	FP21h
103♦	74H72DC	TTL	1	30M†	Yes	Yes		27n	0	5.0	2.0	0.8	125m	0	7	74L72	TO-116
104♦	74H72PC	TTL	1	30M†	Yes	Yes		27n	0	5.0	2.0	0.8	125m	0	7	74L72	DIP14a
105♦	MB609	TTL	1	30M	Yes	Yes		17n	0	5.0	2.0	0.8	80m†	0	7	74L72	DIP14b
106	RF250CJ	TTL	1	30M	Yes	Yes		25n	0	5.0	3.2	0.4	50m†	5	C	4-15	FP52j
107	RF250CK	TTL	1	30M	Yes	Yes		25n	0	5.0	3.2	0.4	50m†	5	C	4-15	FP52k
108♦	RF250DC	TTL	1	30M	Yes	Yes		25n	0	5.0	3.2	0.4	50m†	5	C	4-15	DIP14e
109	RF251CJ	TTL	1	30M	Yes	Yes		25n	0	5.0	3.2	0.4	50m†	5	C	4-15	FP52j
110	RF251CK	TTL	1	30M	Yes	Yes		25n	0	5.0	3.2	0.4	50m†	5	C	4-15	FP52k

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - JK-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	3 TYPE NUMBER	TECH	1 CKTS PER PKG	2 f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	RF251DC	TTL	1	30M	Yes	Yes		25n	0	5.0	3.2	0.4	50m†	5	C	4-15	DIP14e
2	RF252CJ	TTL	1	30M	Yes	Yes		25n	0	5.0	3.1	0.4	50m†	0	7	4-15	FP52j
3	RF252CK	TTL	1	30M	Yes	Yes		25n	0	5.0	3.1	0.4	50m†	0	7	4-15	FP52k
4♦	RF252DC	TTL	1	30M	Yes	Yes		25n	0	5.0	3.1	0.4	50m†	0	7	4-15	DIP14e
5	RF253CJ	TTL	1	30M	Yes	Yes		25n	0	5.0	3.1	0.4	50m†	0	7	4-15	FP52j
6	RF253CK	TTL	1	30M	Yes	Yes		25n	0	5.0	3.1	0.4	50m†	0	7	4-15	FP52k
7♦	RF253DC	TTL	1	30M	Yes	Yes		25n	0	5.0	3.1	0.4	50m†	0	7	4-15	DIP14e
8	RF260CJ	TTL	1	30M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	B02-106	FP52j
9	RF260CK	TTL	1	30M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	B02-106	FP52k
10♦	RF260DC	TTL	1	30M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	B02-106	DIP14e
11	RF261CJ	TTL	1	30M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	B02-106	FP52j
12	RF261CK	TTL	1	30M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	B02-106	FP52k
13♦	RF261DC	TTL	1	30M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	B02-106	DIP14e
14	RF262CJ	TTL	1	30M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	B02-106	FP52j
15	RF262CK	TTL	1	30M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	B02-106	FP52k
16♦	RF262DC	TTL	1	30M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	B02-106	DIP14e
17	RF263CJ	TTL	1	30M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	B02-106	FP52j
18	RF263CK	TTL	1	30M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	B02-106	FP52k
19♦	RF263DC	TTL	1	30M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	B02-106	DIP14e
20♦	SN74H71N	TTL	1	30M	Yes	Yes		27n	0	7.0	2.0	0.8	150m	0	7	74H71N	DIP14a
21♦	967DC	DTL	1	35M					2.0	4.5	2.5	0.5C	1.0			B02-149	TO-116
22	5470FM	TTL	1	35M†	Yes	Yes		50n	0	5.0	2.0	0.8	130m	5	C	54-70W	FP52
23♦	7470PC	TTL	1	35M†	Yes	Yes		50n	0	5.0	2.0	0.8	130m	0	7	74-70N	DIP14a
24♦	M53270P	TTL	1	35M†	Yes	Yes		22n	0	5.0	2.0	0.8	65m†	0	7	74-70N	DIP14a
25♦	SN5470J	TTL	1	35M	Yes	Yes		50n	0	7.0	2.0	0.8	130m	5	C	74-70N	DIP14a
26♦	SN7470N	TTL	1	35M	Yes	Yes		50n	0	7.0	2.0	0.8	130m	0	7	74-70N	DIP14a
27♦	N74H101F	TTL	1	40M	Yes	Yes		23n	0	5.0	2.0	0.8	190m	0	7	74H71N	DIP14b
28♦	N74H101N	TTL	1	40M	Yes	Yes		23n	0	5.0	2.0	0.8	190m	0	7	74H71N	DIP14a
29♦	N74H102F	TTL	1	40M	Yes	Yes		23n	0	5.0	2.0	0.8	190m	0	7	74L72	DIP14b
30♦	N74H102N	TTL	1	40M	Yes	Yes		23n	0	5.0	2.0	0.8	190m	0	7	74L72	DIP14a
31♦	S54H101F	TTL	1	40M	Yes	Yes		23n	0	5.0	2.0	0.8	190m	5	C	74H71N	DIP14b
32	S54H101W	TTL	1	40M	Yes	Yes		23n	0	5.0	2.0	0.8	190m	5	C	54H71W	FP39e
33♦	S54H102F	TTL	1	40M	Yes	Yes		23n	0	5.0	2.0	0.8	190m	5	C	74L72	DIP14b
34♦	S54H102W	TTL	1	40M	Yes	Yes		23n	0	5.0	2.0	0.8	190m	5	C	54L72	FP39e
35	54H101FM	TTL	1	50M†	Yes	Yes		35n	0	5.0	2.0	0.8	100m†	5	C	54H71W	FP21h
36♦	54H102FM	TTL	1	50M†	Yes	Yes		35n	0	5.0	2.0	0.8	100m†	5	C	54L72	FP21h
37♦	74H101PC	TTL	1	50M†	Yes	Yes		35n	0	5.0	2.0	0.8	190m	0	7	74H71N	DIP14a
38♦	9001DC	TTL	1	50M†	Yes	Yes		12n	0	5.0	1.8	.85		0	7	74-105N	DIP14a
39♦	9001DM	TTL	1	50M†	Yes	Yes		12n	0	5.0	1.7	.90		5	C	74-105N	DIP14a
40	9001FM	TTL	1	50M†	Yes	Yes		12n	0	5.0	1.7	.90		5	C	54-105W	FP28b
41	RF200CJ	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	2-009	FP52j
42	RF200CK	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	2-009	FP52k
43♦	RF200DC	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	2-009	DIP14e
44	RF201CJ	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	2-009	FP52j
45	RF201CK	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	2-009	FP52k
46♦	RF201DC	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	2-009	DIP14e
47	RF202CJ	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	2-009	FP52j
48	RF202CK	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	2-009	FP52k
49♦	RF202DC	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	2-009	DIP14e
50	RF203CJ	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	2-009	FP52j
51	RF203CK	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	2-009	FP52k
52♦	RF203DC	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	2-009	DIP14e
53	RF210CJ	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	2-010	FP52j
54	RF210CK	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	2-010	FP52k
55♦	RF210DC	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	2-010	DIP14e
56	RF211CJ	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	2-010	FP52j
57	RF211CK	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	2-010	FP52k
58♦	RF211DC	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	5	C	2-010	DIP14e
59	RF212CJ	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	2-010	FP52j
60	RF212CK	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	2-010	FP52k
61♦	RF212DC	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	2-010	DIP14e
62	RF213CJ	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	2-010	FP52j
63	RF213CK	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	2-010	FP52k
64♦	RF213DC	TTL	1	50M	Yes	Yes			0	5.0	3.4	0.2	55m†	0	7	2-010	DIP14e
65♦	N1013A	ECL	1	85M				6.0n	5.2	0	-1.1	-1.4	125m	0	7	None	DIP16a
66♦	F95029DC	ECL	1	250M†				6.3n	5.2	0	-1.1	-1.4	239mQ	0	7	B02-314	DIP16a
67♦	4027B	CMS	2		Yes	Yes		250n	0	10	7.1	2.9	200m	4	8	40-27B	DIP16a
68♦	9093BC	DTL	2		No	Yes		90n	0	5.0	1.8	1.2	150m	0	7	9-093D	DIP14a
69♦	9093DC	DTL	2		No	Yes		90n	0	5.0	1.8	1.2	150m	0	7	9-093D	DIP14b
70♦	9093DM	DTL	2		No	Yes		75n	0	5.0	1.7	1.4	140m	5	C	9-093D	DIP14b
71	9093FC	DTL	2		No	Yes		90n	0	5.0	1.8	1.2	150m	0	7	9-093D	FP28g
72	9093FM	DTL	2		No	Yes		75n	0	5.0	1.7	1.4	140m	5	C	9-093D	FP28g
73♦	9094BC	DTL	2		No	Yes		80n	0	5.0	1.8	1.2	175m	0	7	9-093D	DIP14a
74♦	9094DC	DTL	2		No	Yes		80n	0	5.0	1.8	1.2	175m	0	7	9-093D	DIP14b
75♦	9094DM	DTL	2		No	Yes		80n	0	5.0	1.8	1.2	162m	5	C	9-093D	DIP14b
76	9094FC	DTL	2		No	Yes		80n	0	5.0	1.8	1.2	175m	0	7	9-093D	FP28g
77	9094FM	DTL	2		No	Yes		80n	0	5.0	1.8	1.2	162m	5	C	9-093D	FP28g
78♦	9097BC	DTL	2		No	Yes		80n	0	5.0	1.8	1.2	162m	0	7	9-097D	DIP14a
79♦	9097DC	DTL	2		No	Yes		80n	0	5.0	1.8	1.2	162m	0	7	9-097D	DIP14b
80♦	9097DM	DTL	2		No	Yes		80n	0	5.0	1.8	1.2	162m	5	C	9-097D	DIP14b
81	9097FC	DTL	2		No	Yes		80n	0	5.0	1.8	1.2	162m	0	7	9-097D	FP28g
82	9097FM	DTL	2		No	Yes		80n	0	5.0	1.8	1.2	162m	5	C	9-097D	FP28g
83♦	9099BC	DTL	2		No	Yes		90n	0	5.0	1.8	1.2	140m	0	7	9-097D	DIP14a
84♦	9099DC	DTL	2		No	Yes		90n	0	5.0	1.8	1.2	140m	0	7	9-097D	DIP14b
85♦	9099DM	DTL	2		No	Yes		75n	0	5.0	1.7	1.4	140m	5	C	9-097D	DIP14b
86	9099FC	DTL	2		No	Yes		90n	0	5.0	1.8	1.2	140m	0	7	9-097D	FP28g
87	9099FM	DTL	2		No	Yes		75n	0	5.0	1.7	1.4	140m	5	C	9-097D	FP28g
88♦	DM9093N	DTL	2		No	Yes		100n	0	5.0	2.6	.45C	180mQ	0	7	9-093D	DIP14a
89♦	DM9094N	DTL	2		No	Yes		100n	0	5.0	2.6	.45C	225mQ	0	7	9-093D	DIP14a
90♦	DM9097N	DTL	2		No	Yes		100n	0	5.0	2.6	.45C	225mQ	0	7	9-097D	DIP14a
91♦	DM9099N	DTL	2		No	Yes		100n	0	5.0	2.6	.45C	180mQ	0	7	9-097D	DIP14a
92♦	FCJ201	DTL	2						0	6.0	2.0	1.0		0	7	None	TO-116
93♦	K155TV1	TTL	2						0	5.0	2.4	0.4		1	7	B02-88	None
94♦	LC4027B	CMS	2		Yes	Yes			0	20	3.5		300m	4	8	40-27B	DIP16a
95▼	MC852L	DTL	2		Yes	Yes		40n	0	5.0	2.6	.45	120m†	0	7	9-52	TO-116
96▼	MC852P	DTL	2		Yes	Yes		40n	0	5.0	2.6	.45	120m†	0	7	9-52	DIP14a
97▼	MC853L	DTL	2		No	Yes		40n	0	5.0	2.6	.45	120m†	0	7	9-53	TO-116
98▼	MC853P	DTL	2		No	Yes		40n	0	5.0	2.6	.45	120m†	0	7	9-53	DIP14a
99▼	MC855L	DTL	2		Yes	Yes		40n	0	5.0	2.6	.45	140m†	0	7	9-52	TO-116
100▼	MC855P	DTL	2		Yes	Yes		40n	0	5.0	2.6	.45	140m†	0	7	9-52	DIP14a
101▼	MC856L	DTL	2		No	Yes		40n	0	5.0	2.6	.45	140m†	0	7	9-53	TO-116
102▼	MC856P	DTL	2		No	Yes		40n	0	5.0	2.6	.45	140m†	0	7	9-53	DIP14a
103♦	MC952L	DTL	2		Yes	Yes		40n	0	5.0	2.6	0.4	120m†	5	C	9-52L	TO-116
104♦	MC953L	DTL	2		No	Yes		40n	0	5.0	2.6	0.4	120m†	5	C	9-53L	TO-116
105♦	MC955L	DTL	2		Yes	Yes		40n	0	5.0	2.6	0.4	140m†	5	C	9-52L	TO-116
106♦	MC956L	DTL	2		No	Yes		40n	0	5.0	2.6	0.4	140m†	5	C	9-53L	TO-116
107	N74109W	TTL	2		Yes	Yes		35n	0	5.0	2.0	0.8	150m	0	7	54-109W	FP47g
108	RM993CJ	DTL	2					40n	0	5.0	2.0	1.0	280m†	5	C	None	FP52j
109♦	RM993DC	DTL	2					40n	0	5.0	2.0	1.0	280m†	5	C	None	DIP14e
110	RM994CJ	DTL	2					35n	0	5.0	2.0	1.0	324m	5	C	None	FP52j

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - JK-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	RM994DC	DTL	2					35n	0	5.0	2.0	1.0	324m	5	C	None	DIP14e
2	RM997CJ	DTL	2					35n	0	5.0	2.0	1.0	324m†	5	C	None	FP52j
3♦	RM997DC	DTL	2					35n	0	5.0	2.0	1.0	324m†	5	C	None	DIP14e
4	RM999CJ	DTL	2					40n	0	5.0	2.0	1.0	280m†	5	C	None	FP52j
5♦	RM999DC	DTL	2					40n	0	5.0	2.0	1.0	280m†	5	C	None	DIP14e
6	SFC473PM	DTL	2		Yes	No		13n	0	7			10m†	5	C	74-73N	ZB ☑
7♦	SP322B	DTL	2						0	5.0	3.6	0.6C		0	7	B02-250	DIP16a
8♦	T54LS109D2	TTL	2		Yes	Yes		26n	0	5.0	2.0	0.7	40mQ	5	C	74-109N	DIP16b
9♦	T54LS112D2	TTL	2		Yes	Yes		16n	0	5.0	2.0	0.7	40mQ	5	C	74LS112N	DIP16b
10♦	T74LS109B1	TTL	2		Yes	Yes		26n	0	5.0	2.0	0.8	40mQ	0	7	74-109N	DIP16a
11♦	T74LS109D1	TTL	2		Yes	Yes		26n	0	5.0	2.0	0.8	40mQ	0	7	74-109N	DIP16b
12♦	T74LS112B1	TTL	2		Yes	Yes		16n	0	5.0	2.0	0.8	40mQ	0	7	74LS112N	DIP16a
13♦	T74LS112D1	TTL	2		Yes	Yes		16n	0	5.0	2.0	0.8	40mQ	0	7	74LS112N	DIP16b
14♦	FZJ121	DTL	2	500k†					0	12	7.5	4.0	288m	0	7	B02-266	DIP16a
15♦	FZJ125	DTL	2	500k†					0	12	7.5	4.0	288m	2	8	B02-266	DIP16a
16♦	H110D1	DTL	2	1M†				600n	0	20	8.0	6.0	700m	0	7	B02-245	DIP14b
17♦	H110D2	DTL	2	1M†				600n	0	20	8.0	6.0	384m	5	C	B02-245	DIP14b
18♦	H110D6	DTL	2	1M†				600n	0	20	8.0	6.0	448m	4	8	B02-245	DIP14
19♦	H111D1	DTL	2	1M†				600n	0	20	8.0	6.0	700m	0	7	B02-245a	DIP16a
20♦	H111D2	DTL	2	1M†				600n	0	20	8.0	6.0	384m	5	C	B02-245a	DIP16a
21♦	H111D6	DTL	2	1M†				600n	0	20	8.0	6.0	448m	4	8	B02-245a	DIP16a
22♦	H210B1	DTL	2	1M†				600n	0	16	8.0	6.0	700mQ	0	7	B02-245	DIP14b
23♦	H211B1(1)	DTL	2	1M†				600n	0	16	8.0	6.0	700mQ	0	7	B02-245a	DIP16a
24	K176TV1	MOS	2	2M					0	9.0	8.2	0.3		1	7	B02-269	None
25♦	MSM531	CMS	2	2M†				500n	0	5.0	3.6	0.8	50u	2	7	B02-301	DIP16a
26♦	MC688L	DTL	2	2.5M				450n	0	15	12.5	1.50C	375m†	3	7	6-88P	DIP16b
27♦	MC688P	DTL	2	2.5M				450n	0	15	12.5	1.50C	375m†	3	7	6-88P	DIP16a
28▼	MC663L	DTL	2	3M†				180n	0	15	12.5	1.5C	200m†	3	7	6-63P	TO-116
29▼	MC663P	DTL	2	3M†				180n	0	15	12.5	1.5C	200m†	3	7	6-63P	DIP14a
30♦	MM4627AD	CMS	2	3M†	Yes	Yes		175n	0	5.0	4.99	.01C	500m	5	C	40-27B	DIP16b
31	MM4627AF	CMS	2	3M†	Yes	Yes		175n	0	5.0	4.99	.01C	500m	5	C	40-27B	FP98
32♦	MM5627AN	CMS	2	3M†	Yes	Yes		175n	0	5.0	4.99	.01C	500m	4	8	40-27B	DIP16a
33♦	SFC473LE	TTL	2	3M†	Yes	No		200n	0	5.0	2.0	0.7		0	7	74-73N	TO-116
34♦	SFC473LEM	TTL	2	3M†	Yes	No		200n	0	5.0	2.0	0.7		5	C	74-73N	TO-116
35♦	M4027BP	CMS	2	3.5M	Yes	Yes		300n	0	15	11	4.0	500m	4	8	40-27B	DIP16b
36♦	TC4027BP	CMS	2	3.5M	Yes	Yes		300n	0	15	14.9	.05C	300m	4	8	40-27B	DIP16a
37♦	TC7476BP	CMS	2	3.5M	Yes	Yes		300n	0	15	14.9	.05C	300m	4	8	74LS76N	DIP16a
38♦	MM54C73D	CMS	2	4M†	Yes	No		250n		15	3.5	1.5	500m	5	C	74-73N	DIP14a
39♦	MM54C76D	CMS	2	4M†	Yes	Yes		250n		15	3.5	1.5	500m	5	C	74LS76N	DIP14a
40♦	MM54C107D	CMS	2	4M†	Yes	No		250n		15	3.5	1.5	500m	5	C	74LS107N	DIP14a
41♦	MM74C73N	CMS	2	4M†	Yes	No		250n		15	3.5	1.5	500m	0	7	74-73N	DIP14a
42♦	MM74C76N	CMS	2	4M†	Yes	Yes		250n		15	3.5	1.5	500m	0	7	74LS76N	DIP14a
43♦	MM74C107N	CMS	2	4M†	Yes	No		250n		15	3.5	1.5	500m	0	7	74LS107N	DIP14a
44♦	MSM531RS	CMS	2	4M†				0.5u	0.3	5.0	3.6	0.8		3	8	B02-301	DIP16 ☑
45♦	MSM4027RS	CMS	2	4M†	Yes	Yes		0.5u	0.3	16	3.6	1.0	200m	4	8	40-27B	DIP16 ☑
46♦	FCJ121	DTL	2	5M					0	8	2.0	1.0	100m	0	7	B02-139	TO-116
47♦	FCJ131	DTL	2	7M					0	6.0	6.0	0	100m	0	7	B02-188	DIP14a
48♦	FCJ191	DTL	2	7M					0	6.0	6.0	0	100m	0	7	B02-188a	DIP14a
49♦	FCJ211	DTL	2	7M					0	6.0	6.0	0	100m	0	7	B02-188b	DIP14a
50♦	SCL4027B	CMS	2	7M†	Yes	Yes		125n	0.5	18	7.0	3.0	300m	5	C	40-27B	DIP16a
51♦	CD4027BCJ	CMS	2	7.6M	Yes	Yes		130n	0	15	11	4.0	240uQ	4	8	40-27B	DIP16a
52♦	CD4027BCN	CMS	2	7.6M	Yes	Yes		130n	0	15	11	4.0	240uQ	4	8	40-27B	DIP16a
53♦	CD4027BMJ	CMS	2	7.6M	Yes	Yes		130n	0	15	11	4.0	60uQ	5	C	40-27B	DIP16a
54	CD4027BMW	CMS	2	7.6M	Yes	Yes		130n	0	15	11	4.0	60uQ	5	C	40-27B	FP88c
55	CD4027AD	CMS	2	8M	Yes	Yes		110n	0	15	9.95	0.05C	500m	5	C	40-27B	MO001AE
56	CD4027AE	CMS	2	8M	Yes	Yes		150n	0	15	9.95	0.05C	500m	4	8	40-27B	MO001AC
57	CD4027AF	CMS	2	8M	Yes	Yes		110n	0	15	9.95	0.05C	500m	5	C	40-27B	MO001AC
58♦	CM4027AD	CMS	2	8M†	Yes	Yes		110n	0	10	10	0C	200m	5	C	40-27B	DIP16a
59♦	CM4027AE	CMS	2	8M†	Yes	Yes		150n	0	10	10	0C	200m	4	8	40-27B	DIP16a
60	HBC4027AD	CMS	2	8M†	Yes	Yes		110n	0	10	10	0C	20uQ	5	C	40-27B	MO001AE
61	HBC4027AF	CMS	2	8M†	Yes	Yes		110n	0	10	10	0C	20uQ	5	C	40-27B	MO001AE
62	HBC4027AK	CMS	2	8M†	Yes	Yes		110n	0	10	10	0C	20uQ	5	C	40-27B	MO004AG
63	HBF4027AE	CMS	2	8M†	Yes	Yes		150n	0	10	10	0C	200uQ	4	8	40-27B	MO001AC
64	HBF4027AF	CMS	2	8M†	Yes	Yes		150n	0	10	10	0C	200uQ	4	8	40-27B	MO001AE
65♦	HCC4027BD	CMS	2	8M	Yes	Yes		90n	0	15	11	4.0	500m	5	C	40-27B	DIP16a
66♦	HCC4027BF	CMS	2	8M	Yes	Yes		90n	0	15	11	4.0	500m	5	C	40-27B	DIP16a
67	HCC4027BK	CMS	2	8M	Yes	Yes		90n	0	15	11	4.0	500m	5	C	40-27B	FP131
68♦	HCF4027BE	CMS	2	8M	Yes	Yes		90n	0	15	11	4.0	500m	4	8	40-27B	DIP16a
69♦	HCF4027BF	CMS	2	8M	Yes	Yes		90n	0	15	11	4.0	500m	4	8	40-27B	DIP16a
70♦	MSM4027	CMS	2	8M†	Yes	Yes		250n	0	10	7.2	2.0	2.8mQ	2	7	40-27B	DIP16a
71♦	SFF24027AEV	CMS	2	8M	Yes	Yes		150n	0	10	9.99	.01C	200m	4	8	40-27B	DIP16a
72♦	SFF24027AKM	CMS	2	8M	Yes	Yes		110n	0	10	9.99	.01C	200m	5	C	40-27B	DIP16a
73♦	4027BDC	CMS	2	9M	Yes	Yes		140n	0	15	11	4.0	1.8mQ	4	8	40-27B	DIP16a
74♦	4027BDM	CMS	2	9M	Yes	Yes		140n	0	15	11	4.0	1.8mQ	5	C	40-27B	DIP16a
75	4027BFC	CMS	2	9M	Yes	Yes		140n	0	15	11	4.0	1.8mQ	4	8	40-27B	FP103
76	4027BFM	CMS	2	9M	Yes	Yes		140n	0	15	11	4.0	1.8mQ	5	C	40-27B	FP103
77	4027BPC	CMS	2	9M	Yes	Yes		140n	0	15	11	4.0	1.8mQ	4	8	40-27B	None
78	883C4027B	CMS	2	10M	Yes	Yes		100n	0	15	8.2	6.7	300n	5	C	40-27B	MO001AG
79	BCL4027B	CMS	2	10M	Yes	Yes		100n	0	15	8.2	6.7	300m	5	C	40-27B	MO001AG
80♦	FJJ121-7473	TTL	2	10M	Yes	No		40n	0	5.0	2.0	0.8	80m†	0	7	74-73N	DIP14a
81♦	FJJ261-74107	TTL	2	10M	Yes	No		40n	0	5.0	2.0	0.8	80m†	0	7	74-107N	DIP14a
82♦	MB84027B	CMS	2	10M	Yes	Yes		130n	0	15	10.5	4.5	240uQ	4	8	40-27B	DIP16a
83♦	MB84027BM	CMS	2	10M	Yes	Yes		130n	0	15	10.5	4.5	240uQ	4	8	40-27B	DIP16b
84♦	SP321A	DTL	2	10M				35n	0	6.0	38	0.6	90m†		7	None	DIP14a
85♦	DM54L73J	TTL	2	11M†	Yes	No		150n	0	5.0	2.0	0.7	10m†	5	C	74-73N	DIP14a
86	DM54L73W	TTL	2	11M	Yes	No		75n	0	8.0	2.0	0.7		5	C	54-73W	FP97c
87♦	DM54L78J	TTL	2	11M†	Yes	Yes		150n	0	5.0	2.0	0.7	5.0m†	5	C	74L78N	DIP14a
88♦	DM54L78W	TTL	2	11M	Yes	Yes		75n	0	8.0	2.0	0.7		5	C	54L78T	FP97c
89♦	DM74L73J	TTL	2	11M†	Yes	No		150n	0	5.0	2.0	0.7	10m†	0	7	74-73N	DIP14a
90♦	DM74L73N	TTL	2	11M†	Yes	No		150n	0	5.0	2.0	0.7	10m†	0	7	74-73N	DIP14a
91♦	DM74L78N	TTL	2	11M†	Yes	Yes		150n	0	5.0	2.0	0.7	5.0m†	0	7	74L78N	DIP14a
92	HEF4027	CMS	2	11M	Yes	Yes		75n	0	15	11	4.0	400m	4	8	40-27B	DL ☑
93♦	HEF4027BPN	CMS	2	11M	Yes	Yes		75n	0	15	11.0	4.0	400m	4	8	40-27B	DIP16b
94♦	MC14027BAL	CMS	2	13M†	Yes	Yes		150n	0	15	11	4.0	60uQ	5	C	40-27B	DIP16a
95▼	MC14027BALD	CMS	2	13M†	Yes	Yes		150n	0	15	11	4.0	60uQ	5	C	40-27B	DIP16a
96▼	MC14027BALDS	CMS	2	13M†	Yes	Yes		150n	0	15	11	4.0	60uQ	5	C	40-27B	DIP16a
97▼	MC14027BALS	CMS	2	13M†	Yes	Yes		150n	0	15	11	4.0	60uQ	5	C	40-27B	DIP16a
98♦	MC14027BCL	CMS	2	13M†	Yes	Yes		150n	0	15	11	4.0	240uQ	4	8	40-27B	DIP16a
99▼	MC14027BCLD	CMS	2	13M†	Yes	Yes		150n	0	15	11	4.0	240uQ	4	8	40-27B	DIP16a
100▼	MC14027BCLDS	CMS	2	13M†	Yes	Yes		150n	0	15	11	4.0	240uQ	4	8	40-27B	DIP16a
101▼	MC14027BCLS	CMS	2	13M†	Yes	Yes		150n	0	15	11	4.0	240uQ	4	8	40-27B	DIP16a
102♦	MC14027BCP	CMS	2	13M†	Yes	Yes		150n	0	15	11	4.0	240uQ	4	8	40-27B	DIP16a
103▼	MC14027BCPD	CMS	2	13M†	Yes	Yes		150n	0	15	11	4.0	240uQ	4	8	40-27B	DIP16a
104▼	MC14027BCPDS	CMS	2	13M†	Yes	Yes		150n	0	15	11	4.0	240uQ	4	8	40-27B	DIP16a
105▼	MC14027BCPS	CMS	2	13M†	Yes	Yes		150n	0	15	11	4.0	240uQ	4	8	40-27B	DIP16a
106▼	MC14027BD	CMS	2	13M†	Yes	Yes		150n	0	15	11	4.0	240uQ	4	8	40-27B	DIP16a
107	UPD4027BG	CMS	2	13M	Yes	Yes		150n	0	20.0	11.0	4.0	200m	4	8	40-27B	FP162
108♦	PC54HCT107D(A)	CMS	2	14M	Yes	No		60n	0	5.0	2.0	0.8	500m	5	C	74-107	DIP14b
109♦	54107DM	TTL	2	15M†	Yes	No		40n	0	5.0	2.0	0.8	200m†	5	C	74-107N	DIP14a
110	54107FM	TTL	2	15M†	Yes			40n	0	5.0	2.0	0.8	200m†	5	C	54-107F	FP52

4. FLIP-FLOPS - JK-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	74107DC	TTL	2	15M	Yes	No		40n	0	5.0	2.0	0.8	200m	0	C	74LS107N	TO-116
2♦	74107PC	TTL	2	15M	Yes	No		40n	0	5.0	2.0	0.8	200m	0	C	74-107N	TO-116
3♦	FJJ191-7476	TTL	2	15M	Yes	Yes		40n	0	5.0	2.0	0.8	80m†	0	7	74LS76N	DIP16a
4♦	HEF4027BD	CMS	2	15M†	Yes	Yes		80n	0	10	7.0	3.0	500m	4	8	40-27B	DIP16b
5♦	HEF4027BP	CMS	2	15M†	Yes	Yes		80n	0	10	7.0	3.0	500m	4	8	40-27B	DIP16b
6♦	HEF4027BT	CMS	2	15M†	Yes	Yes		80n	0	10	7.0	3.0	400m	4	8	40-27B	FP148
7♦	M53273P	TTL	2	15M†	Yes	No		30n	0	5.0	2.0	0.8	40m†	0	7	74-73N	DIP14a
8♦	M53276P	TTL	2	15M†	Yes	Yes		30n	0	5.0	2.0	0.8	40m†	0	7	74LS76N	DIP16a
9♦	N7473F	TTL	2	15M	Yes	No		40n	0	5.0	2.0	0.8	200m	0	7	74-73N	DIP14b
10♦	N7473N	TTL	2	15M	Yes	No		40n	0.5	7.0	2.0	0.8	200m	0	7	74-73N	DIP14a
11♦	N7476F	TTL	2	15M	Yes	Yes		40n	0	5.0	2.0	0.8	200m	0	7	74LS76N	DIP16b
12♦	N7476N	TTL	2	15M	Yes	Yes		40n	0.5	7.0	2.0	0.8	200m	0	7	74LS76N	DIP16a
13♦	N74107F	TTL	2	15M	Yes	No		40n	0	5.0	2.0	0.8	200m	0	7	74-107N	DIP14b
14♦	N74107N	TTL	2	15M	Yes	No		40n	0.5	7.0	2.0	0.8	200m	0	7	74-107N	DIP14a
15♦	PC54HCT73D(A)	CMS	2	15M	Yes	No		60n	0	5.0	2.0	0.8	500m	5	C	74-73	DIP14b
16♦	S5473F	TTL	2	15M	Yes	No		40n	0.5	7.0	2.0	0.8	200m	5	C	74-73N	DIP14b
17	S5473W	TTL	2	15M	Yes	No		40n	0.5	7.0	2.0	0.8	200m	5	C	54-73W	FP153
18♦	S5476F	TTL	2	15M	Yes	Yes		40n	0.5	7.0	2.0	0.8	200m	0	7	74LS76N	DIP16b
19	S5476W	TTL	2	15M	Yes	Yes		40n	0.5	7.0	2.0	0.8	200m	0	7	54LS76W	FP154
20♦	S54107F	TTL	2	15M	Yes	No		40n	0	5.0	2.0	0.8	200m	5	C	74-107N	DIP14b
21	S54107W	TTL	2	15M	Yes			40n	0	5.0	2.0	0.8	200m	5	C	54-107F	FP39e
22♦	SFC473E	TTL	2	15M†	Yes	No		50n	0	5.0	2.0	0.8	40m	0	7	74-73N	TO-116
23♦	CD4027BD	CMS	2	16M	No	No		130n	0	18	7.0	3.0	500m	5	C	40-27B	MO001AE
24♦	CD4027BE	CMS	2	16M	No	No		130n	0	18	7.0	3.0	500m	4	8	40-27B	MO001AC
25♦	CD4027BF	CMS	2	16M	No	No		130n	0	18	7.0	3.0	500m	5	C	40-27B	MO001AC
26♦	CD4027BK	CMS	2	16M	No	No		130n	0	18	7.0	3.0	500m	5	C	40-27B	MO004AG
27♦	HEF4027P	CMS	2	16M†	Yes	Yes		175n	0	10	7.0	3.0	200uQ	4	8	40-27B	DIP16a
28♦	PC54HC107D(A)	CMS	2	17M	Yes	No		60n	0	5.0	3.15	0.9	500m	5	C	74-107	DIP14b
29♦	PC74HCT107D(A)	CMS	2	17M	Yes	No		50n	0	5.0	2.0	0.8	500m	4	8	74-107	DIP14b
30♦	PC74HCT107P	CMS	2	17M	Yes	No		48n	0	5.0	2.0	1.35	500m	4	C	74-107	DIP14b
31♦	SN54HC112J	CMS	2	17M	Yes	Yes		37n	0	5.0	3.15	0.9		5	C	74LS112N	DIP16a
32♦	SN54HC114J	CMS	2	17M	Yes	Yes		50n	0	5.0	3.15	0.9		5	C	74LS114N	MO001AA
33▼	SN74HC114D	CMS	2	17M	Yes	Yes		50n	0	5.0	3.15	0.9		4	8	74LS114N	FP147
34♦	SN74HC114N	CMS	2	17M	Yes	Yes		50n	0	5.0	3.15	0.9		4	8	74LS114N	MO001AA
35♦	MM54HCT109J(A)	CMS	2	18M	Yes	Yes		52n	0.5	7.0	2.0	0.8	500m	5	C	74-109N	DIP16a
36♦	PC54HC73D(A)	CMS	2	18M	Yes	No		60n	0	5.0	3.15	0.9	500m	5	C	74-73	DIP14b
37♦	PC54HCT109D(A)	CMS	2	18M	Yes	Yes		60n	0	5.0	2.0	0.8	500m	5	C	74-109	DIP16b
38♦	PC74HCT73D(A)	CMS	2	18M	Yes	No		50n	0	5.0	2.0	0.8	500m	4	8	74-73	DIP14b
39♦	PC74HCT73P	CMS	2	18M	Yes	No		57n	0	5.0	2.0	0.8	500m	4	C	74-73	DIP14b
40	PC74HCT73T	CMS	2	18M	Yes	No		57n	0	5.0	2.0	0.8	300m	4	C	74-73	FP147
41♦	PC74HCT109P	CMS	2	18M	Yes	Yes		53n	0	5.0	2.0	0.8	500m	4	C	74-109	DIP16b
42	PC74HCT109T	CMS	2	18M	Yes	Yes		53n	0	5.0	2.0	0.8	300m	4	C	74-109	FP148
43♦	PC74HCT112P	CMS	2	18M	Yes	Yes		60n	0	5.0	2.0	0.8	500m	4	C	74LS112	DIP16b
44	PC74HCT112T	CMS	2	18M	Yes	Yes		60n	0	5.0	2.0	0.8	300m	4	C	74LS112	FP148
45♦	5473DM	TTL	2	20M†	Yes	No		40n	0	5.0	2.0	0.8	50m†	5	C	74-73N	TO-116
46	5473FM	TTL	2	20M†	Yes	No		40n	0	5.0	2.0	0.8	50m†	5	C	54-73W	FP21h
47♦	5476DM	TTL	2	20M†	Yes	Yes		40n	0	5.0	2.0	0.8	100m	5	C	74LS76N	DIP16a
48	5476FM	TTL	2	20M†	Yes	Yes		40n	0	5.0	2.0	0.8	100m	5	C	54LS76W	FP52
49♦	7473DC	TTL	2	20M†	Yes	No		40n	0	5.0	2.0	0.8	50m†	0	7	74-73N	TO-116
50♦	7473PC	TTL	2	20M†	Yes	No		40n	0	5.0	2.0	0.8	50m†	0	7	74-73N	DIP14a
51♦	7476DC	TTL	2	20M†	Yes	Yes		40n	0	5.0	2.0	0.8	100m	0	7	74LS76N	DIP16a
52	7476PC	TTL	2	20M†	Yes	Yes		40n	0	5.0	2.0	0.8	100m	0	7	74LS76N	None
53♦	M53307P	TTL	2	20M†	Yes	No		20n	0	5.0	2.0	0.8	50m†	0	7	74-107N	DIP14a
54♦	MB410	TTL	2	20M	Yes	No		30n	0	5.0	2.0	0.8	80m†	0	7	74-107N	DIP14b
55♦	MB410M	TTL	2	20M	Yes	No		30n	0	5.0	2.0	0.8	80m†	0	7	74-107N	DIP14b
56♦	MM54HC76J	CMS	2	20M	Yes	Yes		40n	0.5	7.0	4.2	1.2	500m	5	C	74LS76N	DIP16a
57♦	MM54HC107J	CMS	2	20M	Yes	No		40n	0.5	7.0	4.2	1.2	500m	5	C	74LS107N	DIP14a
58♦	MM54HC109J	CMS	2	20M	Yes	Yes		58n	0.5	7.0	4.2	1.2	500m	5	C	74-109N	DIP16a
59♦	MM54HC112J	CMS	2	20M	Yes	Yes		40n	0.5	7.0	4.2	1.2	500m	5	C	74LS112N	DIP16a
60♦	MM54HC113J	CMS	2	20M	No	Yes		40n	0.5	7.0	4.2	1.2	500m	5	C	74LS113N	DIP14a
61♦	PC54HC109D(A)	CMS	2	20M	Yes	Yes		57n	0	5.0	3.15	0.9	500m	5	C	74-109	DIP16b
62♦	PC74HC73P	CMS	2	20M	Yes	No		51n	0	5.0	3.15	1.35	500m	4	C	74-73	DIP14b
63	PC74HC73T	CMS	2	20M	Yes	No		51n	0	5.0	3.15	1.35	300m	4	C	74-73	FP147
64♦	PC74HC107D(A)	CMS	2	20M	Yes	No		50n	0	5.0	3.15	0.9	500m	4	8	74-107	DIP14b
65♦	PC74HC107P	CMS	2	20M	Yes	No		50n	0	5.0	3.15	0.9	500m	4	8	74-107	DIP14b
66	PC74HC107T	CMS	2	20M	Yes	No		50n	0	5.0	3.15	0.9	300m	4	8	74-107	FP147
67♦	PC74HC109P	CMS	2	20M	Yes	Yes		53n	0	5.0	3.15	1.35	500m	4	C	74-109	DIP16b
68	PC74HC109T	CMS	2	20M	Yes	Yes		53n	0	5.0	3.15	1.35	300m	4	C	74-109	FP148
69♦	PC74HC112P	CMS	2	20M	Yes	Yes		53n	0	5.0	3.15	1.35	500m	4	C	74LS112	DIP16b
70	PC74HC112T	CMS	2	20M	Yes	Yes		53n	0	5.0	3.15	1.35	300m	4	C	74LS112	FP148
71	PC74HCT107T	CMS	2	20M	Yes	No		54n	0	5.0	2.0	0.8	300m	4	C	74-107	FP147
72♦	SFC473EM	TTL	2	20M†	Yes	No		40n	0	5.0	2.0	0.8		5	C	74-73N	TO-116
73♦	SFC473ET	TTL	2	20M†	Yes	No		40n	0	5.0	2.0	0.8		2	8	74-73N	TO-116
74♦	SFC476E	TTL	2	20M†	Yes	Yes		40n	0	5.0	2.0	0.8		0	7	74LS76N	DIP16a
75♦	SFC476EM	TTL	2	20M†	Yes	Yes		40n	0	5.0	2.0	0.8		5	C	74LS76N	DIP16a
76♦	SFC476ET	TTL	2	20M†	Yes	Yes		40n	0	5.0	2.0	0.8		2	8	74LS76N	DIP16a
77♦	SFC4107E	TTL	2	20M†	Yes	No		40n	0	5.0	2.0	0.8		0	7	74-107N	TO-116
78♦	SFC4107EM	TTL	2	20M†	Yes	No		40n	0	5.0	2.0	0.8		5	C	74-107N	TO-116
79♦	SFC4107ET	TTL	2	20M†	Yes	No		40n	0	5.0	2.0	0.8		2	8	74-107N	TO-116
80▼	SN74HC112D	CMS	2	20M	Yes	Yes		31n	0	5.0	3.15	0.9		4	8	74LS112	FP147
81♦	SN74HC112N	CMS	2	20M	Yes	Yes		31n	0	5.0	3.15	0.9		4	8	74LS112	DIP16a
82♦	SN5473J	TTL	2	20M	Yes	No		40n	0	7.0	2.0	0.8	50m†	5	C	74-73N	DIP14a
83	SN5473W	TTL	2	20M	Yes	No		40n	0	7.0	2.0	0.8	50m†	5	C	54-73W	FP97a
84♦	SN5476J	TTL	2	20M	Yes	Yes		40n	0	7.0	2.0	0.8	100m	5	C	74LS76N	DIP16a
85♦	SN7473N	TTL	2	20M	Yes	No		40n	0	7.0	2.0	0.8	50m†	0	7	74-73N	DIP14a
86♦	SN7476N	TTL	2	20M	Yes	Yes		40n	0	7.0	2.0	0.8	100m	0	7	74LS76N	DIP16a
87♦	SN54107J	TTL	2	20M	Yes	No		40n	0	7.0	2.0	0.8	200m	5	C	74-107N	DIP14a
88♦	SN74107N	TTL	2	20M	Yes	No		40n	0	7.0	2.0	0.8	200m	0	7	74-107N	DIP14a
89	TC40H076AF	CMS	2	20M	Yes	Yes		55n	0	10.0	4.0	1.0	180m	4	8	40H076	FP167
90	TC40H076AP	CMS	2	20M	Yes	Yes		55n	0	10.0	4.0	1.0	300m	4	8	40H076	MO001AC
91	TC40H076F	CMS	2	20M	Yes	Yes		55n	0	10.0	4.0	1.0	180m	4	8	40H076	FP167
92	TC40H076P	CMS	2	20M	Yes	Yes		55n	0	10.0	4.0	1.0	300m	4	8	40H076	MO001AC
93	TC40H107AF	CMS	2	20M				52n	0	10.0	4.0	1.0	180m	4	8	40-107	FP166
94	TC40H107AP	CMS	2	20M	Yes	No		52n	0	10.0	4.0	1.0	300m	4	8	74LS107N	MO001AA
95	TC40H107F	CMS	2	20M				52n	0	10.0	4.0	1.0	180m	4	8	40-107	FP166
96	TC40H107P	CMS	2	20M	Yes	No		52n	0	10.0	4.0	1.0	300m	4	8	74-107N	MO001AA
97▼	HD74HC109FP	CMS	2	21M	Yes	Yes		15n	0	5.0	3.15	1.35	500m	4	8	74LS109N	FP162
98▼	HD74HC109P	CMS	2	21M	Yes	Yes		15n	0	5.0	3.15	1.35	500m	4	8	74LS109N	DIP16a
99♦	MM54HC73J	CMS	2	21M	Yes	No		40n	0.5	7.0	4.2	1.2	500m	5	C	74-73N	DIP14a
100♦	SN54HC107J	CMS	2	21M	Yes	No		37n	0	5.0	3.15	0.9		5	C	74LS107N	MO001AA
101♦	SN54HC109J	CMS	2	21M	Yes	Yes		50n	0	5.0	3.15	0.9		5	C	74-109N	DIP16a
102♦	SN54HC113J	CMS	2	21M	No	Yes		42n	0	5.0	3.15	0.9		5	C	74LS113N	MO001AA
103	74HCT73D	CMS	2	22M	No	No		48n	0.5	7.0	2.0	0.8		4	8	74-73	FP147
104♦	74HCT73N	CMS	2	22M	No	No		48n		5.0	2.0	0.8		4	8	74-73	DIP14a
105	74HCT109D	CMS	2	22M	No	No		44n	0.5	7.0	2.0	0.8		4	8	74-109	FP162
106♦	74HCT109N	CMS	2	22M	No	No		44n	0.5	7.0	2.0	0.8		4	8	74-109	DIP16b
107	74HCT112D	CMS	2	22M	No	No		50n	0.5	7.0	2.0	0.8		4	8	74LS112	FP162
108♦	74HCT112N	CMS	2	22M	No	No		50n	0.5	7.0	2.0	0.8		4	8	74LS112	DIP16b
109	HEF4027BTD	CMS	2	22M	Yes	Yes		75n	0	15	11.0	4.0	200m	4	8	40-27B	FP148
110♦	MM74HCT109J(A)	CMS	2	22M	Yes	Yes		44n	0.5	7.0	2.0	0.8	500m	4	8	74-109N	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - JK-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	MM74HCT109N(A)	CMS	2	22M	Yes	Yes		44n	0.5	7.0	2.0	0.8	500m	4	8	74-109N	DIP16a
2♦	MN4027B	CMS	2	22M	Yes	Yes		105n	0	15	11.0	4.0	400m	4	8	40-27B	DIP16a
3♦	PC74HC73D(A)	CMS	2	22M	Yes	No		50n	0	5.0	3.15	0.9	500m	4	8	74-73	DIP14b
4♦	PC74HCT109D(A)	CMS	2	22M	Yes	Yes		50n	0	5.0	2.0	0.8	500m	4	8	74-109	DIP16b
5	74HCT107D	CMS	2	24M	No	No		48n	0.5	7.0	2.0	0.8		4	8	74-107	FP147
6♦	74HCT107N	CMS	2	24M	No	No		48n	0.5	7.0	2.0	0.8		4	8	74-107	DIP14a
7▼	HD74HC73FP	CMS	2	24M	Yes	No		18n	0	5.0	3.15	1.35	500m	4	8	74-73N	FP161
8▼	HD74HC73P	CMS	2	24M	Yes	No		18n	0	5.0	3.15	1.35	500m	4	8	74-73N	DIP14a
9▼	HD74HC76FP	CMS	2	24M	Yes	Yes		21n	0	5.0	3.15	1.35	500m	4	8	74LS76N	FP162
10▼	HD74HC76P	CMS	2	24M	Yes	Yes		21n	0	5.0	3.15	1.35	500m	4	8	74LS76N	DIP16a
11▼	HD74HC78FP	CMS	2	24M	Yes	Yes		20n	0	5.0	3.15	1.35	500m	4	8	74H78N	FP161
12▼	HD74HC78P	CMS	2	24M	Yes	Yes		20n	0	5.0	4.2	1.8	500m	4	8	74H78N	DIP14a
13▼	HD74HC107FP	CMS	2	24M	Yes	No		19n	0	5.0	3.15	1.35	500m	4	8	74LS107N	FP161
14▼	HD74HC107P	CMS	2	24M	Yes	No		19n	0	5.0	3.15	1.35	500m	4	8	74LS107N	DIP14a
15▼	HD74HC108FP	CMS	2	24M	Yes	Yes		20n	0	5.0	3.15	1.35	500m	4	8	74H78N	FP161
16▼	HD74HC108P	CMS	2	24M	Yes	Yes		20n	0	5.0	3.15	1.35	500m	4	8	74H78N	DIP14a
17▼	HD74HC112FP	CMS	2	24M	Yes	Yes		17n	0	5.0	3.15	1.35	500m	4	8	74LS112N	FP162
18▼	HD74HC112P	CMS	2	24M	Yes	Yes		17n	0	5.0	3.15	1.35	500m	4	8	74LS112N	DIP16a
19▼	HD74HC113FP	CMS	2	24M	No	Yes		18n	0	5.0	3.15	1.35	500m	4	8	74LS113N	FP161
20▼	HD74HC113P	CMS	2	24M	No	Yes		18n	0	5.0	3.15	1.35	500m	4	8	74LS113N	DIP14a
21▼	HD74HC114FP	CMS	2	24M	Yes	Yes		18n	0	5.0	3.15	1.35	500m	4	8	74LS114N	FP161
22▼	HD74HC114P	CMS	2	24M	Yes	Yes		18n	0	5.0	3.15	1.35	500m	4	8	74LS114N	DIP14a
23♦	MM74HC76J	CMS	2	24M	Yes	Yes		35n	0.5	7.0	4.2	1.2	500m	4	8	74LS76N	DIP16a
24♦	MM74HC76N	CMS	2	24M	Yes	Yes		35n	0.5	7.0	4.2	1.2	500m	4	8	74LS76N	DIP16a
25♦	MM74HC107J	CMS	2	24M	Yes	No		32n	0.5	7.0	4.2	1.2	500m	4	8	74-107N	DIP14a
26♦	MM74HC107N	CMS	2	24M	Yes	No		32n	0.5	7.0	4.2	1.2	500m	4	8	74-107N	DIP14a
27♦	MM74HC109J	CMS	2	24M	Yes	Yes		49n	0.5	7.0	4.2	1.2	500m	4	8	74-109N	DIP16a
28♦	MM74HC109N	CMS	2	24M	Yes	Yes		49n	0.5	7.0	4.2	1.2	500m	4	8	74-109N	DIP16a
29♦	MM74HC112J	CMS	2	24M	Yes	Yes		35n	0.5	7.0	4.2	1.2	500m	4	8	74LS112N	DIP16a
30♦	MM74HC112N	CMS	2	24M	Yes	Yes		35n	0.5	7.0	4.2	1.2	500m	4	8	74LS112N	DIP16a
31♦	MM74HC113J	CMS	2	24M	No	Yes		35n	0.5	7.0	4.2	1.2	500m	4	8	74LS113N	DIP14a
32♦	MM74HC113N	CMS	2	24M	No	Yes		35n	0.5	7.0	4.2	1.2	500m	4	8	74LS113N	DIP14a
33♦	PC74HC109D(A)	CMS	2	24M	Yes	Yes		48n	0	5.0	3.15	0.9	500m	4	8	74-109	DIP16b
34♦	9024DC	TTL	2	25M†	Yes	Yes		25n	0	5.0	1.8	.85	140m	0	7	74-109N	DIP16a
35♦	9024DM	TTL	2	25M†	Yes	Yes		25n	0	5.0	1.7	.90	140m	5	C	74-109N	DIP16a
36	9024FM	TTL	2	25M†	Yes	Yes		25n	0	5.0	1.7	.90	140m	5	C	54-109W	FP47a
37♦	DM54ALS112AJ	TTL	2	25M	Yes	Yes		23n	0	5.0	2.0	0.8		5	C	74LS112	DIP16a
38♦	DM54ALS113AJ	TTL	2	25M	No	Yes		23n	0	5.0	2.0	0.8		5	C	74LS113	DIP14a
39♦	DM54ALS114AJ	TTL	2	25M		Yes		23n	0	5.0	2.0	0.8		5	C	74LS114	DIP14a
40♦	DM5473J	TTL	2	25M†	Yes	No		45n	0	5.0	2.0	0.8	90m†	5	C	74-73N	DIP14a
41	DM5473W	TTL	2	25M†	Yes	No		45n	0	5.0	2.0	0.8	90m†	5	C	54-73W	FP97a
42♦	DM5476J	TTL	2	25M†	Yes	Yes		45n	0	5.0	2.0	0.8	90m†	5	C	74LS76N	DIP16a
43	DM5476W	TTL	2	25M†	Yes	Yes		45n	0	5.0	2.0	0.8	90m†	5	C	54LS76W	FP88a
44♦	DM7473N	TTL	2	25M†	Yes	No		45n	0	5.0	2.0	0.8	90m†	0	7	74-73N	DIP14a
45♦	DM7476N	TTL	2	25M†	Yes	Yes		45n	0	5.0	2.0	0.8	90m†	0	7	74LS76N	DIP16a
46♦	DM54107J	TTL	2	25M†	Yes	No		45n	0	5.0	2.0	0.8	90m	5	C	74-107N	DIP16a
47♦	DM74107J	TTL	2	25M†	Yes	No		45n	0	5.0	2.0	0.8	90m†	0	7	74-107N	DIP16a
48♦	DM74107N	TTL	2	25M†	Yes	No		45n	0	5.0	2.0	0.8	90m†	0	7	74-107N	DIP16a
49♦	HD74LS109AP	TTL	2	25M	Yes	Yes		40n	5.0	0	2.0	0.8	400m	2	7	74-109N	DIP16a
50♦	M74HC73B1(A)	CMS	2	25M	Yes	No		47n	0	5.0	3.15	1.35	500m	4	8	74-73	DIP14a
51	M74HC73C1(A)	CMS	2	25M	Yes	No		47n	0	5.0	3.15	1.35	500m	4	8	74-73	LC33
52♦	M74HC73F1(A)	CMS	2	25M	Yes	No		47n	0	5.0	3.15	1.35	500m	4	8	74-73	DIP14a
53♦	M74HC76B1(A)	CMS	2	25M	Yes	Yes		46n	0	5.0	3.15	1.35	500m	4	8	74LS76	DIP16a
54	M74HC76C1(A)	CMS	2	25M	Yes	Yes		46n	0	5.0	3.15	1.35	500m	4	8	74LS76	LC33
55♦	M74HC76F1(A)	CMS	2	25M	Yes	Yes		46n	0	5.0	3.15	1.35	500m	4	8	74LS76	DIP16b
56♦	M74HC107B1(A)	CMS	2	25M	Yes	No		40n	0	5.0	3.15	1.35	500m	4	8	74-107	DIP14a
57	M74HC107C1(A)	CMS	2	25M	Yes	No		40n	0	5.0	3.15	1.35	500m	4	8	B02-330	LC33
58♦	M74HC107F1(A)	CMS	2	25M	Yes	No		40n	0	5.0	3.15	1.35	500m	4	8	74-107	DIP14a
59♦	M74HC109B1(A)	CMS	2	25M	Yes	Yes		40n	0	5.0	3.15	1.35	500m	4	8	74LS109	DIP16a
60	M74HC109C1(A)	CMS	2	25M	Yes	Yes		40n	0	5.0	3.15	1.35	500m	4	8	B02-331	LC33
61♦	M74HC109F1(A)	CMS	2	25M	Yes	Yes		40n	0	5.0	3.15	1.35	500m	4	8	74LS109	DIP16b
62	M74LS109AP	TTL	2	25M†	Yes	Yes		40n	0	5.0	2.0	0.8	40m	2	7	74-109N	None
63♦	MB74LS109A	TTL	2	25M	Yes	Yes		40n	0	5.0	2.0	0.8	40m	2	7	74-109N	DIP16a
64♦	MB74LS109AM	TTL	2	25M	Yes	Yes		40n	0	5.0	2.0	0.8	40m	2	7	74-109N	DIP16b
65♦	MM74HC73J	CMS	2	25M	Yes	No		32n	0.5	7.0	4.2	1.2	500m	4	8	74-73N	DIP14a
66♦	MM74HC73N	CMS	2	25M	Yes	No		32n	0.5	7.0	4.2	1.2	500m	4	8	74-73N	DIP14a
67♦	N74H73F	TTL	2	25M	Yes	No		22n	0	5.0	2.0	0.8	250m†	0	7	74-73N	DIP14b
68♦	N74H73N	TTL	2	25M	Yes	No		22n	0	5.0	2.0	0.8	250m†	0	7	74-73N	DIP14a
69♦	N74H76F	TTL	2	25M	Yes	Yes		27n	0	5.0	2.0	0.8	250m	0	7	74LS76N	DIP16b
70♦	N74H76N	TTL	2	25M	Yes	Yes		27n	0	5.0	2.0	0.8	250m	0	7	74LS76N	DIP16a
71♦	N74LS109AF	TTL	2	25M	Yes	Yes		40n	0	5.0	2.0	0.8	40m	0	7	74-109N	DIP16a
72♦	N74LS109AN	TTL	2	25M	Yes	Yes		40n	0.5	7.0	2.0	0.8	40m	0	7	74-109N	DIP16a
73	N74LS109D	TTL	2	25M	Yes	Yes		40n	0.5	7.0	2.0	0.8	40m	0	7	74-109N	FP148
74♦	N74LS109N	TTL	2	25M	Yes	Yes		40n	0	5.0	2.0	0.8	40m	0	7	74-109N	DIP16a
75♦	N8821J	TTL	2	25M†				20n	0	5.0	2.6	0.4C	72m	0	7	None	TO-88
76♦	N8822A	TTL	2	25M†				20n	0	5.0	2.6	0.4C	72m	0	7	None	TO-116
77♦	N8822F	TTL	2	25M†				20n	0	5.0	2.6	0.4C		0	7	None	DIP14a
78♦	N8822J	TTL	2	25M†				20n	0	5.0	2.6	0.4C	72m	0	7	None	TO-88
79♦	N8824B	TTL	2	25M†	Yes	Yes		20n	0	5.0	2.6	0.4C	72m	0	7	None	DIP16a
80♦	N74109F	TTL	2	25M	Yes	Yes		35n	0	5.0	2.0	0.8	150m	0	7	74-109N	DIP16b
81♦	N74109N	TTL	2	25M	Yes	Yes		35n	0.5	7.0	2.0	0.8	150m	0	7	74-109N	DIP16a
82♦	S54H73F	TTL	2	25M	Yes	No		22n	0	5.0	2.0	0.8	250m	5	C	74-73N	DIP14b
83	S54H73W	TTL	2	25M	Yes	No		22n	0	5.0	2.0	0.8	250m	5	C	54-73W	FP39e
84♦	S54H76F	TTL	2	25M	Yes	Yes		27n	0	5.0	2.0	0.8	250m	5	C	74LS76N	DIP16b
85	S54H76W	TTL	2	25M	Yes	Yes		27n	0	5.0	2.0	0.8	250m	5	C	54LS76W	FP47g
86♦	S54LS109AF	TTL	2	25M	Yes	Yes		40n	0.5	7.0	2.0	0.7		5	C	74-109	DIP16b
87	S54LS109AW	TTL	2	25M	Yes	Yes		40n	0.5	7.0	2.0	0.7	40m	5	C	54-109W	FP154
88♦	S54LS109F	TTL	2	25M	Yes	Yes		40n	0	5.0	2.0	0.7	40m	5	C	74-109N	DIP16b
89	S54LS109G	TTL	2	25M	Yes	Yes		40n	0.5	7.0	2.0	0.7	40m	5	C	74-109N	LC24
90	S54LS109W	TTL	2	25M	Yes	Yes		40n	0	5.0	2.0	0.7	40m	5	C	54-109W	FP47g
91♦	S8821J	TTL	2	25M†				20n	0	5.0	2.6	0.4C	72m	5	C	None	TO-88
92♦	S8822A	TTL	2	25M†				20n	0	5.0	2.6	0.4C	72m	5	C	None	TO-116
93♦	S8822F	TTL	2	25M†				20n	0	5.0	2.6	0.4C		5	C	None	DIP14a
94♦	S8822J	TTL	2	25M†				20n	0	5.0	2.6	0.4C	72m	5	C	None	TO-88
95♦	S8824B	TTL	2	25M†	Yes	Yes		20n	0	5.0	2.6	0.4C	72m	5	C	None	DIP16a
96♦	S54109F	TTL	2	25M	Yes	Yes		35n	0.5	7.0	2.0	0.8	150m	5	C	74-109N	DIP16b
97	S54109W	TTL	2	25M	Yes	Yes		35n	0.5	7.0	2.0	0.8	150m	5	C	54-109W	FP154
98♦	SN54ALS112AJ	TTL	2	25M	Yes	Yes		24n	0	5.0	2.0	0.7	12m†	5	C	74LS112N	DIP14a
99♦	SN54ALS113AJ	TTL	2	25M	No	Yes		23n	0	5.0	2.0	0.7	12m†	5	C	74LS113N	DIP14a
100♦	SN54ALS114AJ	TTL	2	25M	Yes	Yes		31n	0	5.0	2.0	0.7	12m†	5	C	74LS114N	DIP14a
101♦	SN74HC73N(A)	CMS	2	25M	Yes	No		13n	0	5.0	3.15	0.90		4	8	74-73N	MO001AA
102♦	SN74HC76N	CMS	2	25M	Yes	Yes		36n	0	5.0	3.15	0.9		4	8	74LS76N	DIP16a
103▼	SN74HC78D(A)	CMS	2	25M	Yes	Yes		17n	0	5.0	3.15	0.90		4	8	74H78N	FP147
104♦	SN74HC78N(A)	CMS	2	25M	Yes	Yes		17n	0	5.0	3.15	0.90		4	8	74H78N	MO001AA
105▼	SN74HC107D	CMS	2	25M	Yes	No		32n	0	5.0	3.15	0.9		4	8	74LS107N	FP147
106♦	SN74HC107N	CMS	2	25M	Yes	No		32n	0	5.0	3.15	0.9		4	8	74LS107N	MO001AA
107▼	SN74HC109D	CMS	2	25M	Yes	Yes		44n	0	5.0	3.15	0.9		4	8	74-109N	FP147
108♦	SN74HC109N	CMS	2	25M	Yes	Yes		44n	0	5.0	3.15	0.9		4	8	74-109N	DIP16a
109▼	SN74HC113D	CMS	2	25M	No	Yes		35n	0	5.0	3.15	0.9		4	8	74LS113N	FP147
110♦	SN74HC113N	CMS	2	25M	No	Yes		35n	0	5.0	3.15	0.9		4	8	74LS113N	MO001AA

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - JK-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	SN54111J	TTL	2	25M	Yes	Yes		30n	0	7.0	2.0	0.8	140m	5	C	74-111N	DIP16a
2	74HC73D	CMS	2	28M	No	No		37n	0.5	7.0	3.15	1.35		4	8	74-73	FP147
3♦	74HC73N	CMS	2	28M	No	No		37n		5.0	3.15	1.35		4	8	74-73	DIP14a
4	74HC107D	CMS	2	28M	No	No		34n	0.5	7.0	3.15	1.35		4	8	74-107	FP147
5♦	74HC107N	CMS	2	28M	No	No		34n		5.0	3.15	1.35		4	8	74-107	DIP14a
6	74HC109D	CMS	2	28M	No	No		39n		5.0	3.15	1.35		4	8	74-109	FP162
7♦	74HC109N	CMS	2	28M	No	No		39n		5.0	3.15	1.35		4	8	74-109	DIP16b
8	74HC112D	CMS	2	28M	No	No		38n		5.0	3.15	1.35		4	8	74LS112	FP162
9♦	74HC112N	CMS	2	28M	No	No		38n		5.0	3.15	1.35		4	8	74LS112	DIP16b
10♦	M74HC112B1(A)	CMS	2	29M	Yes	Yes		33n	0	5.0	3.15	1.35	500m	4	8	74LS112	DIP16a
11	M74HC112C1(A)	CMS	2	29M	Yes	Yes		33n	0	5.0	3.15	1.35	500n	4	8	B02-332	LC33
12♦	M74HC112F1(A)	CMS	2	29M	Yes	Yes		33n	0	5.0	3.15	1.35	500m	4	8	74LS112	DIP16b
13♦	M74HC113B1(A)	CMS	2	29M	No	Yes		33n	0	5.0	3.15	1.35	500n	4	8	74LS113	DIP14a
14	M74HC113C1(A)	CMS	2	29M	No	Yes		33n	0	5.0	3.15	1.35	500n	4	8	B02-333	LC33
15♦	M74HC113F1(A)	CMS	2	29M	No	Yes		33n	0	5.0	3.15	1.35	500n	4	8	74LS113	DIP14a
16♦	54H73DM	TTL	2	30M†	Yes	No		19n	0	5.0	2.0	0.8	125m	5	C	74-73N	TO-116
17	54H73FM	TTL	2	30M†	Yes	No		19n	0	5.0	2.0	0.8	125m	5	C	54-73W	FP21h
18	54H76FM	TTL	2	30M†	Yes	Yes		27n	0	5.0	2.0	0.8	125m	5	C	54LS76W	FP52
19	54H78FM	TTL	2	30M†	Yes	Yes		27n	0	5.0	2.0	0.8	184m†	5	C	54H78W	FP21h
20♦	54LS76DM	TTL	2	30M	Yes	Yes		24n	0	5.0	2.0	0.7	40mQ	5	C	74LS76N	DIP16a
21	54LS76FM	TTL	2	30M	Yes	Yes		24n	0	5.0	2.0	0.7	40mQ	5	C	54LS76W	FP103
22♦	54LS78DM	TTL	2	30M	Yes	Yes		24n	0	5.0	2.0	0.7	40mQ	5	C	74L78N	TO-116
23	54LS78FM	TTL	2	30M	Yes	Yes		24n	0	5.0	2.0	0.7	40mQ	5	C	54L78T	FP21h
24♦	54LS107DM	TTL	2	30M	Yes	No			0	5.0	2.0	0.7		5	C	74LS107N	TO-116
25	54LS107FM	TTL	2	30M	Yes	No			0	5.0	2.0	0.7		5	C	54LS107W	FP21h
26♦	74H73DC	TTL	2	30M†	Yes	No		27n	0	5.0	2.0	0.8	125m	0	7	74-73N	TO-116
27♦	74H73PC	TTL	2	30M†	Yes	No		27n	0	5.0	2.0	0.8	125m	0	7	74-73N	DIP14a
28♦	74LS76DC	TTL	2	30M	Yes	Yes		24n	0	5.0	2.0	0.8	40mQ	0	7	74LS76N	DIP16a
29	74LS76PC	TTL	2	30M	Yes	Yes		24n	0	5.0	2.0	0.8	40mQ	0	7	74LS76N	None
30♦	DM54ALS109AJ	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.8		5	C	74LS109	DIP16a
31♦	DM74ALS112AJ	TTL	2	30M	Yes	Yes		19n	0	5.0	2.0	0.8		0	7	74LS112	DIP16a
32♦	DM74ALS112AN	TTL	2	30M	Yes	Yes		19n	0	5.0	2.0	0.8		0	7	74LS112	DIP16a
33♦	DM74ALS113AJ	TTL	2	30M	No	Yes		19n	0	5.0	2.0	0.8		0	7	74LS113	DIP14a
34♦	DM74ALS113AN	TTL	2	30M	No	Yes		19n	0	5.0	2.0	0.8		0	7	74LS113	DIP14a
35♦	DM74ALS114AJ	TTL	2	30M		Yes		19n	0	5.0	2.0	0.8		0	7	74LS114	DIP14a
36♦	DM74ALS114AN	TTL	2	30M		Yes		19n	0	5.0	2.0	0.8		0	7	74LS114	DIP14a
37▼	HD74LS76AG	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.8	400m	2	7	74-76N	DIP16a
38▼	HD74LS76AP	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.8	400m	2	7	74-76N	DIP16a
39▼	HD74LS78AG	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.8		2	7	74L78N	DIP14a
40▼	HD74LS78AP	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.8		2	7	74L78N	DIP14a
41♦	HD74LS112P	TTL	2	30M	Yes	Yes		30n	5.0	0	2.0	0.8	400m	2	7	74LS112N	DIP16a
42▼	HD74LS113G	TTL	2	30M†	No	Yes		30n	5.0	0	2.0	0.8	400m	2	7	74LS113N	DIP14a
43♦	HD74LS113P	TTL	2	30M	No	Yes		30n	5.0	0	2.0	0.8	400m	2	7	74LS113N	DIP14a
44▼	HD74LS114G	TTL	2	30M†	Yes	Yes		30n	5.0	0	2.0	0.8	400m	2	7	74LS114N	DIP14a
45♦	HD74LS114P	TTL	2	30M	Yes	Yes		30n	0	5.0	2.0	0.8	400m	2	7	74LS114N	DIP14a
46♦	M74ALS112AP	TTL	2	30M	Yes	Yes		19n	0	5.0	2.0	0.8	25m	2	7	74LS112N	DIP16b
47♦	MB74LS73A	TTL	2	30M	Yes	No		20n	0	5.0	2.0	0.8	30m	2	7	74-73N	DIP14a
48♦	MB74LS73AM	TTL	2	30M	Yes	No		20n	0	5.0	2.0	0.8	30m	2	7	74-73N	DIP14a
49♦	MB74LS76A	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.8	30m	2	7	74LS76N	DIP16a
50♦	MB74LS76AM	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.8	30m	2	7	74LS76N	DIP16b
51♦	MB74LS78	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.8	30m	2	7	74L78N	DIP14a
52♦	MB74LS78AM	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.8	30m	2	7	74L78N	DIP14a
53♦	MB74LS107	TTL	2	30M	Yes	No		30n	0	5.0	2.0	0.8	40m	2	7	74LS107N	DIP14a
54♦	MB74LS107A	TTL	2	30M	Yes	No		20n	0	5.0	2.0	0.8	30m	2	7	74-107N	DIP14a
55♦	MB74LS107AM	TTL	2	30M	Yes	No		20n	0	5.0	2.0	0.8	30m	2	7	74-107N	DIP14a
56♦	MB74LS107M	TTL	2	30M	Yes	No		30n	0	5.0	2.0	0.8	40m	2	7	74LS107N	DIP14a
57♦	MB74LS112A	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.8	30m	2	7	74LS112N	DIP16a
58♦	MB74LS112AM	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.8	30m	2	7	74LS112N	DIP16b
59♦	MB74LS113A	TTL	2	30M	No	Yes		20n	0	5.0	2.0	0.8	30m	2	7	74LS113N	DIP14a
60♦	MB74LS113AM	TTL	2	30M	No	Yes		20n	0	5.0	2.0	0.8	30m	2	7	74LS113N	DIP14a
61♦	MB74LS114A	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.8	30m	2	7	74LS114N	DIP14a
62♦	MB74LS114AM	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.8	30m	2	7	74LS114N	DIP14a
63♦	MB618	TTL	2	30M	Yes	Yes		17n	0	5.0	2.0	0.8	160m†	0	7	74H78N	DIP14b
64♦	MC54HC73J(A)	CMS	2	30M	Yes	No		21n	0.5	7.0	3.15	0.9	500m	5	C	74-73N	DIP14a
65♦	MC54HC76J(A)	CMS	2	30M	Yes	Yes		21n	0.5	7.0	3.15	0.9	500m	5	C	74LS76N	DIP14a
66♦	MC54HC107J(A)	CMS	2	30M	Yes	No		21n	0	6.0	3.2	2.4	500m	5	C	74LS107N	DIP14a
67♦	MC54HC109J(A)	CMS	2	30M	Yes	Yes		31n	0	5.0	3.2	1.1	500m	5	C	74-109N	DIP16 ☑
68♦	MC54HC112J(A)	CMS	2	30M	Yes	Yes		21n	0	6.00	3.2	2.4	500m	5	C	74LS112N	DIP16a
69♦	MC54HC113J	CMS	2	30M	No	Yes		21n	0.5	7.0	3.15	0.9	500m	5	C	74LS113	DIP14a
70♦	MC74HC73J(A)	CMS	2	30M	Yes	No		21n	0.5	7.0	3.15	0.9	500m	4	8	74-73N	DIP14a
71♦	MC74HC73N(A)	CMS	2	30M	Yes	No		21n	0.5	7.0	3.15	0.9	500m	4	8	74-73N	DIP14a
72♦	MC74HC76J(A)	CMS	2	30M	Yes	Yes		21n	0.5	7.0	3.15	0.9	500m	4	8	74LS76N	DIP14a
73♦	MC74HC76N(A)	CMS	2	30M	Yes	Yes		21n	0.5	7.0	3.15	0.9	500m	4	8	74LS76N	DIP14b
74♦	MC74HC107J(A)	CMS	2	30M	Yes	No		21n	0	6.00	3.2	2.4	500m	4	8	74LS107N	DIP14a
75♦	MC74HC107N(A)	CMS	2	30M	Yes	No		21n	0	6.00	3.2	2.4	500m	4	8	74LS107N	DIP14a
76♦	MC74HC109J(A)	CMS	2	30M	Yes	Yes		31n	0	5.0	3.2	1.1	500m	4	8	74-109N	DIP16 ☑
77♦	MC74HC109N(A)	CMS	2	30M	Yes	Yes		31n	0	5.0	3.2	1.1	500m	4	8	74-109N	DIP16 ☑
78♦	MC74HC112J(A)	CMS	2	30M	Yes	Yes		21n	0	6.00	3.2	2.4	500m	4	8	74LS112N	DIP16a
79♦	MC74HC112N(A)	CMS	2	30M	Yes	Yes		21n	0	6.00	3.2	2.4	500m	4	8	74LS112N	DIP16b
80♦	MC74HC113J	CMS	2	30M	No	Yes		21n	0.5	7.0	3.15	0.9	500m	4	8	74LS113	DIP14a
81♦	MC74HC113N	CMS	2	30M	No	Yes		21n	0.5	7.0	3.15	0.9	500m	4	8	74LS113	DIP14a
82♦	N74LS73F	TTL	2	30M	Yes	No		30n	0	5.0	2.0	0.8	40m	0	7	74-73N	DIP14b
83♦	N74LS73N	TTL	2	30M	Yes	No		30n	0.5	7.0	2.0	0.8	40m	0	7	74-73N	DIP14a
84♦	N74LS76F	TTL	2	30M	Yes	Yes		30n	0	5.0	2.0	0.8	40m	0	7	74LS76N	DIP16b
85♦	N74LS76N	TTL	2	30M	Yes	Yes		30n	0.5	7.0	2.0	0.8	40m	0	7	74LS76N	DIP16a
86♦	N74LS78F	TTL	2	30M	Yes	Yes		30n	0	5.0	2.0	0.8	40m	0	7	74L78N	DIP14b
87♦	N74LS78N	TTL	2	30M	Yes	Yes		30n	0	5.0	2.0	0.8	40m	0	7	74L78N	DIP14a
88	N74LS107D	TTL	2	30M	Yes	No		30n	0.5	7.0	2.0	0.8	40m	0	7	74LS107N	FP147
89♦	N74LS107F	TTL	2	30M	Yes	No		30n	0	5.0	2.0	0.8	40m	0	7	74LS107N	DIP14b
90♦	N74LS107N	TTL	2	30M	Yes	No		30n	0.5	7.0	2.0	0.8	40m	0	7	74LS107N	DIP14a
91	N74LS112D	TTL	2	30M	Yes	Yes		30n	0.5	7.0	2.0	0.8	40m	0	7	74LS112N	FP148
92♦	N74LS112F	TTL	2	30M	Yes	Yes		30n	0	5.0	2.0	0.8	40m	0	7	74LS112N	DIP16b
93♦	N74LS112N	TTL	2	30M	Yes	Yes		30n	0.5	7.0	2.0	0.8	40m	0	7	74LS112N	DIP16a
94♦	N74LS113F	TTL	2	30M	No	Yes		25n	0	5.0	2.0	0.8	40m	0	7	74LS113N	DIP14b
95♦	N74LS113N	TTL	2	30M	No	Yes		30n	0.5	7.0	2.0	0.8	40m	0	7	74LS113N	DIP14a
96♦	N74LS114F	TTL	2	30M	Yes	Yes		30n	0	5.0	2.0	0.8	40m	0	7	74LS114N	DIP14b
97♦	N74LS114N	TTL	2	30M	Yes	Yes		30n	0	5.0	2.0	0.8	40m	0	7	74LS114N	DIP14a
98♦	N8826A	TTL	2	30M†		Yes		28n	0	5.0	2.6	0.4C	62m	0	7	B02-108	TO-116
99♦	N8826F	TTL	2	30M†		Yes		28n	0	5.0	2.6	0.4C	62m	0	7	B02-108	DIP14a
100♦	N8826J	TTL	2	30M†		Yes		28n	0	5.0	2.6	0.4C	62m	0	7	B02-108	TO-88
101♦	N8827A	TTL	2	30M†				2.0n	0	5.0	2.6	0.4C	64m	0	7	B02-108a	TO-116
102♦	N8827F	TTL	2	30M†		Yes		2.0n	0	5.0	2.6	0.4C	64m	0	7	B02-108	DIP14a
103♦	N8827J	TTL	2	30M†				2.0n	0	5.0	2.6	0.4C	64m	0	7	B02-108a	TO-88
104♦	S54LS73F	TTL	2	30M	Yes	No		30n	0.5	7.0	2.0	0.7	40m	5	C	74-73N	DIP14b
105	S54LS73W	TTL	2	30M	Yes	No		30n	0.5	7.0	2.0	0.7	40m	5	C	54-73W	FP153
106♦	S54LS76F	TTL	2	30M	Yes	Yes		30n	0.5	7.0	2.0	0.7	40m	5	C	74LS76N	DIP16b
107	S54LS76W	TTL	2	30M	Yes	Yes		30n	0.5	7.0	2.0	0.7	40m	5	C	54LS76W	FP154
108♦	S54LS78F	TTL	2	30M	Yes	Yes		30n	0	5.0	2.0	0.7	40m	5	C	74L78N	DIP14b
109	S54LS78W	TTL	2	30M	Yes	Yes		30n	0	5.0	2.0	0.7	40m	5	C	54L78T	FP39e
110♦	S54LS107F	TTL	2	30M	Yes	No		30n	0.5	7.0	2.0	0.7	40m	5	C	74LS107N	DIP14b

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - JK-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING	
1	S54LS107W	TTL	2	30M	Yes	No		30n	0.5	7.0	2.0	0.7	40m	5	C	54LS107W	FP153	
2♦	S54LS112F	TTL	2	30M	Yes	Yes		30n	0.5	7.0	2.0	0.7	40m	5	C	74LS112N	DIP16b	
3	S54LS112G	TTL	2	30M	Yes	Yes		30n	0.5	7.0	2.0	0.7	40m	5	C	74LS112N	LC24	
4	S54LS112W	TTL	2	30M	Yes	Yes		30n	0.5	7.0	2.0	0.7	40m	5	C	54S112W	FP154	
5♦	S54LS113F	TTL	2	30M	No	Yes		30n	0.5	7.0	2.0	0.7	40m	5	C	74LS113N	DIP14b	
6	S54LS113W	TTL	2	30M		Yes		30n	0.5	7.0	2.0	0.7	40m	5	C	54S113W	FP153	
7♦	S54LS114F	TTL	2	30M	Yes	Yes		30n	0	5.0	2.0	0.7	40m	5	C	74LS114N	DIP14b	
8	S54LS114W	TTL	2	30M	Yes	Yes		30n	0	5.0	2.0	0.7	40m	5	C	54S114W	FP39e	
9	S54S113W	TTL	2	30M		Yes		7.0n	0	5.0	2.0	0.8	250m	5	C	54S113W	FP153	
10♦	S8826A	TTL	2	30M†		Yes		28n	0	5.0	2.6	0.4C	62m	5	C	B02-108	TO-116	
11♦	S8826F	TTL	2	30M†		Yes		28n	0	5.0	2.6	0.4C	62m	5	C	B02-108	DIP14a	
12♦	S8826J	TTL	2	30M†		Yes		28n	0	5.0	2.6	0.4C	62m	5	C	B02-108	TO-88	
13♦	S8827A	TTL	2	30M†				2.0n	0	5.0	2.6	0.4C	64m	5	C	B02-108a	TO-116	
14♦	S8827F	TTL	2	30M†		Yes		2.0n	0	5.0	2.6	0.4C	64m	5	C	B02-108	DIP14a	
15♦	S8827J	TTL	2	30M†				2.0n	0	5.0	2.6	0.4C	64m	5	C	B02-108a	TO-88	
16♦	SN54ALS109AJ	TTL	2	30M	Yes	Yes		20n	0	5.0	2.0	0.7	12m†	5	C	74LS109	DIP16a	
17▼	SN74ALS112AD	TTL	2	30M	Yes	Yes		19n	0	5.0	2.0	0.8	12m†	0	7	74LS112N	FP162	
18♦	SN74ALS112AN	TTL	2	30M	Yes	Yes		19n	0	5.0	2.0	0.8	12m†	0	7	74LS112N	DIP14a	
19▼	SN74ALS113AD	TTL	2	30M	No	Yes		19n	0	5.0	2.0	0.8	12m†	0	7	74LS113N	FP147	
20♦	SN74ALS113AN	TTL	2	30M	No	Yes		19n	0	5.0	2.0	0.8	12m†	0	7	74LS113N	DIP14a	
21▼	SN74ALS114AD	TTL	2	30M	Yes	Yes		19n	0	5.0	2.0	0.8	12m†	0	7	74LS114N	FP147	
22♦	SN74ALS114AN	TTL	2	30M	Yes	Yes		19n	0	5.0	2.0	0.8	12m†	0	7	74LS114N	DIP14a	
23♦	SN74H73N	TTL	2	30M	Yes	No		27n	0	7.0	2.0	0.8	125m	0	7	74-73N	DIP14a	
24♦	SN74H76N	TTL	2	30M	Yes	Yes		27n	0	7.0	2.0	0.8	125m	0	7	74LS76N	DIP16a	
25♦	SN74H78N	TTL	2	30M	Yes	Yes		27n	0	7.0	2.0	0.8	125m	0	7	74H78N	DIP14a	
26♦	US74HCT73N(A)	CMS	2	30M	Yes	No		31n	0	5.0	2.0	0.8	500m	4	8	74-73N	DIP14	☑
27♦	US74HCT76N(A)	CMS	2	30M	Yes	Yes		34n	0	5.0	2.0	0.8	500m	4	8	74LS76N	DIP16	☑
28♦	US74HCT107N(A)	CMS	2	30M	Yes	No		32n	0	5.0	2.0	0.8	500m	4	8	74LS107N	DIP14	☑
29♦	DM54LS109AJ	TTL	2	33M	Yes	Yes		35n	0	5.0	2.0	0.7		5	C	74-109	DIP16a	
30♦	DM74LS109AN	TTL	2	33M	Yes	Yes		35n	0	5.0	2.0	0.8		0	7	74-109	DIP16a	
31♦	DN74LS109P2	TTL	2	33M	Yes	Yes		40n	0.5	7.0	2.0	0.8	400m	2	7	74LS109	DIP16a	
32	DN74LS109P5	TTL	2	33M	Yes	Yes		40n	0.5	7.0	2.0	0.8	400m	2	7	74LS109	FP178	
33▼	HD74LS109AG	TTL	2	33M†	Yes	Yes		40n	0	5.0	2.0	0.8	400m	2	7	74-109N	DIP16a	
34♦	SN54LS109AJ	TTL	2	33M	Yes	Yes		40n	0	7.0	2.0	0.7		5	C	74-109N	DIP16a	
35▼	SN54LS109AN	TTL	2	33M	Yes	Yes		40n	0	7.0	2.0	0.7		5	C	74-109N	DIP16a	
36	SN74LS109AD	TTL	2	33M	Yes	Yes		40n	0	7.0	2.0	0.8		0	7	74-109	FP148	
37♦	SN74LS109AJ	TTL	2	33M	Yes	Yes		40n	0	7.0	2.0	0.8		0	7	74-109N	DIP16a	
38♦	SN74LS109AN	TTL	2	33M	Yes	Yes		40n	0	7.0	2.0	0.8		0	7	74-109N	DIP16a	
39♦	SN54109J	TTL	2	33M	Yes	Yes		35n	0	7.0	2.0	0.8	75m	5	C	74-109N	DIP16a	
40♦	SN74109N	TTL	2	33M	Yes	Yes		35n	0	7.0	2.0	0.8	75m	5	C	74-109N	DIP16a	
41♦	DM74ALS109AJ	TTL	2	34M	Yes	Yes		18n	0	5.0	2.0	0.8		0	7	74LS109	DIP16a	
42♦	DM74ALS109AN	TTL	2	34M	Yes	Yes		18n	0	5.0	2.0	0.8		0	7	74LS109	DIP16a	
43♦	M74ALS109AP	TTL	2	34M	Yes	Yes		18n	0	7.0	2.0	0.8		2	7	74LS109	DIP16b	
44♦	M74ALS113AP	TTL	2	34M	No	Yes		20n	0	5.0	2.0	0.8	22m	2	7	74LS113N	DIP14a	
45♦	M74ALS114AP	TTL	2	34M	Yes	Yes		20n	0	5.0	2.0	0.8	22m	2	7	74LS114N	DIP14a	
46▼	SN74ALS109AD	TTL	2	34M	Yes	Yes		18n	0	5.0	2.0	0.8	12m†	0	7	74LS109	FP162	
47♦	SN74ALS109AN	TTL	2	34M	Yes	Yes		18n	0	5.0	2.0	0.8	12m†	0	7	74LS109	DIP16a	
48▼	HD74LS112G	TTL	2	35M†	Yes	Yes		30n	5.0	0	2.0	0.8	400m	2	7	74LS112N	DIP16a	
49	RF100CJ	TTL	2	35M	No	No			0	5.0	3.4	0.2	110m†	5	C	B03-8r	FP52j	
50	RF100CK	TTL	2	35M	No	No			0	5.0	3.4	0.2	110m†	5	C	B03-8r	FP52k	
51♦	RF100DC	TTL	2	35M	No	No			0	5.0	3.4	0.2	110m†	5	C	B03-8r	DIP14e	
52	RF101CJ	TTL	2	35M	No	No			0	5.0	3.4	0.2	110m†	5	C	B03-8r	FP52j	
53	RF101CK	TTL	2	35M	No	No			0	5.0	3.4	0.2	110m†	5	C	B03-8r	FP52k	
54♦	RF101DC	TTL	2	35M	No	No			0	5.0	3.4	0.2	110m†	5	C	B03-8r	DIP14e	
55	RF102CJ	TTL	2	35M	No	No			0	5.0	3.4	0.2	110m†	0	7	B03-8r	FP52j	
56	RF102CK	TTL	2	35M	No	No			0	5.0	3.4	0.2	110m†	0	7	B03-8r	FP52k	
57♦	RF102DC	TTL	2	35M	No	No			0	5.0	3.4	0.2	110m†	0	7	B03-8r	DIP14e	
58	RF103CJ	TTL	2	35M	No	No			0	5.0	3.4	0.2	110m†	0	7	B03-8r	FP52j	
59	RF103CK	TTL	2	35M	No	No			0	5.0	3.4	0.2	110m†	0	7	B03-8r	FP52k	
60♦	RF103DC	TTL	2	35M	No	No			0	5.0	3.4	0.2	110m†	0	7	B03-8r	DIP14e	
61	RF110CJ	TTL	2	35M	No				0	5.0	3.4	0.2	110m†	5	C	B03-8s	FP52j	
62	RF110CK	TTL	2	35M	No				0	5.0	3.4	0.2	110m†	5	C	B03-8s	FP52k	
63♦	RF110DC	TTL	2	35M	No				0	5.0	3.4	0.2	110m†	5	C	B03-8s	DIP14e	
64	RF111CJ	TTL	2	35M	No				0	5.0	3.4	0.2	110m†	5	C	B03-8s	FP52j	
65	RF111CK	TTL	2	35M	No				0	5.0	3.4	0.2	110m†	5	C	B03-8s	FP52k	
66♦	RF111DC	TTL	2	35M	No				0	5.0	3.4	0.2	110m†	5	C	B03-8s	DIP14e	
67	RF112CJ	TTL	2	35M	No				0	5.0	3.4	0.2	110m†	0	7	B03-8s	FP52j	
68	RF112CK	TTL	2	35M	No				0	5.0	3.4	0.2	110m†	0	7	B03-8s	FP52k	
69♦	RF112DC	TTL	2	35M	No				0	5.0	3.4	0.2	110m†	0	7	B03-8s	DIP14e	
70	RF113CJ	TTL	2	35M	No				0	5.0	3.4	0.2	110m†	0	7	B03-8s	FP52j	
71	RF113CK	TTL	2	35M	No				0	5.0	3.4	0.2	110m†	0	7	B03-8s	FP52k	
72♦	RF113DC	TTL	2	35M	No				0	5.0	3.4	0.2	110m†	0	7	B03-8s	DIP14e	
73♦	DM8024N	TTL	2	40M	Yes	Yes		29n		5.0	2.0	0.85		0	7	74-109	DIP16a	
74♦	DM9024J	TTL	2	40M	Yes	Yes		29n		5.0	2.0	0.9		5	C	74-109	DIP16b	
75♦	DM54109J	TTL	2	40M	Yes	Yes		29n		5.0	2.0	0.8		5	C	54-109	DIP16b	
76♦	DM74109N	TTL	2	40M	Yes	Yes		29n		5.0	2.0	0.8		0	7	74-109	DIP16a	
77♦	N74H103F	TTL	2	40M	Yes	No		23n	0	5.0	2.0	0.8	380m	0	7	74H103	DIP14b	
78♦	N74H103N	TTL	2	40M	Yes	No		23n	0	5.0	2.0	0.8	380m	0	7	74H103	DIP14a	
79♦	N74H106F	TTL	2	40M	Yes	Yes		23n	0	5.0	2.0	0.8	380m	0	7	74LS76N	DIP16b	
80♦	N74H106N	TTL	2	40M	Yes	Yes		23n	0	5.0	2.0	0.8	380m	0	7	74LS76N	DIP16a	
81♦	N74H108F	TTL	2	40M	Yes	Yes		23n	0	5.0	2.0	0.8	380m	0	7	74H78N	DIP14b	
82♦	N74H108N	TTL	2	40M	Yes	Yes		23n	0	5.0	2.0	0.8	380m	0	7	74H78N	DIP14a	
83♦	S54H103F	TTL	2	40M	Yes	No		23n	0	5.0	2.0	0.8	380m	5	C	74H103	DIP14b	
84	S54H103W	TTL	2	40M		No		23n	0	5.0	2.0	0.8	380m	5	C	54H103	FP39e	
85♦	S54H106F	TTL	2	40M	Yes	Yes		23n	0	5.0	2.0	0.8	380m	5	C	74LS76N	DIP14b	
86	S54H106W	TTL	2	40M	Yes	Yes		23n	0	5.0	2.0	0.8	380m	5	C	54LS76W	FP47g	
87♦	S54H108F	TTL	2	40M	Yes	Yes		23n	0	5.0	2.0	0.8	380m	5	C	74H78N	DIP14b	
88	S54H108W	TTL	2	40M	Yes	Yes		23n	0	5.0	2.0	0.8	380m	5	C	54H78W	FP39e	
89♦	M74ALS109P	TTL	2	43M	Yes	Yes		19n	0.5	7.0	2.0	0.8	22m	2	7	74-109N	DIP16b	
90♦	54LS109DM	TTL	2	45M†	Yes	Yes		26n	0	5.0	2.0	0.7	40mQ	5	C	74-109N	TO-116	
91♦	54LS109FM	TTL	2	45M†	Yes	Yes		26n	0	5.0	2.0	0.7	40mQ	5	C	54-109W	TO-86	
92♦	54LS112DM	TTL	2	45M†	Yes	Yes		16n	0	5.0	2.0	0.7	40mQ	5	C	74LS112N	TO-116	
93♦	54LS112FM	TTL	2	45M†	Yes	Yes		16n	0	5.0	2.0	0.7	40mQ	5	C	54S112W	TO-86	
94♦	54LS113FM	TTL	2	45M†		Yes		16n	0	5.0	2.0	0.7	40mQ	5	C	54S113W	TO-86	
95♦	54LS114FM	TTL	2	45M†	Yes	Yes		16n	0	5.0	2.0	0.7	40mQ	5	C	54S114W	TO-86	
96♦	74LS109DC	TTL	2	45M†	Yes	Yes		26n	0	5.0	2.0	0.8	40mQ	0	7	74-109N	TO-116	
97♦	74LS109PC	TTL	2	45M†	Yes	Yes		26n	0	5.0	2.0	0.8	40mQ	0	7	74-109N	TO-116	
98♦	74LS112DC	TTL	2	45M†	Yes	Yes		16n	0	5.0	2.0	0.8	40mQ	0	7	74LS112N	TO-116	
99♦	74LS112PC	TTL	2	45M†	Yes	Yes		16n	0	5.0	2.0	0.8	40mQ	0	7	74LS112N	TO-116	
100♦	74LS113PC	TTL	2	45M†	No	Yes		16n	0	5.0	2.0	0.8	40mQ	0	7	74LS113N	TO-116	
101♦	74LS114PC	TTL	2	45M†	Yes	Yes		16n	0	5.0	2.0	0.8	40mQ	0	7	74LS114N	TO-116	
102♦	DM54LS73AJ	TTL	2	45M	Yes	No		28n	0	5.0	2.0	0.7		5	C	74-73	DIP14a	
103♦	DM54LS76AJ	TTL	2	45M	Yes	Yes		28n	0	5.0	2.0	0.7		5	C	74LS76	DIP16a	
104♦	DM54LS78AJ	TTL	2	45M	Yes	Yes		28n	0	5.0	2.0	0.7		5	C	74L78	DIP14a	
105♦	DM54LS107AJ	TTL	2	45M	Yes	No		28n	0	5.0	2.0	0.7		5	C	74-107	DIP14a	
106♦	DM54LS112AJ	TTL	2	45M	Yes	Yes		28n	0	5.0	2.0	0.7		5	C	74LS112	DIP16a	
107♦	DM54LS113AJ	TTL	2	45M	No	Yes		28n	0	5.0	2.0	0.7		5	C	74LS113	DIP14a	
108♦	DM54LS114AJ	TTL	2	45M		Yes		28n	0	5.0	2.0	0.7		5	C	74LS114	DIP14a	
109♦	DM74LS73AN	TTL	2	45M	Yes	No		28n	0	5.0	2.0	0.8		0	7	74-73	DIP14a	
110♦	DM74LS76AN	TTL	2	45M	Yes	Yes		28n	0	5.0	2.0	0.8		0	7	74LS76	DIP16a	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - JK-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	DM74LS78AN	TTL	2	45M	Yes	Yes		28n	0	5.0	2.0	0.8		0	7	74L78	DIP14a
2♦	DM74LS107AN	TTL	2	45M	Yes	No		28n	0	5.0	2.0	0.8		0	7	74-107	DIP14a
3♦	DM74LS112AN	TTL	2	45M	Yes	Yes		28n	0	5.0	2.0	0.8		0	7	74LS112	DIP16a
4♦	DM74LS113AN	TTL	2	45M	No	Yes		28n	0	5.0	2.0	0.8		0	7	74LS113	DIP14a
5♦	DM74LS114AN	TTL	2	45M		Yes		28n	0	5.0	2.0	0.8		0	7	74LS114	DIP14a
6♦	DN74LS73P1	TTL	2	45M	Yes	No		30n	0.5	7.0	2.0	0.8	400m	2	7	74-73	DIP14a
7	DN74LS73P4	TTL	2	45M	Yes	No		30n	0.5	7.0	2.0	0.8	400m	2	7	74-73	FP177
8♦	DN74LS76P2	TTL	2	45M	Yes	Yes		30n	0.5	7.0	2.0	0.8	400m	2	7	74LS76	DIP16a
9	DN74LS76P5	TTL	2	45M	Yes	Yes		30n	0.5	7.0	2.0	0.8	400m	2	7	74LS76	FP178
10♦	DN74LS78P1	TTL	2	45M	Yes	Yes		30n	0.5	7.0	2.0	0.8	400m	2	7	74L78	DIP14a
11	DN74LS78P4	TTL	2	45M	Yes	Yes		30n	0.5	7.0	2.0	0.8	400m	2	7	74L78	FP177
12♦	DN74LS107P1	TTL	2	45M	Yes	No		30n	0.5	7.0	2.0	0.8	400m	2	7	74-107	DIP14a
13	DN74LS107P4	TTL	2	45M	Yes	No		30n	0.5	7.0	2.0	0.8	400m	2	7	74-107	FP177
14♦	DN74LS112P2	TTL	2	45M	Yes	Yes		30n	0.5	7.0	2.0	0.8	400m	2	7	74LS112	DIP16a
15	DN74LS112P5	TTL	2	45M	Yes	Yes		30n	0.5	7.0	2.0	0.8	400m	2	7	74LS112	FP178
16♦	DN74LS113P1	TTL	2	45M	No	Yes		30n	0.5	7.0	2.0	0.8	400m	2	7	74LS113	DIP14a
17	DN74LS113P4	TTL	2	45M	No	Yes		30n	0.5	7.0	2.0	0.8	400m	2	7	74LS113	FP177
18♦	DN74LS114P1	TTL	2	45M		Yes		30n	0.5	7.0	2.0	0.8	400m	2	7	74LS114	DIP14a
19	DN74LS114P4	TTL	2	45M		Yes		30n	0.5	7.0	2.0	0.8	400m	2	7	74LS114	FP177
20♦	HD74LS107A	TTL	2	45M	Yes	No		20n	0	5.0	2.0	0.8		2	7	74-107N	DIP14a
21♦	M74LS73AP	TTL	2	45M	Yes	No		20n	0.5	7.0	2.0	0.8	20m†	2	7	74-73N	DIP14a
22♦	M74LS76AP	TTL	2	45M	Yes	Yes		20n	0.5	7.0	2.0	0.8	20m†	2	7	74LS76N	DIP14a
23♦	M74LS107AP	TTL	2	45M	Yes	No		20n	0.5	7.0	2.0	0.8	20m†	2	7	74LS107N	DIP14a
24♦	M74LS112AP	TTL	2	45M	Yes	Yes		20n	0.5	7.0	2.0	0.8	20m†	2	7	74LS112N	DIP14a
25♦	M74LS113AP	TTL	2	45M	No	Yes		20n	0.5	7.0	2.0	0.8	20m†	2	7	74LS113N	DIP14a
26♦	M74LS114AP	TTL	2	45M	Yes	Yes		20n	0.5	7.0	2.0	0.8	20m†	2	7	74LS114N	DIP14a
27♦	SN54LS73AJ	TTL	2	45M	Yes	No		20n	0	5.5	2.0	0.7		5	C	74-73N	DIP14a
28▼	SN54LS73AN	TTL	2	45M	Yes	No		20n	0	5.5	2.0	0.7		5	C	74-73N	DIP14a
29♦	SN54LS76AJ	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.7		5	C	74LS76N	DIP16a
30▼	SN54LS76AN	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.7		5	C	74LS76N	DIP16a
31♦	SN54LS78AJ	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.7		5	C	74L78N	DIP14a
32▼	SN54LS78AN	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.7		5	C	74L78N	DIP14a
33♦	SN54LS107AJ	TTL	2	45M	Yes	No		20n	0	7.0	2.0	0.7		5	C	74-107N	DIP14a
34▼	SN54LS107AN	TTL	2	45M	Yes	No		20n	0	7.0	2.0	0.7		5	C	74-107N	DIP14a
35♦	SN54LS112AJ	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.7		5	C	74LS112N	DIP16a
36▼	SN54LS112AN	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.7		5	C	74LS112N	DIP16a
37♦	SN54LS113AJ	TTL	2	45M	No	Yes		20n	0	7.0	2.0	0.7		5	C	74LS113N	DIP14a
38▼	SN54LS113AN	TTL	2	45M	No	Yes		20n	0	7.0	2.0	0.7		5	C	74LS113N	DIP14a
39♦	SN54LS114AJ	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.7		5	C	74LS114N	DIP14a
40▼	SN54LS114AN	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.7		5	C	74LS114N	DIP14a
41	SN74LS73AD	TTL	2	45M	Yes	No		20n	0	7.0	2.0	0.8		0	7	74-73	FP147
42♦	SN74LS73AJ	TTL	2	45M	Yes	No		20n	0	7.0	2.0	0.8		0	7	74-73N	DIP14a
43♦	SN74LS73AN	TTL	2	45M	Yes	No		20n	0	7.0	2.0	0.8		0	7	74-73N	DIP14a
44	SN74LS76AD	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.8		0	7	74LS76	FP148
45♦	SN74LS76AJ	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.8		0	7	74LS76N	DIP16a
46♦	SN74LS76AN	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.8		0	7	74LS76N	DIP16a
47	SN74LS78AD	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.8		0	7	74L78	FP147
48♦	SN74LS78AJ	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.8		0	7	74L78N	DIP14a
49♦	SN74LS78AN	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.8		0	7	74L78N	DIP14a
50	SN74LS107AD	TTL	2	45M	Yes	No		20n	0	7.0	2.0	0.8		0	7	74-107	FP147
51♦	SN74LS107AJ	TTL	2	45M				20n	0	7.0	2.0	0.8		0	7	74-107N	DIP14a
52♦	SN74LS107AN	TTL	2	45M				20n	0	7.0	2.0	0.8		0	7	74-107N	DIP14a
53	SN74LS112AD	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.8		0	7	74LS112	FP148
54♦	SN74LS112AJ	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.8		0	7	74LS112N	DIP16a
55♦	SN74LS112AN	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.8		0	7	74LS112N	DIP16a
56	SN74LS113AD	TTL	2	45M	No	Yes		20n	0	7.0	2.0	0.8		0	7	74LS113	FP147
57♦	SN74LS113AJ	TTL	2	45M	No	Yes		20n	0	7.0	2.0	0.8		0	7	74LS113N	DIP14a
58♦	SN74LS113AN	TTL	2	45M	No	Yes		20n	0	7.0	2.0	0.8		0	7	74LS113N	DIP14a
59	SN74LS114AD	TTL	2	45M		Yes		20n	0	7.0	2.0	0.8		0	7	74LS114	FP147
60♦	SN74LS114AJ	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.8		0	7	74LS114N	DIP14a
61♦	SN74LS114AN	TTL	2	45M	Yes	Yes		20n	0	7.0	2.0	0.8		0	7	74LS114N	DIP14a
62♦	T54LS113D2	TTL	2	45M†	No	Yes		16n	0	5.0	2.0	0.7	20m†	5	C	74LS113N	DIP14b
63♦	T54LS114D2	TTL	2	45M†	Yes	Yes		16n	0	5.0	2.0	0.7	20m†	5	C	74LS114N	DIP14b
64♦	T74LS113B1	TTL	2	45M†	No	Yes		16n	0	5.0	2.0	0.8	20m†	0	7	74LS113N	DIP14a
65♦	T74LS113D1	TTL	2	45M†	No	Yes		16n	0	5.0	2.0	0.8	20m†	0	7	74LS113N	DIP14b
66♦	T74LS114B1	TTL	2	45M†	Yes	Yes		16n	0	5.0	2.0	0.8	20m†	0	7	74LS114N	DIP14a
67♦	T74LS114D1	TTL	2	45M†	Yes	Yes		16n	0	5.0	2.0	0.8	20m†	0	7	74LS114N	DIP14b
68♦	UPD74HC109C(A)	CMS	2	45M	Yes	Yes		32n	0	6.0	4.2	1.2	500m	4	8	74LS109	DIP16a
69♦	UPD74HC112C(A)	CMS	2	45M	Yes	Yes		30n	0	6.0	4.2	1.2	500m	4	8	74LS112	DIP16a
70♦	54H103DM	TTL	2	50M†	Yes	No		35n	0	5.0	2.0	0.8	200m†	5	C	74H103	TO-116
71	54H103FM	TTL	2	50M†		No		35n	0	5.0	2.0	0.8	200m†	5	C	54H103	FP21h
72♦	54H106DM	TTL	2	50M†	Yes	Yes		35n	0	5.0	2.0	0.8	200m†	5	C	74LS76N	DIP16a
73	54H106FM	TTL	2	50M†	Yes	Yes		35n	0	5.0	2.0	0.8	200m†	5	C	54LS76W	FP52
74♦	54H108DM	TTL	2	50M†	Yes	Yes		35n	0	5.0	2.0	0.8	200m†	5	C	74H78N	TO-116
75	54H108FM	TTL	2	50M†	Yes	Yes		35n	0	5.0	2.0	0.8	200m†	5	C	54H78W	FP21h
76♦	74H103DC	TTL	2	50M†	Yes	No		35n	0	5.0	2.0	0.8	200m†	0	7	74H103	TO-116
77♦	74H103PC	TTL	2	50M†	Yes	No		35n	0	5.0	2.0	0.8	200m†	0	7	74H103	DIP14a
78♦	74H106DC	TTL	2	50M†	Yes	Yes		35n	0	5.0	2.0	0.8	200m†	0	7	74LS76N	DIP16a
79	74H106PC	TTL	2	50M†	Yes	Yes		35n	0	5.0	2.0	0.8	200m†	0	7	74LS76N	None
80♦	74H108DC	TTL	2	50M†	Yes	Yes		35n	0	5.0	2.0	0.8	200m†	0	7	74H78N	TO-116
81♦	74H108PC	TTL	2	50M†	Yes	Yes		35n	0	5.0	2.0	0.8	200m†	0	7	74H78N	DIP14a
82♦	9020DC	TTL	2	50M†	Yes	Yes		12n	0	5.0	1.8	.85		0	7	9-020D	DIP16a
83♦	9020DM	TTL	2	50M†	Yes	Yes		12n	0	5.0	1.7	.90		5	C	9-020D	DIP16a
84	9020FM	TTL	2	50M†	Yes	Yes		12n	0	5.0	1.7	.90		5	C	9-020D	FP47a
85♦	9022DC	TTL	2	50M†	Yes	Yes		12n	0	5.0	1.8	.85		0	7	9-022D	DIP16a
86♦	9022DM	TTL	2	50M†	Yes	Yes		12n	0	5.0	1.7	.90		5	C	9-022D	DIP16a
87	9022FM	TTL	2	50M†	Yes	Yes		12n	0	5.0	1.7	.90		5	C	9-022D	FP47a
88♦	M54HC107F1(A)	CMS	2	50M	Yes	No		33n	0	5.0	3.15	1.35	500m	5	C	74-107	DIP14a
89▼	MC3061L	TTL	2	50M†				12n	0	5.0	2.5	0.4C	100m†	0	7	74H119P	TO-116
90▼	MC3061P	TTL	2	50M†				12n	0	5.0	2.5	0.4C	100m†	0	7	74H119P	DIP14a
91▼	MC3062L	TTL	2	50M†	No	Yes		12n	0	5.0	2.5	0.4C	100m†	0	7	74LS113N	TO-116
92▼	MC3062P	TTL	2	50M†	No	Yes		12n	0	5.0	2.5	0.4C	100m†	0	7	74LS113N	DIP14a
93♦	MC3161F	TTL	2	50M†				12n	0	5.0	2.4	0.4C	100m	5	C	74H119P	TO-86
94♦	MC3161L	TTL	2	50M†				12n	0	5.0	2.4	0.4C	100m†	5	C	74H119P	TO-116
95♦	MC3162F	TTL	2	50M†		Yes		12n	0	5.0	2.4	0.4C	100m	5	C	54S113W	TO-86
96♦	MC3162L	TTL	2	50M†	No	Yes		12n	0	5.0	2.4	0.4C	100m†	5	C	74LS113N	TO-116
97♦	PC54HCT112D(A)	CMS	2	50M	Yes	Yes		19n	0	5.0	2.0	0.8	500m	5	C	74LS112	DIP16b
98♦	PC74HCT112D(A)	CMS	2	50M	Yes	Yes		19n	0	5.0	2.0	0.8	500m	4	8	74LS112	DIP16b
99	RF120CJ	TTL	2	50M	No	No			0	5.0	3.4	0.2	110m†	5	C	B03-8r	FP52j
100	RF120CK	TTL	2	50M	No	No			0	5.0	3.4	0.2	110m†	5	C	B03-8r	FP52k
101♦	RF120DC	TTL	2	50M	No	No			0	5.0	3.4	0.2	110m†	5	C	B03-8r	DIP14e
102	RF121CJ	TTL	2	50M	No	No			0	5.0	3.4	0.2	110m†	5	C	B03-8r	FP52j
103	RF121CK	TTL	2	50M	No	No			0	5.0	3.4	0.2	110m†	5	C	B03-8r	FP52k
104♦	RF121DC	TTL	2	50M	No	No			0	5.0	3.4	0.2	110m†	5	C	B03-8r	DIP14e
105	RF122CJ	TTL	2	50M	No	No			0	5.0	3.4	0.2	110m†	0	7	B03-8r	FP52j
106	RF122CK	TTL	2	50M	No	No			0	5.0	3.4	0.2	110m†	0	7	B03-8r	FP52k
107♦	RF122DC	TTL	2	50M	No	No			0	5.0	3.4	0.2	110m†	0	7	B03-8r	DIP14e
108	RF123CJ	TTL	2	50M	No	No			0	5.0	3.4	0.2	110m†	0	7	B03-8r	FP52j
109	RF123CK	TTL	2	50M	No	No			0	5.0	3.4	0.2	110m†	0	7	B03-8r	FP52k
110♦	RF123DC	TTL	2	50M	No	No			0	5.0	3.4	0.2	110m†	0	7	B03-8r	DIP14e

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. FLIP-FLOPS - JK-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING	
1	RF130CJ	TTL	2	50M	No				0	5.0	3.4	0.2	110m†	5	C	B03-8s	FP52j	
2	RF130CK	TTL	2	50M	No				0	5.0	3.4	0.2	110m†	5	C	B03-8s	FP52k	
3♦	RF130DC	TTL	2	50M	No				0	5.0	3.4	0.2	110m†	5	C	B03-8s	DIP14e	
4	RF131CJ	TTL	2	50M	No				0	5.0	3.4	0.2	110m†	5	C	B03-8s	FP52j	
5	RF131CK	TTL	2	50M	No				0	5.0	3.4	0.2	110m†	5	C	B03-8s	FP52k	
6♦	RF131DC	TTL	2	50M	No				0	5.0	3.4	0.2	110m†	5	C	B03-8s	DIP14e	
7	RF132CJ	TTL	2	50M	No				0	5.0	3.4	0.2	110m†	0	7	B03-8s	FP52j	
8	RF132CK	TTL	2	50M	No				0	5.0	3.4	0.2	110m†	0	7	B03-8s	FP52k	
9♦	RF132DC	TTL	2	50M	No				0	5.0	3.4	0.2	110m†	0	7	B03-8s	DIP14e	
10	RF133CJ	TTL	2	50M	No				0	5.0	3.4	0.2	110m†	0	7	B03-8s	FP52j	
11	RF133CK	TTL	2	50M	No				0	5.0	3.4	0.2	110m†	0	7	B03-8s	FP52k	
12♦	RF133DC	TTL	2	50M	No				0	5.0	3.4	0.2	110m†	0	7	B03-8s	DIP14e	
13♦	UPD74HC107C(A)	CMS	2	50M	Yes	Yes		24n	0	6.0	4.2	1.2	500m	4	8	74-107N	DIP16a	
14▼	TC74HC107F(A)	CMS	2	52M†	Yes	No		41n	0	5.0	3.15	1.35	180m	4	8	74LS107N	FP166	
15▼	TC74HC107P(A)	CMS	2	52M†	Yes	No		41n	0	5.0	3.15	1.35	500m	4	8	74LS107N	DIP14a	
16▼	TC74HC73F(A)	CMS	2	55M†	Yes	No		38n	0	5.0	3.15	1.35	180m	4	8	74-73N	FP166	
17▼	TC74HC73P(A)	CMS	2	55M†	Yes	No		38n	0	5.0	3.15	1.35	500m	4	8	74-73N	DIP14a	
18♦	M54HC76F1(A)	CMS	2	57M	Yes	Yes		38n	0	5.0	3.15	1.35	500m	5	C	74LS76	DIP16b	
19♦	M54HC109F1(A)	CMS	2	57M	Yes	Yes		33n	0	5.0	3.15	1.35	500m	5	C	74LS109	DIP16b	
20♦	M54HC113F1(A)	CMS	2	58M	No	Yes		27n	0	5.0	3.15	1.35	500n	5	C	74LS113	DIP14a	
21▼	TC74HC112F(A)	CMS	2	58M†	Yes	Yes		38n	0	5.0	3.15	1.35	180m	4	8	74LS112N	FP167	
22▼	TC74HC112P(A)	CMS	2	58M†	Yes	Yes		38n	0	5.0	3.15	1.35	500m	4	8	74LS112N	DIP16a	
23♦	M54HC112F1(A)	CMS	2	59M	Yes	Yes		27n	0	5.0	3.15	1.35	500m	5	C	74LS112	DIP16b	
24♦	CD54HC73F	CMS	2	60M	Yes	No		41n	0.5	7.0	3.85	1.10	500m	5	C	74-73N	MO001AB	
25♦	CD54HC107F	CMS	2	60M		No		51n	0	5.0	3.15	1.35	500m	5	C	74-107N	MO001AB	
26	CD54HC109F	CMS	2	60M	Yes	Yes		35n	0	5.0	3.15	1.35	500m	5	C	74-109	MS001a	
27♦	CD54HC112F	CMS	2	60M†	No	No		53n		5.0	3.15	1.35	500m	5	C	74LS112N	MO001AC	
28♦	CD54HCT73F	CMS	2	60M	Yes	No		41n	0.5	7.0	2.0	0.80	500m	5	C	74-73N	MO001AB	
29♦	CD54HCT107F	CMS	2	60M		No		65n	0	5.0	2.0	0.80	500m	5	C	74-107N	MS001AB	
30	CD54HCT109F	CMS	2	60M	Yes	Yes		40n	0	5.0	2.0	0.8	500m	5	C	74-109	MS001a	
31♦	CD54HCT112F	CMS	2	60M	No	No		53n		5.0	2.0	0.8	500m	5	C	74LS112N	MO001AC	
32♦	CD74HC73E	CMS	2	60M	Yes	No		34n	0.5	7.0	3.85	1.10	500m	4	8	74-73N	MO001AB	
33♦	CD74HC73M(A)	CMS	2	60M	Yes	No		34n	0.5	7.0	3.15	1.35	400m	4	8	74-73N	FP147	
34♦	CD74HC107E	CMS	2	60M		No		43n	0	5.0	2.0	0.8	500m	4	8	74-107N	MS001c	
35♦	CD74HC107M	CMS	2	60M		No		43n	0	5.0	3.15	1.35	300m	4	8	54-107	MS012b	
36	CD74HC109E	CMS	2	60M	Yes	Yes		35n	0	5.0	3.15	1.35	500m	4	8	74-109	MS001a	
37♦	CD74HC112E	CMS	2	60M	No	No		44n		5.0	3.15	1.35	500m	4	8	74LS112N	MS001a	
38♦	CD74HC112M	CMS	2	60M	No	No		44n		5.0	3.15	1.35	400m	4	8	74LS112N	MS012c	
39♦	CD74HCT73E	CMS	2	60M	Yes	No		34n	0.5	7.0	2.0	0.80	500m	4	8	74-73N	MO001AB	
40♦	CD74HCT73M(A)	CMS	2	60M	Yes	No		34n	0.5	7.0	2.0	0.8	400m	4	8	74-73N	FP147	
41♦	CD74HCT107E	CMS	2	60M		No		54n	0	5.0	2.0	0.80	500m	4	8	74-107N	MS001c	
42♦	CD74HCT107M	CMS	2	60M		No		54n	0	5.0	2.0	0.8	300m	4	8	54-107	MS012b	
43	CD74HCT109E	CMS	2	60M	Yes	Yes		40n	0	5.0	2.0	0.8	500m	4	8	74-109	MS001a	
44	CD74HCT109M	CMS	2	60M	Yes	Yes		35n	0	5.0	3.15	1.35	300m	4	8	54-109	FP148	
45♦	CD74HCT112E	CMS	2	60M	No	No		44n		5.0	2.0	0.8	500m	4	8	74LS112N	MS001a	
46♦	CD74HCT112M	CMS	2	60M	No	No		44n		5.0	2.0	0.8	400m	4	8	74LS112N	MS012c	
47♦	PC54HC112D(A)	CMS	2	60M	Yes	Yes		17n	0	5.0	3.15	0.9	500m	5	C	74LS112	DIP16b	
48♦	PC74HC112D(A)	CMS	2	60M	Yes	Yes		17n	0	5.0	3.15	0.9	500m	4	8	74LS112	DIP16b	
49▼	TC74HC76F	CMS	2	60M†	Yes	Yes		36n	0	5.0	3.15	1.35	180m	4	8	74LS76N	FP167	
50♦	TC74HC76P	CMS	2	60M†	Yes	Yes		30n	0	5.0	3.15	1.35	500m	4	8	74LS76N	DIP16a	
51▼	TC74HC109F	CMS	2	60M†	Yes	Yes		41n	0	5.0	3.15	1.35	180m	4	8	74-109N	FP167	
52♦	TC74HC109P	CMS	2	60M†	Yes	Yes		41n	0	5.0	3.15	1.35	500m	4	8	74-109N	DIP16a	
53▼	TC74HC113F(A)	CMS	2	63M†	No	Yes		34n	0	5.0	3.15	1.35	180m	4	8	74LS113N	FP166	
54▼	TC74HC113P(A)	CMS	2	63M†	No	Yes		34n	0	5.0	3.15	1.35	500m	4	8	74LS113N	DIP14a	
55♦	M54HC73F1(A)	CMS	2	65M	Yes	No		39n	0	5.0	3.15	1.35	500m	5	C	74-73	DIP14a	
56♦	54AC109DM(A)	CMS	2	75M	Yes	Yes		8.5n	0	5.0	2.0	0.8		5	C	74-109N	DIP16b	
57♦	54AC109SM(A)	CMS	2	75M	Yes	Yes		8.5n	0	5.0	2.0	0.8		5	C	74-109N	FP148	
58♦	54ACT109DM(A)	CMS	2	75M	Yes	Yes		8.5n	0	5.0	2.0	0.8		5	C	74-109N	DIP16b	
59♦	54ACT109SM(A)	CMS	2	75M	Yes	Yes		8.5n	0	5.0	2.0	0.8		5	C	74-109N	FP148	
60♦	54S109DM	TTL	2	75M	Yes	Yes		12n	0	5.0	2.0	0.8	260mQ	5	C	74-109N	DIP16a	
61	54S109FM	TTL	2	75M	Yes	Yes		26n	0	5.0	2.0	0.8	40mQ	5	C	54-109W	FP	☑
62♦	74AC109DC(A)	CMS	2	75M	Yes	Yes		8.5n	0	5.0	2.0	0.8		4	8	74-109N	DIP16b	
63♦	74AC109PC(A)	CMS	2	75M	Yes	Yes		8.5n	0	5.0	2.0	0.8		4	8	74-109N	DIP16b	
64♦	74AC109SC(A)	CMS	2	75M	Yes	Yes		8.5n	0	5.0	2.0	0.8		4	8	74-109N	FP148	
65♦	74ACT109DC(A)	CMS	2	75M	Yes	Yes		8.5n	0	5.0	2.0	0.8		4	8	74-109N	DIP16b	
66♦	74ACT109PC(A)	CMS	2	75M	Yes	Yes		8.5n	0	5.0	2.0	0.8		4	8	74-109N	DIP16b	
67♦	74ACT109SC(A)	CMS	2	75M	Yes	Yes		8.5n	0	5.0	2.0	0.8		4	8	74-109N	FP148	
68♦	74S109DC	TTL	2	75M	Yes	Yes		12n	0	5.0	2.0	0.8	260mQ	0	7	74-109N	DIP16a	
69	74S109PC	TTL	2	75M	Yes	Yes		12n	0	5.0	2.0	0.8	260mQ	0	7	74-109N	None	
70♦	N8H20Q	TTL	2	80M†	Yes	Yes		9.0n	0	5.0	2.6	0.4C	90m	0	7	B02-92b	TO-88	
71♦	N8H21A	TTL	2	80M†	Yes	Yes		9.0n	0	5.0	2.6	0.4C	90m	0	7	B02-92c	TO-116	
72♦	N8H21F	TTL	2	80M†	Yes	Yes		9.0n	0	5.0	2.6	0.4C	90m	0	7	B02-92c	DIP14a	
73♦	N8H21Q	TTL	2	80M†	Yes	Yes		9.0n	0	5.0	2.6	0.4C	90m	0	7	B02-92c	TO-88	
74♦	N8H22B	TTL	2	80M†				9.0n	0	5.0	2.6	0.4C	90m	0	7	B02-92d	DIP16a	
75♦	N8H22E	TTL	2	80M†				9.0n	0	5.0	2.6	0.4C	90m	0	7	B02-92d	DIP16a	
76♦	N74S112D	TTL	2	80M	Yes	Yes		7.0n	0.5	7.0	2.0	0.8	250m	0	7	74LS112N	DIP16b	
77♦	N74S112N	TTL	2	80M	Yes	Yes		7.0n	0.5	7.0	2.0	0.8	250m	0	7	74LS112N	DIP16a	
78♦	N74S113F	TTL	2	80M	No	Yes		7.0n	0	5.0	2.0	0.8	250m	0	7	74LS113N	DIP14b	
79♦	N74S113N	TTL	2	80M	No	Yes		7.0n	0.5	7.0	2.0	0.8	250m	0	7	74LS113N	DIP14a	
80♦	N74S114F	TTL	2	80M	Yes	Yes		7.0n	0	5.0	2.0	0.8	250m	0	7	74LS114N	DIP14b	
81♦	N74S114N	TTL	2	80M	Yes	Yes		7.0n	0	5.0	2.0	0.8	250m	0	7	74LS114N	DIP14a	
82♦	S8H20Q	TTL	2	80M†	Yes	Yes		90n	0	5.0	2.6	0.4C	90m	5	C	B02-92b	TO-88	
83♦	S8H21A	TTL	2	80M†	Yes	Yes		9.0n	0	5.0	2.6	0.4C	90m	5	C	B02-92c	TO-116	
84♦	S8H21F	TTL	2	80M†	Yes	Yes		90n	0	5.0	2.6	0.4C	90m	5	C	B02-92c	DIP14a	
85♦	S8H21Q	TTL	2	80M†	Yes	Yes		90n	0	5.0	2.6	0.4C	90m	5	C	B02-92c	TO-88	
86♦	S8H22B	TTL	2	80M†				9.0n	0	5.0	2.6	0.4C	90m	5	C	B02-92d	DIP16a	
87♦	S8H22E	TTL	2	80M†				90n	0	5.0	2.6	0.4C	90m	5	C	B02-92d	DIP16a	
88♦	S54F109F	TTL	2	80M	Yes	Yes		12n	0	5.0	2.0	0.8		5	C	74-109N	DIP16b	
89	S54F109G	TTL	2	80M	Yes	Yes		12n	0	5.0	2.0	0.8		5	C	74-109N	LC24	
90	S54F109W	TTL	2	80M	Yes	Yes		11n	0	5.0	2.0	0.8		5	C	54-109W	FP	☑
91♦	S54S112F	TTL	2	80M	Yes	Yes		7.0n	0.5	7.0	2.0	0.8	250m	5	C	74LS112N	DIP16b	
92	S54S112W	TTL	2	80M	Yes	Yes		7.0n	0.5	7.0	2.0	0.8	250m	5	C	54S112W	FP154	
93♦	S54S113F	TTL	2	80M	No	Yes		7.0n	0.5	7.0	2.0	0.8	250m	5	C	74LS113N	DIP14b	
94♦	S54S114F	TTL	2	80M	Yes	Yes		7.0n	0	5.0	2.0	0.8	250m	5	C	74LS114N	DIP14b	
95	S54S114W	TTL	2	80M	Yes	Yes		7.0n	0	5.0	2.0	0.8	250m	5	C	54S114W	FP39e	
96♦	DM54AS109J(A)	TTL	2	90M	Yes	Yes		10n	0	5.0	2.0	0.8		5	C	74LS109	DIP16a	
97♦	SN54AS109J	TTL	2	90M	Yes	Yes		11n	0	5.0	2.0	0.8	58m†	5	C	74-109N	DIP14a	
98♦	N74F114N(A)	TTL	2	100M†	Yes	Yes		8.5n	0	5.0	2.0	0.8		0	7	74LS114	DIP14a	
99♦	DM74AS109J(A)	TTL	2	105M	Yes	Yes		9.0n	0	5.0	2.0	0.8		0	7	74LS109	DIP16a	
100♦	DM74AS109N(A)	TTL	2	105M	Yes	Yes		9.0n	0	5.0	2.0	0.8		0	7	74LS109	DIP16a	
101▼	SN74AS109D	TTL	2	105M	Yes	Yes		9n	0	5.0	2.0	0.8	58m†	0	7	74-109N	FP162	
102♦	SN74AS109N	TTL	2	105M	Yes	Yes		9n	0	5.0	2.0	0.8	58m†	0	7	74-109N	DIP14a	
103♦	MC54F114J	TTL	2	120M	Yes	Yes		7.5n	0	5.5	2.0	0.8		5	C	74LS114N	DIP14a	
104▼	MC54F114N	TTL	2	120M	Yes	Yes		7.5n	0	5.5	2.0	0.8		5	C	74LS114N	DIP14a	
105♦	MC74F114J	TTL	2	120M	Yes	Yes		7.5n	0	5.25	2.0	0.8		0	7	74LS114N	DIP14a	
106♦	MC74F114N	TTL	2	120M	Yes	Yes		7.5n	0	5.25	2.0	0.8		0	7	74LS114N	DIP14a	
107♦	54F109DM	TTL	2	125M†	Yes	Yes		7.0n	0	5.0	2.0	0.8		5	C	74-109N	DIP16b	
108	54F109FM	TTL	2	125M†	Yes	Yes		7.0n	0	5.0	2.0	0.8		5	C	54-109W	FP117	
109	54F109L1M	TTL	2	125M	Yes	Yes		7.0n	0	5.0	2.0	0.8		5	C	B02-331	LC19	
110♦	54F113DM	TTL	2	125M	No	Yes		4.5n	0	5.0	2.0	0.8		5	C	74LS113	DIP14b	

4. FLIP-FLOPS - JK-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1	54F113L1M	TTL	2	125M	No	Yes		4.5n	0	5.0	2.0	0.8		5	C	B02-333	LC19
2♦	54F114DM	TTL	2	125M		Yes		5.5n	0	5.0	2.0	0.8		5	C	74LS114	DIP14b
3	54F114L1M	TTL	2	125M	Yes	Yes		5.5n	0	5.0	2.0	0.8		5	C	B02-334	LC19
4♦	54S112DM	TTL	2	125M†	Yes	Yes		5.0n	0	5.0	2.0	0.8	250m†	5	C	74LS112N	DIP16a
5	54S112FM	TTL	2	125M†	Yes	Yes		5.0n	0	5.0	2.0	0.8	250m†	5	C	54S112W	FP103
6	54S113FM	TTL	2	125M†		Yes		5.0n	0	5.0	2.0	0.8	250m†	5	C	54S113W	FP21h
7	54S114FM	TTL	2	125M†	Yes	Yes		5.0n	0	5.0	2.0	0.8	250m†	5	C	54S114W	FP21h
8♦	74F109DC	TTL	2	125M†	Yes	Yes		7.0n	0	5.0	2.0	0.8		0	7	74-109N	DIP16b
9	74F109L1C	TTL	2	125M	Yes	Yes		7.0n	0	5.0	2.0	0.8		0	7	B02-331	LC19
10♦	74F109PC	TTL	2	125M†	Yes	Yes		7.0n	0	5.0	2.0	0.8		0	7	74-109N	DIP16a
11	74F109QC	TTL	2	125M	Yes	Yes		7.0n	0	5.0	2.0	0.8		0	7	B02-331	LC26
12	74F109SC	TTL	2	125M	Yes	Yes		7.0n	0	5.0	2.0	0.8		0	7	54-109	FP148
13♦	74F113DC	TTL	2	125M	No	Yes		4.5n	0	5.0	2.0	0.8		0	7	74LS113	DIP14b
14	74F113L1C	TTL	2	125M	No	Yes		4.5n	0	5.0	2.0	0.8		0	7	B02-333	LC19
15♦	74F113PC	TTL	2	125M	No	Yes		4.5n	0	5.0	2.0	0.8		0	7	74LS113	DIP14a
16	74F113QC	TTL	2	125M	No	Yes		4.5n	0	5.0	2.0	0.8		0	7	B02-333	LC26
17	74F113SC	TTL	2	125M				4.5n	0	5.0	2.0	0.8		0	7	54S113	FP147
18♦	74F114DC	TTL	2	125M		Yes		5.5n	0	5.0	2.0	0.8		0	7	74LS114	DIP14b
19	74F114L1C	TTL	2	125M	Yes	Yes		5.5n	0	5.0	2.0	0.8		0	7	B02-334	LC19
20♦	74F114PC	TTL	2	125M		Yes		5.5n	0	5.0	2.0	0.8		0	7	74LS114	DIP14a
21	74F114QC	TTL	2	125M	Yes	Yes		5.5n	0	5.0	2.0	0.8		0	7	B02-334	LC26
22	74F114SC	TTL	2	125M	Yes	Yes		5.5n	0	5.0	2.0	0.8		0	7	54S114	FP147
23♦	74S112DC	TTL	2	125M†	Yes	Yes		5.0n	0	5.0	2.0	0.8	250m†	0	7	74LS112N	DIP16a
24	74S112PC	TTL	2	125M†	Yes	Yes		5.0n	0	5.0	2.0	0.8	250m†	0	7	74LS112N	None
25♦	74S113PC	TTL	2	125M†	No	Yes		5.0n	0	5.0	2.0	0.8	250m†	0	7	74LS113N	DIP14a
26♦	DM54S112J	TTL	2	125M	Yes	Yes		12n		5.0	2.0	0.8		5	C	54S112	DIP14a
27♦	DM54S113J	TTL	2	125M	No	Yes		12n		5.0	2.0	0.8		5	C	54S113	DIP14a
28♦	DM54S114J	TTL	2	125M	Yes	Yes		12n		5.0	2.0	0.8		5	C	54S114	DIP14a
29♦	DM74S112N	TTL	2	125M†	Yes	Yes		7.0n	0	5.0	2.0	0.8	150m†	0	7	74LS112N	DIP14a
30♦	DM74S113N	TTL	2	125M†	No	Yes		7.0n	0	5.0	2.0	0.8	150m†	0	7	74LS113N	DIP14a
31♦	DM74S114N	TTL	2	125M†	Yes	Yes		7.0n	0	5.0	2.0	0.8	150m†	0	7	74LS114N	DIP14a
32♦	F10135DC	ECL	2	125M				5.0n	5.2	0	-1.1	-1.4C	353mQ	0	7	B02-268	DIP16a
33♦	F10535DM	ECL	2	125M				5.0n	5.2	0	-1.1	-1.4C	353mQ	5	C	B02-268	DIP16a
34♦	F10535FM	ECL	2	125M				5.0n	5.2	0	-1.1	-1.4C	353mQ	5	C	B02-268a	FP103
35♦	MC54F109J	TTL	2	125M	Yes	Yes		9.0n	0	5.5	2.0	0.8		5	C	74-109N	DIP16a
36▼	MC54F109N	TTL	2	125M	Yes	Yes		9.0n	0	5.5	2.0	0.8		5	C	74-109N	DIP16a
37♦	MC74F109J	TTL	2	125M	Yes	Yes		9.0n	0	5.25	2.0	0.8		0	7	74-109N	DIP16a
38♦	MC74F109N	TTL	2	125M	Yes	Yes		9.0n	0	5.25	2.0	0.8		0	7	74-109N	DIP16b
39♦	N74F109D	TTL	2	125M†	Yes	Yes		10n	0	5.0	2.0	0.8		0	7	74-109N	FP148
40♦	N74F109F	TTL	2	125M†	Yes	Yes		7.0n	-.5	5.0	2.0	0.8		0	7	74-109N	DIP16b
41♦	N74F109N	TTL	2	125M†	Yes	Yes		10n	0	5.0	2.0	0.8		0	7	74-109N	DIP16a
42♦	N74F113D(A)	TTL	2	125M†	No	Yes		7.5n	0	5.0	2.0	0.8		0	7	74LS113	FP147
43♦	N74F113N(A)	TTL	2	125M†	No	Yes		7.5n	0	5.0	2.0	0.8		0	7	74LS113	DIP14a
44♦	N74F114D(A)	TTL	2	125M†	Yes	Yes		8.5n	0	5.0	2.0	0.8		0	7	74LS114	FP147
45♦	SN54S112J	TTL	2	125M	Yes	Yes		7.0n	0	7.0	2.0	0.8	250m†	5	C	74LS112N	DIP16a
46♦	SN54S113J	TTL	2	125M	No	Yes		7.0n	0	7.0	2.0	0.8	250m†	5	C	74LS113N	DIP14a
47♦	SN54S114J	TTL	2	125M	Yes	Yes		7.0n	0	7.0	2.0	0.8	250m†	5	C	74LS114N	DIP14a
48	SN74S112D	TTL	2	125M	Yes	Yes		7.0n	0	7.0	2.0	0.8		0	7	74LS112	FP148
49♦	SN74S112N	TTL	2	125M	Yes	Yes		7.0n	0	7.0	2.0	0.8	250m†	0	7	74LS112N	DIP16a
50	SN74S113D	TTL	2	125M	No	Yes		7.0n	0	7.0	2.0	0.8		0	7	74LS113	FP147
51♦	SN74S113N	TTL	2	125M	No	Yes		7.0n	0	7.0	2.0	0.8	250m†	0	7	74LS113N	DIP14a
52	SN74S114D	TTL	2	125M		Yes		7.0n	0	7.0	2.0	0.8		0	7	74LS114	FP147
53♦	SN74S114N	TTL	2	125M	Yes	Yes		7.0n	0	7.0	2.0	0.8	250m†	0	7	74LS114N	DIP14a
54♦	54F112DM	TTL	2	130M	Yes	Yes		5.0n	0	5.0	2.0	0.8		5	C	74LS112	DIP16b
55	54F112L1M	TTL	2	130M	Yes	Yes		5.0n	0	5.0	2.0	0.8		5	C	B02-332	LC19
56♦	74F112DC	TTL	2	130M	Yes	Yes		5.0n	0	5.0	2.0	0.8		0	7	74LS112	DIP16b
57	74F112L1C	TTL	2	130M	Yes	Yes		5.0n	0	5.0	2.0	0.8		0	7	B02-332	LC19
58♦	74F112PC	TTL	2	130M	Yes	Yes		5.0n	0	5.0	2.0	0.8		0	7	74LS112	DIP16a
59	74F112QC	TTL	2	130M	Yes	Yes		5.0n	0	5.0	2.0	0.8		0	7	B02-332	LC26
60	74F112SC	TTL	2	130M	Yes			5.0n	0	5.0	2.0	0.8		0	7	54S112	FP148
61♦	MC54F112J	TTL	2	130M	Yes	Yes		6.5n	0	5.5	2.0	0.8		5	C	74LS112N	DIP16a
62▼	MC54F112N	TTL	2	130M	Yes	Yes		6.5n	0	5.5	2.0	0.8		5	C	74LS112N	DIP16a
63♦	MC54F113J	TTL	2	130M	No	Yes		6.5n	0	5.5	2.0	0.8		5	C	74LS113N	DIP14a
64▼	MC54F113N	TTL	2	130M	No	Yes		6.5n	0	5.5	2.0	0.8		5	C	74LS113N	DIP14a
65♦	MC74F112J	TTL	2	130M	Yes	Yes		6.5n	0	5.25	2.0	0.8		0	7	74LS112N	DIP16a
66♦	MC74F112N	TTL	2	130M	Yes	Yes		6.5n	0	5.25	2.0	0.8		0	7	74LS112N	DIP16b
67♦	MC74F113J	TTL	2	130M				6.5n	0	5.25	2.0	0.8		0	7	74S113N	DIP14a
68♦	MC74F113N	TTL	2	130M				6.5n	0	5.25	2.0	0.8		0	7	74S113N	DIP14a
69♦	N74F112D(A)	TTL	2	130M†	Yes	Yes		7.5n	0	5.0	2.0	0.8		0	7	74LS112	FP148
70♦	N74F112N(A)	TTL	2	130M†	Yes	Yes		7.5n	0	5.0	2.0	0.8		0	7	74LS112	DIP16a
71♦	10135F	ECL	2	140M†	Yes	Yes		4.6n	5.2	0	-1.1	-1.4	280m†	3	8	B02-268	DIP16a
72♦	10135N	ECL	2	140M†	Yes	Yes		4.6n	5.2	0	-1.1	-1.4	280m†	3	8	B02-268	DIP16a
73♦	MB10135	ECL	2	140M				5.0n	5.2	0	-1.1	-1.4C	280m†	3	8	B02-268	DIP16b
74♦	MB10135M	ECL	2	140M				5.0n	5.2	0	-1.1	-1.4C	280m†	3	8	B02-268	DIP16b
75▼	MC10135FN	ECL	2	140M†				4.5n	5.2	0	-1.1	-1.4C	280m†	3	8	B02-268	DIP16a
76♦	MC10135L	ECL	2	140M†				4.5n	5.2	0	-1.1	-1.4C	280m†	3	8	B02-268	DIP16a
77▼	MC10135LD	ECL	2	140M†				4.5n	5.2	0	-1.1	-1.4C	280m†	3	8	B02-268	DIP16a
78▼	MC10135LDS	ECL	2	140M†				4.5n	5.2	0	-1.1	-1.4C	280m†	3	8	B02-268	DIP16a
79♦	MC10135P	ECL	2	140M†				4.5n	5.2	0	-1.1	-1.4C	280m†	3	8	B02-268	DIP16b
80▼	MC10135PD	ECL	2	140M†				4.5n	5.2	0	-1.1	-1.4C	280m†	3	8	B02-268	DIP16b
81▼	MC10135PDS	ECL	2	140M†				4.5n	5.2	0	-1.1	-1.4C	280m†	3	8	B02-268	DIP16b
82♦	MC10535F	ECL	2	140M†				4.5n	5.2	0	-1.1	-1.4C	280m†	5	C	B02-268	FP85
83♦	MC10535L	ECL	2	140M†				4.5n	5.2	0	-1.1	-1.4C	280m†	5	C	B02-268	DIP16b
84♦	GXB10135	ECL	2	150M				2.0n	5.2	0	-1.1	-1.4C		0	7	B02-268	DIP16a
85♦	DM54AS112J(A)	TTL	2	175M	Yes	Yes		4.0n	0	5.0	2.0	0.8		5	C	74LS112	DIP16a
86♦	DM54AS113J(A)	TTL	2	175M	No	Yes		4.0n	0	5.0	2.0	0.8		5	C	74LS113	DIP14a
87♦	DM54AS114J(A)	TTL	2	175M		Yes		4.0n	0	5.0	2.0	0.8		5	C	74LS114	DIP14a
88♦	DM74AS112J(A)	TTL	2	175M	Yes	Yes		4.0n	0	5.0	2.0	0.8		0	7	74LS112	DIP16a
89♦	DM74AS112N(A)	TTL	2	175M	Yes	Yes		4.0n	0	5.0	2.0	0.8		0	7	74LS112	DIP16a
90♦	DM74AS113J(A)	TTL	2	175M	No	Yes		4.0n	0	5.0	2.0	0.8		0	7	74LS113	DIP14a
91♦	DM74AS113N(A)	TTL	2	175M	No	Yes		4.0n	0	5.0	2.0	0.8		0	7	74LS113	DIP14a
92♦	DM74AS114J(A)	TTL	2	175M		Yes		4.0n	0	5.0	2.0	0.8		0	7	74LS114	DIP14a
93♦	DM74AS114N(A)	TTL	2	175M		Yes		4.0n	0	5.0	2.0	0.8		0	7	74LS114	DIP14a
94▼	MC10H135FN	ECL	2	250M				2.3n	5.2	0	-1.1	-1.4	280m†	0	7	B02-268	DIP16a
95♦	MC10H135L	ECL	2	250M				2.3n	5.2	0	-1.1	-1.4	280m†	0	7	B02-268	DIP16a
96▼	MC10H135LD	ECL	2	250M				2.3n	5.2	0	-1.1	-1.4	280m†	0	7	B02-268	DIP16a
97▼	MC10H135LDS	ECL	2	250M				2.3n	5.2	0	-1.1	-1.4	280m†	0	7	B02-268	DIP16a
98♦	MC10H135P	ECL	2	250M				2.3n	5.2	0	-1.1	-1.4	280m†	0	7	B02-268	DIP16b
99▼	MC10H135PD	ECL	2	250M				2.3n	5.2	0	-1.1	-1.4	280m†	0	7	B02-268	DIP16b
100▼	MC10H135PDS	ECL	2	250M				2.3n	5.2	0	-1.1	-1.4	280m†	0	7	B02-268	DIP16b
101♦	IDM29908JC	CMS	4	20M				17n	0	5.0	2.0	0.8	290m†	0	7	B02-324	DIP16b
102♦	IDM29908JM	CMS	4	20M				17n	0	5.0	2.0	0.8	290m†	5	C	B02-324	DIP16b
103♦	IDM29908NC	CMS	4	20M				17n	0	5.0	2.0	0.8	290m†	0	7	B02-324	DIP16a
104♦	SN54376J(1)	TTL	4	45M				35n	0	7.0	2.0	0.8	370m	5	C	74-376N	DIP16a
105♦	SN74376N(1)	TTL	4	45M				35n	0	7.0	2.0	0.8		0	7	74-376N	DIP16a
106♦	SN74276N	TTL	4	50M	Yes	Yes		30n	0	7.0	2.0	0.8	405m	0	7	74-276N	DIP20a
107	CD74HC109M	CMS	4	60M	Yes	Yes		35n	0.5	7.0	3.15	1.35	300m	4	8	74-109	FP148
108	D4002	DTL	8	5M				90n	0	5.0	2.0	.95	500m	0	7	None	None

FLIP FLOP, R-S

4. FLIP-FLOPS - RS-type

IN ORDER OF: (1) CKTS PER PKG
(2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
2♦	931FM	DTL	1		Yes	Yes		36n	0	5.0	2.0	1.1	28m	5	C	9-31L	FP28
3♦	945DM	DTL	1		Yes	Yes		75n	0	5.0	1.7	1.4	70m	5	C	9-31L	DIP14b
4	945FM	DTL	1		Yes	Yes		75n	0	5.0	1.7	1.4	70m	5	C	9-31L	FP28g
5♦	945HM	DTL	1		Yes	Yes		36n	0	5.0	2.6	0.4C		5	C	9-31L	TO-100
6♦	948DM	DTL	1		Yes	Yes		75n	0	5.0	1.7	1.4	81m	5	C	9-31L	DIP14b
7	948FM	DTL	1		Yes	Yes		75n	0	5.0	1.7	1.4	81m	5	C	9-31L	FP28g
8♦	948HM	DTL	1		Yes	Yes		36n	0	5.0	2.6	0.4C		5	C	9-31L	TO-100
9♦	950HM	DTL	1		Yes	Yes		36n	0	5.0	2.0	1.1		5	C	9-50L	TO-100
10♦	957DC	DTL	1					14n	2.0	4.5	2.2	.36C	1.0	1	5	B03-131	TO-116
11♦	9945BC	DTL	1		Yes	Yes		90n	0	5.0	1.8	1.2	75m	0	7	9-31L	DIP14a
12♦	9945DC	DTL	1		Yes	Yes		90n	0	5.0	1.8	1.2	75m	0	7	9-31L	DIP14b
13♦	9945DM	DTL	1		Yes	Yes		75n	0	5.0	1.7	1.4	70m	5	C	9-31L	DIP14b
14	9945FC	DTL	1		Yes	Yes		90n	0	5.0	1.8	1.2	75m	0	7	9-31L	FP28g
15	9945FM	DTL	1		Yes	Yes		75n	0	5.0	1.7	1.4	70m	5	C	9-31L	FP28g
16♦	9948BC	DTL	1		Yes	Yes		80n	0	5.0	1.8	1.2	87m	0	7	9-31L	DIP14a
17♦	9948DC	DTL	1		Yes	Yes		80n	0	5.0	1.8	1.2	87m	0	7	9-31L	DIP14b
18♦	9948DM	DTL	1		Yes	Yes		75n	0	5.0	1.7	1.4	81m	5	C	9-31L	DIP14b
19	9948FC	DTL	1		Yes	Yes		80n	0	5.0	1.8	1.2	87m	0	7	9-31L	FP28g
20	9948FM	DTL	1		Yes	Yes		75n	0	5.0	1.7	1.4	81m	5	C	9-31L	FP28g
21▼	MC845L	DTL	1		Yes	Yes		40n	0	5.0	2.0	1.1	60m†	0	7	9-31	TO-116
22▼	MC845P	DTL	1		Yes	Yes		40n	0	5.0	2.0	1.1	60m†	0	7	9-31	DIP14a
23▼	MC848L	DTL	1		Yes	Yes		40n	0	5	2.0	1.1	70m†	0	7	9-31	TO-116
24▼	MC848P	DTL	1		Yes	Yes		40n	0	5.0	2.0	1.1	70m†	0	7	9-31	DIP14a
25▼	MC850L	DTL	1		Yes	Yes		15n	0	5.0	2.6	.45	50m†	0	7	9-50	TO-116
26▼	MC850P	DTL	1		Yes	Yes		15n	0	5.0	2.6	.45	50m†	0	7	9-50	DIP14a
27♦	MC945L	DTL	1		Yes	Yes		40n	0	5.0	2.0	1.1	60m†	5	C	9-31L	TO-116
28♦	MC948L	DTL	1		Yes	Yes		40n	0	5.0	2.0	1.1	70m†	5	C	9-31L	TO-116
29♦	MC950L	DTL	1		Yes	Yes		15n	0	5.0	2.0	1.1	50m†	5	C	9-50L	TO-116
30♦	N1014A	ECT	1					6.0n	5.2	0	-.85	-1.8	140m	0	7	None	DIP16a
31♦	N1015A	ECT	1					6.0n	5.2	0	-.85	-1.8	140m	0	7	None	DIP16a
32♦	N1016A	ECT	1					6.0n	5.2	0	-.85	-1.8	140m	0	7	None	DIP16a
33♦	N1033A	ECT	1					6.0n	5.2	0	-.85	-1.8	140m	0	7	None	DIP16a
34♦	SFC945E	DTL	1		Yes	Yes		75n	0	5.0	3.1	.45C	75m	0	7	9-31L	DIP14a
35♦	SFC948E	DTL	1		Yes	Yes		65n	0	5.0	4.3	.45C	87m	0	7	9-31L	DIP14a
36▼	MC664L	DTL	1	3M					0	15	13	1.5C	160m†	3	7	6-64P	TO-116
37▼	MC664P	DTL	1	3M					0	15	13	1.5C	160m†	3	7	6-64P	DIP14a
38♦	DM54L71J	TTL	1	11M†	Yes	Yes		150n	0	5.0	2.0	0.7	5.0m†	5	C	74L71N	DIP14a
39♦	DM54L71W	TTL	1	11M	Yes	Yes		75n	0	8.0	2.0	0.7		5	C	54L71T	DIP14b
40♦	DM74L71N	TTL	1	11M†	Yes	Yes		150n	0	5.0	2.0	0.7	5.0m†	0	7	74L71N	DIP14a
41♦	950DM	DTL	1	20M	Yes	Yes		30n	0	5.0	1.9	1.1		5	C	9-50L	DIP14a
42♦	950FM	DTL	1	20M	Yes	Yes		30n	0	5.0	1.9	1.1		5	C	9-50L	FP28c
43♦	MC1666L	ECT	2					2.5n	8.0	0	-.96	-1.6C	220m†	3	8	B03-150	DIP16a
44▼	MC1666LD	ECT	2					2.5n	8.0	0	-.96	-1.6C	220m†	3	8	B03-150	DIP16a
45▼	MC1666LDS	ECT	2					2.5n	8.0	0	-.96	-1.6C	220m†	3	8	B03-150	DIP16a
46▼	M54620P	BIP	4		No	No			0.0	7.0	2.0	0.8	500m	2	7	B03-155	DIP16b
FLIP FLOP, RST																	
50♦	913HM	RTL	1		Yes	Yes		15n	0	3.6			250m	0	7	B04-52	TO-99
51♦	9111DM	HTL	1					75n	0	5.0	1.9	1.1		5	C	9-111D	DIP14a
52	9111FM	HTL	1					75n	0	5.0	1.9	1.1		5	C	9-111D	FP28c
53♦	SP629A	DTL	1	10M†					0	4.5			40m†	0	7	B04-19f	DIP14a
54	RF30CJ	TTL	1	15M	Yes	Yes			0	5.0	3.4	0.2	30m†	5	C	B04-42	FP52j
55	RF30CK	TTL	1	15M	Yes	Yes			0	5.0	3.4	0.2	30m†	5	C	B04-42	FP52k
56♦	RF30DC	TTL	1	15M	Yes	Yes			0	5.0	3.4	0.2	30m†	5	C	B04-42	DIP14e
57	RF31CJ	TTL	1	15M	Yes	Yes			0	5.0	3.4	0.2	30m†	5	C	B04-42	FP52j
58	RF31CK	TTL	1	15M	Yes	Yes			0	5.0	3.4	0.2	30m†	5	C	B04-42	FP52k
59♦	RF31DC	TTL	1	15M	Yes	Yes			0	5.0	3.4	0.2	30m†	5	C	B04-42	DIP14e
60♦	N8424A	DTL	2	12M				60n	0	5.0	3.4	.35C	25m	0	7	B04-125	TO-116
61♦	N8424F	DTL	2	12M				60n	0	5.0	3.4	.35C	25m	0	7	B04-125	DIP14a
62♦	N8424J	DTL	2	12M				60n	0	5.0	3.4	.35C	25m	0	7	B04-125	TO-88
63♦	N8425A	DTL	2	12M				60n	0	5.0	3.4	.35C	25m	0	7	B04-125a	TO-116
64♦	N8425F	DTL	2	12M				60n	0	5.0	3.4	.35C	25m	0	7	B04-125a	DIP14a
65♦	N8425J	DTL	2	12M				60n	0	5.0	3.4	.35C	25m	0	7	B04-125a	TO-88
66♦	S8424A	DTL	2	12M				60n	0	5.0	3.4	.35C	25m	5	C	B04-125	TO-116
67♦	S8424F	DTL	2	12M				60n	0	5.0	3.4	.35C	25m	5	C	B04-125	DIP14a
68♦	S8424J	DTL	2	12M				60n	0	5.0	3.4	.35C	25m	5	C	B04-125	TO-88
69♦	S8425A	DTL	2	12M				60n	0	5.0	3.4	.35C	25m	5	C	B04-125a	TO-116
70♦	S8425F	DTL	2	12M				60n	0	5.0	3.4	.35C	25m	5	C	B04-125a	DIP14a
71♦	S8425J	DTL	2	12M				60n	0	5.0	3.4	.35C	25m	5	C	B04-125a	TO-88
FLIP FLOP, T-TYPE																	
75	E300D2	DTL	1					250n	0	5.0	1.7	.90	5.5mQ	5	C	B06-19	FP28c
76	E300D7	DTL	1					250n	0	5.0	1.7	.90	5.5mQ	2	A	B06-19	FP28c
77♦	E300F2	DTL	1					250n	0	5.0	1.7	.90	5.5mQ	5	C	B06-19	DIP14a
78♦	E300F7	DTL	1					250n	0	5.0	1.7	.90	5.5mQ	2	A	B06-19	DIP14a
79▼	M54621L	BIP	1		Yes	No			0.0	7.0	2.0	0.8	200m	2	7	B06-29	SL8D
80	DN819	IIL	1	100k†					0	16	11	0.4C	150m	2	7	B06-28	SL4B

5. GATES - AND

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1 2 3	**GATE, AND**																	
4▼	956DC	BIP	AND	2				15	2.0	4.5		180m	500m	1	5	2	None	TO-116
5♦	54F08DM	TTL	AND	2		2.0	0.8	12		5.0		65m		5	C	4	74-08N	DIP14b
6♦	54F08L1M	TTL	AND	2		2.0	0.8			5.0		7.0n		5	C	4	G01-315	LC19
7♦	54H08DM	TTL	AND	2		2.0	0.4	20		5.0		12n		5	C	4	74-08N	DIP14a
8♦	54LS08DM	TTL	AND	2		2.0	0.7			5.0		44mQ	300m	5	C	4	74-08N	TO-116
9♦	74F08DC	TTL	AND	2		2.0	0.8	12		5.0		65m		0	7	4	74-08N	DIP14b
10♦	74F08L1C	TTL	AND	2		2.0	0.8			5.0		6.0n		0	7	4	G01-315	LC19
11♦	74F08PC	TTL	AND	2		2.0	0.8	12		5.0		65m		0	7	4	74-08N	DIP14a
12♦	74F08QC	TTL	AND	2		2.0	0.8			5.0		6.0n		0	7	4	G01-315	LC26
13♦	74LS08DC	TTL	AND	2		2.0	0.8	5		5.0		44mQ	300m	0	7	4	74-08N	TO-116
14♦	74LS08PC	TTL	AND	2		2.0	0.8	5		5.0		44mQ	300m	0	7	4	74-08N	TO-116
15♦	74S08DC	TTL	AND	2		2.0	.50	20		5.0		7.0n		0	7	4	74-08N	DIP14a
16♦	74S08PC	TTL	AND	2		2.0	.50	20		5.0		7.0n		0	7	4	74-08N	DIP14a
17♦	5408DM	TTL	AND	2		2.0	0.8	10		5.0		135m		5	C	4	74-08N	TO-116
18♦	7408DC	TTL	AND	2		2.0	0.8	10		5.0		165m		0	7	4	74-08N	TO-116
19♦	7408PC	TTL	AND	2		2.0	0.8	10		5.0		165m		0	7	4	74-08N	DIP14a
20▼	BU4081B	CMS	AND	2		7.0	3.0			10		550m	2.9	4	8	4	40-81B	DIP14a
21▼	BU4081BF	CMS	AND	2		7.0	3.0			10		550m	2.9	4	8	4	40-81B	FP161
22♦	DM54ALS08J	TTL	AND	2		2.0	0.8	10		5.0		16n	0.4	5	C	4	74-08	DIP14a
23♦	DM54AS08J	TTL	AND	2		2.0	0.8	50		5.0		6.5n	0.3	5	C	4	74-08	DIP14a
24♦	DM54H08J	TTL	AND	2		2.0	0.8	10		5.0		320m		5	C	4	74-08N	DIP14a
25♦	DM54LS08J	TTL	AND	2		2.0	0.7	10		5.0		18n	0.3	5	C	4	74-08	DIP14a
26♦	DM74ALS08J	TTL	AND	2		2.0	0.8	10		5.0		14n	0.3	0	7	4	74-08	DIP14a
27♦	DM74ALS08N	TTL	AND	2		2.0	0.8	10		5.0		14n	0.3	0	7	4	74-08	DIP14a
28♦	DM74AS08J	TTL	AND	2		2.0	0.8	50		5.0		5.5n	0.3	0	7	4	74-08	DIP14a
29♦	DM74AS08N	TTL	AND	2		2.0	0.8	50		5.0		5.5n	0.3	0	7	4	74-08	DIP14a
30♦	DM74H08N	TTL	AND	2		2.0	0.8	10		5.0		320m		0	7	4	74-08N	DIP14a
31♦	DM74LS08N	TTL	AND	2		2.0	0.8	10		5.0		18n	0.3	0	7	4	74-08	DIP14a
32♦	DM5408J	TTL	AND	2		2.0	0.8	10		5.0		660m	400m	5	C	4	74-08N	DIP14a
33♦	DM7408N	TTL	AND	2		2.0	0.8	10		5.0		660m	400m	0	7	4	74-08N	DIP14a
34♦	DN74LS08P1	TTL	AND	2		2.0	0.8	20		5.0		400m		2	7	4	74-08	DIP14a
35♦	DN74LS08P4	TTL	AND	2		2.0	0.8	20		5.0		400m		2	7	4	74-08	FP177
36♦	K155LI1	TTL	AND	2		2.4	0.4			5.0				1	7	4	None	None
37♦	M54HC08F1(A)	CMS	AND	2		3.15	1.35	10		5.0		500m	1.2	5	C	4	74-08	DIP14a
38♦	M74ALS08P	TTL	AND	2		2.0	0.8			5.0		22m	0.4	2	7	4	74-08N	DIP14a
39♦	M74HC08B1(A)	CMS	AND	2		3.15	1.35	10		5.0		500m	1.2	4	8	4	74-08	DIP14a
40♦	M74HC08C1(A)	CMS	AND	2		3.15	1.35	10		5.0		500m	1.2	4	8	4	G01-315	LC33
41♦	M74HC08F1(A)	CMS	AND	2		3.15	1.35	10		5.0		500m	1.2	4	8	4	74-08	DIP14a
42♦	M74HC08P	CMS	AND	2		4.2	1.8			5.0		20n		4	8	4	74-08	DIP14a
43♦	M74LS08P	TTL	AND	2		2.0	0.8	20		5.0		17m†	0.4	2	7	4	74-08N	DIP14a
44♦	M53208P	TTL	AND	2		2.0	0.8	10		5.0		130mQ		0	7	4	74-08N	DIP14a
45♦	MB74LS08	TTL	AND	2		2.0	0.8	20		5.0		44m	1.0 *	2	7	4	74-08N	DIP14a
46♦	MB74LS08M	TTL	AND	2		2.0	0.8	20		5.0		44m	1.0 *	2	7	4	74-08N	DIP14a
47♦	MC54F08J	TTL	AND	2		2.0	0.8	12a		5.0		5.6n	0.3	5	C	4	74-08N	DIP14a
48▼	MC54F08N	TTL	AND	2		2.0	0.8	12a		5.0		5.6n	0.3	5	C	4	74-08N	DIP14a
49♦	MC54HC08BCAJ(A)	CMS	AND	2		3.2	1.1	8		5.0		500m	1.0	5	C	4	74-08N	DIP14 ☑
50♦	MC54HC08BCAN(A)	CMS	AND	2		3.2	1.1	8		5.0		500m	1.0	5	C	4	74-08N	DIP14 ☑
51♦	MC54HC08J(A)	CMS	AND	2		3.15	0.9	10		5.0		500m	1.3	5	C	4	74-08	DIP14a
52♦	MC74F08J	TTL	AND	2		2.0	0.8	12a		5.0		5.6n	0.3	0	7	4	74-08N	DIP14a
53♦	MC74F08N	TTL	AND	2		2.0	0.8	12a		5.0		5.6n	0.3	0	7	4	74-08N	DIP14a
54♦	MC74HC08BCAJ(A)	CMS	AND	2		3.2	1.1	10		5.0		500m	1.0	4	8	4	74-08N	DIP14 ☑
55♦	MC74HC08BCAN(A)	CMS	AND	2		3.2	1.1	10		5.0		500m	1.0	4	8	4	74-08N	DIP14 ☑
56♦	MC74HC08J(A)	CMS	AND	2		3.15	0.9	10		5.0		500m	1.3	4	8	4	74-08	DIP14a
57♦	MC74HC08N(A)	CMS	AND	2		3.15	0.9	10		5.0		500m	1.3	4	8	4	74-08	DIP14a
58▼	MC1806L	DTL	AND	2		2.6	.45C	8		5.0		30n		0	7	4	74-08N	TO-116
59▼	MC1806P	DTL	AND	2		2.6	.45C	8		5.0		30n		0	7	4	74-08N	TO-116
60▼	MC1807L	DTL	AND	2		2.6	.45C	7		5.0		35n		0	7	4	74-08N	TO-116
61▼	MC1807P	DTL	AND	2		2.6	.45C	7		5.0		35n		0	7	4	74-08N	TO-116
62♦	MC1906L	DTL	AND	2		2.6	0.4C	8		5.0		30n		5	C	4	74-08N	TO-116
63♦	MC1907L	DTL	AND	2		2.6	0.4C	7		5.0		35n		5	C	4	74-08N	TO-116
64▼	MC3001L	TTL	AND	2		2.4	0.4C	10		5.0		112m†		0	7	4	74-08N	TO-116
65▼	MC3001P	TTL	AND	2		2.4	0.4C	10		5.0		112m†		0	7	4	74-08N	DIP14a
66♦	MC3101L	TTL	AND	2		2.4	0.4C	10		5.0		112m†		5	C	4	74-08N	TO-116
67♦	MM54C08D	CMS	AND	2		3.5	1.5	2		15		500m	450m	5	C	4	74-08N	DIP14a
68♦	MM74C08N	CMS	AND	2		3.5	1.5	2		15		500m	450m	0	7	4	74-08N	DIP14a
69♦	N74H08F	TTL	AND	2		2.0	0.8	10		5.0		320m		0	7	4	74-08N	DIP14b
70♦	N74H08N	TTL	AND	2		2.0	0.8	10		5.0		320m		0	7	4	74-08N	DIP14a
71♦	N74LS08D	TTL	AND	2		2.0	0.8			5.0		44m		0	7	4	74-08N	DIP14b
72♦	N74LS08N	TTL	AND	2		2.0	0.7	20		5.0		44m	0.3	0	7	4	74-08N	DIP14a
73♦	N74S08D	TTL	AND	2		2.0	0.8			5.0		7.5n	0.4	0	7	4	74-08	FP147
74♦	N74S08F	TTL	AND	2		2.0	0.8	10		5.0		285m		0	7	4	74-08N	DIP14b
75♦	N74S08N	TTL	AND	2		2.0	0.8	10		5.0		285m	0.4	0	7	4	74-08N	DIP14a
76♦	N7408F	TTL	AND	2		2.0	0.8	10		5.0		165m	1.0 †	0	7	4	74-08N	DIP14b
77♦	N7408N	TTL	AND	2		2.0	0.8	10		5.0		165m	0.4	0	7	4	74-08N	DIP14a
78♦	N8731A	DDL	AND	2	OC									0	7	4	G06-152	TO-116
79♦	N8731F	DDL	AND	2	OC									0	7	4	G06-152	DIP14a
80♦	N8731J	DDL	AND	2	OC									0	7	4	G06-152	TO-88
81♦	PC54HC08D(A)	CMS	AND	2		3.15	0.9	10		5.0		500m	0.8	5	C	4	74-08	DIP14b
82♦	PC54HCT08D(A)	CMS	AND	2		2.0	0.8	10		5.0		500m	0.7	5	C	4	74-08	DIP14b
83♦	PC74HC08D(A)	CMS	AND	2		3.15	0.9	10		5.0		500m	0.8	4	8	4	74-08	DIP14b
84♦	PC74HCT08D(A)	CMS	AND	2		2.0	0.8	10		5.0		500m	0.7	4	8	4	74-08	DIP14b
85♦	S54F08F	TTL	AND	2		2.0	0.8			5.0		7.5n	300m	5	C	4	74-08N	DIP14b
86♦	S54F08G	TTL	AND	2		2.0	0.8			5.0		7.5n	300m	5	C	4	G01-315	LC24
87♦	S54H08F	TTL	AND	2		2.0	0.8	10		5.0		320m		5	C	4	74-08N	DIP14b
88♦	S54LS08F	TTL	AND	2		2.0	0.7			5.0		44m	0.3	5	C	4	74-08N	DIP14b
89♦	S54LS08G	TTL	AND	2		2.0	0.7			5.0		44m	0.3	5	C	4	G01-315	LC24
90♦	S54S08F	TTL	AND	2		2.0	0.8	10		5.0		285m	0.4	5	C	4	74-08N	DIP14b
91♦	S5408F	TTL	AND	2		2.0	0.8	10		5.0		130m	1.0 †	5	C	4	74-08N	DIP14b
92♦	S8731A	DTL	AND	2	OC									5	C	4	G06-152	TO-116
93♦	S8731F	DTL	AND	2	OC									5	C	4	G06-152	DIP14a
94♦	S8731J	DTL	AND	2	OC									5	C	4	G06-152	TO-88
95♦	SFC408E	TTL	AND	2		2.0	0.8	10		5.0		130mQ	400m	0	7	4	74-08N	TO-116
96♦	SFC408EM	TTL	AND	2		2.0	0.8	10		5.0		130mQ	400m	5	C	4	74-08N	TO-116
97♦	SFC408ET	TTL	AND	2		2.0	0.8	10		5.0		130mQ	400m	2	8	4	74-08N	TO-116
98♦	SFC408EV	TTL	AND	2		2.0	0.8	10		5.0		130mQ	400m	4	8	4	74-08N	TO-116
99♦	SN54LS08J	TTL	AND	2		2.0	0.7			5.0		20n	0.3	5	C	4	74-08	DIP14a
100▼	SN54LS08N	TTL	AND	2		2.0	0.7			5.0		20n	0.3	5	C	4	74-08	DIP14a
101♦	SN54S08J	TTL	AND	2		2.0	0.8	10		5.0		285m	0.3	5	C	4	74-08N	DIP14a
102♦	SN74LS08D	TTL	AND	2		2.0	0.8			5.0		20n	0.4	0	7	4	74-08	FP147
103♦	SN74LS08J	TTL	AND	2		2.0	0.8			5.0		20n	0.4	0	7	4	74-08	DIP14a
104♦	SN74LS08N	TTL	AND	2		2.0	0.8			5.0		20n	0.4	0	7	4	74-08N	DIP14a
105♦	SN74S08D	TTL	AND	2		2.0	0.8			5.0		7.5n	0.3	0	7	4	74-08	FP147
106♦	SN74S08N	TTL	AND	2		2.0	0.8	10		5.0		285m	0.3	0	7	4	74-08N	DIP14a
107♦	SN5408J	TTL	AND	2		2.0	0.8	10		5.0		165m	0.4	5	C	4	74-08N	DIP14a
108♦	SN7408N	TTL	AND	2		2.0	0.8	10		5.0		165m	0.4	0	7	4	74-08N	DIP14a
109♦	SP631A	DTL	AND	2				8		4.5			2.0	0	7	4	G06-61c	DIP14a
110♦	T54LS08D2	TTL	AND	2		2.0	0.7	11d		5.0		44mQ	300m	5	C	4	74-08N	DIP14b

5. GATES - AND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	T74LS08B1	TTL	AND	2		2.0	0.8	22d		5.0		44mQ	300m	0	7	4	74-08N	DIP14a
2♦	T74LS08D1	TTL	AND	2		2.0	0.8	22d		5.0		44mQ	300m	0	7	4	74-08N	DIP14b
3♦	TC40H008P	CMS	AND	2		4.0	1.0	50		10		300m	.95	4	8	4	74-08N	MO001AA
4♦	TC74HC08P(A)	CMS	AND	2		3.15	1.35	10d		5.0		500m	1.4	4	8	4	74-08N	MO001AA
5♦	US74HCT08N(A)	CMS	AND	2		2.0	0.8	10		5.0		500m	750m	4	8	4	74-08N	DIP14 Ø
6♦	GXB10104	ECL	AND	2		-1.1	-1.4		5.2		2.0n	100m†		0	7	4	G04-481	DIP16a
7▼	MC10H104FN	ECL	AND	2		-1.1	-1.4		5.2		2.0n	35m	150m	0	7	4	G04-481	DIP16a
8♦	MC10H104L	ECL	AND	2		-1.1	-1.4		5.2		2.0n	35m	150m	0	7	4	G04-481	DIP16a
9▼	MC10H104LD	ECL	AND	2		-1.1	-1.4		5.2		2.0n	35m	150m	0	7	4	G04-481	DIP16a
10▼	MC10H104LDS	ECL	AND	2		-1.1	-1.4		5.2		2.0n	35m	150m	0	7	4	G04-481	DIP16a
11♦	MC10H104P	ECL	AND	2		-1.1	-1.4		5.2		2.0n	35m	150m	0	7	4	G04-481	DIP16b
12▼	MC10H104PD	ECL	AND	2		-1.1	-1.4		5.2		2.0n	35m	150m	0	7	4	G04-481	DIP16b
13▼	MC10H104PDS	ECL	AND	2		-1.1	-1.4		5.2		2.0n	35m	150m	0	7	4	G04-481	DIP16b
14♦	MC10H104J(A)	ECL	AND	2		-1.1	-1.4		5.2		2.2n		150m	0	7	4	G01-320	DIP16a
15♦	MC10H104N(A)	ECL	AND	2		-1.1	-1.4		5.2		2.2n		150m	0	7	4	G01-320	DIP16a
16♦	MB10104	ECL	AND	2		-1.1	-1.4	70	5.2		2.7n	140m†		3	8	4	G01-232	DIP16b
17♦	MB10104M	ECL	AND	2		-1.1	-1.4	70	5.2		2.7n	140m†		3	8	4	G01-232	DIP16b
18♦	F10104DC	ECL	AND	2		-1.1	-1.4	80g	5.2		3.7n	182mQ	145m*	0	7	4	G01-283	DIP16a
19♦	F10504DM	ECL	AND	2		-1.1	-1.4	40g	5.2		3.7n	182mQ	145m*	5	C	4	G01-283	DIP16a
20♦	F10504FM	ECL	AND	2		-1.1	-1.4	40g	5.2		3.7n	182mQ	145m*	5	C	4	G01-283	FP103
21▼	MC10104FN	ECL	AND	2		-1.1	-1.4		5.2		4.0n	140m†	150m	3	8	4	G01-232	DIP16a
22♦	MC10104L	ECL	AND	2		-1.1	-1.4		5.2		4.0n	140m†	150m	3	8	4	G01-232	DIP16a
23▼	MC10104LD	ECL	AND	2		-1.1	-1.4		5.2		4.0n	140m†	150m	3	8	4	G01-232	DIP16a
24▼	MC10104LDS	ECL	AND	2		-1.1	-1.4		5.2		4.0n	140m†	150m	3	8	4	G01-232	DIP16a
25♦	MC10104P	ECL	AND	2		-1.1	-1.4		5.2		4.0n	140m†	150m	3	8	4	G01-232	DIP16b
26▼	MC10104PD	ECL	AND	2		-1.1	-1.4		5.2		4.0n	140m†	150m	3	8	4	G01-232	DIP16b
27▼	MC10104PDS	ECL	AND	2		-1.1	-1.4		5.2		4.0n	140m†	150m	3	8	4	G01-232	DIP16b
28♦	MC10504F	ECL	AND	2		-1.1	-1.4		5.2		4.0n	140m†		5	C	4	G01-232	FP85
29♦	MC10504L	ECL	AND	2		-1.1	-1.4		5.2		4.0n	140m†		5	C	4	G01-232	DIP16b
30♦	10104F	ECL	AND	2		-1.1	-1.4		5.2		4.2n	100m†		3	8	4	G04-481	DIP16a
31♦	10104N	ECL	AND	2		-1.1	-1.4		5.2		4.2n	100m†		3	8	4	G04-481	DIP16a
32♦	HD10104	ECL	AND	2		-1.1	-1.4		5.2		4.3n	200m		3	8	4	G01-299	DIP16b
33▼	SN74AS08D	TTL	AND	2		2.0	0.8			5.0	5.5n		0.3	0	7	4	74-08N	FP147
34♦	SN74AS08N	TTL	AND	2		2.0	0.8			5.0	5.5n		0.3	0	7	4	74-08N	DIP14a
35	S54F08W	TTL	AND	2		2.0	0.8		-0.5	5.0	5.6n			5	C	4	54S08W	FP153
36♦	74F08SC	TTL	AND	2		2.0	0.8			5.0	6.0n			0	7	4	54S08	FP147
37♦	SN54AS08J	TTL	AND	2		2.0	0.8			5.0	6.5n		0.3	5	C	4	74-08N	DIP14a
38♦	N74F08D	TTL	AND	2		2.0	0.8			5.0	6.6n			0	7	4	74-08	FP147
39♦	N74F08N	TTL	AND	2		2.0	0.8			5.0	6.6n			0	7	4	74-08	DIP14a
40♦	54F08FM	TTL	AND	2		2.0	0.8	12		5.0	7.0n	65m		5	C	4	54S08W	FP115
41♦	S54S08W	TTL	AND	2		2.0	0.8	10		5.0	7.5n	285m	0.4	5	C	4	54S08W	FP153
42♦	54LS08FM	TTL	AND	2		2.0	0.7			5.0	8.0n	44mQ	300m	5	C	4	54S08W	TO-86
43▼	HD74HC09FP	CMS	AND	2	OD	3.15	1.35			5.0	8.0n	500m	1.2	4	8	4	74-09N	FP161
44▼	HD74HC09P	CMS	AND	2	OD	3.15	1.35			5.0	8.0n	500m	1.2	4	8	4	74-09N	DIP14a
45▼	HD74HC08FP	CMS	AND	2		3.15	1.35			5.0	9.0n	500m	1.2	4	8	4	74-08N	FP161
46▼	HD74HC08P	CMS	AND	2		3.15	1.35			5.0	9.0n	500m	1.2	4	8	4	74-08N	DIP14a
47♦	MC3101F	TTL	AND	2		2.4	0.4C	10		5.0	9.0n	112m†		5	C	4	54S09W	TO-86
48♦	54S09FM	TTL	AND	2	OC	2.0	0.7	10		5.0	10n			5	C	4	54S09W	FP52
49♦	N74S09F	TTL	AND	2	OC	2.0	0.8	20		5.0	10n	285m		0	7	4	74-09N	DIP14b
50♦	N74S09N	TTL	AND	2	OC	2.0	0.8	10		5.0	10n	285m		0	7	4	74-09N	DIP14a
51♦	S54S09F	TTL	AND	2	OC	2.0	0.8	10		5.0	10n	285m		5	C	4	74-09N	DIP14b
52♦	S54S09W	TTL	AND	2	OC	2.0	0.8	10		5.0	10n	285m		5	C	4	54S09W	FP39e
53♦	SN54S09J	TTL	AND	2	OC	2.0	0.8	10		5.0	10n	285m	0.3	5	C	4	74-09N	DIP14a
54♦	SN74S09D	TTL	AND	2	OC	2.0	0.8			5.0	10n		0.3	0	7	4	74-09	FP147
55♦	SN74S09N	TTL	AND	2	OC	2.0	0.8	10		5.0	10n	285m	0.3	0	7	4	74-09N	DIP14a
56♦	DM54S08J	TTL	AND	2		2.0	0.8	20		5.0	11n		0.3	5	C	4	54S08	DIP14a
57♦	DM74S08N	TTL	AND	2		2.0	0.8	20		5.0	11n		0.3	0	7	4	74-08	DIP14a
58♦	54H08FM	TTL	AND	2		2.0	0.4	20		5.0	12n			5	C	4	54S08W	FP52
59♦	S54H08W	TTL	AND	2		2.0	0.8	10		5.0	12n	320m		5	C	4	54S08W	FP39e
60♦	54LS09FM	TTL	AND	2	OC	2.0	0.8			5.0	13n	44mQ	300m	5	C	4	54S09W	TO-86
61♦	74LS09PC	TTL	AND	2	OC	2.0	0.8	5		5.0	13n	44mQ	300m	0	7	4	74-09N	TO-116
62♦	T54LS09D2	TTL	AND	2	OC	2.0	0.7	11d		5.0	13n	44mQ	300m	5	C	4	74-09N	DIP14b
63♦	T74LS09B1	TTL	AND	2	OC	2.0	0.8	22d		5.0	13n	44mQ	300m	0	7	4	74-09N	DIP14a
64♦	T74LS09D1	TTL	AND	2	OC	2.0	0.8	22d		5.0	13n	44mQ	300m	0	7	4	74-09N	DIP14b
65▼	SN74ALS08D	TTL	AND	2		2.0	0.8			5.0	14n		0.4	0	7	4	74-08N	FP147
66♦	SN74ALS08N	TTL	AND	2		2.0	0.8			5.0	14n		0.4	0	7	4	74-08N	DIP14a
67♦	SP302A	TTL	AND	2		3.5	0.6C	12		5.0	15n	62m	1.8	0	7	4	G01-226a	TO-116
68♦	DM7819J	TTL	AND	2		2.0	0.8			5.0	16n	100m†		5	C	4	74-09N	DIP14a
69♦	DM7819N	TTL	AND	2		2.0	0.8			5.0	16n	100m†		5	C	4	74-09N	DIP14a
70♦	DM7819W	TTL	AND	2		2.0	0.8			5.0	16n	100m†		5	C	4	54S09W	FP97
71♦	DM8819J	TTL	AND	2		2.0	0.8			5.0	16n	100m†		0	7	4	74-09N	DIP14a
72♦	DM8819N	TTL	AND	2		2.0	0.8			5.0	16n	100m†		0	7	4	74-09N	DIP14a
73♦	DM8819W	TTL	AND	2		2.0	0.8			5.0	16n	100m†		0	7	4	54S09W	FP97
74♦	UPD74HC08C(A)	CMS	AND	2		4.2	1.2			5.0	17n	500m		4	8	4	74-08	MO001AA
75♦	DM54S09J	TTL	AND	2	OC	2.0	0.8	10		5.0	18n		0.3	5	C	4	54S09	DIP14a
76♦	DM74S09N	TTL	AND	2	OC	2.0	0.8	10		5.0	18n		0.3	0	7	4	74-09	DIP14a
77♦	SN54ALS08J	TTL	AND	2		2.0	0.7			5.0	18n		0.3	5	C	4	74-08N	DIP14a
78♦	MM74PC08J	CMS	AND	2		4.0	1.0			5.0	19n	500m		0	7	4	74-08N	DIP14b
79♦	MM74PC08JI	CMS	AND	2		4.0	1.0			5.0	19n	500m		4	8	4	74-08N	DIP14b
80♦	MM74PC08N	CMS	AND	2		4.0	1.0			5.0	19n	500m		0	7	4	74-08N	DIP14a
81♦	MM74PC08NI	CMS	AND	2		4.0	1.0			5.0	19n	500m		4	8	4	74-08N	DIP14a
82	74HC08D	CMS	AND	2		3.15	1.35	10		5.0	20n		1.2	4	8	4	54S08W	FP147
83♦	74HC08N	CMS	AND	2		3.15	1.35	10		5.0	20n		1.2	4	8	4	54S08W	DIP14a
84♦	CD74HC08E	CMS	AND	2		3.15	1.35	10		5.0	20n	500m	1.2	4	8	4	74-08N	MO001AB
85♦	CD74HC08M	CMS	AND	2		3.15	1.35	10		5.0	20n	400m	1.2	4	8	4	74-08N	FP147
86♦	CD74HCT08E	CMS	AND	2		2.0	0.8	10		5.0	20n	500m	0.7	4	8	4	74-08N	MO001AB
87♦	CD74HCT08M	CMS	AND	2		2.0	0.8	10		5.0	20n	400m	0.7	4	8	4	74-08N	FP147
88▼	HD74LS08G	TTL	AND	2		2.0	0.8			5.0	20n	400m	300m	2	7	4	74-08N	DIP14a
89♦	HD74LS08P	TTL	AND	2		2.0	0.8			5.0	20n	400m	300m	2	7	4	74-08N	DIP14a
90♦	LC74HC08	CMS	AND	2		3.5	1.5	10		5.0	20n	0.3	1.1	4	8	4	74-08	DIP14a
91♦	N74LS09F	TTL	AND	2	OC	2.0	0.8	20		5.0	20n	44m		0	7	4	74-09N	DIP14b
92♦	S54LS08W	TTL	AND	2		2.0	0.7			5.0	20n	44m	0.3	5	C	4	54S08W	FP153
93♦	CD54HC08F	CMS	AND	2		3.15	1.35	10		5.0	23n	500m	1.2	5	C	4	74-08N	MO001AB
94♦	CD54HCT08F	CMS	AND	2		2.0	0.8	10		5.0	23n	500m	0.7	5	C	4	74-08N	MO001AB
95▼	TC74HC08F(A)	CMS	AND	2		3.15	1.35	10d		5.0	23n	180m	1.4	4	8	4	74-08N	FP166
96▼	SN74HC08D	CMS	AND	2		3.15	0.9			5.0	25n			4	8	4	74-08N	FP147
97♦	SN74HC08N	CMS	AND	2		3.15	0.9			5.0	25n			4	8	4	74-08N	MO001AA
98♦	5408FM	TTL	AND	2		2.0	0.8	10		5.0	27n	165m		5	C	4	54S08W	FP21h
99♦	PC74HC08P	CMS	AND	2		3.15	1.35	10		5.0	27n	500m	0.8	4	C	4	74-08	DIP14b
100♦	PC74HC08T	CMS	AND	2		3.15	1.35	10		5.0	27n	300m	0.8	4	C	4	74-08	FP147
101♦	S5408W	TTL	AND	2		2.0	0.8	10		5.0	27n	130m	1.0 †	5	C	4	54S08W	FP39e
102♦	SFC408P	TTL	AND	2		2.0	0.8	10		5.0	27n	130mQ	400m	0	7	4	54S08W	TO-85
103♦	SFC408PM	TTL	AND	2		2.0	0.8	10		5.0	27n	130mQ	400m	5	C	4	54S08W	TO-85
104♦	TC40H008F	CMS	AND	2		4.0	1.0			10	29n	180m	.95	4	8	4	54S08W	FP166
105	74HCT08D	CMS	AND	2		2.0	0.8	10		5.0	30n		0.7	4	8	4	54S08W	FP147
106♦	74HCT08N	CMS	AND	2		2.0	0.8	10		5.0	30n		0.7	4	8	4	54S08W	DIP14a
107♦	DM54LS09J	TTL	AND	2	OC	2.0	0.7	10		5.0	30n		0.3	5	C	4	74-09	DIP14a
108♦	DM74LS09N	TTL	AND	2	OC	2.0	0.8	10		5.0	30n		0.3	0	7	4	74-09	DIP14a
109♦	MC1906F	DTL	AND	2		2.6	0.4C	8		5.0	30n			5	C	4	54S08w	TO-86
110♦	SN54HC08J	CMS	AND	2		3.15	0.9			5.0	30n			5	C	4	74-08N	MO001AA

5. GATES - AND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1▼	SN74HC09D	CMS	AND	2	OD	3.15	0.9	10		5.0	31n		1.2	4	8	4	74-09N	FP147
2▼	SN74HC09N	CMS	AND	2	OD	3.15	0.9	10		5.0	31n		1.2	4	8	4	74-09N	DIP14a
3♦	5409DM	TTL	AND	2	OC	2.0	0.8	10		5.0	32n	165m		5	C	4	74-09N	TO-116
4♦	5409FM	TTL	AND	2	OC	2.0	0.8	10		5.0	32n			5	C	4	54S09W	FP52
5♦	7409DC	TTL	AND	2	OC	2.0	0.8	10		5.0	32n	165m		0	7	4	74-09N	TO-116
6♦	7409PC	TTL	AND	2	OC	2.0	0.8	10		5.0	32n	165m		0	7	4	74-09N	DIP14a
7♦	DM5408W	TTL	AND	2		2.0	0.8	10		5.0	32n	660m	400m	5	C	4	54S08W	FP97a
8♦	DM5409J	TTL	AND	2	OC	2.0	0.8	10		5.0	32n	660m	400m	5	C	4	74-09N	DIP14a
9♦	DM5409W	TTL	AND	2	OC	2.0	0.8	10		5.0	32n	660m	400m	5	C	4	54S09W	FP97a
10♦	DM7409N	TTL	AND	2	OC	2.0	0.8	10		5.0	32n	660m	400m	0	7	4	74-09N	DIP14a
11♦	DS7819J(2)	TTL	AND	2		2.0	0.8			5.0	32n	165m		5	C	4	74-09N	DIP14a
12♦	DS8819J(2)	TTL	AND	2		2.0	0.8			5.0	32n	165m		0	7	4	74-09N	DIP14a
13♦	DS8819N(2)	TTL	AND	2		2.0	0.8			5.0	32n	165m		0	7	4	74-09N	DIP14a
14♦	M53209P	TTL	AND	2		2.0	0.8	10		5.0	32n	130mQ		0	7	4	74-09N	DIP14a
15♦	N7409F	TTL	AND	2	OC	2.0	0.8	10		5.0	32n	165m	1.0 †	0	7	4	74-09N	DIP14b
16♦	N7409N	TTL	AND	2	OC	2.0	0.8	10		5.0	32n	165m		0	7	4	74-09N	DIP14a
17♦	SFC409E	TTL	AND	2		2.0	0.8	10		5.0	32n	130mQ	400m	0	7	4	74-09N	TO-116
18♦	SFC409EM	TTL	AND	2		2.0	0.8	10		5.0	32n	130mQ	400m	5	C	4	74-09N	TO-116
19♦	SFC409ET	TTL	AND	2		2.0	0.8	10		5.0	32n	130mQ	400m	2	8	4	74-09N	TO-116
20♦	SFC409EV	TTL	AND	2		2.0	0.8	10		5.0	32n	130mQ	400m	4	8	4	74-09N	TO-116
21♦	SFC409P	TTL	AND	2		2.0	0.8	10		5.0	32n	130mQ	400m	0	7	4	54S09W	TO-85
22♦	SFC409PM	TTL	AND	2		2.0	0.8	10		5.0	32n	130mQ	400m	5	C	4	54S09w	TO-85
23♦	SN5409J	TTL	AND	2	OC	2.0	0.8	10		5.0	32n	165m	0.4	5	C	4	74-09N	DIP14a
24♦	SN7409N	TTL	AND	2	OC	2.0	0.8	10		5.0	32n	165m	0.4	0	7	4	74-09N	DIP14a
25♦	S5409F	TTL	AND	2	OC	2.0	0.8	10		5.0	34n	130m	1.0 †	5	C	4	74-09N	DIP14b
26♦	S5409W	TTL	AND	2	OC	2.0	0.8	10		5.0	34n	130m	1.0 †	5	C	4	54S09W	FP39e
27♦	DN74LS09P1	TTL	AND	2	OC	2.0	0.8	20		5.0	35n	400m		2	7	4	74-09	DIP14a
28♦	DN74LS09P4	TTL	AND	2	OC	2.0	0.8	20		5.0	35n	400m		2	7	4	74-09	FP177
29▼	HD74LS09G	TTL	AND	2	OC	2.0	0.8			5.0	35n	400m	300m	2	7	4	74-09N	DIP14a
30♦	HD74LS09P	TTL	AND	2	OC	2.0	0.8			5.0	35n	400m	300m	2	7	4	74-09N	DIP14a
31♦	M74LS09P	TTL	AND	2	OC	2.0	0.8	20		5.0	35n	20m†	0.4	2	7	4	74-09N	DIP14a
32♦	MB74LS09	TTL	AND	2	OC	2.0	0.8	20		5.0	35n	44m	1.0 *	2	7	4	74-09N	DIP14a
33♦	MB74LS09M	TTL	AND	2	OC	2.0	0.8	20		5.0	35n	44m	1.0 *	2	7	4	74-09N	DIP14a
34♦	MC1907F	DTL	AND	2		2.6	0.4C	7		5.0	35n			5	C	4	54S08w	TO-86
35♦	N74LS09N	TTL	AND	2	OC	2.0	0.8	20		5.0	35n	44m	0.4	0	7	4	74-09N	DIP14a
36♦	S54LS09F	TTL	AND	2	OC	2.0	0.7			5.0	35n	44m		5	C	4	74-09N	DIP14b
37♦	S54LS09W	TTL	AND	2	OC	2.0	0.7			5.0	35n	44m		5	C	4	54S09W	FP39e
38♦	SN54LS09J	TTL	AND	2	OC	2.0	0.7			5.0	35n		0.3	5	C	4	74-09	DIP14a
39▼	SN54LS09N	TTL	AND	2	OC	2.0	0.7			5.0	35n		0.3	5	C	4	74-09	DIP14a
40♦	SN74LS09D	TTL	AND	2	OC	2.0	0.8			5.0	35n		0.4	0	7	4	74-09	FP147
41♦	SN74LS09J	TTL	AND	2	OC	2.0	0.8			5.0	35n		0.4	0	7	4	74-09	DIP14a
42♦	SN74LS09N	TTL	AND	2	OC	2.0	0.8			5.0	35n		0.4	0	7	4	74-09	DIP14a
43♦	PC74HCT08P	CMS	AND	2		2.0	0.8	10		5.0	36n	500m	0.7	4	C	4	74-08	DIP14b
44♦	PC74HCT08T	CMS	AND	2		2.0	0.8	10		5.0	36n	300m	0.7	4	C	4	74-08	FP147
45▼	SN54HC09J	CMS	AND	2	OD	3.15	0.9	10		5.0	36n		1.2	5	C	4	74-09N	DIP14a
46♦	4081BDC	CMS	AND	2		11	4.0	25e		15	40n	450uQ	6.7	4	8	4	40-81B	TO-116
47♦	4081BDM	CMS	AND	2		11	4.0	25e		15	40n	450uQ	6.7	5	C	4	40-81B	TO-116
48♦	4081BFC	CMS	AND	2		11	4.0	25e		15	40n	450uQ	6.7	4	8	4	40-81B	FP21h
49♦	4081BFM	CMS	AND	2		11	4.0	25e		15	40n	450uQ	6.7	5	C	4	40-81B	FP21h
50♦	4081BPC	CMS	AND	2		11	4.0	25e		15	40n	450uQ	6.7	4	8	4	40-81B	DIP14a
51♦	HEF4081	CMS	AND	2		11	4.0	16e		15	40n	400m	6.7	4	8	4	40-81B	DL ☑
52♦	HEF4081BPN	CMS	AND	2		11.0	4.0	16e		15	40n	400m	6.7	4	8	4	40-81B	DIP14b
53♦	HEF4081BTD	CMS	AND	2		11.0	4.0	50e		15	40n	200m	6.7	4	8	4	40-81B	FP147
54♦	LC4081BM	CMS	AND	2		3.5	1.5		5.0	45n		150m		4	8	4	40-81B	FP151
55♦	HEF4081BD	CMS	AND	2		7.0	3.0			10	50n	500m		4	8	4	40-81B	DIP14a
56♦	HEF4081BP	CMS	AND	2		7.0	3.0			10	50n	500m		4	8	4	40-81B	DIP14a
57♦	HEF4081BT	CMS	AND	2		7.0	3.0			10	50n	400m		4	8	4	40-81B	FP147
58♦	HEF4081P	CMS	AND	2		7.0	3.0			10	50n	50uQ	4.5	4	8	4	40-81B	TO-116
59♦	DM74ALS09J	TTL	AND	2	OC	2.0	0.8	10		5.0	54n		0.3	0	7	4	74-09	DIP14a
60♦	DM74ALS09N	TTL	AND	2	OC	2.0	0.8	10		5.0	54n		0.3	0	7	4	74-09	DIP14a
61▼	SN74ALS09D	TTL	AND	2	OC	2.0	0.8			5.0	54n		0.4	0	7	4	74-09N	FP147
62♦	SN74ALS09N	TTL	AND	2	OC	2.0	0.8			5.0	54n		0.4	0	7	4	74-09N	DIP14a
63♦	M74ALS09P	TTL	AND	2	OC	2.0	0.8			5.0	55n	22m	0.4	2	7	4	74-09N	DIP14a
64♦	DM54ALS09J	TTL	AND	2	OC	2.0	0.8	10		5.0	59n		0.4	5	C	4	74-09	DIP14a
65♦	MN4081B	CMS	AND	2		11.0	4.0			15	60n	400m	3.9	4	8	4	40-81B	DIP14a
66♦	SN54ALS09J	TTL	AND	2	OC	2.0	0.7			5.0	69n		0.3	5	C	4	74-09N	DIP14a
67♦	CD4081BCJ	CMS	AND	2		11	4.0	16e		15	70n	60uQ	6.7	4	8	4	40-81B	DIP14a
68♦	CD4081BCN	CMS	AND	2		11	4.0	16e		15	70n	60uQ	6.7	4	8	4	40-81B	DIP14a
69♦	CD4081BMJ	CMS	AND	2		11	4.0	19e		15	70n	15uQ	6.7	5	C	4	40-81B	DIP14a
70♦	CD4081BMW	CMS	AND	2		11	4.0	19e		15	70n	15uQ	6.7	5	C	4	40-81B	FP97c
71♦	883C4081B	CMS	AND	2		8.21	6.7			15	90n	300m		5	C	4	40-81B	MO001AA
72♦	BCL4081B	CMS	AND	2		8.21	6.7			15	90n	300m		5	C	4	40-81B	MO001AA
73♦	DM54L08J	TTL	AND	2		2.0	0.7			5.0	90n		0.4	5	C	4	54S08	DIP14a
74♦	DM74L08N	TTL	AND	2		2.0	0.7			5.0	90n		0.3	0	7	4	74-08	DIP14a
75♦	MB84081B	CMS	AND	2		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	4	40-81B	DIP14b
76♦	MB84081BM	CMS	AND	2		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	4	40-81B	DIP14a
77♦	MC14081BAL	CMS	AND	2		11	4.0	50		15	100n	15uQ	2.5 *	5	C	4	40-81B	TO-116
78▼	MC14081BALD	CMS	AND	2		11	4.0	50		15	100n	15uQ	2.5 *	5	C	4	40-81B	TO-116
79▼	MC14081BALDS	CMS	AND	2		11	4.0	50		15	100n	15uQ	2.5 *	5	C	4	40-81B	TO-116
80▼	MC14081BALS	CMS	AND	2		11	4.0	50		15	100n	15uQ	2.5 *	5	C	4	40-81B	TO-116
81♦	MC14081BCL	CMS	AND	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-81B	TO-116
82▼	MC14081BCLD	CMS	AND	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-81B	TO-116
83▼	MC14081BCLDS	CMS	AND	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-81B	TO-116
84▼	MC14081BCLS	CMS	AND	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-81B	TO-116
85♦	MC14081BCP	CMS	AND	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-81B	TO-116
86▼	MC14081BCPD	CMS	AND	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-81B	TO-116
87▼	MC14081BCPDS	CMS	AND	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-81B	TO-116
88▼	MC14081BCPS	CMS	AND	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-81B	TO-116
89▼	MC14081BD	CMS	AND	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-81B	TO-116
90♦	CD4081BD	CMS	AND	2		7.0	3.0	18e		15	120n	500m	2.9	5	C	4	40-81B	MO001AD
91♦	CD4081BE	CMS	AND	2		7.0	3.0	18e		10	120n	500m	2.9	4	8	4	40-81B	MO001AB
92♦	CD4081BF	CMS	AND	2		7.0	3.0	18e		15	120n	500m	2.9	5	C	4	40-81B	MO001AB
93♦	SCL4081B	CMS	AND	2		7.0	3.0	50		15	120n	300m	3.0	5	C	4	40-81B	MO001AA
94♦	LC4081B	CMS	AND	2		2.5	1.5			8.0	125n	300m		4	8	4	40-81B	DIP14a
95♦	UPD4081BG	CMS	AND	2		11.0	4.0			15	130n	200m	3.9	4	8	4	40-81	FP161
96♦	M4081BP	CMS	AND	2		11	4.0			15	150n	500m	4.0	4	8	4	40-81B	DIP14a
97♦	TC4081BP	CMS	AND	2		14.9	.05C	50		15	150n	300m	4.0	4	8	4	40-81B	DIP14a
98♦	HCC4081BD	CMS	AND	2		10	0C	4		10	170n	200m	4.5	5	C	4	40-81B	DIP14a
99♦	HCC4081BF	CMS	AND	2		10	0C	4		10	170n	200m	4.5	5	C	4	40-81B	DIP14a
100♦	HCC4081BK	CMS	AND	2		10	0C	4		10	170n	200m	4.5	5	C	4	40-81B	FP130
101♦	HCF4081BE	CMS	AND	2		10	0C	4		10	170n	200m	4.5	4	8	4	40-81B	DIP14a
102♦	HCF4081BF	CMS	AND	2		10	0C	4		10	170n	200m	4.5	4	8	4	40-81B	DIP14a
103♦	MSM4081	CMS	AND	2		7.2	1.0*	16e		10	300n	300uQ	0.6	2	7	4	40-81B	DIP14a
104♦	MSM4081RS	CMS	AND	2		3.6	1.0	40		5.0	300n		0.6	4	8	4	40-81B	DIP14 ☑
105♦	F100104DC(A)	ECL	AND	2	CO	-1.1	-1.4		4.5		1.5n	50m		0	8	5	100-104	DIP24d
106♦	F100104FC(A)	ECL	AND	2	CO	-1.1	-1.4		4.5		1.5n	50m		0	8	5	100F104	FP187
107♦	MC10597F	ECL	AND	2		-1.1	-1.4		5.2		4.0n	255m	125m*	5	C	6	G01-256	FP85
108♦	MC10597L	ECL	AND	2		-1.1	-1.4		5.2		4.0n	255m	125m*	5	C	6	G01-256	DIP16a
109▼	MC10197FN	ECL	AND	2		-1.1	-1.4		5.2		5.0n	255m	125m*	3	8	6	G01-256	DIP16a
110♦	MC10197L	ECL	AND	2		-1.1	-1.4		5.2		5.0n	255m	125m*	3	8	6	G01-256	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - AND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1▼	MC10197LD	ECL	AND	2		-1.1	-1.4		5.2		5.0n	255m	125m*	3	8	6	G01-256	DIP16a
2▼	MC10197LDS	ECL	AND	2		-1.1	-1.4		5.2		5.0n	255m	125m*	3	8	6	G01-256	DIP16a
3♦	MC10197P	ECL	AND	2		-1.1	-1.4		5.2		5.0n	255m	125m*	3	8	6	G01-256	DIP16b
4▼	MC10197PD	ECL	AND	2		-1.1	-1.4		5.2		5.0n	255m	125m*	3	8	6	G01-256	DIP16b
5▼	MC10197PDS	ECL	AND	2		-1.1	-1.4		5.2		5.0n	255m	125m*	3	8	6	G01-256	DIP16b
6▼	953DC	BIP	AND	2/2/3				15	2.0	4.5		180m	500m	1	5	3	None	TO-116
7♦	ESM383	DTL	AND	3		17	12	10		32		900m		2	7	2	G01-287	TO-116
8♦	T54LS21D2	TTL	AND	3		2.0	0.7			5.0	10n	33mQ	300m	5	C	2	74H21N	DIP14b
9♦	RG80CJ	TTL	AND	3		3.4	0.2	15		5.0	11n	60m†	1.1	5	C	2	None	FP52j
10♦	RG80CK	TTL	AND	3		3.4	0.2	15		5.0	11n	60m†	1.1	5	C	2	None	FP52k
11♦	RG80DC	TTL	AND	3		3.4	0.2	15		5.0	11n	60m†	1.1	5	C	2	None	DIP14e
12♦	RG81CJ	TTL	AND	3		3.4	0.2	7		5.0	11n	60m†	1.1	5	C	2	None	FP52j
13♦	RG81CK	TTL	AND	3		3.4	0.2	7		5.0	11n	60m†	1.1	5	C	2	None	FP52k
14♦	RG81DC	TTL	AND	3		3.4	0.2	7		5.0	11n	60m†	1.1	5	C	2	None	DIP14e
15♦	RG82CJ	TTL	AND	3		3.4	0.2	12		5.0	11n	60m†	1.1	0	7	2	None	FP52j
16♦	RG82CK	TTL	AND	3		3.4	0.2	12		5.0	11n	60m†	1.1	0	7	2	None	FP52k
17♦	RG82DC	TTL	AND	3		3.4	0.2	12		5.0	11n	60m†	1.1	0	7	2	None	DIP14e
18♦	RG83CJ	TTL	AND	3		3.4	0.2	6		5.0	11n	60m†	1.1	0	7	2	None	FP52j
19♦	RG83CK	TTL	AND	3		3.4	0.2	6		5.0	11n	60m†	1.1	0	7	2	None	FP52k
20♦	RG83DC	TTL	AND	3		3.4	0.2	6		5.0	11n	60m†	1.1	0	7	2	None	DIP14e
21♦	SP306A	DTL	AND	3				1		5.0	35n	5.0m	1.0	0	7	2	None	DIP14a
22♦	54F11DM	TTL	AND	3		2.0	0.8	12		5.0		49m		5	C	3	74-11N	DIP14b
23♦	54F11L1M	TTL	AND	3		2.0	0.8			5.0		7.0n		5	C	3	G01-316	LC19
24♦	54H11DM	TTL	AND	3		2.0	0.8	10		5.0		240m	1.0	5	C	3	74-11N	TO-116
25♦	54H61DM	TTL	AND	3	XO	2.0	0.8			5.0		80m	1.0	5	C	3	74H61N	TO-116
26♦	54H61FM	TTL	AND	3	XO	2.0	0.8			5.0		80m	1.0	5	C	3	54H61W	FP21h
27♦	54LS11DM	TTL	AND	3		2.0	0.7			5.0		33mQ	300m	5	C	3	74-11N	TO-116
28♦	54S11DM	TTL	AND	3		2.0	0.8	10		5.0		210m	1.0	5	C	3	74-11N	TO-116
29♦	54S15DM	TTL	AND	3	OC	2.0	.50	12		5.0		9.0n		5	C	3	74H15N	DIP14a
30♦	74F11DC	TTL	AND	3		2.0	0.8	12		5.0		49m		0	7	3	74-11N	DIP14b
31♦	74F11L1C	TTL	AND	3		2.0	0.8			5.0		6.0n		0	7	3	G01-316	LC19
32♦	74F11PC	TTL	AND	3		2.0	0.8	12		5.0		49m		0	7	3	74-11N	DIP14a
33♦	74F11QC	TTL	AND	3		2.0	0.8			5.0		6.0n		0	7	3	G01-316	LC26
34♦	74H11DC	TTL	AND	3		2.0	0.8	10		5.0		120m†	1.0	0	7	3	74-11N	TO-116
35♦	74H11PC	TTL	AND	3		2.0	0.8	10		5.0		120m†	1.0	0	7	3	74-11N	DIP14a
36♦	74H61DC	TTL	AND	3	XO	2.0	0.8			5.0		80m	1.0	0	7	3	74H61N	TO-116
37♦	74H61PC	TTL	ANDOR	3	XO	2.0	0.8			5.0		80m	1.0	0	7	3	74H61N	DIP14a
38♦	74LS11DC	TTL	AND	3		2.0	0.8	5		5.0		33mQ	300m	0	7	3	74-11N	TO-116
39♦	74LS11PC	TTL	AND	3		2.0	0.8	5		5.0		33mQ	300m	0	7	3	74-11N	TO-116
40♦	74LS15PC	TTL	AND	3	OC	2.0	0.8	5		5.0		33mQ	300m	0	7	3	74H15N	TO-116
41♦	74S11DC	TTL	AND	3		2.0	0.8	20		5.0		210m	1.0	0	7	3	74-11N	TO-116
42♦	74S11PC	TTL	AND	3		20	.50	20		5.0		7.0n				3	74-11N	DIP14a
43♦	74S15PC	TTL	AND	3	OC	2.0	0.4	12		5.0		9.0n		0	7	3	74H15N	DIP14a
44♦	5411DM	TTL	AND	3		2.0	0.4	20		5.0		27n				3	74-11N	DIP14a
45♦	7411DC	TTL	AND	3		2.0	0.4	20		5.0		27n		0	7	3	74-11N	DIP14a
46♦	7411PC	TTL	AND	3		2.0	0.4	20		5.0		27n		0	7	3	74-11N	DIP14a
47♦	DM54ALS11AJ	TTL	AND	3		2.0	0.8	10		5.0		16n	0.4	5	C	3	74-11	DIP14a
48♦	DM54ALS15J	TTL	AND	3	OC	2.0	0.8	10		5.0		50n	0.4	5	C	3	74-15	DIP14a
49♦	DM54AS11J	TTL	AND	3		2.0	0.8	50		5.0		6.5n	0.3	5	C	3	74-11	DIP14a
50♦	DM54H11J	TTL	AND	3		2.0	0.8	10		5.0		12n		5	C	3	74-11N	DIP14a
51♦	DM54LS11J	TTL	AND	3		2.0	0.7	10		5.0		18n	0.3	5	C	3	74-11	DIP14a
52♦	DM54LS15J	TTL	AND	3		2.0	0.7	10		5.0		30n	0.3	5	C	3	74-15	DIP14a
53♦	DM74ALS11AJ	TTL	AND	3		2.0	0.8	10		5.0		13n	0.3	0	7	3	74-11	DIP14a
54♦	DM74ALS11AN	TTL	AND	3		2.0	0.8	10		5.0		13n	0.3	0	7	3	74-11	DIP14a
55♦	DM74ALS15J	TTL	AND	3	OC	2.0	0.8	10		5.0		45n	0.3	0	7	3	74-15	DIP14a
56♦	DM74ALS15N	TTL	AND	3	OC	2.0	0.8	10		5.0		45n	0.3	0	7	3	74-15	DIP14a
57♦	DM74AS11J	TTL	AND	3		2.0	0.8	50		5.0		5.5n	0.3	0	7	3	74-11	DIP14a
58♦	DM74AS11N	TTL	AND	3		2.0	0.8	50		5.0		5.5n	0.3	0	7	3	74-11	DIP14a
59♦	DM74H11N	TTL	AND	3		2.0	0.8	10		5.0		12n		0	7	3	74-11N	DIP14a
60♦	DM74LS11N	TTL	AND	3		2.0	0.8	10		5.0		18n	0.3	0	7	3	74-11	DIP14a
61♦	DM74LS15N	TTL	AND	3	OC	2.0	0.8	10		5.0		30n	0.3	0	7	3	74-15	DIP14a
62♦	DM74S11N	TTL	AND	3		2.0	0.8	10		5.0		96m†		0	7	3	74-11N	DIP14a
63♦	DM74S15N	TTL	AND	3	OC	2.0	0.8	10		5.0		87m†		0	7	3	74H15N	DIP14a
64♦	DM5411J	TTL	AND	3		2.0	0.8	10		5.0		330m	400m	5	C	3	74-11N	DIP14a
65♦	DM7411N	TTL	AND	3		2.0	0.8	10		5.0		330m	400m	0	7	3	74-11N	DIP14a
66♦	DN74LS11P1	TTL	AND	3		2.0	0.8	20		5.0		400m		2	7	3	74-11	DIP14a
67♦	DN74LS11P4	TTL	AND	3		2.0	0.8	20		5.0		400m		2	7	3	74-11	FP177
68♦	DN74LS15P1	TTL	AND	3	OC	2.0	0.8	20		5.0		400m		2	7	3	74-15	DIP14a
69♦	DN74LS15P4	TTL	AND	3	OC	2.0	0.8	20		5.0		400m		2	7	3	74-15	FP177
70♦	M54HC11F1(A)	CMS	AND	3		3.15	1.35	10		5.0		500m	1.2	5	C	3	74-11	DIP14a
71♦	M74ALS11P	TTL	AND	3		2.0	0.8			5.0		17m	0.4	2	7	3	74-11N	DIP14a
72♦	M74ALS15P	TTL	AND	3	OC	2.0	0.8			5.0		17m	0.4	2	7	3	74H15N	DIP14a
73♦	M74HC11B1(A)	CMS	AND	3		3.15	1.35	10		5.0		500m	1.2	4	8	3	74-11	DIP14a
74♦	M74HC11C1(A)	CMS	AND	3		3.15	1.35	10		5.0		500m	1.2	4	8	3	G01-316	LC33
75♦	M74HC11F1(A)	CMS	AND	3		3.15	1.35	10		5.0		500m	1.2	4	8	3	74-11	DIP14a
76♦	M74LS11P	TTL	AND	3		2.0	0.8	20		5.0		13m†	0.4	2	7	3	74-11N	DIP14a
77♦	M74LS15P	TTL	AND	3	OC	2.0	0.8	20		5.0		13m†	0.4	2	7	3	74H15N	DIP14a
78♦	MB74LS11	TTL	AND	3		2.0	0.8	20		5.0		33m	1.0 *	2	7	3	74-11N	DIP14a
79♦	MB74LS11M	TTL	AND	3		2.0	0.8	20		5.0		33m	1.0 *	2	7	3	74-11N	DIP14a
80♦	MB74LS15	TTL	AND	3	OC	2.0	0.8	20		5.0		33m	1.0 *	2	7	3	74H15N	DIP14a
81♦	MB74LS15M	TTL	AND	3	OC	2.0	0.8	20		5.0		33m	1.0 *	2	7	3	74H15N	DIP14a
82♦	MC54F11J(A)	TTL	AND	3		2.0	0.8	12a		5.0		5.6n	0.3	5	C	3	74-11N	DIP14a
83▼	MC54F11N(A)	TTL	AND	3		2.0	0.8	12a		5.0		5.6n	0.3	5	C	3	74-11N	DIP14a
84♦	MC54HC11J(A)	CMS	AND	3		3.15	0.9	10		5.0		500m	1.3	5	C	3	74-11	DIP14a
85♦	MC74F11J(A)	TTL	AND	3		2.0	0.8	12a		5.0		5.6n	0.3	0	7	3	74-11N	DIP14a
86♦	MC74F11N(A)	TTL	AND	3		2.0	0.8	12a		5.0		5.6n	0.3	0	7	3	74-11N	DIP14a
87♦	MC74HC11J(A)	CMS	AND	3		3.15	0.9	10		5.0		500m	1.3	4	8	3	74-11	DIP14a
88♦	MC74HC11N(A)	CMS	AND	3		3.15	0.9	10		5.0		500m	1.3	4	8	3	74-11	DIP14a
89♦	N74H11F	TTL	AND	3		2.0	0.8	10		5.0		240m		0	7	3	74-11N	DIP14b
90♦	N74H11N	TTL	AND	3		2.0	0.8	10		5.0		240m		0	7	3	74-11N	DIP14a
91♦	N74H61F	TTL	AND	3	XO	2.0	0.8			5.0		80m		0	7	3	74H61N	DIP14b
92♦	N74H61N	TTL	AND	3	XO	2.0	0.8			5.0		80m		0	7	3	74H61N	DIP14a
93♦	N74LS11D	TTL	AND	3		2.0	0.7			5.0		33m	0.3	0	7	3	74-11N	FP147
94♦	N74LS11N	TTL	AND	3		2.0	0.7	20		5.0		33m	0.3	0	7	3	74-11N	DIP14a
95♦	N74LS15F	TTL	AND	3	OC	2.0	0.8	20		5.0		33m		0	7	3	74H15N	DIP14b
96♦	N74LS15N	TTL	AND	3	OC	2.0	0.8	20		5.0		33m		0	7	3	74H15N	DIP14a
97♦	N74S11D	TTL	AND	3		2.0	0.8	10		5.0		210m	0.4	0	7	3	74-11N	FP147
98♦	N74S11N	TTL	AND	3		2.0	0.8	10		5.0		210m	0.4	0	7	3	74-11N	DIP14a
99♦	N74S15F	TTL	AND	3	OC	2.0	0.8	10		5.0		210m	1.0 †	0	7	3	74H15N	DIP14b
100♦	N74S15N	TTL	AND	3	OC	2.0	0.8	10		5.0		210m		0	7	3	74H15N	DIP14a
101♦	N7411F	TTL	AND	3		2.0	0.8	10		5.0		100m	1.0 †	0	7	3	74-11N	DIP14b
102♦	N7411N	TTL	AND	3		2.0	0.8	10		5.0		100m	0.4	0	7	3	74-11N	DIP14a
103♦	PC54HC11D(A)	CMS	AND	3		3.15	0.9	10		5.0		500m	0.8	5	C	3	74-11	DIP14b
104♦	PC54HCT11D(A)	CMS	AND	3		2.0	0.8	10		5.0		500m	0.7	5	C	3	74-11	DIP14b
105♦	PC74HC11D(A)	CMS	AND	3		3.15	0.9	10		5.0		500m	0.8	4	8	3	74-11	DIP14b
106♦	PC74HCT11D(A)	CMS	AND	3		2.0	0.8	10		5.0		500m	0.7	4	8	3	74-11	DIP14b
107♦	S54F11F	TTL	AND	3		2.0	0.8			5.0		7.5n	300m	5	C	3	74-11N	DIP14b
108♦	S54H11F	TTL	AND	3		2.0	0.8	10		5.0		240m		5	C	3	74-11N	DIP14b
109♦	S54H61F	TTL	AND	3	XO	2.0	0.8			5.0		80m		5	C	3	74H61N	DIP14b
110♦	S54H61W	TTL	AND	3	XO	2.0	0.8			5.0		80m		5	C	3	54H61W	FP39e

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - AND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	S54LS11F	TTL	AND	3		2.0	0.7			5.0		33m		5	C	3	74-11N	DIP14b
2♦	S54LS15F	TTL	AND	3	OC	2.0	0.7			5.0		33m		5	C	3	74H15N	DIP14b
3♦	S54S11F	TTL	AND	3		2.0	0.8	10		5.0		210m	0.4	5	C	3	74-11N	DIP14b
4♦	S54S15F	TTL	AND	3	OC	2.0	0.8	10		5.0		210m		5	C	3	74H15N	DIP14b
5♦	S5411F	TTL	AND	3		2.0	0.8	10		5.0		100m	0.4	5	C	3	74-11N	DIP14b
6♦	SFC411HE	TTL	AND	3		2.0	0.8	20		5.0		60m†	400m	0	7	3	74-11N	TO-116
7♦	SFC411HEM	TTL	AND	3		2.0	0.8	20		5.0		60m†	400m	5	C	3	74-11N	TO-116
8♦	SN54LS11J	TTL	AND	3		2.0	0.7			5.0		20n	0.3	5	C	3	74-11N	DIP14a
9▼	SN54LS11N	TTL	AND	3		2.0	0.7			5.0		20n	0.3	5	C	3	74-11N	DIP14a
10♦	SN54LS15J	TTL	AND	3	OC	2.0	0.7			5.0		35n	0.3	5	C	3	74H15N	DIP14a
11▼	SN54LS15N	TTL	AND	3	OC	2.0	0.7			5.0		35n	0.3	5	C	3	74H15N	DIP14a
12♦	SN54S11J	TTL	AND	3		2.0	0.8	20		5.0		210m	0.3	5	C	3	74-11N	DIP14a
13♦	SN74H11N	TTL	AND	3		2.0	0.8	10		5.0		120m†	0.4	0	7	3	74-11N	DIP14a
14♦	SN74H61N	TTL	AND	3	XO	2.0	0.8			5.0		80m	0.2	0	7	3	74H61N	DIP14a
15♦	SN74LS11D	TTL	AND	3		2.0	0.8			5.0		20n	0.4	0	7	3	74-11	FP147
16♦	SN74LS11J	TTL	AND	3		2.0	0.8			5.0		20n	0.4	0	7	3	74-11N	DIP14a
17♦	SN74LS11N	TTL	AND	3		2.0	0.8			5.0		20n	0.4	0	7	3	74-11N	DIP14a
18♦	SN74LS15D	TTL	AND	3	OC	2.0	0.8			5.0		35n	0.4	0	7	3	74H15	FP147
19♦	SN74LS15J	TTL	AND	3	OC	2.0	0.8			5.0		35n	0.4	0	7	3	74H15N	DIP14a
20♦	SN74LS15N	TTL	AND	3	OC	2.0	0.8			5.0		35n	0.4	0	7	3	74H15N	DIP14a
21♦	SN74S11D	TTL	AND	3		2.0	0.8			5.0		7.5n	0.3	0	7	3	74-11	FP147
22♦	SN74S11N	TTL	AND	3		2.0	0.8	20		5.0		210m	0.3	0	7	3	74-11N	DIP14a
23♦	SN74S15D	TTL	AND	3	OC	2.0	0.8			5.0		9.0n	0.3	0	7	3	74H15	FP147
24♦	SN74S15N	TTL	AND	3	OC	2.0	0.8	10		5.0		87m†	0.3	0	7	3	74H15N	DIP14a
25♦	T54LS11D2	TTL	AND	3		2.0	0.7*			5.0		33mQ	300m	5	C	3	74-11N	DIP14b
26♦	T54LS15D2	TTL	AND	3	OC	2.0	0.7	25		5.0		33mQ	300m	5	C	3	74H15N	DIP14b
27♦	T74LS11B1	TTL	AND	3		2.0	0.8	5		5.0		33mQ	300m	0	7	3	74-11N	DIP14a
28♦	T74LS11D1	TTL	AND	3		2.0	0.8	5		5.0		33mQ	300m	0	7	3	74-11N	DIP14b
29♦	T74LS15B1	TTL	AND	3	OC	2.0	0.8	5		5.0		33mQ	300m	0	7	3	74H15N	DIP14a
30♦	T74LS15D1	TTL	AND	3	OC	2.0	0.8	5		5.0		33mQ	300m	0	7	3	74H15N	DIP14b
31♦	TC40H011P	CMS	AND	3		4.0	1.0	50		10		300m	.95	4	8	3	74-11N	MO001AA
32♦	US74HCT11N(A)	CMS	AND	3		2.0	0.8	10		5.0		500m	750m	4	8	3	74-11N	DIP14 ☑
33♦	964DC		AND	3				11	2.0	4.5	3.0n	1.0		1	5	3	G01-177a	TO-116
34♦	54S11FM	TTL	AND	3		2.0	0.8	10		5.0	5.0n	210m	1.0	5	C	3	54S11W	FP21h
35♦	N74F11F	TTL	AND	3		2.0	0.8			5.0	5.6n			0	7	3	74-11N	DIP14a
36	S54F11W	TTL	AND	3		2.0	0.8		-0.5	5.0	5.6n			5	C	3	54S11W	FP153
37♦	74F11SC	TTL	AND	3		2.0	0.8			5.0	6.0n			0	7	3	54S11	FP147
38▼	SN74AS11D	TTL	AND	3		2.0	0.8			5.0	6.0n		0.3	0	7	3	74-11N	FP147
39♦	SN74AS11N	TTL	AND	3		2.0	0.8			5.0	6.0n		0.3	0	7	3	74-11N	DIP14a
40♦	N74F11D	TTL	NAND	3		2.0	0.8			5.0	6.6n			0	7	3	74-11	FP147
41♦	N74F11N	TTL	AND	3		2.0	0.8			5.0	6.6n			0	7	3	74-11	DIP14a
42♦	54F11FM	TTL	AND	3		2.0	0.8	12		5.0	7.0n	49m		5	C	3	54S11W	FP115
43♦	S54F11G	TTL	AND	3		2.0	0.8			5.0	7.5n		300m	5	C	3	G04-543	LC24
44♦	S54S11W	TTL	AND	3		2.0	0.8	10		5.0	7.5n	210m	0.4	5	C	3	54S11W	FP153
45♦	54LS11FM	TTL	AND	3		2.0	0.7			5.0	8.5n	33mQ	300m	5	C	3	54S11W	TO-86
46♦	54S15FM	TTL	AND	3	OC	2.0	0.7	12		5.0	9.0n			5	C	3	54H15W	FP52
47▼	HD74HC11FP	CMS	AND	3		3.15	1.35			5.0	9.0n	500m	1.2	4	8	3	74-11N	FP161
48▼	HD74HC11P	CMS	AND	3		3.15	1.35			5.0	9.0n	500m	1.2	4	8	3	74-11N	DIP14a
49♦	S54S15W	TTL	AND	3	OC	2.0	0.8	10		5.0	9.0n	210m		5	C	3	54H15W	FP39e
50♦	DM54S11J	TTL	AND	3		2.0	0.8	20		5.0	11n		0.3	5	C	3	54S11	DIP14a
51♦	54H11FM	TTL	AND	3		2.0	0.8	10		5.0	12n	240m	1.0	5	C	3	54H11W	FP21h
52♦	S54H11W	TTL	AND	3		2.0	0.8	10		5.0	12n	240m		5	C	3	54H11W	FP39e
53♦	SFC411HP	TTL	AND	3		2.0	0.8	20		5.0	12n	60m†	400m	0	7	3	54S11W	TO-85
54♦	SFC411HPM	TTL	AND	3		2.0	0.8	20		5.0	12n	60m†	400m	5	C	3	54H11W	TO-85
55♦	UPD74HC11C(A)	CMS	AND	3		4.2	1.2			5.0	12n	500m		4	8	3	74S11	MO001AA
56♦	54LS15FM	TTL	AND	3	OC	2.0	0.7			5.0	13n	33mQ	300m	5	C	3	54H15W	TO-86
57♦	DM54S15J	TTL	AND	3	OC	2.0	0.8	10		5.0	13n		0.3	5	C	3	54H15	DIP14a
58♦	M74ALS11AP	TTL	AND	3		2.0	0.8			5.0	13n	16m		2	7	3	74-11	DIP14a
59▼	SN74ALS11AD	TTL	AND	3		2.0	0.8			5.0	13n		0.4	0	7	3	74-11	FP147
60♦	SN74ALS11AN	TTL	AND	3		2.0	0.8			5.0	13n		0.4	0	7	3	74-11	DIP14a
61♦	SN54ALS11AJ	TTL	AND	3		2.0	0.7			5.0	17n		0.3	5	C	3	74-11	DIP14a
62▼	HD74LS11G	TTL	AND	3		2.0	0.8			5.0	20n	400m	300m	2	7	3	74-11N	DIP14a
63♦	HD74LS11P	TTL	AND	3		2.0	0.8			5.0	20n	400m	300m	2	7	3	74-11N	DIP14a
64♦	LC74HC11	CMS	AND	3		3.5	1.5	10		5.0	20n	0.3	1.1	4	8	3	74-11	DIP14a
65♦	S54LS11W	TTL	AND	3		2.0	0.7			5.0	20n	33m		5	C	3	54S11W	FP153
66	74HC11D	CMS	AND	3		3.15	1.35	10		5.0	21n		1.2	4	8	3	54S11W	FP147
67♦	74HC11N	CMS	AND	3		3.15	1.35	10		5.0	21n		1.2	4	8	3	54S11W	DIP14a
68♦	CD74HC11E	CMS	AND	3		3.15	1.35	10		5.0	21n	500m	1.2	4	8	3	74-11N	MO001AB
69♦	CD74HC11M	CMS	AND	3		3.15	1.35	10		5.0	21n	400m	1.2	4	8	3	74-11N	FP147
70♦	CD74HCT11E	CMS	AND	3		2.00	0.80	10		5.0	21n	500m	0.7	4	8	3	74-11N	MO001AB
71♦	CD74HCT11M	CMS	AND	3		2.0	0.8	10		5.0	21n	400m	0.7	4	8	3	74-11N	FP147
72▼	SN74HC11D	CMS	AND	3		3.15	0.9			5.0	25n			4	8	3	74-11N	FP147
73♦	SN74HC11N	CMS	AND	3		3.15	0.9			5.0	25n			4	8	3	74-11N	MO001AA
74♦	CD54HC11F	CMS	AND	3		3.15	1.35	10		5.0	26n	500m	1.2	5	C	3	74-11N	MO001AB
75♦	CD54HCT11F	CMS	AND	3		2.00	0.80	10		5.0	26n	500m	0.7	5	C	3	74-11N	MO001AB
76♦	5411FM	TTL	AND	3		20	0.4	20		5.0	27n					3	54H11W	FP52
77♦	S5411W	TTL	AND	3		2.0	0.8	10		5.0	27n	100m	0.4	5	C	3	54H11W	FP153
78▼	TC74HC11F(A)	CMS	AND	3		3.15	1.35	10d		5.0	28n	180m	1.3	4	8	3	74-11N	FP166
79♦	TC74HC11P(A)	CMS	AND	3		3.15	1.35	10d		5.0	28n	500m	1.4	4	8	3	74-11N	MO001AA
80♦	PC74HC11P	CMS	AND	3		3.15	1.35	10		5.0	30n	500m	0.8	4	C	3	74-11	DIP14b
81♦	PC74HC11T	CMS	AND	3		3.15	1.35	10		5.0	30n	300m	0.8	4	C	3	74-11	FP147
82♦	SN54HC11J	CMS	AND	3		3.15	0.9			5.0	30n			5	C	3	74-11N	MO001AA
83♦	TC40H011F	CMS	AND	3		4.0	1.0			10	32n	180m	.95	4	8	3	54H11W	FP166
84	74HCT11D	CMS	AND	3		2.0	0.8	10		5.0	35n		0.7	4	8	3	54S11W	FP147
85♦	74HCT11N	CMS	AND	3		2.0	0.8	10		5.0	35n		0.7	4	8	3	54S11W	DIP14a
86▼	HD74LS15G	TTL	AND	3	OC	2.0	0.8			5.0	35n	400m	300m	2	7	3	74H15N	DIP14a
87♦	HD74LS15P	TTL	AND	3	OC	2.0	0.8			5.0	35n	400m	300m	2	7	3	74H15N	DIP14a
88♦	HEF4073B	CMS	AND	3		9.95	.05C			10	35n	15uQ		4	8	3	40-73B	TO-116
89♦	HEF4073P	CMS	AND	3		9.95	.05C			10	35n	300uQ		4	8	3	40-73B	DIP14b
90♦	S54LS15W	TTL	AND	3	OC	2.0	0.7			5.0	35n	33m		5	C	3	54H15W	FP39e
91♦	HEF4073	CMS	AND	3		11	4.0	16e		15	40n	400m	6.7	4	8	3	40-73B	DL ☑
92♦	HEF4073BPN	CMS	AND	3		11.0	4.0	16e		15	40n	400m	6.7	4	8	3	40-73B	DIP14b
93♦	HEF4073BTD	CMS	AND	3		11.0	4.0	50e		15	40n	200m	6.7	4	8	3	40-73B	FP147
94♦	PC74HCT11P	CMS	AND	3		2.0	0.8	10		5.0	42n	500m	0.7	4	C	3	74-11	DIP14b
95♦	PC74HCT11T	CMS	AND	3		2.0	0.8	10		5.0	42n	300m	0.7	4	C	3	74-11	FP147
96♦	4073BDC	CMS	AND	3		11	4.0	25e		15	44n	450uQ	6.7	4	8	3	40-73B	TO-116
97♦	4073BDM	CMS	AND	3		11	4.0	25e		15	44n	450uQ	6.7	5	C	3	40-73B	TO-116
98♦	4073BFC	CMS	AND	3		11	4.0	25e		15	44n	450uQ	6.7	4	8	3	40-73B	FP21h
99♦	4073BFM	CMS	AND	3		11	4.0	25e		15	44n	450uQ	6.7	5	C	3	40-73B	FP21h
100♦	4073BPC	CMS	AND	3		11	4.0	25e		15	44n	450uQ	6.7	4	8	3	40-73B	DIP14a
101♦	M74ALS15AP	TTL	AND	3	OC	2.0	0.8			5.0	45n	16m		2	7	3	74-15	DIP14a
102▼	SN74ALS15AD	TTL	AND	3	OC	2.0	0.8			5.0	45n	30n	0.4	0	7	3	74H15N	FP147
103▼	SN74ALS15AN	TTL	AND	3	OC	2.0	0.8			5.0	45n	30n	0.4	0	7	3	74H15N	DIP14a
104♦	HEF4073BD	CMS	AND	3		7.0	3.0			10	50n	500m		4	8	3	40-73B	DIP14a
105♦	HEF4073BP	CMS	AND	3		7.0	3.0			10	50n	500m		4	8	3	40-73B	DIP14a
106♦	HEF4073BT	CMS	AND	3		7.0	3.0			10	50n	400m		4	8	3	40-73B	FP147
107▼	SN54ALS15AJ	TTL	AND	3	OC	2.0	0.7			5.0	59n	30n	0.3	5	C	3	74H15N	DIP14a
108♦	MN4073B	CMS	AND	3		11.0	4.0			15	60n	400m	3.9	4	8	3	40-73B	DIP14a
109♦	CD4073BCJ	CMS	AND	3		11	4.0	16e		15	70n	60uQ	6.7	4	8	3	40-73B	DIP14a
110♦	CD4073BCN	CMS	AND	3		11	4.0	16e		15	70n	60uQ	6.7	4	8	3	40-73B	DIP14a

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	CD4073BMJ	CMS	AND	3		11	4.0	19e		15	70n	15uQ	6.7	5	C	3	40-73B	DIP14a
2♦	CD4073BMW	CMS	AND	3		11	4.0	19e		15	70n	15uQ	6.7	5	C	3	40-73B	FP97c
3♦	883C4073B	CMS	AND	3		8.2	6.7			15	90n	300m		5	C	3	40-73B	MO001AA
4♦	BCL4073B	CMS	AND	3		8.2	6.7			15	90n	300m		5	C	3	40-73B	MO001AA
5♦	DM54L11J	TTL	AND	3		2.0	0.7			5.0	90n		0.4	5	C	3	54S11	DIP14a
6♦	MB84073B	CMS	AND	3		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	3	40-73B	DIP14 ☑
7♦	MB84073BM	CMS	AND	3		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	3	40-73B	DIP14a
8♦	MC14073BAL	CMS	AND	3		14.9	.05C	50		15	100n	15uQ	2.5 *	5	C	3	40-73B	TO-116
9▼	MC14073BALD	CMS	AND	3		14.9	.05C	50		15	100n	15uQ	2.5 *	5	C	3	40-73B	TO-116
10▼	MC14073BALDS	CMS	AND	3		14.9	.05C	50		15	100n	15uQ	2.5 *	5	C	3	40-73B	TO-116
11▼	MC14073BALS	CMS	AND	3		14.9	.05C	50		15	100n	15uQ	2.5 *	5	C	3	40-73B	TO-116
12♦	MC14073BCL	CMS	AND	3		14.9	.05C	50		15	100n	60uQ	2.5 *	4	8	3	40-73B	TO-116
13▼	MC14073BCLD	CMS	AND	3		14.9	.05C	50		15	100n	60uQ	2.5 *	4	8	3	40-73B	TO-116
14▼	MC14073BCLDS	CMS	AND	3		14.9	.05C	50		15	100n	60uQ	2.5 *	4	8	3	40-73B	TO-116
15▼	MC14073BCLS	CMS	AND	3		14.9	.05C	50		15	100n	60uQ	2.5 *	4	8	3	40-73B	TO-116
16♦	MC14073BCP	CMS	AND	3		14.9	.05C	50		15	100n	60uQ	2.5 *	4	8	3	40-73B	TO-116
17▼	MC14073BCPD	CMS	AND	3		14.9	.05C	50		15	100n	60uQ	2.5 *	4	8	3	40-73B	TO-116
18▼	MC14073BCPDS	CMS	AND	3		14.9	.05C	50		15	100n	60uQ	2.5 *	4	8	3	40-73B	TO-116
19▼	MC14073BCPS	CMS	AND	3		14.9	.05C	50		15	100n	60uQ	2.5 *	4	8	3	40-73B	TO-116
20▼	MC14073BD	CMS	AND	3		14.9	.05C	50		15	100n	60uQ	2.5 *	4	8	3	40-73B	TO-116
21♦	CD4073BD	CMS	AND	3		7.0	3.0	18e		15	120n	500m	2.9	5	C	3	40-73B	MO001AD
22♦	CD4073BE	CMS	AND	3		7.0	3.0	18e		15	120n	500m	2.9	4	8	3	40-73B	MO001AB
23♦	CD4073BF	CMS	AND	3		7.0	3.0	18e		15	120n	500m	2.9	5	C	3	40-73B	MO001AB
24♦	SCL4073B	CMS	AND	3		7.0	3.0	50		15	120n	300m	3.0	5	C	3	40-73B	MO001AA
25♦	LC4073B	CMS	AND	3		11.0	4.0			15	150n	300m	3.9	4	8	3	40-73B	DIP14a
26♦	M4073BP	CMS	AND	3		11.0	4.0	50		15	150n	0.5	4.0 *	4	8	3	40-73B	DIP14a
27♦	TC4073BP	CMS	AND	3		14.9	.05C	50		15	150n	300m	4.0	4	8	3	40-73B	DIP14a
28♦	HCC4073BD	CMS	AND	3		10	0	3		10	170n	200m	4.5	5	C	3	40-73B	DIP14a
29♦	HCC4073BF	CMS	AND	3		10	0	3		10	170n	200m	4.5	5	C	3	40-73B	DIP14a
30♦	HCC4073BK	CMS	AND	3		10	0	3		10	170n	200m	4.5	5	C	3	40-73B	FP130
31♦	HCF4073BE	CMS	AND	3		10	0	3		10	170n	200m	4.5	4	8	3	40-73B	DIP14a
32♦	HCF4073BF	CMS	AND	3		10	0	3		10	170n	200m	4.5	4	8	3	40-73B	DIP14a
33♦	FZH251	DTL	AND	3		7.5	4.5	10		12	260n	216m	5.0	0	7	4	G01-234	DIP16a
34♦	FZH255B	DTL	AND	3	TS	30	4.5	10		12	260n	216m	5.0	2	8	4	G01-234	DIP16a
35♦	54H60FM	TTL	AND	4	XO	2.0	0.8			5.0		17m	1.0	5	C	2	54-60W	FP21h
36♦	933DM	DTL	AND	4	XI			10		5.0		17m†	1.0	5	C	2	9-33L	DIP14b
37♦	933FM	DTL	AND	4	XI			10		5.0		17m†	1.0	5	C	2	9-33L	FP28g
38♦	933HM	DTL	AND	4	XI	2.6	0.4C			8.0		17m		5	C	2	9-33L	TO-116
39♦	5460DM	TTL	AND	4	XO	2.0	0.8	10		5.0		20m	1.0	5	C	2	74-60N	TO-116
40♦	5460FM	TTL	AND	4	XO	2.0	0.8	10		5.0		20m	1.0	5	C	2	54-60W	FP52
41♦	7460DC	TTL	AND	4	XO	2.0	0.8	10		5.0		20m	1.0	0	7	2	74-60N	TO-116
42♦	7460PC	TTL	AND	4	XO	2.0	0.8	10		5.0		20m	1.0	0	7	2	74-60N	DIP14a
43♦	9006DC	TTL	AND	4	XO	1.8	0.85			5.0		12m†	400m	0	7	2	74-60N	DIP14a
44♦	9006DM	TTL	AND	4	XO	1.7	0.9			5.0		10m†	400m	5	C	2	74-60N	DIP14a
45♦	9933BC	DTL	AND	4	XO			10		5.0		17m†	1.0	0	7	2	9-33L	DIP14a
46♦	9933DC	DTL	AND	4	XO			10		5.0		17m†	1.0	0	7	2	9-33L	DIP14b
47♦	9933DM	DTL	AND	4	XO			10		5.0		17m†	1.0	5	C	2	9-33L	DIP14b
48♦	9933FC	DTL	AND	4	XO			10		5.0		17m†	1.0	0	7	2	9-33L	FP28g
49♦	9933FM	DTL	AND	4	XO			10		5.0		17m†	1.0	5	C	2	9-33L	FP28g
50♦	DM5460J	TTL	AND	4	XO	2.0	0.8	10		5.0		28m†	400m	5	C	2	74-60N	DIP14a
51♦	DM5460W	TTL	AND	4	XO	2.0	0.8	10		5.0		28m†	400m	5	C	2	54-60W	FP97a
52♦	DM7460N	TTL	AND	4	XO	2.0	0.8	10		5.0		28m†	400m	0	7	2	74-60N	DIP14a
53♦	DM9006CJ	TTL	AND	4	XO	1.6	0.85			5.0		20m		0	7	2	74-60N	DIP14a
54♦	DM9006CN	TTL	AND	4	XO	1.6	0.85			5.0		20m		0	7	2	74-60N	DIP14a
55♦	FJY101-7460	TTL	AND	4	XO	2.0	0.8	10		5.0		8.0m†	1.0	0	7	2	74-60N	DIP14a
56♦	K155LI5	TTL	AND	4	OC	11.0	65.0			5.0				1	7	2	None	None
57♦	M54HC21F1(A)	CMS	AND	4		3.15	1.35	10		5.0		500m	1.2	5	C	2	74-21	DIP14a
58♦	M74HC21B1(A)	CMS	AND	4		3.15	1.35	10		5.0		500m	1.2	4	8	2	74-21	DIP14
59♦	M74HC21C1(A)	CMS	AND	4		3.15	1.35	10		5.0		500m	1.2	4	8	2	G01-317	LC33
60♦	M74HC21F1(A)	CMS	AND	4		3.15	1.35	10		5.0		500m	1.2	4	8	2	74-21	DIP14a
61♦	M53260P	TTL	AND	4	XO	2.0	0.8			5.0		4.0m†	1.0	0	7	2	74-60N	DIP14a
62♦	MB406	TTL	AND	4	OC	2.0	0.8	10		5.0		8m†		0	7	2	74-60	DIP16b
63♦	MB406M	TTL	AND	4	OC	2.0	0.8	10		5.0		8m†		0	7	2	74-60	DIP16b
64♦	MB607	TTL	AND	4	XO	2.0	0.8	10		5.0		14m†		0	7	2	74-60N	DIP14b
65▼	MC833L	DTL	AND	4	XI					5.0				0	7	2	9-33L	TO-116
66▼	MC833P	DTL	AND	4	XI					5.0				0	7	2	9-33L	DIP14a
67♦	MC933L	DTL	AND	4	XI					5.0				5	C	2	9-33L	TO-116
68♦	N74H60F	TTL	AND	4	XO	2.0	0.8			5.0		22m		0	7	2	74-60N	DIP14b
69♦	N74H60N	TTL	AND	4	XO	2.0	0.8			5.0		22m		0	7	2	74-60N	DIP14a
70♦	N7460F	TTL	AND	4	XO	2.0	0.8	30		5.0		20m	1.0 †	0	7	2	74-60N	DIP14b
71♦	N7460N	TTL	AND	4	XO	2.0	0.8			5.0		20m		0	7	2	74-60N	DIP14a
72♦	N8806A	TTL	AND	4	XO					5		8.9m	600m	0	7	2	74-60N	TO-116
73♦	N8806F	TTL	AND	4	XO					5.0		8.9m	600m	0	7	2	74-60N	DIP14a
74♦	N8806J	TTL	AND	4	XO	1.8	0.9			5		8.9m	600m	0	7	2	54-60W	TO-88
75♦	S54H60F	TTL	AND	4	XO	2.0	0.8			5.0		22m		5	C	2	74-60N	DIP14b
76♦	S54H60W	TTL	AND	4	XO	2.0	0.8			5.0		22m		5	C	2	54-60W	FP39e
77♦	S5460F	TTL	AND	4	XO	2.0	0.8			5.0		20m	1.0 †	5	C	2	74-60N	DIP14b
78♦	S5460W	TTL	AND	4	XO	2.0	0.8			5.0		20m	1.0 †	5	C	2	54-60W	FP39e
79♦	S8806A	TTL	AND	4	XO					5		8.9m	600m	5	C	2	74-60N	TO-116
80♦	S8806F	TTL	AND	4	XO					5.0		8.9m	600m	5	C	2	74-60N	DIP14a
81♦	S8806J	TTL	AND	4	XO	1.8	0.9			5		8.9m	600m	5	C	2	54-60W	TO-88
82♦	SFC460E	TTL	AND	4	OC	2.0	0.8	10		5.0		4.0m	400m*	0	7	2	74-60N	TO-116
83♦	SFC460EM	TTL	AND	4	OC	2.0	0.8	10		5.0		20m†	1.0	5	C	2	74-60N	TO-116
84♦	SFC460ET	TTL	AND	4	XO	2.0	0.8	10		5.0		20m†	1.0	2	8	2	74-60N	TO-116
85♦	SFC460PM	TTL	AND	4	XO	2.0	0.8	10		5.0		20m†	400m	5	C	2	54-60W	ZB ☑
86♦	SFC933E	DTL	AND	4	XI	2.6	.45C			5.0		18m†		0	7	2	9-33L	DIP14a
87♦	SN74H60N	TTL	AND	4	OC	2.0	0.8			5.0		17m	0.4	0	7	2	74-60N	DIP14a
88♦	SN5460J	TTL	AND	4	XO	2.0	0.8	10		5.0		20m	0.4	5	C	2	74-60N	DIP14a
89♦	ZN5460E	TTL	AND	4	XO	2.0	0.8	10		5.0		10m	1.0	5	C	2	74-60N	DIP14a
90♦	RG180CJ	TTL	AND	4		3.4	0.2			5.0	1.0n	20m†	1.1	5	C	2	4-11P	FP52j
91♦	RG180CK	TTL	AND	4		3.4	0.2			5.0	1.0n	20m†	1.1	5	C	2	4-11P	FP52k
92♦	RG180DC	TTL	AND	4		3.4	0.2			5.0	1.0n	20m†	1.1	5	C	2	4-11P	DIP14e
93♦	RG181CJ	TTL	AND	4		3.4	0.2			5.0	1.0n	20m†	1.1	5	C	2	4-11P	FP52j
94♦	RG181CK	TTL	AND	4		3.4	0.2			5.0	1.0n	20m†	1.1	5	C	2	4-11P	FP52k
95♦	RG181DC	TTL	AND	4		3.4	0.2			5.0	1.0n	20m†	1.1	5	C	2	4-11P	DIP14e
96♦	RG182CJ	TTL	AND	4		3.4	0.2			5.0	1.0n	20m†	1.1	0	7	2	4-11P	FP52j
97♦	RG182CK	TTL	AND	4		3.4	0.2			5.0	1.0n	20m†	1.1	0	7	2	4-11P	FP52k
98♦	RG182DC	TTL	AND	4		3.4	0.2			5.0	1.0n	20m†	1.1	0	7	2	4-11P	DIP14e
99♦	RG183CJ	TTL	AND	4		3.4	0.2			5.0	1.0n	20m†	1.1	0	7	2	4-11P	FP52j
100♦	RG183CK	TTL	AND	4		3.4	0.2			5.0	1.0n	20m†	1.1	0	7	2	4-11P	FP52k
101♦	RG183DC	TTL	AND	4		3.4	0.2			5.0	1.0n	20m†	1.1	0	7	2	4-11P	DIP14e
102♦	954DC		AND	4				11	2.0	4.5	3.0n	2.0		1	5	2	9-54L	TO-116
103♦	10108F	ECL	AND	4	CO	-1.1	-1.4		5.2		4.1n	145mQ		3	8	2	G01-265	DIP16a
104♦	10108N	ECL	AND	4	CO	-1.1	-1.4		5.2		4.1n	145m†		3	8	2	G01-265	DIP16a
105♦	DM74AS21J	TTL	AND	4		2.0	0.8	50		5.0	6.0n		0.3	0	7	2	74-21	DIP14a
106♦	DM74AS21N	TTL	AND	4		2.0	0.8	50		5.0	6.0n		0.3	0	7	2	74-21	DIP14a
107▼	SN74AS21D	TTL	AND	4		2.0	0.8			5.0	6.0n		0.3	0	7	2	74H21N	FP147
108♦	SN74AS21N	TTL	AND	4		2.0	0.8			5.0	6.0n		0.3	0	7	2	74H21N	DIP14a
109♦	DM54AS21J	TTL	AND	4		2.0	0.8	50		5.0	6.5n		0.3	5	C	2	74-21	DIP14a
110♦	SN54AS21J	TTL	AND	4		2.0	0.8			5.0	6.5n		0.3	5	C	2	74H21N	DIP14a

5. GATES - AND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	9006FM	TTL	AND	4	XO	1.7	0.9			5.0	7.0n	10m†	400m	5	C	2	50-60W	FP28b
2	74HC21D	CMS	AND	4		3.15	1.35	10		5.0	8.0n		1.2	4	8	2	74H21	FP147
3♦	74HC21N	CMS	AND	4		3.15	1.35	10		5.0	8.0n		1.2	4	8	2	74H21	DIP14a
4♦	PC54HC21D(A)	CMS	AND	4		3.15	0.9	10		5.0	8.0n	500m	0.8	5	C	2	74-21	DIP14b
5♦	PC74HC21D(A)	CMS	AND	4		3.15	0.9	10		5.0	8.0n	500m	0.8	4	8	2	74-21	DIP14b
6♦	PC74HC21P	CMS	AND	4		3.15	1.35	10		5.0	8.0n	500m	0.8	4	C	2	74-21	DIP14b
7♦	PC74HC21T	CMS	AND	4		3.15	1.35	10		5.0	8.0n	300m	0.8	4	C	2	74-21	FP147
8♦	UPD74HC21C(A)	CMS	AND	4		4.2	1.2			5.0	8.0n	500m		4	8	2	74H21	MO001AA
9▼	MC3026L	TTL	AND	4		2.5	0.4C	20		5.0	9.0n	90m†		0	7	2	74H21N	TO-116
10▼	MC3026P	TTL	AND	4		2.5	0.4C	20		5.0	9.0n	90m†		0	7	2	74H21N	DIP14a
11♦	MC3126F	TTL	AND	4		2.4	0.4C	20		5.0	9.0n	90m†		5	C	2	54LS21W	TO-86
12♦	MC3126L	TTL	AND	4		2.4	0.4C	20		5.0	9.0n	90m†		5	C	2	74H21N	TO-116
13♦	54LS21DM	TTL	AND	4		2.0	0.7			5.0	10n	22mQ	300m	5	C	2	74H21N	TO-116
14♦	54LS21FM	TTL	AND	4		2.0	0.7			5.0	10n	22mQ	300m	5	C	2	54LS21W	TO-86
15	74HCT21D	CMS	AND	4		2.0	0.8	10		5.0	10n		0.7	4	8	2	74H21	FP147
16♦	74HCT21N	CMS	AND	4		2.0	0.8	10		5.0	10n		0.7	4	8	2	74H21	DIP14a
17♦	74LS21DC	TTL	AND	4		2.0	0.8	5		5.0	10n	22mQ	300m	0	7	2	74H21N	TO-116
18♦	74LS21PC	TTL	AND	4		2.0	0.8	5		5.0	10n	22mQ	300m	0	7	2	74H21N	TO-116
19♦	PC54HCT21D(A)	CMS	AND	4		2.0	0.8	10		5.0	10n	500m	0.7	5	C	2	74-21	DIP14b
20♦	PC74HCT21D(A)	CMS	AND	4		2.0	0.8	10		5.0	10n	500m	0.7	4	8	2	74-21	DIP14b
21♦	PC74HCT21T	CMS	AND	4		2.0	0.8	10		5.0	10n	300m	0.7	4	C	2	74-21	FP147
22♦	T74LS21B1	TTL	AND	4		2.0	0.8	5		5.0	10n	33mQ	300m	0	7	2	74H21N	DIP14a
23♦	T74LS21D1	TTL	AND	4		2.0	0.8	5		5.0	10n	33mQ	300m	0	7	2	74H21N	DIP14b
24▼	HD74HC21FP	CMS	AND	4		3.15	1.35			5.0	11n	500m	1.2	4	8	2	74H21N	FP161
25▼	HD74HC21P	CMS	AND	4		3.15	1.35			5.0	11n	500m	1.2	4	8	2	74H21N	DIP14a
26♦	MB614	TTL	AND	4		2.0	0.8	10		5.0	11n	66m†		0	7	2	74H21N	DIP14b
27♦	RG280CJ	TTL	AND	4		3.4	0.2	15		5.0	11n	76m†	1.0	5	C	2	None	FP52j
28♦	RG280CK	TTL	AND	4		3.4	0.2	15		5.0	11n	76m†	1.0	5	C	2	None	FP52k
29♦	RG280DC	TTL	AND	4		3.4	0.2	15		5.0	11n	76m†	1.0	5	C	2	None	DIP14e
30♦	RG281CJ	TTL	AND	4		3.4	0.2	7		5.0	11n	76m†	1.0	5	C	2	None	FP52j
31♦	RG281CK	TTL	AND	4		3.4	0.2	7		5.0	11n	76m†	1.0	5	C	2	None	FP52k
32♦	RG281DC	TTL	AND	4		3.4	0.2	7		5.0	11n	76m†	1.0	5	C	2	None	DIP14e
33♦	RG282CJ	TTL	AND	4		3.4	0.2	12		5.0	11n	76m†	1.0	0	7	2	None	FP52j
34♦	RG282CK	TTL	AND	4		3.4	0.2	12		5.0	11n	76m†	1.0	0	7	2	None	FP52k
35♦	RG282DC	TTL	AND	4		3.4	0.2	12		5.0	11n	76m†	1.0	0	7	2	None	DIP14e
36♦	RG283CJ	TTL	AND	4		3.4	0.2	6		5.0	11n	76m†	1.0	0	7	2	None	FP52j
37♦	RG283CK	TTL	AND	4		3.4	0.2	6		5.0	11n	76m†	1.0	0	7	2	None	FP52k
38♦	RG283DC	TTL	AND	4		3.4	0.2	6		5.0	11n	76m†	1.0	0	7	2	None	DIP14e
39♦	54H21DM	TTL	AND	4		2.0	0.8	10		5.0	12n	160m	1.0	5	C	2	74H21N	TO-116
40♦	54H21FM	TTL	AND	4		2.0	0.8	10		5.0	12n	160m	1.0	5	C	2	54H21W	FP21h
41♦	74H21DC	TTL	AND	4		2.0	0.8	10		5.0	12n	160m	1.0	0	7	2	74H21N	TO-116
42♦	74H21PC	TTL	AND	4		2.0	0.8	10		5.0	12n	160m	1.0	0	7	2	74H21N	DIP14a
43♦	DM54H21J	TTL	AND	4		2.0	0.8	10		5.0	12n	160m		5	C	2	74H21N	DIP14a
44♦	DM74H21N	TTL	AND	4		2.0	0.8	10		5.0	12n	160m		0	7	2	74H21N	DIP14a
45♦	N74H21F	TTL	AND	4		2.0	0.8	10		5.0	12n	160m		0	7	2	74H21N	DIP14b
46♦	N74H21N	TTL	AND	4		2.0	0.8	10		5.0	12n	160m		0	7	2	74H21N	DIP14a
47♦	S54H21F	TTL	AND	4		2.0	0.8	10		5.0	12n	160m		5	C	2	74H21N	DIP14b
48♦	S54H21W	TTL	AND	4		2.0	0.8	10		5.0	12n	160m		5	C	2	54H21W	FP39e
49♦	SFC421HE	TTL	AND	4		2.0	0.8	10		5.0	12n		1.0	0	7	2	None	TO-116
50♦	SFC421HEM	TTL	AND	4		2.0	0.8	10		5.0	12n		1.0	5	C	2	None	TO-116
51♦	SN74H21N	TTL	AND	4		2.0	0.8	10		5.0	12n	160m	0.4	0	7	2	74H21N	DIP14a
52▼	MC54F21	TTL	AND	4		2.0	0.8	10		5.0	15n			5	C	2	54LS21W	DIP14b
53▼	MC74F21	TTL	AND	4		2.0	0.8	10		5.0	15n			5	C	2	54LS21W	DIP14a
54▼	SN74ALS21AD	TTL	AND	4		2.0	0.8	2		5.0	15n		0.4	0	7	2	74H21N	FP147
55▼	SN74ALS21AN	TTL	AND	4		2.0	0.8	2		5.0	15n		0.4	0	7	2	74H21N	DIP14a
56♦	DM54LS21J	TTL	AND	4		2.0	0.7	10		5.0	18n		0.3	5	C	2	74-21	DIP14a
57♦	DM74LS21N	TTL	AND	4		2.0	0.8	10		5.0	18n		0.3	0	7	2	74-21	DIP14a
58▼	SN54ALS21AJ	TTL	AND	4		2.0	0.7			5.0	18n		0.3	5	C	2	74H21N	DIP14a
59♦	4082BDC	CMS	AND	4		11	4.0	25e		15	20n	450uQ	6.7	4	8	2	40-82B	TO-116
60♦	4082BDM	CMS	AND	4		11	4.0	25e		15	20n	450uQ	6.7	5	C	2	40-82B	TO-116
61♦	4082BFC	CMS	AND	4		11	4.0	25e		15	20n	450uQ	6.7	4	8	2	40-82B	FP21h
62♦	4082BFM	CMS	AND	4		11	4.0	25e		15	20n	450uQ	6.7	5	C	2	40-82B	FP21h
63♦	4082BPC	CMS	AND	4		11	4.0	25e		15	20n	450uQ	6.7	4	8	2	40-82B	DIP14a
64♦	DN74LS21P1	TTL	AND	4		2.0	0.8	20		5.0	20n	400m	700m	2	7	2	74-21	DIP14a
65♦	DN74LS21P4	TTL	AND	4		2.0	0.8	20		5.0	20n	400m	700m	2	7	2	74-21	FP177
66▼	HD74LS21G	TTL	AND	4		2.0	0.8			5.0	20n	400m	300m	2	7	2	74H21N	DIP14a
67♦	M74LS21P	TTL	AND	4		2.0	0.8	20		5.0	20n	8.5m†	0.4	2	7	2	74H21	DIP14a
68♦	MB74LS21	TTL	AND	4		2.0	0.8	20		5.0	20n	22m	1.0 *	2	7	2	74H21N	DIP14a
69♦	MB74LS21M	TTL	AND	4		2.0	0.8	20		5.0	20n	22m	1.0 *	2	7	2	74H21N	DIP14a
70♦	N74LS21D	TTL	AND	4		2.0	0.7	20		5.0	20n	22m	0.3	0	7	2	74H21N	DIP14b
71♦	N74LS21N	TTL	AND	4		2.0	0.7	20		5.0	20n	22m	0.3	0	7	2	74H21N	DIP14a
72♦	S54LS21F	TTL	AND	4		2.0	0.7			5.0	20n	22m		5	C	2	74H21N	DIP14b
73♦	S54LS21W	TTL	AND	4		2.0	0.7			5.0	20n	22m		5	C	2	54LS21W	FP39e
74♦	SN54LS21J	TTL	AND	4		2.0	0.7			5.0	20n		0.3	5	C	2	74H21N	DIP14a
75▼	SN54LS21N	TTL	AND	4		2.0	0.7			5.0	20n		0.3	5	C	2	74H21N	DIP14a
76♦	SN74LS21D	TTL	AND	4		2.0	0.8			5.0	20n		0.4	0	7	2	74H21	FP147
77♦	SN74LS21J	TTL	AND	4		2.0	0.8			5.0	20n		0.4	0	7	2	74H21N	DIP14a
78♦	SN74LS21N	TTL	AND	4		2.0	0.8			5.0	20n		0.4	0	7	2	74H21N	DIP14a
79♦	TC74HC21P(A)	CMS	AND	4		3.15	1.35	10d		5.0	23n	500m	1.4	4	8	2	74-21N	MO001AA
80♦	CD74HC21E	CMS	AND	4		3.15	1.35	10		5.0	24n	500m	1.2	4	8	2	74-21N	MO001AB
81♦	CD74HC21M	CMS	AND	4		3.15	1.35	10		5.0	24n	400m	1.2	4	8	2	74-21N	FP147
82♦	CD74HCT21E	CMS	AND	4		2.0	0.8	10		5.0	24n	500m	0.7	4	8	2	74-21N	MO001AB
83♦	CD74HCT21M	CMS	AND	4		2.0	0.8	10		5.0	24n	400m	0.7	4	8	2	74-21N	FP147
84♦	HEF4082P	CMS	AND	4		7.0	3.0			10	25n	50uQ	4.5	4	8	2	40-82B	TO-116
85♦	LC74HC21	CMS	AND	4		3.5	1.5	10		5.0	25n	0.3	1.1	4	8	2	74-21	DIP14a
86♦	DM74ALS21J	TTL	AND	4		2.0	0.8	10		5.0	26n		0.3	0	7	2	74H21	DIP14a
87♦	DM74ALS21N	TTL	AND	4		2.0	0.8	10		5.0	26n		0.3	0	7	2	74H21	DIP14a
88♦	5421DM	TTL	AND	4		2.0	0.8	20		5.0	27n			5	C	2	74H21N	DIP14a
89♦	5421FM	TTL	AND	4		2.0	0.4	20		5.0	27n			5	C	2	54H21W	FP52
90♦	7421DC	TTL	AND	4		2.0	0.8	20		5.0	27n			0	7	2	74H21N	DIP14a
91♦	7421PC	TTL	AND	4		2.0	0.8	20		5.0	27n			0	7	2	74H21N	DIP14a
92♦	M74ALS21P	TTL	AND	4		2.0	0.8			5.0	27n	11m	0.4	2	7	2	74H21N	DIP14a
93♦	N7421F	TTL	AND	4		2.0	0.8	10		5.0	27n	65m	1.0 †	0	7	2	74H21N	DIP14b
94♦	N7421N	TTL	AND	4		2.0	0.8	10a		5.0	27n	65m	0.4	0	7	2	74H21N	DIP14a
95♦	S5421F	TTL	AND	4		2.0	0.8	10		5.0	27n	65m	1.0 †	5	C	2	74H21N	DIP14b
96♦	S5421W	TTL	AND	4		2.0	0.8	10		5.0	27n	65m	1.0 †	5	C	2	54H21W	FP39e
97♦	CD54HC21F	CMS	AND	4		3.15	1.35	10		5.0	28n	500m	1.2	5	C	2	74-21N	MO001AB
98♦	CD54HCT21F	CMS	AND	4		2.0	0.8	10		5.0	28n	500m	0.7	5	C	2	74-21N	MO001AB
99♦	HD74LS21P	TTL	AND	4		2.0	0.8			5.0	28n	400m	300m	2	7	2	74H21N	DIP14a
100▼	SN74HC21D	CMS	AND	4		3.15	0.9			5.0	28n			4	8	2	74H21N	FP147
101♦	SN74HC21N	CMS	AND	4		3.15	0.9			5.0	28n			4	8	2	74H21N	MO001AA
102▼	TC74HC21F(A)	CMS	AND	4		3.15	1.35	10d		5.0	28n	180m	1.4	4	8	2	74-21N	FP166
103♦	DM54ALS21J	TTL	AND	4		2.0	0.8	10		5.0	30n		0.4	5	C	2	74H21	DIP14a
104♦	PC74HCT21P	CMS	AND	4		2.0	0.8	10		5.0	32n	500m	0.7	4	C	2	74-21	DIP14b
105♦	SN54HC21J	CMS	AND	4		3.15	0.9			5.0	33n			5	C	2	74H21N	MO001AA
106♦	HEF4082	CMS	AND	4		11	4.0	16e		15	45n	400m	6.7	4	8	2	40-82B	DL ☑
107♦	HEF4082BPN	CMS	AND	4		11.0	4.0	16e		15	45n	400m	6.7	4	8	2	40-82B	DIP14b
108♦	HEF4082BTD	CMS	AND	4		11.0	4.0	50e		15	45n	200m	6.7	4	8	2	40-82B	FP147
109♦	TC40H021F	CMS	AND	4		4.0	1.0			10	50n	180m	.95	4	8	2	54H21W	FP166
110♦	TC40H021P	CMS	AND	4		4.0	1.0	50		10	50n	300m	.95	4	8	2	74H21N	MO001AA

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - AND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	HEF4082BD	CMS	AND	4		7.0	3.0			10	60n	500m		4	8	2	40-82B	DIP14a
2♦	HEF4082BP	CMS	AND	4		7.0	3.0			10	60n	500m		4	8	2	40-82B	DIP14a
3♦	HEF4082BT	CMS	AND	4		7.0	3.0			10	60n	400m		4	8	2	40-82B	FP147
4♦	LC4082B	CMS	AND	4		11.0	4.0			15	80n	300m		4	8	2	40-82B	DIP14a
5♦	883C4082B	CMS	AND	4		8.21	6.7			15	90n	300m		5	C	2	40-82B	MO001AA
6♦	BCL4082B	CMS	AND	4		8.21	6.7			15	90n	300m		5	C	2	40-82B	MO001AA
7♦	MB84082B	CMS	AND	4		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	2	40-82B	DIP14b
8♦	MB84082BM	CMS	AND	4		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	2	40-82B	DIP14a
9♦	MC14082BAL	CMS	AND	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-82B	TO-116
10▼	MC14082BALD	CMS	AND	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-82B	TO-116
11▼	MC14082BALDS	CMS	AND	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-82B	TO-116
12▼	MC14082BALS	CMS	AND	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-82B	TO-116
13♦	MC14082BCL	CMS	AND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-82B	TO-116
14▼	MC14082BCLD	CMS	AND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-82B	TO-116
15▼	MC14082BCLDS	CMS	AND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-82B	TO-116
16▼	MC14082BCLS	CMS	AND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-82B	TO-116
17♦	MC14082BCP	CMS	AND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-82B	TO-116
18▼	MC14082BCPD	CMS	AND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-82B	TO-116
19▼	MC14082BCPDS	CMS	AND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-82B	TO-116
20▼	MC14082BCPS	CMS	AND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-82B	TO-116
21▼	MC14082BD	CMS	AND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-82B	TO-116
22♦	UPD4082BG	CMS	AND	4		11.0	4.0			15	100n	200m	3.9	4	8	2	40-82	FP161
23♦	CD4082BD	CMS	AND	4		7.0	3.0	18e		10	120n	500m	2.9	5	C	2	40-82B	MO001AD
24♦	CD4082BE	CMS	AND	4		7.0	3.0	18e		15	120n	500m	2.9	4	8	2	40-82B	MO001AB
25♦	CD4082BF	CMS	AND	4		7.0	3.0	18e		15	120n	500m	2.9	5	C	2	40-82B	MO001AB
26♦	SCL4082B	CMS	AND	4		7.0	3.0	50		15	120n	300m	3.0	5	C	2	40-82B	MO001AA
27♦	M4082BP	CMS	AND	4		11.0	4.0	50		15	150n	0.5	4.0 *	4	8	2	40-82B	DIP14a
28♦	MSM4082	CMS	AND	4		7.2	2.0	16e		10	150n	300uQ	2.0 *	2	7	2	40-82B	DIP14a
29♦	TC4082BP	CMS	AND	4		14.9	.05C	50		15	150n	300m	4.0	4	8	2	40-82B	DIP14a
30♦	HCC4082BD	CMS	AND	4		10	0C	2		10	170n	200m	4.5	5	C	2	40-82B	DIP14a
31♦	HCC4082BF	CMS	AND	4		10	0C	2		10	170n	200m	4.5	5	C	2	40-82B	DIP14a
32♦	HCC4082BK	CMS	AND	4		10	0C	2		10	170n	200m	4.5	5	C	2	40-82B	FP130
33♦	HCF4082BE	CMS	AND	4		10	0C	2		10	170n	200m	4.5	4	8	2	40-82B	DIP14a
34♦	HCF4082BF	CMS	AND	4		10	0C	2		10	170n	200m	4.5	4	8	2	40-82B	DIP14a
35♦	MSM4082RS	CMS	AND	4		3.6	1.0	40		5.0	300n		0.6	4	8	2	40-82B	DIP14 ☑
36♦	FCY101	DTL	AND	4				1						0	7	3	G06-61j	TO-116
37♦	SP304A	TTL	AND	5		3.5	0.6C	12		5.0	15n	62m	1.8	0	7	2	G01-226	TO-116
38♦	H109D1	DTL	AND	5		8.0	6.0	25		15	250n	240m	5.0	0	7	2	3-90C	DIP14b
39♦	H109D2	DTL	AND	5		8.0	6.0	25		16	250n	152m	5.0	5	C	2	3-90C	DIP14b
40♦	H109D6	DTL	AND	5		8.0	6.0	25		16	250n	152m	5.0	4	8	2	3-90C	DIP14
41♦	H209B1	DTL	AND	5		8.0	6.0	200		16	250n	500m	5.0	0	7	2	3-90C	TO-116
42♦	SP305A	DTL	AND	6				1		5.0	35n	5.0m	1.0	0	7	1	None	DIP14a
43▼	955DC	BIP	AND	8					2.0	4.5	4n			1	5	1	None	TO-116
44♦	K176LI1	MOS	AND	9		8.2	0.3			9.0	250n			1	7	2	None	None

GATE, OR-AND

48♦	100117F	ECL	ORAND	1-2-2	CO	-1.1	-1.4		4.5			256m†		0	8	3	G02-216	DIP24d
49♦	100117Y	ECL	ORAND	1-2-2	CO	-1.1	-1.4		4.5			256m†		0	8	3	G02-216	FP173
50♦	F100117DC	ECL	ORAND	1-2-2	CO	-1.1	-1.4	1	4.5			355mQ	130m	0	7	3	G02-216	DIP24c
51♦	F100117FC	ECL	ORAND	1-2-2	CO	-1.1	-1.4	1	4.5			355mQ	130m	0	7	3	G02-216	FP126
52♦	HD100117	ECL	ORAND	1-2-2	CO	-1.1	-1.4		4.5			40m†	145m	0	8	3	G02-216	DIP24d
53♦	HD100117F	ECL	ORAND	1-2-2	CO	-1.1	-1.4		4.5			40m†	145m	0	8	3	G02-216	FP146
54♦	HXA100117D	ECL	ORAND	1-2-2	CO	-1.1	-1.4	4	4.5			245m		0	8	3	G02-216	DL ☑
55♦	HXA100117F	ECL	ORAND	1-2-2	CO	-1.1	-1.4	4	4.5			245m		0	8	3	G02-216	FP ☑
56♦	F10117DC	ECL	ORAND	2-3	CO	-1.1	-1.4	80g	5.2				145m*	0	7	2	G02-208	DIP16a
57♦	F10517DM	ECL	ORAND	2-3	CO	-1.1	-1.4	40g	5.2				145m*	5	C	2	G02-208	DIP16a
58♦	F10517FM	ECL	ORAND	2-3	CO	-1.1	-1.4	40g	5.2				145m*	5	C	2	G02-208	FP103
59▼	MC10H117FN	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2			100m		0	7	2	K04-25	None
60♦	MC10H117L	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2			100m		0	7	2	K04-25	None
61▼	MC10H117LD	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2			100m		0	7	2	K04-25	None
62▼	MC10H117LDS	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2			100m		0	7	2	K04-25	None
63♦	MC10H117P	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2			100m		0	7	2	K04-25	None
64▼	MC10H117PD	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2			100m		0	7	2	K04-25	None
65▼	MC10H117PDS	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2			100m		0	7	2	K04-25	None
66♦	MC10H117J	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		1.9n	100m†	150m	0	7	2	G02-208	DIP16a
67♦	MC10H117N	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		1.9n	100m†	150m	0	7	2	G02-208	DIP16a
68♦	MC10H117NL	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		1.9n	100m†	150m	0	7	2	G02-208	DIP16a
69♦	DM10117J	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		2.3n	100m†		3	8	2	G02-166	DIP16a
70♦	GXB10117	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		2.3n	100m†		0	7	2	G02-166	DIP16b
71♦	MB10117	ECL	ORAND	2-3	CO	-1.1	-1.4	70	5.2		2.3n	100m†		3	8	2	G02-166	DIP16b
72♦	MB10117M	ECL	ORAND	2-3	CO	-1.1	-1.4	70	5.2		2.3n	100m†		3	8	2	G02-166	DIP16b
73▼	MC10117FN	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		2.3n	100m†		3	8	2	G02-166	DIP16b
74♦	MC10117L	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		2.3n	100m†		3	8	2	G02-166	DIP16b
75▼	MC10117LD	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		2.3n	100m†		3	8	2	G02-166	DIP16b
76▼	MC10117LDS	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		2.3n	100m†		3	8	2	G02-166	DIP16b
77♦	MC10117P	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		2.3n	100m†		3	8	2	G02-166	DIP16a
78▼	MC10117PD	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		2.3n	100m†		3	8	2	G02-166	DIP16a
79▼	MC10117PDS	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		2.3n	100m†		3	8	2	G02-166	DIP16a
80♦	MC10517F	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		3.4n	100m†		5	C	2	G02-166	FP85
81♦	MC10517L	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		3.4n	100m†		5	C	2	G02-166	DIP16b
82♦	10117F	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		3.8n	100m†		3	8	2	G01-229	DIP16a
83♦	10117N	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		3.8n	100m†		3	8	2	G01-229	DIP16a
84♦	HD10117	ECL	ORAND	2-3	CO	-1.1	-1.4		5.2		3.9n	200m		3	8	2	G01-300	DIP16b
85♦	HXA100118D	ECL	ORAND	2-4-4-4-	CO	-1.1	-1.4	2	4.5		1.1n	200m		0	8	1	G02-217	DL ☑
86♦	HXA100118F	ECL	ORAND	2-4-4-4-	CO	-1.1	-1.4	2	4.5		1.1n	200m		0	8	1	G02-217	FP ☑
87♦	HD100118	ECL	ORAND	2-4-4-4-	CO	-1.1	-1.4		4.5		1.9n	40m†	145m	0	8	1	G02-217	DIP24d
88♦	HD100118F	ECL	ORAND	2-4-4-4-	CO	-1.1	-1.4		4.5		1.9n	40m†	145m	0	8	1	G02-217	FP146
89♦	F100118FC	ECL	ORAND	2-4-4-4-	CO	-1.1	-1.4	78g	4.5		2.5n	257mQ	130m	0	7	1	G02-217	FP126
90♦	F100118DC	ECL	ORAND	2-4-4-4-	CO	-1.1	-1.4	78g	4.5		2.7n	257mQ	130m	0	7	1	G02-217	DIP24c
91♦	100118Y	ECL	ORAND	2-4-4-4-	CO	-1.1	-1.4		4.5		3.2n	193m†		0	8	1	G02-217	FP173
92♦	100118F	ECL	ORAND	2-4-4-4-	CO	-1.1	-1.4		4.5		3.4n	193m†		0	8	1	G02-217	DIP24d
93▼	MC10H118FN	ECL	ORAND	3-3		-1.1	-1.4		5.2			100m		0	7	2	K04-26	None
94♦	MC10H118L	ECL	ORAND	3-3		-1.1	-1.4		5.2			100m		0	7	2	K04-26	None
95▼	MC10H118LD	ECL	ORAND	3-3		-1.1	-1.4		5.2			100m		0	7	2	K04-26	None
96▼	MC10H118LDS	ECL	ORAND	3-3		-1.1	-1.4		5.2			100m		0	7	2	K04-26	None
97♦	MC10H118P	ECL	ORAND	3-3		-1.1	-1.4		5.2			100m		0	7	2	K04-26	None
98▼	MC10H118PD	ECL	ORAND	3-3		-1.1	-1.4		5.2			100m		0	7	2	K04-26	None
99▼	MC10H118PDS	ECL	ORAND	3-3		-1.1	-1.4		5.2			100m		0	7	2	K04-26	None
100♦	MC10H118J	ECL	ORAND	3-3		-1.1	-1.4		5.2		1.9n	100m†	150m	0	7	2	G02-167	DIP16a
101♦	MC10H118N	ECL	ORAND	3-3		-1.1	-1.4		5.2		1.9n	100m†	150m	0	7	2	G02-167	DIP16a
102♦	MC10H118NL	ECL	ORAND	3-3		-1.1	-1.4		5.2		1.9n	100m†	150m	0	7	2	G02-167	LC45
103♦	GXB10118	ECL	ORAND	3-3		-1.1	-1.4		5.2		2.3n	100m†		0	7	2	G02-167	DIP16b
104♦	MB10118	ECL	ORAND	3-3		-1.1	-1.4	70	5.2		2.3n	100m†		3	8	2	G02-167	DIP16b
105♦	MB10118M	ECL	ORAND	3-3		-1.1	-1.4	70	5.2		2.3n	100m†		3	8	2	G02-167	DIP16b
106♦	DM10118J	ECL	ORAND	3-3		-1.1	-1.4		5.2		3.4n	100m†		3	8	2	G02-167	DIP16a
107♦	F10118DC	ECL	ORAND	3-3		-1.1	-1.4	80g	5.2		3.4n	135mQ	145m*	0	7	2	G02-209	DIP16a
108♦	F10518DM	ECL	ORAND	3-3		-1.1	-1.4	40g	5.2		3.4n	135mQ	145m*	5	C	2	G02-209	DIP16a
109♦	F10518FM	ECL	ORAND	3-3		-1.1	-1.4	40g	5.2		3.4n	135mQ	145m*	5	C	2	G02-209	FP103
110▼	MC10118FN	ECL	ORAND	3-3		-1.1	-1.4		5.2		3.4n	100m†		3	8	2	G02-167	DIP16a

5. GATES - OR-AND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	MC10118L	ECL	ORAND	3-3		-1.1	-1.4		5.2		3.4n	100m†		3	8	2	G02-167	DIP16a
2▼	MC10118LD	ECL	ORAND	3-3		-1.1	-1.4		5.2		3.4n	100m†		3	8	2	G02-167	DIP16a
3▼	MC10118LDS	ECL	ORAND	3-3		-1.1	-1.4		5.2		3.4n	100m†		3	8	2	G02-167	DIP16a
4♦	MC10118P	ECL	ORAND	3-3		-1.1	-1.4		5.2		3.4n	100m†		3	8	2	G02-167	DIP16b
5▼	MC10118PD	ECL	ORAND	3-3		-1.1	-1.4		5.2		3.4n	100m†		3	8	2	G02-167	DIP16b
6▼	MC10118PDS	ECL	ORAND	3-3		-1.1	-1.4		5.2		3.4n	100m†		3	8	2	G02-167	DIP16b
7♦	MC10518F	ECL	ORAND	3-3		-1.1	-1.4		5.2		3.4n	100m†		5	C	2	G02-167	FP85
8♦	MC10518L	ECL	ORAND	3-3		-1.1	-1.4		5.2		3.4n	100m†		5	C	2	G02-167	DIP16b
9♦	10118F	ECL	ORAND	3-3		-1.1	-1.4		5.2		3.8n	100m†		3	8	2	G02-209	DIP16a
10♦	10118N	ECL	ORAND	3-3		-1.1	-1.4		5.2		3.8n	100m†		3	8	2	G02-209	DIP16a
11♦	HD10118	ECL	ORAND	3-3		-1.1	-1.4		5.2		3.9n	200m		3	8	2	G01-301	DIP16b
12♦	DM10121J	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4		5.2			100m†		3	8	1	G02-211	DIP16a
13♦	F10121DC	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4	80g	5.2			135mQ	145m*	0	7	1	G02-211	DIP16a
14♦	F10521DM	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4	40g	5.2			135mQ	145m*	5	C	1	G02-211	DIP16a
15♦	F10521FM	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4	40g	5.2			135mQ	145m*	5	C	1	G02-211	FP103
16♦	GXB10121	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4		5.2			100m†		0	7	1	G02-211	DIP16b
17♦	MB10121	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4	70	5.2			100m†		3	8	1	G02-211	DIP16b
18♦	MB10121M	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4	70	5.2			100m†		3	8	1	G02-211	DIP16b
19▼	MC10121FN	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4		5.2			100m†		3	8	1	G02-211	DIP16a
20♦	MC10121L	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4		5.2			100m†		3	8	1	G02-211	DIP16a
21▼	MC10121LD	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4		5.2			100m†		3	8	1	G02-211	DIP16a
22▼	MC10121LDS	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4		5.2			100m†		3	8	1	G02-211	DIP16a
23♦	MC10121P	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4		5.2			100m†		3	8	1	G02-211	DIP16b
24▼	MC10121PD	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4		5.2			100m†		3	8	1	G02-211	DIP16b
25▼	MC10121PDS	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4		5.2			100m†		3	8	1	G02-211	DIP16b
26♦	MC10521F	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4		5.2			100m†		5	C	1	G02-211	FP85
27♦	MC10521L	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4		5.2			100m†		5	C	1	G02-211	DIP16b
28♦	10121F	ECL	ORAND	3-3-3-3		-1.1	-1.4		5.2		3.8n	100m†		3	8	1	G02-211	DIP16a
29♦	10121N	ECL	ORAND	3-3-3-3		-1.1	-1.4		5.2		3.8n	100m†		3	8	1	G02-211	DIP16a
30♦	HD10121	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4		5.2		3.9n	200m		3	8	1	G01-303	DIP16b
31♦	MC10H121J	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4		5.2		2.4m	145m†	150m	0	7	1	G02-211	DIP16a
32♦	MC10H121N	ECL	ORAND	3-3-3-3	CO	-1.1	-1.4		5.2		2.4m	145m†	150m	0	7	1	G02-211	DIP16a
33♦	F10119DC	ECL	ORAND	3-3-3-4		-1.1	-1.4	80g	5.2			135mQ	145m*	0	7	1	G02-210	DIP16a
34♦	F10519DM	ECL	ORAND	3-3-3-4		-1.1	-1.4	40g	5.2			135mQ	145m*	5	C	1	G02-210	DIP16a
35♦	F10519FM	ECL	ORAND	3-3-3-4		-1.1	-1.4	40g	5.2			135mQ	145m*	5	C	1	G02-210	FP103
36♦	GXB10119	ECL	ORAND	3-3-3-4		-1.1	-1.4		5.2		2.3n	100m†		0	7	1	G02-168	DIP16b
37♦	MB10119	ECL	ORAND	3-3-3-4		-1.1	-1.4	70	5.2		2.3n	100m†		3	8	1	G02-168	DIP16b
38♦	MB10119M	ECL	ORAND	3-3-3-4		-1.1	-1.4	70	5.2		2.3n	100m†		3	8	1	G02-168	DIP16b
39♦	DM10119J	ECL	ORAND	3-3-3-4		-1.1	-1.4		5.2		3.4n	100m†		3	8	1	G02-168	DIP16a
40▼	MC10119FN	ECL	ORAND	3-3-3-4		-1.1	-1.4		5.2		3.4n	100m†		3	8	1	G02-168	DIP16a
41♦	MC10119L	ECL	ORAND	3-3-3-4		-1.1	-1.4		5.2		3.4n	100m†		3	8	1	G02-168	DIP16a
42▼	MC10119LD	ECL	ORAND	3-3-3-4		-1.1	-1.4		5.2		3.4n	100m†		3	8	1	G02-168	DIP16a
43▼	MC10119LDS	ECL	ORAND	3-3-3-4		-1.1	-1.4		5.2		3.4n	100m†		3	8	1	G02-168	DIP16a
44♦	MC10119P	ECL	ORAND	3-3-3-4		-1.1	-1.4		5.2		3.4n	100m†		3	8	1	G02-168	DIP16b
45▼	MC10119PD	ECL	ORAND	3-3-3-4		-1.1	-1.4		5.2		3.4n	100m†		3	8	1	G02-168	DIP16b
46▼	MC10119PDS	ECL	ORAND	3-3-3-4		-1.1	-1.4		5.2		3.4n	100m†		3	8	1	G02-168	DIP16b
47♦	MC10519L	ECL	ORAND	3-3-3-4		-1.1	-1.4		5.2		3.4n	100m†		5	C	1	G02-168	DIP16b
48♦	10119F	ECL	ORAND	3-3-3-4		-1.1	-1.4		5.2		3.8n	100m†		3	8	1	G02-210	DIP16a
49♦	10119N	ECL	ORAND	3-3-3-4		-1.1	-1.4		5.2		3.8n	100m†		3	8	1	G02-210	DIP16a
50♦	HD10119	ECL	ORAND	3-3-3-4		-1.1	-1.4		5.2		3.9n	200m		3	8	1	G02-168	DIP16b
51♦	MC10519F	ECL	ORAND	3-3-3-4		-1.1	-1.4		5.2		3.4n	100m†		5	C	4	G02-168	FP85
52▼	MC10H119FN	ECL	ORAND	4-3-3-3		-1.1	-1.4		5.2			100m		0	7	1	K04-27	None
53♦	MC10H119L	ECL	ORAND	4-3-3-3		-1.1	-1.4		5.2			100m		0	7	1	K04-27	None
54▼	MC10H119LD	ECL	ORAND	4-3-3-3		-1.1	-1.4		5.2			100m		0	7	1	K04-27	None
55▼	MC10H119LDS	ECL	ORAND	4-3-3-3		-1.1	-1.4		5.2			100m		0	7	1	K04-27	None
56♦	MC10H119J(A)	ECL	ORAND	4-3-3-3		-1.1	-1.4		5.2		2.4n	100m†	150m	0	7	1	K04-27	DIP16a
57♦	MC10H119N(A)	ECL	ORAND	4-3-3-3		-1.1	-1.4		5.2		2.4n	100m†	150m	0	7	1	K04-27	DIP16a
58♦	MC10H119NL(A)	ECL	ORAND	4-3-3-3		-1.1	-1.4		5.2		2.4n	100m†	150m	0	7	1	K04-27	LC20

GATE, AND-OR

62♦	MSM512RS	CMS	ANDOR			3.6	0.8	40		5.0	400n		0.4	3	8	1	G01-275	DIP14 ☑
63♦	MSM514RS	CMS	ANDOR			3.6	0.8	40		5.0	400n		0.4	3	8	1	G01-276	DIP14 ☑
64♦	CD4019BM	CMS	ANDOR			7.0	3.0			15	50n	500m	4.5	5	C	4	40-19B	None
65♦	MSM510RS	CMS	ANDOR	2		3.6	0.8	40e		5.0	200n		0.6	3	8	2	G01-274	DIP14a
66♦	CD4019BC	CMS	ANDOR	2		7.0	3.0			15	50n	500m	4.5	4	8	4	40-19B	None
67♦	HCC4019BD	CMS	ANDOR	2		11	4.0			15	50n	200m†	2.5 *	5	C	4	40-19B	DIP16a
68♦	HCC4019BF	CMS	ANDOR	2		11	4.0			15	50n	200m†	2.5 *	5	C	4	40-19B	None
69♦	HCC4019BK	CMS	ANDOR	2		11	4.0			15	50n	200m†	2.5 *	5	C	4	40-19B	FP131
70♦	HCF4019BE	CMS	ANDOR	2		11	4.0			15	50n	200m†	2.5 *	4	8	4	40-19B	DIP16a
71♦	HCF4019BF	CMS	ANDOR	2		11	4.0			15	50n	200m†	2.5 *	4	8	4	40-19B	None
72♦	LC4019B	CMS	ANDOR	2		3.5	1.5			5.0	50n	300m		4	8	4	40-19B	DIP16a
73♦	CD4019AD(2)	CMS	ANDOR	2		9.95	0.05C			15	100n	500m	1.0	5	C	4	40-19	MO001AC
74♦	CD4019AF(2)	CMS	ANDOR	2		9.95	0.05C			15	100n	500m	1.0	5	C	4	40-19	MO004AG
75♦	CM4019AD	CMS	ANDOR	2		10	0C			10	100n	200m	4.5	5	C	4	40-19B	DIP16a
76♦	CD4019BD(2)	CMS	ANDOR	2		7.0	3.0			20	120n	500m	2.9	5	C	4	40-19B	DL ☑
77♦	CD4019BE(2)	CMS	ANDOR	2		7.0	3.0			20	120n	500m	2.9	4	8	4	40-19B	DL ☑
78♦	CD4019BF(2)	CMS	ANDOR	2		7.0	3.0			20	120n	500m	2.9	5	C	4	40-19B	DL ☑
79♦	CD4019AE(2)	CMS	ANDOR	2		9.95	0.05C			15	125n	500m	1.0	4	8	4	40-19	MO001AC
80♦	CM4019AE	CMS	ANDOR	2		10	0C			10	125n	200m	4.5	4	8	4	40-19B	DIP16a
81♦	MSM4019	CMS	ANDOR	2		7.2	2.0	16e		10	150n	1.4mQ	2.0 *	2	7	4	40-19B	DIP16a
82♦	SCL4019B	CMS	ANDOR	2	TS	3.5	1.0*			15	150n	300m	3.9	5	C	4	40-19B	MO001AG
83♦	M4019BP(2)	CMS	ANDOR	2		11.0	4.0	50		15	250n	0.5	4.0 *	4	8	4	40-19B	DIP14a
84♦	MSM4019RS	CMS	ANDOR	2		3.6	1.0	40		16	300n	200m	0.6	4	8	4	40-19B	DIP16 ☑
85♦	883C4019B	CMS	ANDOR	2		11.0	4.0			15	1.0u	300m	3.9	5	C	4	40-19B	MO001AG
86♦	BCL4019B	CMS	ANDOR	2		11.0	4.0			15	1.0u	300m	3.9	5	C	4	40-19B	MO001AG
87♦	MB84019B	CMS	ANDOR	2-2		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	4	40-19B	DIP16a
88♦	MB84019BM	CMS	ANDOR	2-2		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	4	40-19B	DIP16b
89♦	54H52DM	TTL	ANDOR	2-2-2-3	XI	2.0	0.8	10		5.0		155m	1.0	5	C	1	74H52N	TO-116
90♦	54H52FM	TTL	ANDOR	2-2-2-3	XI	2.0	0.8	10		5.0		155m	1.0	5	C	1	54H52W	FP21h
91♦	S54H52F	TTL	ANDOR	2-2-2-3	XI	2.0	0.8	10		5.0		155m		5	C	1	74H52N	DIP14h
92♦	S54H52W	TTL	ANDOR	2-2-2-3	XI	2.0	0.8	10		5.0		155m		5	C	1	54H52W	FP39e
93♦	54H62FM	TTL	ANDOR	2-2-3-3	XO	2.0	0.8			5.0		45m	1.0	5	C	1	54H62W	FP21h
94♦	DM54H62J	TTL	ANDOR	2-2-3-3	XO	2.0	0.8	10		5.0		45m		5	C	1	74H62N	DIP14a
95♦	S54H62F	TTL	ANDOR	2-2-3-3	XO	2.0	0.8			5.0		45m		5	C	1	74H62N	DIP14b
96♦	S54H62W	TTL	ANDOR	2-2-3-3	XO	2.0	0.8			5.0		45m		5	C	1	54H62W	FP39e
97▼	PC74HC58P	CMS	ANDOR	2-2-3-3		3.15	1.35	10		5.0	23n	500m	1.2	4	8	2	74HC58	DIP14a
98▼	PC74HC58T	CMS	ANDOR	2-2-3-3		2.05	0.8	10		5.0	23n	400m	1.2	4	8	2	74HC58	FP147
99♦	RG152CJ	TTL	ANDOR	2-2-3-3		3.4	0.2			5.0	4.0n	20m†	1.1	0	7	4	4-09P	FP52j
100♦	RG152CK	TTL	ANDOR	2-2-3-3		3.4	0.2			5.0	4.0n	20m†	1.1	0	7	4	4-09P	FP52k
101♦	RG152DC	TTL	ANDOR	2-2-3-3		3.4	0.2			5.0	4.0n	20m†	1.1	0	7	4	4-09P	DIP14e
102♦	RG153CJ	TTL	ANDOR	2-2-3-3		3.4	0.2			5.0	4.0n	20m†	1.1	0	7	4	4-09P	FP52j
103♦	RG153CK	TTL	ANDOR	2-2-3-3		3.4	0.2			5.0	4.0n	20m†	1.1	0	7	4	4-09P	FP52k
104♦	RG153DC	TTL	ANDOR	2-2-3-3		3.4	0.2			5.0	4.0n	20m†	1.1	0	7	4	4-09P	DIP14e
105♦	74HC58D	CMS	ANDOR	2-2/3-3		4.2	1.8	10		5.0	10n		2.4	4	8	2	74HC58	FP142
106♦	74HC58N	CMS	ANDOR	2-2/3-3		4.2	1.8	10		5	10n		2.4	4	8	2	74HC58	DIP14a
107♦	MM74HC58J(A)	CMS	ANDOR	2-2/3-3		4.2	1.2			5.0	27n	500m	1.7	4	8	2	74HC58	DIP14a
108♦	MM74HC58N(A)	CMS	ANDOR	2-2/3-3		4.2	1.2			5.0	27n	500m	1.7	4	8	2	74HC58	DIP14a
109♦	MM54HC58J(A)	CMS	ANDOR	2-2/3-3		4.2	1.2			5.0	32n	500m	1.7	5	C	2	74HC58	DIP14a
110♦	MC54HC58J(A)	CMS	ANDOR	2-2/3-3		3.15	0.9	10		5.0	37n	500m	1.2	5	C	2	74HC58	DIP14a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - AND-OR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	MC74HC58J(A)	CMS	ANDOR	2-2/3-3		3.15	0.9	10		5.0	37n	500m	1.2	4	8	2	74HC58	DIP14a
2♦	MC74HC58N(A)	CMS	ANDOR	2-2/3-3		3.15	0.9	10		5.0	37n	500m	1.2	4	8	2	74HC58	DIP14a
3♦	74H52PC	TTL	ANDOR	2-3-2-2	XI	2.0	0.8	10		5.0		120m	1.0	0	7	1	74H52N	DIP14a
4♦	N74H52F	TTL	ANDOR	2-3-2-2	XI	2.0	0.8	10		5.0		155m		0	7	1	74H52N	DIP14b
5♦	N74H52N	TTL	ANDOR	2-3-2-2	XI	2.0	0.8	10		5.0		155m		0	7	1	74H52N	DIP14a
6♦	SN74H52N	TTL	ANDOR	2-3-2-2	XI	2.0	0.8	10		5.0		120m	0.4	0	7	1	74H52N	DIP14a
7♦	74H62PC	TTL	ANDOR	2-3-3-2	XO	2.0	0.8			5.0		45m	1.0	0	7	1	74H62N	DIP14a
8♦	DM74H62N	TTL	ANDOR	2-3-3-2	XO	2.0	0.8	10		5.0		45m		0	7	1	74H62N	DIP14a
9♦	N74H62F	TTL	ANDOR	2-3-3-2	XO	2.0	0.8			5.0		45m		0	7	1	74H62N	DIP14b
10♦	N74H62N	TTL	ANDOR	2-3-3-2	XO	2.0	0.8			5.0				0	7	1	74H62N	DIP14a
11♦	SN74H62N	TTL	ANDOR	2-3-3-2	XO	2.0	0.8			5.0		45m	0.4	0	7	1	74H62N	DIP14a
12♦	CM4037AD	CMS	ANDOR	3		10	0			10		200m	4.5	5	C	1	40-37A	MO001AD
13♦	CM4037AE	CMS	ANDOR	3		10	0			10		200m	4.5	4	8	1	40-37A	MO001AB
14♦	HBC4037AD	CMS	ANDOR	3		10	0C			10		100uQ	4.5	5	C	1	40-37A	MO001AD
15♦	HBC4037AF	CMS	ANDOR	3		10	0C			10		100uQ	4.5	5	C	1	40-37A	MO001AD
16♦	HBC4037AK	CMS	ANDOR	3		10	0C			10		100uQ	4.5	5	C	1	40-37A	MO004AF
17♦	HBF4037AE	CMS	ANDOR	3		10	0C			10		1.0mQ	4.5	4	8	1	40-37A	MO001AB
18♦	HBF4037AF	CMS	ANDOR	3		10	0C			10		1.0mQ	4.5	4	8	1	40-37A	MO001AD
19♦	74HCT58D	CMS	ANDOR	3-3/2-2		2.0	0.8	10		5	10n		1.2	4	8	2	74HC58	FP142
20♦	74HCT58N	CMS	ANDOR	3-3/2-2		2.0	0.8	10		5	10n		1.2	4	8	2	74HC58	DIP14a
21♦	FZH151	DTL	ANDOR	3-4	XI	7.5	4.5	20		12	400n	110m	5.0	0	7	2	G01-223	DIP16a
22♦	971DC		ANDOR	4				11	2.0	4.5	3.0n	2.0		0	7	2	G02-120b	TO-116
23♦	MSM510	CMS	ANDOR	4		3.6	0.8	15		5.0	400n	25u		2	7	2	G01-274	DIP14a
24♦	966DC		ANDOR	4				11	4.5	4.5	3.0n	1.0		0	7	3	G02-120	TO-116
25♦	MM4619AD	CMS	ANDOR	4		4.99	.01C			5.0	100n	500m	450m	5	C	4	40-19B	DIP16b
26♦	MM4619AF	CMS	ANDOR	4		4.99	.01C			5.0	100n	500m	450m	5	C	4	40-19B	DIP16b
27♦	MM5619AN	CMS	ANDOR	4		4.99	.01C			5.0	100n	500m	450m	4	8	4	40-19B	DIP16a
28♦	MSM512	CMS	ANDOR	8		3.6	0.8	15		5.0	400n	25u		2	7	1	G01-275	DIP14a
29♦	MSM514	CMS	ANDOR	8		3.6	0.8	15		5.0	400n	25u		2	7	1	G01-276	DIP14a
30♦	K176LS1	MOS	ANDOR	9		8.2	0.3	40		9.0				1	7	3	None	None
31♦	FZH155	DTL	ANDOR	10		7.5	4.5	20		12	400n	110m	5.0	2	8	2	G01-223	DIP16a

GATE, AND-OR-INVERT

35♦	S54LS51F	TTL	AOI			2.0	0.7			5.0	20n	14m	0.3	5	C	2	74L51N	DIP14b
36▼	N74F51D	TTL	AOI			2.0	0.8			5.0	6.5			0	7	2	74L51	DIP14a
37▼	N74F51N	TTL	AOI			2.0	0.8			5.0	6.5			0	7	2	74L51	DIP14a
38♦	883C4085B	CMS	AOI	1-2-2		8.2	6.7			15		300m		5	C	2	40-85B	MO001AA
39♦	4085BDC	CMS	AOI	1-2-2		11	4.0	25e		15		450uQ	6.7	4	8	2	40-85B	TO-116
40♦	4085BDM	CMS	AOI	1-2-2		11	4.0	25e		15		450uQ	6.7	5	C	2	40-85B	TO-116
41♦	4085BFC	CMS	AOI	1-2-2		11	4.0	25e		15		450uQ	6.7	4	8	2	40-85B	FP21h
42♦	4085BFM	CMS	AOI	1-2-2		11	4.0	25e		15		450uQ	6.7	5	C	2	40-85B	FP21h
43♦	4085BPC	CMS	AOI	1-2-2		11	4.0	25e		15		450uQ	6.7	4	8	2	40-85B	DIP14a
44♦	BCL4085B	CMS	AOI	1-2-2		8.2	6.7			15		300m		5	C	2	40-85B	MO001AA
45♦	CD4085BD	CMS	AOI	1-2-2		7.0	3.0	18e		20		500m	2.9	5	C	2	40-85B	MO001AD
46♦	CD4085BE	CMS	AOI	1-2-2		7.0	3.0	18e		20		500m	2.9	4	8	2	40-85B	MO001AB
47♦	CD4085BF	CMS	AOI	1-2-2		7.0	3.0	18e		20		500m	2.9	5	C	2	40-85B	MO001AB
48♦	HCC4085BD	CMS	AOI	1-2-2		10	0	2		10		200m	4.5	5	C	2	40-85B	MO001AD
49♦	HCC4085BF	CMS	AOI	1-2-2		10	0	2		10		200m	4.5	5	C	2	40-85B	MO001AB
50♦	HCC4085BK	CMS	AOI	1-2-2		10	0	2		10		200m	4.5	5	C	2	40-85B	MO004AF
51♦	HCF4085BE	CMS	AOI	1-2-2		10	0	2		10		200m	4.5	4	8	2	40-85B	MO001AB
52♦	HCF4085BF	CMS	AOI	1-2-2		10	0	2		10		200m	4.5	4	8	2	40-85B	MO001AB
53♦	HEF4085	CMS	AOI	1-2-2		11	4.0	16e		15		400m	6.7	4	8	2	40-85B	DL ☑
54♦	HEF4085BPN	CMS	AOI	1-2-2		11.0	4.0	16e		15		400m	6.7	4	8	2	40-85B	DIP14b
55♦	HEF4085BTD	CMS	AOI	1-2-2		11.0	4.0	50e		15		200m	6.7	4	8	2	40-85B	FP147
56♦	HEF4085P	CMS	AOI	1-2-2		7.0	3.0			10		50uQ	4.5	4	8	2	40-85B	TO-116
57♦	MSM4085	CMS	AOI	1-2-2		7.2	2.0	16e		10		1.4mQ	2.0 *	2	7	2	40-85B	DIP14a
58♦	MSM4085RS	CMS	AOI	1-2-2		3.6	1.0	40		16		200m	0.6	4	8	2	40-85B	DIP14 ☑
59♦	SCL4085B	CMS	AOI	1-2-2		3.5	1.0*			5.0		500m	4.0	5	C	2	40-85B	DL ☑
60♦	TC4085BP	CMS	AOI	1-2-2		14.9	.05C	50		15		300m	2.5 *	4	8	2	40-85B	DIP14a
61♦	HEF4085BD	CMS	AOI	1-2-2	XI	7.0	3.0			10	60n	500m		4	8	2	40-85B	DIP14a
62♦	HEF4085BP	CMS	AOI	1-2-2	XI	7.0	3.0			10	60n	500m		4	8	2	40-85B	DIP14a
63♦	HEF4085BT	CMS	AOI	1-2-2	XI	7.0	3.0			10	60n	400m		4	8	2	40-85B	FP147
64♦	N1024A	ECL	AOI	2		-1.1	-1.4	25	5.2		4.0n	95m	400m	0	7	1	None	TO-116
65♦	N1010A	ECL	AOI	2		-1.1	-1.4	25	5.2		4.5n	115m	400m	0	7	1	None	TO-116
66♦	N1011A	ECL	AOI	2		-1.1	-1.4	25	5.2		4.5n	95m	400m	0	7	1	None	TO-116
67♦	54H50DM	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		120m	1.0	5	C	2	74-50N	TO-116
68♦	54H50FM	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		120m	1.0	5	C	2	54-50W	FP21h
69♦	54H51DM	TTL	AOI	2-2		2.0	0.8	10		5.0		120m	1.0	5	C	2	74-51	TO-116
70♦	54H51FM	TTL	AOI	2-2		2.0	0.8	10		5.0		120m	1.0	5	C	2	54-51W	FP21h
71♦	54S51DM	TTL	AOI	2-2		2.0	0.8	20		5.0		22n		5	C	2	74-51	DIP14a
72♦	54S51FM	TTL	AOI	2-2		2.0	0.8	20		5.0		22n		5	C	2	54S51W	FP52
73♦	74H50DC	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		120m	1.0	0	7	2	74-50N	TO-116
74♦	74H50FC	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		60m†	1.0	0	7	2	54-50W	FP21h
75♦	74H50PC	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		120m	1.0	0	7	2	74-50N	DIP14a
76♦	74H51DC	TTL	AOI	2-2		2.0	0.8	10		5.0		120m	1.0	0	7	2	74-51	TO-116
77♦	74H51PC	TTL	AOI	2-2		2.0	0.8	10		5.0		120m	1.0	0	7	2	74-51	DIP14a
78♦	74S51DC	TTL	AOI	2-2		2.0	0.8	20		5.0		22n		0	7	2	74-51	DIP14a
79♦	74S51PC	TTL	AOI	2-2		2.0	0.8	20		5.0		22n		0	7	2	74-51	DIP14a
80♦	5450DM	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		70m	1.0	5	C	2	74-50N	TO-116
81♦	5450FM	TTL	AOI	2-2	XI	2.0	0.8	20		5.0		15n		5	C	2	54-50W	FP52
82♦	5451DM	TTL	AOI	2-2		2.0	0.8	10		5.0		70m	1.0	5	C	2	74-51	TO-116
83♦	5451FM	TTL	AOI	2-2		2.0	0.8	20		5.0		22n		5	C	2	54-51W	FP52
84♦	7450DC	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		70m	1.0	0	7	2	74-50N	TO-116
85♦	7450PC	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		70m	1.0	0	7	2	74-50N	DIP14a
86♦	7451DC	TTL	AOI	2-2		2.0	0.8	10		5.0		70m	1.0	0	7	2	74-51	TO-116
87♦	7451PC	TTL	AOI	2-2		2.0	0.8	10		5.0		70m	1.0	0	7	2	74-51	DIP14a
88♦	9005DC	TTL	AOI	2-2	XI	1.8	0.85	10		5.0		75m†		0	7	2	74-50N	DIP14a
89♦	9005DM	TTL	AOI	2-2	XI	1.7	0.9	11		5.0		64m†		5	C	2	74-50N	DIP14a
90♦	9005FM	TTL	AOI	2-2	XI	1.7	0.9	11		5.0		64m†		5	C	2	54-50W	FP28b
91♦	DM54H50J	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		120m		5	C	2	74-50N	DIP14a
92♦	DM74H50N	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		120m		0	7	2	74-50N	DIP14a
93♦	DM74H51N	TTL	AOI	2-2		2.0	0.8	10		5.0		120m		0	7	2	74-51	DIP14a
94♦	DM5450J	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		28m	400m	5	C	2	74-50N	DIP14a
95♦	DM5450W	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		28m†	400m	5	C	2	54-50W	FP97a
96♦	DM5451J	TTL	AOI	2-2		2.0	0.8	10		5.0		28m†	400m	5	C	2	74-51	DIP14a
97♦	DM5451W	TTL	AOI	2-2		2.0	0.8	10		5.0		28m†	400m	5	C	2	54-51W	FP97a
98♦	DM7450N	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		28m†	400m	0	7	2	74-50N	DIP14a
99♦	DM7451N	TTL	AOI	2-2		2.0	0.8	10		5.0		28m†	400m	0	7	2	74-51	DIP14a
100♦	DM9005CJ	TTL	AOI	2-2	XI	1.6	0.85			5.0		136m		0	7	2	74-50N	DIP14a
101♦	DM9005CN	TTL	AOI	2-2	XI	1.6	0.85			5.0		136m		0	7	2	74-50N	DIP14a
102♦	FJH151-7450	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		28m†	1.0	0	7	2	74-50N	DIP14a
103♦	FJH161-7451	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		28m†	1.0	0	7	2	74-50N	DIP14a
104♦	M53250P	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		14m†	1.0	0	7	2	74-50N	DIP14a
105♦	MB405	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		30m†		0	7	2	74-50N	DIP14b
106♦	MB405M	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		30m†		0	7	2	74-50N	DIP14b
107♦	MB606	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		62m†		0	7	2	74-50N	DIP14b
108♦	MC14506BAL	CMS	AOI	2-2	XI	11	4.0	18e		15		15uQ	2.5 *	5	C	2	45-06B	DIP16a
109♦	MC14506BCL	CMS	AOI	2-2	XI	11	4.0	16e		15		60uQ	2.5 *	4	8	2	45-06B	DIP16a
110♦	MC14506BCP	CMS	AOI	2-2	XI	11	4.0	16e		15		60uQ	2.5 *	4	8	2	45-06B	DIP16a

5. GATES - AND-OR-Invert (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	N74H50F	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		120m		0	7	2	74-50N	DIP14b
2♦	N74H50N	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		120m		0	7	2	74-50N	DIP14a
3♦	N74H51F	TTL	AOI	2-2		2.0	0.8	10		5.0		120m		0	7	2	74-51	DIP14b
4♦	N74H51N	TTL	AOI	2-2		2.0	0.8	10		5.0		120m		0	7	2	74-51	DIP14a
5♦	N74S51D	TTL	AOI	2-2		2.0	0.8	10		5.0		110m	0.4	0	7	2	74-51	FP147
6♦	N74S51N	TTL	AOI	2-2		2.0	0.8	10		5.0		110m	0.4	0	7	2	74-51	DIP14a
7♦	N7450F	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		70m	1.0 †	0	7	2	74-50N	DIP14b
8♦	N7450N	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		70m		0	7	2	74-50N	DIP14a
9♦	N7451F	TTL	AOI	2-2		2.0	0.8	10		5.0		70m	1.0 †	0	7	2	74-51	DIP14b
10♦	N7451N	TTL	AOI	2-2		2.0	0.8	10		5.0		70m	0.4	0	7	2	74-51	DIP14a
11♦	N8840A	TTL	AOI	2-2	XI	2.6	0.4C	20		5		37m	600m	0	7	2	74-50N	TO-116
12♦	N8840F	TTL	AOI	2-2	XI	2.6	0.4C	20		5.0		37m	600m	0	7	2	74-50N	DIP14a
13♦	N8840J	TTL	AOI	2-2	XI	2.0	0.8	20		5		37m	600m	0	7	2	54-50W	TO-88
14♦	RG70CJ	TTL	AOI	2-2		3.4	0.2	15		5.0		40m†	1.1	5	C	2	4-20P	FP52j
15♦	RG70CK	TTL	AOI	2-2		3.4	0.2	15		5.0		40m†	1.1	5	C	2	4-20P	FP52k
16♦	RG70DC	TTL	AOI	2-2		3.4	0.2	15		5.0		40m†	1.1	5	C	2	4-20P	DIP14e
17♦	RG71CJ	TTL	AOI	2-2		3.4	0.2	7		5.0		40m†	1.1	5	C	2	4-20P	FP52j
18♦	RG71CK	TTL	AOI	2-2		3.4	0.2	7		5.0		40m†	1.1	5	C	2	4-20P	FP52k
19♦	RG71DC	TTL	AOI	2-2		3.4	0.2	7		5.0		40m†	1.1	5	C	2	4-20P	DIP14e
20♦	RG72CJ	TTL	AOI	2-2		3.4	0.2	12		5.0		40m†	1.1	0	7	2	4-20P	FP52j
21♦	RG72CK	TTL	AOI	2-2		3.4	0.2	12		5.0		40m†	1.1	0	7	2	4-20P	FP52k
22♦	RG72DC	TTL	AOI	2-2		3.4	0.2	12		5.0		40m†	1.1	0	7	2	4-20P	DIP14e
23♦	RG73CJ	TTL	AOI	2-2		3.4	0.2	6		5.0		40m†	1.1	0	7	2	4-20P	FP52j
24♦	RG73CK	TTL	AOI	2-2		3.4	0.2	6		5.0		40m†	1.1	0	7	2	4-20P	FP52k
25♦	RG73DC	TTL	AOI	2-2		3.4	0.2	6		5.0		40m†	1.1	0	7	2	4-20P	DIP14e
26♦	RG310CJ	TTL	AOI	2-2		3.5	0.2	11		5.0		60m†	1.0	5	C	2	4-20P	FP52j
27♦	RG310CK	TTL	AOI	2-2		3.5	0.2	11		5.0		60m†	1.0	5	C	2	4-20P	FP52k
28♦	RG310DC	TTL	AOI	2-2		3.5	0.2	11		5.0		60m†	1.0	5	C	2	4-20P	DIP14e
29♦	RG311CJ	TTL	AOI	2-2		3.5	0.2	6		5.0		60m†	1.0	5	C	2	4-20P	FP52j
30♦	RG311CK	TTL	AOI	2-2		3.5	0.2	6		5.0		60m†	1.0	5	C	2	4-20P	FP52k
31♦	RG311DC	TTL	AOI	2-2		3.5	0.2	6		5.0		60m†	1.0	5	C	2	4-20P	DIP14e
32♦	RG312CJ	TTL	AOI	2-2		3.5	0.2	9		5.0		60m†	1.0	0	7	2	4-20P	FP52j
33♦	RG312CK	TTL	AOI	2-2		3.5	0.2	9		5.0		60m†	1.0	0	7	2	4-20P	FP52k
34♦	RG312DC	TTL	AOI	2-2		3.5	0.2	9		5.0		60m†	1.0	0	7	2	4-20P	DIP14e
35♦	RG313CJ	TTL	AOI	2-2		3.5	0.2	5		5.0		60m†	1.0	0	7	2	4-20P	FP52j
36♦	RG313CK	TTL	AOI	2-2		3.5	0.2	5		5.0		60m†	1.0	0	7	2	4-20P	FP52k
37♦	RG313DC	TTL	AOI	2-2		3.5	0.2	5		5.0		60m†	1.0	0	7	2	4-20P	DIP14e
38♦	S54H50F	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		120m		5	C	2	74-50N	DIP14b
39♦	S54H50W	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		120m		5	C	2	54-50W	FP39e
40♦	S54H51F	TTL	AOI	2-2		2.0	0.8	10		5.0		120m		5	C	2	74-51	DIP14b
41♦	S54H51W	TTL	AOI	2-2		2.0	0.8	10		5.0		120m		5	C	2	54-51W	FP39e
42♦	S54S51F	TTL	AOI	2-2		2.0	0.8	10		5.0		110m	0.4	5	C	2	74-51	DIP14b
43♦	S54S51W	TTL	AOI	2-2		2.0	0.8	10		5.0		110m	0.4	5	C	2	54S51W	FP153
44♦	S5450F	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		70m	1.0 †	5	C	2	74-50N	DIP14b
45♦	S5450W	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		70m	1.0 †	5	C	2	54-50W	FP39e
46♦	S5451F	TTL	AOI	2-2		2.0	0.8	10		5.0		70m	1.0 †	5	C	2	74-51	DIP14b
47♦	S5451W	TTL	AOI	2-2		2.0	0.8	10		5.0		70m	1.0 †	5	C	2	54-51W	FP39e
48♦	S8840A	TTL	AOI	2-2	XI	2.6	0.4C	20		5		37m	600m	5	C	2	74-50N	TO-116
49♦	S8840F	TTL	AOI	2-2	XI	2.6	0.4C	20		5.0		37m	600m	5	C	2	74-50N	DIP14a
50♦	S8840J	TTL	AOI	2-2	XI	2.0	0.8	20		5		37m	600m	5	C	2	54-50W	TO-88
51♦	SFC450E	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		20m†		0	7	2	74-50N	TO-116
52♦	SFC450EM	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		14m	1.0	5	C	2	74-50N	TO-116
53♦	SFC450ET	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		20m†	400m	2	8	2	74-50N	TO-116
54♦	SFC450HE	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		40m†	400m	0	7	2	74-50N	TO-116
55♦	SFC450HPM	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		40m†	400m	5	C	2	54-50W	ZB ☑
56♦	SFC450PM	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		20m†	400m	5	C	2	54-50W	ZB ☑
57♦	SFC451E	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		20m†		0	7	2	74-50N	TO-116
58♦	SFC451EM	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		40m†	1.0	5	C	2	74-50N	TO-116
59♦	SFC451ET	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		40m†	1.0	2	8	2	74-50N	TO-116
60♦	SFC451HE	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		10n	1.0	0	7	2	74-50N	TO-116
61♦	SFC451HEM	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		10n	1.0	5	C	2	74-50N	TO-116
62♦	SFC451HPM	TTL	AOI	2-2		2.0	0.8	10		5.0		10n	1.0	5	C	2	54-51W	TO-85
63♦	SFC451LE	TTL	AOI	2-2	XI	2.0	0.7	10		5.0		90n	1.0m†	0	7	2	74-50N	TO-116
64♦	SFC451LEM	TTL	AOI	2-2	XI	2.0	0.7	10		5.0		90n	1.0m†	5	C	2	74-50N	TO-116
65♦	SFC451PM	TTL	AOI	2-2		2.0	0.8	10		5.0		20m†	400m	5	C	2	54-51W	ZB ☑
66♦	SN54S51J	TTL	AOI	2-2		2.0	0.8	10		5.0		56m†	0.3	5	C	2	74-51	DIP14a
67♦	SN74H50N	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		120m	0.4	0	7	2	74-50N	DIP14a
68♦	SN74H51N	TTL	AOI	2-2		2.0	0.8	10		5.0		120m	0.4	0	7	2	74-51	DIP14a
69♦	SN74S51D	TTL	AOI	2-2		2.0	0.8			5.0		5.5n	0.3	0	7	2	74-51	FP147
70♦	SN74S51N	TTL	AOI	2-2		2.0	0.8	10		5.0		56m†	0.3	0	7	2	74-51	DIP14a
71♦	SN5450J	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		70m	0.4	5	C	2	74-50N	DIP14a
72♦	SN5451J	TTL	AOI	2-2		2.0	0.8	10		5.0		70m	0.4	5	C	2	74-51	DIP14a
73♦	SN7450N	TTL	AOI	2-2	XI	2.0	0.8	10		5.0		70m	0.4	0	7	2	74-50N	DIP14a
74♦	SN7451N	TTL	AOI	2-2		2.0	0.8	10		5.0		70m	0.4	0	7	2	74-51	DIP14a
75♦	DM54S51J	TTL	AOI	2-2		2.0	0.8	30		5.0	8.0n		0.3	5	C	2	54S51	DIP14a
76▼	MC673L	DTL	AOI	2-2	XO	12.5	1.5C	10		15	110n	160m†		3	7	2	6-73P	TO-116
77▼	MC673P	DTL	AOI	2-2	XO	12.5	1.5C	10		15	110n	160m†		3	7	2	6-73P	DIP14a
78▼	MC674L	DTL	AOI	2-2	XO	12.5	1.5C	10		15	125n	160m†		3	7	2	6-73P	TO-116
79▼	MC674P	DTL	AOI	2-2	XO	12.5	1.5C	10		15	125n	160m†		3	7	2	6-73P	DIP14a
80♦	883C4086B	CMS	AOI	2-2-2-2	XI	8.2	6.7			15		300m		5	C	1	40-86B	MO001AA
81♦	4086BDC	CMS	AOI	2-2-2-2	XI	11	4.0	25e		15		450uQ	6.7	4	8	1	40-86B	TO-116
82♦	4086BDM	CMS	AOI	2-2-2-2	XI	11	4.0	25e		15		450uQ	6.7	5	C	1	40-86B	TO-116
83♦	4086BFC	CMS	AOI	2-2-2-2	XI	11	4.0	25e		15		450uQ	6.7	4	8	1	40-86B	FP21h
84♦	4086BFM	CMS	AOI	2-2-2-2	XI	11	4.0	25e		15		450uQ	6.7	5	C	1	40-86B	FP21h
85♦	4086BPC	CMS	AOI	2-2-2-2	XI	11	4.0	25e		15		450uQ	6.7	4	8	1	40-86B	DIP14a
86♦	5453DM	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0	5	C	1	74-53N	TO-116
87♦	5453FM	TTL	AOI	2-2-2-2	XI	2.0	0.8	20		5.0		22n		5	C	1	54-53W	FP52
88♦	5454DM	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0	5	C	1	74-53N	TO-116
89♦	5454FM	TTL	AOI	2-2-2-2		2.0	0.8	20		5.0		22n		5	C	1	54-54W	FP52
90♦	7453DC	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0	0	7	1	74-53N	TO-116
91♦	7453PC	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0	0	7	1	74-53N	DIP14a
92♦	7454DC	TTL	AOI	2-2-2-2		2.0	0.8	10		5.0		47m	1.0	0	7	1	54-54	TO-116
93♦	7454PC	TTL	AOI	2-2-2-2		2.0	0.8	10		5.0		47m	1.0	0	7	1	54-54	DIP14a
94♦	BCL4086B	CMS	AOI	2-2-2-2	XI	8.2	6.7			15		300m		5	C	1	40-86B	MO001AA
95♦	CD4086BD	CMS	AOI	2-2-2-2	XI	7.0	3.0	18e		20		500m	2.9	5	C	1	40-86B	MO001AD
96♦	CD4086BE	CMS	AOI	2-2-2-2	XI	7.0	3.0	18e		20		500m	2.9	4	8	1	40-86B	MO001AB
97♦	CD4086BF	CMS	AOI	2-2-2-2	XI	7.0	3.0	18e		20		500m	2.9	5	C	1	40-86B	MO001AB
98♦	DM5453J	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		14m†	400m	5	C	1	74-53N	DIP14a
99♦	DM5453W	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		14m†	400m	5	C	1	54-53W	FP97a
100♦	DM5454J	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		14m†	400m	5	C	1	74-53N	DIP14a
101♦	DM5454W	TTL	AOI	2-2-2-2		2.0	0.8	10		5.0		14m†	400m	5	C	1	54-54W	FP97a
102♦	DM7453N	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		14m†	400m	0	7	1	74-53N	DIP14a
103♦	DM7454N	TTL	AOI	2-2-2-2		2.0	0.8	10		5.0		14m†	400m	0	7	1	54-54	DIP14a
104♦	FJH171-7453	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		22m†	1.0	0	7	1	74-53N	DIP14a
105♦	FJH181-7454	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		22m†	1.0	0	7	1	74-53N	DIP14a
106♦	HCC4086BD	CMS	AOI	2-2-2-2	XI	10	0	1		10		200m	4.5	5	C	1	40-86B	MO001AD
107♦	HCC4086BF	CMS	AOI	2-2-2-2	XI	10	0	1		10		200m	4.5	5	C	1	40-86B	MO001AB
108♦	HCC4086BK	CMS	AOI	2-2-2-2	XI	10	0	1		10		200m	4.5	5	C	1	40-86B	MO004AF
109♦	HCF4086BE	CMS	AOI	2-2-2-2	XI	10	0	1		10		200m	4.5	4	8	1	40-86B	MO001AB
110♦	HCF4086BF	CMS	AOI	2-2-2-2	XI	10	0	1		10		200m	4.5	4	8	1	40-86B	MO001AB

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - AND-OR-Invert (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	HEF4086	CMS	AOI	2-2-2-2	XI	11	4.0	16e		15		400m	6.7	4	8	1	40-86B	DL ☑
2♦	HEF4086B	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		5.0uQ		4	8	1	40-86B	TO-116
3♦	HEF4086BPN	CMS	AOI	2-2-2-2	XI	11.0	4.0	16e		15		400m	6.7	4	8	1	40-86B	DIP14b
4♦	HEF4086BTD	CMS	AOI	2-2-2-2	XI	11.0	4.0	50e		15		200m	6.7	4	8	1	40-86B	FP147
5♦	HEF4086P	CMS	AOI	2-2-2-2	XI	9.95	.05C			10		300uQ		4	8	1	40-86B	DIP14b
6♦	M53253P	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		22m†	1.0	0	7	1	74-53N	DIP14a
7♦	MB411	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
8♦	MB411M	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		27m†		0	7	1	74-53N	DIP14b
9♦	MSM4086	CMS	AOI	2-2-2-2	XI	7.2	2.0	16e		10		1.4mQ	2.0 *	2	7	1	40-86B	DIP14a
10♦	MSM4086RS	CMS	AOI	2-2-2-2	XI	3.6	1.0	40		16		200m	0.6	4	8	1	40-86B	DIP14 ☑
11♦	N7453F	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0 †	0	7	1	74-53N	DIP14b
12♦	N7453N	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m		0	7	1	74-53N	DIP14a
13♦	N7454F	TTL	AOI	2-2-2-2		2.0	0.8	10		5.0		47m	1.0 †	0	7	1	54-54	DIP14b
14♦	N7454N	TTL	AOI	2-2-2-2		2.0	0.8	10		5.0		47m		0	7	1	54-54	DIP14a
15♦	S5453F	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0 †	5	C	1	74-53N	DIP14b
16♦	S5454F	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	1.0 †	5	C	1	74-53N	DIP14b
17♦	SCL4086B	CMS	AOI	2-2-2-2	XI	3.5	1.0*			5.0		500m	4.0	5	C	1	40-86B	DL ☑
18♦	SFC453E	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		10m	400m*	0	7	1	74-53N	TO-116
19♦	SFC453EM	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		14m	1.0	5	C	1	74-53N	TO-116
20♦	SFC453ET	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		14m	1.0	2	8	1	74-53N	TO-116
21♦	SFC453HE	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		20m†	400m	0	7	1	74-53N	TO-116
22♦	SFC454E	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		10m	400m*	0	7	1	74-53N	TO-116
23♦	SFC454EM	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		14m	1.0	5	C	1	74-53N	TO-116
24♦	SFC454ET	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		14m	1.0	2	8	1	74-53N	TO-116
25♦	SN5453J	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	0.4	5	C	1	74-53N	DIP14a
26♦	SN5454J	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	0.4	5	C	1	74-53N	DIP14a
27♦	SN7453N	TTL	AOI	2-2-2-2	XI	2.0	0.8	10		5.0		47m	0.4	0	7	1	74-53N	DIP14a
28♦	SN7454N	TTL	AOI	2-2-2-2		2.0	0.8	10		5.0		47m	0.4	0	7	1	54-54	DIP14a
29♦	TC4086BP	CMS	AOI	2-2-2-2	XI	14.9	.05C	50		15		300m	2.5 *	4	8	1	40-86B	DIP14a
30♦	HEF4086BD	CMS	AOI	2-2-2-2	XI	7.0	3.0			10	65n	500m		4	8	1	40-86B	DIP14a
31♦	HEF4086BP	CMS	AOI	2-2-2-2	XI	7.0	3.0			10	65n	500m		4	8	1	40-86B	DIP14a
32♦	HEF4086BT	CMS	AOI	2-2-2-2	XI	7.0	3.0			10	65n	200m		4	8	1	40-86B	FP147
33♦	54H53FM	TTL	AOI	2-2-2-3	XI	2.0	0.8	20		5.0		22n		5	C	1	54H53W	FP52
34♦	54H54DM	TTL	AOI	2-2-2-3		2.0	0.8	10		5.0		70m	1.0	5	C	1	74H54N	TO-116
35♦	54H54FM	TTL	AOI	2-2-2-3		2.0	0.8	10		5.0		70m	1.0	5	C	1	54H54W	FP21h
36♦	74H54DC	TTL	AOI	2-2-2-3		2.0	0.8	10		5.0		70m	1.0	0	7	1	74H54N	TO-116
37♦	74H54PC	TTL	AOI	2-2-2-3		2.0	0.8	10		5.0		70m	1.0	0	7	1	74H54N	DIP14a
38♦	9008FM	TTL	AOI	2-2-2-3	XI	1.7	0.9	11		5.0		55m†		5	C	1	54H53W	FP28b
39♦	N74H54F	TTL	AOI	2-2-2-3		2.0	0.8	10		5.0		70m		0	7	1	74H54N	DIP14b
40♦	N74H54N	TTL	AOI	2-2-2-3		2.0	0.8	10		5.0		70m		0	7	1	74H54N	DIP14a
41♦	N8848J	TTL	AOI	2-2-2-3	XI	2.6	0.4C	20		5		49m	600m	0	7	1	54H53W	TO-88
42♦	RG53CJ	TTL	AOI	2-2-2-3	XI	3.1	0.4	6		5.0		30m†	900m	0	7	1	4-01P	FP52j
43♦	RG250CJ	TTL	AOI	2-2-2-3	XI	1.7	1.1	11		5.0		160m†	1.0	5	C	1	4-01P	FP52j
44♦	RG250CK	TTL	AOI	2-2-2-3	XI	1.7	1.1	11		5.0		160m†	1.0	5	C	1	4-01P	FP52k
45♦	RG250DC	TTL	AOI	2-2-2-3	XI	1.7	1.1	11		5.0		160m†	1.0	5	C	1	4-01P	DIP14e
46♦	RG251CJ	TTL	AOI	2-2-2-3	XI	1.7	1.1	6		5.0		160m†	1.0	5	C	1	4-01P	FP52j
47♦	RG251CK	TTL	AOI	2-2-2-3	XI	1.7	1.1	6		5.0		160m†	1.0	5	C	1	4-01P	FP52k
48♦	RG251DC	TTL	AOI	2-2-2-3	XI	1.7	1.1	6		5.0		160m†	1.0	5	C	1	4-01P	DIP14e
49♦	RG252CJ	TTL	AOI	2-2-2-3	XI	1.7	1.1	9		5.0		160m†	1.0	0	7	1	4-01P	FP52j
50♦	RG252CK	TTL	AOI	2-2-2-3	XI	1.7	1.1	9		5.0		160m†	1.0	0	7	1	4-01P	FP52k
51♦	RG252DC	TTL	AOI	2-2-2-3	XI	1.7	1.1	9		5.0		160m†	1.0	0	7	1	4-01P	DIP14e
52♦	RG253CJ	TTL	AOI	2-2-2-3	XI	1.7	1.1	5		5.0		160m†	1.0	0	7	1	4-01P	FP52j
53♦	RG253CK	TTL	AOI	2-2-2-3	XI	1.7	1.1	5		5.0		160m†	1.0	0	7	1	4-01P	FP52k
54♦	RG253DC	TTL	AOI	2-2-2-3	XI	1.7	1.1	5		5.0		160m†	1.0	0	7	1	4-01P	DIP14e
55♦	S54H53W	TTL	AOI	2-2-2-3	XI	2.0	0.8	10		5.0		70m		5	C	1	54H53W	FP39e
56♦	S54H54F	TTL	AOI	2-2-2-3		2.0	0.8	10		5.0		70m		5	C	1	74H54N	DIP14b
57♦	S54H54W	TTL	AOI	2-2-2-3		2.0	0.8	10		5.0		70m		5	C	1	54H54W	FP39e
58♦	S5453W	TTL	AOI	2-2-2-3	XI	2.0	0.8	10		5.0		47m	1.0 †	5	C	1	54H53W	FP39e
59♦	S5454W	TTL	AOI	2-2-2-3		2.0	0.8	10		5.0		47m	1.0 †	5	C	1	54H54W	FP39e
60♦	S8848J	TTL	AOI	2-2-2-3	XI	2.6	0.4C	20		5		49m	600m	5	C	1	54H53W	TO-88
61♦	SFC453HPM	TTL	AOI	2-2-2-3	XI	2.0	0.8	10		5.0		20m†	400m	5	C	1	54H53W	ZB ☑
62♦	SFC453PM	TTL	AOI	2-2-2-3	XI	2.0	0.8	10		5.0		40m†	400m	5	C	1	54H53W	ZB ☑
63♦	SFC454HE	TTL	AOI	2-2-2-3		2.0	0.8	10		5.0		10n	1.0	0	7	1	74H54N	TO-116
64♦	SFC454HEM	TTL	AOI	2-2-2-3		2.0	0.8	10		5.0		10n	1.0	5	C	1	74H54N	TO-116
65♦	SFC454HPM	TTL	AOI	2-2-2-3		2.0	0.8	10		5.0		10n	1.0	5	C	1	54H54W	TO-85
66♦	SFC454PM	TTL	AOI	2-2-2-3		2.0	0.8	10		5.0		40m†	400m	5	C	1	54H54W	ZB ☑
67♦	SN74H54N	TTL	AOI	2-2-2-3		2.0	0.8	10		5.0		70m	0.4	0	7	1	74H54N	DIP14a
68♦	S54H53F	TTL	AOI	2-2-2-3	XI	2.0	0.8	10		5.0	7.0n	70m		5	C	1	74H53N	DIP14b
69♦	54H53DM	TTL	AOI	2-2-2-3	XI	2.0	0.8	10		5.0	11n	70m	1.0	5	C	1	74H53N	TO-116
70♦	74H53DC	TTL	AOI	2-2-2-3	XI	2.0	0.8	10		5.0	11n	70m	1.0	0	7	1	74H53N	TO-116
71♦	74H53PC	TTL	AOI	2-2-2-3	XI	2.0	0.8	10		5.0	11n	70m	1.0	0	7	1	74H53N	DIP14a
72♦	SN74H53N	TTL	AOI	2-2-2-3	XI	2.0	0.8	10		5.0	11n	70m	0.4	0	7	1	74H53N	DIP14a
73♦	N8848A	TTL	AOI	2-2-2-3		2.6	0.4C	20		5	13n	49m	600m	0	7	1	74H53N	TO-116
74♦	N8848F	TTL	AOI	2-2-2-3		2.6	0.4C	20		5.0	13n	49m	600m	0	7	1	74H53N	DIP14a
75♦	S8848A	TTL	AOI	2-2-2-3		2.6	0.4C	20		5	13n	49m	600m	5	C	1	74H53N	TO-116
76♦	S8848F	TTL	AOI	2-2-2-3		2.6	0.4C	20		5.0	13n	49m	600m	5	C	1	74H53N	DIP14a
77♦	9008DC	TTL	AOI	2-2-2-3	XI	1.8	0.85	10		5.0	14n	70m†		0	7	1	74H53N	DIP14a
78♦	9008DM	TTL	AOI	2-2-2-3	XI	1.7	0.9	11		5.0	14n	55m†		5	C	1	74H53N	DIP14a
79♦	DM9008CJ	TTL	AOI	2-2-2-3	XI	1.6	0.85			5.0	15n	88m		0	7	1	74H53N	DIP14a
80♦	DM9008CN	TTL	AOI	2-2-2-3	XI	1.6	0.85			5.0	15n	88m		0	7	1	74H53N	DIP14a
81♦	K176LP11	MOS	AOI	2-2-2-3		8.2	0.3	50		9.0	250n		0.9	1	7	2	None	None
82♦	RG50CJ	TTL	AOI	2-2-2-3	XI	3.2	0.4	15		5.0		30m†	900m	5	C	4	4-01P	FP52j
83♦	RG50CK	TTL	AOI	2-2-2-3	XI	3.2	0.4	15		5.0		30m†	900m	5	C	4	4-01P	FP52k
84♦	RG50DC	TTL	AOI	2-2-2-3	XI	3.2	0.4	15		5.0		30m†	900m	5	C	4	4-01P	DIP14e
85♦	RG51CJ	TTL	AOI	2-2-2-3	XI	3.2	0.4	7		5.0		30m†	900m	5	C	4	4-01P	FP52j
86♦	RG51CK	TTL	AOI	2-2-2-3	XI	3.2	0.4	7		5.0		30m†	900m	5	C	4	4-01P	FP52k
87♦	RG51DC	TTL	AOI	2-2-2-3	XI	3.2	0.4	7		5.0		30m†	900m	5	C	4	4-01P	DIP14e
88♦	RG52CJ	TTL	AOI	2-2-2-3	XI	3.1	0.4	12		5.0		30m†	900m	0	7	4	4-01P	FP52j
89♦	RG52CK	TTL	AOI	2-2-2-3	XI	3.1	0.4	12		5.0		30m†	900m	0	7	4	4-01P	FP52k
90♦	RG52DC	TTL	AOI	2-2-2-3	XI	3.1	0.4	12		5.0		30m†	900m	0	7	4	4-01P	DIP14e
91♦	RG53CK	TTL	AOI	2-2-2-3	XI	3.1	0.4	6		5.0		30m†	900m	0	7	4	4-01P	FP52k
92♦	RG53DC	TTL	AOI	2-2-2-3	XI	3.1	0.4	6		5.0		30m†	900m	0	7	4	4-01P	DIP14e
93♦	54LS54FM	TTL	AOI	2-2-3-3		2.0	0.7			5.0		10mQ	300m	5	C	1	54LS54W	TO-86
94♦	DM54L54W	TTL	AOI	2-2-3-3		2.0	0.7	1		8.0		90n	0.4	5	C	1	54L54T	FP97c
95♦	RG230CJ	TTL	AOI	2-2-3-3	OC	3.5	0.2			5.0		28m†	1.0	5	C	1	4-09P	FP52j
96♦	RG230CK	TTL	AOI	2-2-3-3	OC	3.5	0.2			5.0		28m†	1.0	5	C	1	4-09P	FP52k
97♦	RG230DC	TTL	AOI	2-2-3-3	OC	3.5	0.2			5.0		28m†	1.0	5	C	1	4-09P	DIP14e
98♦	RG231CJ	TTL	AOI	2-2-3-3	OC	3.5	0.2			5.0		28m†	1.0	5	C	1	4-09P	FP52j
99♦	RG231CK	TTL	AOI	2-2-3-3	OC	3.5	0.2			5.0		28m†	1.0	5	C	1	4-09P	FP52k
100♦	RG231DC	TTL	AOI	2-2-3-3	OC	3.5	0.2			5.0		28m†	1.0	5	C	1	4-09P	DIP14e
101♦	RG232CJ	TTL	AOI	2-2-3-3	OC	3.5	0.2			5.0		28m†	1.0	0	7	1	4-09P	FP52j
102♦	RG232CK	TTL	AOI	2-2-3-3	OC	3.5	0.2			5.0		28m†	1.0	0	7	1	4-09P	FP52k
103♦	RG232DC	TTL	AOI	2-2-3-3	OC	3.5	0.2			5.0		28m†	1.0	0	7	1	4-09P	DIP14e
104♦	RG233CJ	TTL	AOI	2-2-3-3	OC	3.5	0.2			5.0		28m†	1.0	0	7	1	4-09P	FP52j
105♦	RG233CK	TTL	AOI	2-2-3-3	OC	3.5	0.2			5.0		28m†	1.0	0	7	1	4-09P	FP52k
106♦	RG233DC	TTL	AOI	2-2-3-3	OC	3.5	0.2			5.0		28m†	1.0	0	7	1	4-09P	DIP14e
107♦	S54LS54W	TTL	AOI	2-2-3-3		2.0	0.7			5.0		10m		5	C	1	54LS54W	FP39e
108♦	SN54LS54J	TTL	AOI	2-2-3-3		2.0	0.7			5.0		20n	0.3	5	C	1	74LS54N	DIP14a
109▾	SN54LS54N	TTL	AOI	2-2-3-3		2.0	0.7			5.0		20n	0.3	5	C	1	74LS54N	DIP14a
110♦	SN74LS54D	TTL	AOI	2-2-3-3		2.0	0.8			5.0		20n	0.4	0	7	1	74LS54	FP147

5. GATES - AND-OR-Invert (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	SN74LS54J	TTL	AOI	2-2-3-3		2.0	0.8			5.0		20n	0.4	0	7	1	74LS54N	DIP14a
2♦	SN74LS54N	TTL	AOI	2-2-3-3		2.0	0.8			5.0		20n	0.4	0	7	1	74LS54N	DIP14a
3♦	54LS54DM	TTL	AOI	2-2-3-3		2.0	0.7			5.0	10n	10mQ	300m	5	C	1	74LS4N	TO-116
4♦	74LS54DC	TTL	AOI	2-2-3-3		2.0	0.8	5		5.0	10n	10mQ	300m	0	7	1	74LS4N	TO-116
5♦	74LS54PC	TTL	AOI	2-2-3-3		2.0	0.8	5		5.0	10n	10mQ	300m	0	7	1	74LS4N	TO-116
6♦	T54LS54D2	TTL	AOI	2-2-3-3		2.0	0.7	11d		5.0	10n	10mQ	300m	5	C	1	74LS4N	DIP14b
7♦	T74LS54B1	TTL	AOI	2-2-3-3		2.0	0.8	22d		5.0	10n	10mQ	300m	0	7	1	74LS4N	DIP14a
8♦	T74LS54D1	TTL	AOI	2-2-3-3		2.0	0.8	22d		5.0	10n	10mQ	300m	0	7	1	74LS4N	DIP14b
9♦	DN74LS54P1	TTL	AOI	2-2-3-3		2.0	0.8	20		5.0	20n	400m	700m	2	7	1	74LS4	DIP14a
10♦	DN74LS54P4	TTL	AOI	2-2-3-3		2.0	0.8	20		5.0	20n	400m	700m	2	7	1	74LS4	FP177
11▼	HD74LS54G	TTL	AOI	2-2-3-3		2.0	0.8			5.0	20n	400m	300m	2	7	1	74LS4N	DIP14a
12♦	HD74LS54P	TTL	AOI	2-2-3-3		2.0	0.8			5.0	20n	400m	300m	2	7	1	74LS4N	DIP14a
13♦	MB74LS54	TTL	AOI	2-2-3-3		2.0	0.8	20		5.0	20n	10m	1.0 *	2	7	1	74LS4N	DIP14a
14♦	MB74LS54M	TTL	AOI	2-2-3-3		2.0	0.8	20		5.0	20n	10m	1.0 *	2	7	1	74LS4N	DIP14a
15♦	N74LS54D	TTL	AOI	2-2-3-3		2.0	0.7	20		5.0	20n	10m	0.3	0	7	1	74LS4N	DIP14b
16♦	N74LS54N	TTL	AOI	2-2-3-3		2.0	0.7	20		5.0	20n	10m	0.3	0	7	1	74LS4N	DIP14a
17♦	S54LS54F	TTL	AOI	2-2-3-3		2.0	0.7			5.0	20n	10m		5	C	1	74LS4N	DIP14b
18♦	SN54LS54FK	TTL	AOI	2-2-3-3		2.0	0.7			5.0	20n		0.3	5	C	1	G11-04	LC19
19♦	DM54LS54J	TTL	AOI	2-2-3-3		2.0	0.7	10		5.0	25n		0.3	5	C	1	74LS4	DIP14a
20♦	DM74LS54N	TTL	AOI	2-2-3-3		2.0	0.8	10		5.0	25n		0.3	0	7	1	74LS4	DIP14a
21♦	DM54L54J	TTL	AOI	2-2-3-3		2.0	0.7	20		5.0	90n	1.0m†		5	C	1	74LS4N	DIP14a
22♦	DM74L54N	TTL	AOI	2-2-3-3		2.0	0.7	20		5.0	90n	1.0m†		0	7	1	74LS4N	DIP14a
23♦	54F64FM	TTL	AOI	2-2-3-4		2.0	0.8	12		5.0		24m		5	C	1	54S64W	FP115
24♦	54S64FM	TTL	AOI	2-2-3-4		2.0	0.8	10		5.0		39m†	1.0	5	C	1	54S64W	FP21h
25♦	S54F64W	TTL	AOI	2-2-3-4		2.0	0.8		-0.5	5.0		6.0n		5	C	1	54S64W	FP153
26♦	S54S64W	TTL	AOI	2-2-3-4		2.0	0.8	10		5.0		80m		5	C	1	54S64W	FP39e
27♦	SN54S64W	TTL	AOI	2-2-3-4		2.0	0.8	20		5.0		39m†	0.3	5	C	1	54S64W	FP97a
28♦	54S65FM	TTL	AOI	2-2-3-4	OC	2.0	0.8	10		5.0	2.0n	36m†	1.0	5	C	1	54S65W	FP52
29♦	54S64DM	TTL	AOI	2-2-3-4		2.0	0.8	10		5.0	3.5n	39m†	1.0	5	C	1	74S64N	TO-116
30♦	74S64DC	TTL	AOI	2-2-3-4		2.0	0.8	10		5.0	3.5n	39m†	1.0	0	7	1	74S64N	TO-116
31♦	74S64PC	TTL	AOI	2-2-3-4		2.0	0.8	10		5.0	3.5n	39m†	1.0	0	7	1	74S64N	DIP14a
32♦	74S65PC	TTL	AOI	2-2-3-4	OC	2.0	0.8	10		5.0	5.0n	36m†	1.0	0	7	1	74S65N	DIP14a
33♦	DM74S64N	TTL	AOI	2-2-3-4		2.0	0.8	10		5.0	5.5n	39m†		0	7	1	74S64N	DIP14a
34♦	N74S64D	TTL	AOI	2-2-3-4		2.0	0.8	10		5.0	5.5n	80m	0.3	0	7	1	74S64N	FP147
35♦	N74S64F	TTL	AOI	2-2-3-4		2.0	0.8	10		5.0	5.5n	80m	1.0 †	0	7	1	74S64N	DIP14b
36♦	N74S64N	TTL	AOI	2-2-3-4		2.0	0.8	10		5.0	5.5n	80m	0.3	0	7	1	74S64N	DIP14a
37♦	S54S64F	TTL	AOI	2-2-3-4		2.0	0.8	10		5.0	5.5n	80m		5	C	1	74S64N	DIP14b
38♦	SN54S64J	TTL	AOI	2-2-3-4		2.0	0.8	20		5.0	5.5n	39m†	0.3	5	C	1	74S64N	DIP14a
39♦	SN74S64D	TTL	AOI	2-2-3-4		2.0	0.8			5.0	5.5n		0.3	0	7	1	74S64N	FP147
40♦	SN74S64N	TTL	AOI	2-2-3-4		2.0	0.8	20		5.0	5.5n	39m†	0.3	0	7	1	74S64N	DIP14a
41♦	MC74F64J	TTL	AOI	2-2-3-4		2.0	0.8			5.0	6.0n		300m	0	7	1	74S64N	DIP14a
42♦	MC74F64N	TTL	AOI	2-2-3-4		2.0	0.8			5.0	6.0n		300m	0	7	1	74S64N	DIP14a
43♦	N74F64F	TTL	AOI	2-2-3-4		2.0	0.8			5.0	6.0n			0	7	1	74S64N	DIP14a
44♦	N74F64D	TTL	AOI	2-2-3-4		2.0	0.8			5.0	7.0n			0	7	1	74S64N	FP147
45♦	N74F64N	TTL	AOI	2-2-3-4		2.0	0.8			5.0	7.0n			0	7	1	74S64N	DIP14a
46♦	74F64DC	TTL	AOI	2-2-3-4		2.0	0.8	12		5.0	7.5n	24m		0	7	1	74S64N	DIP14b
47♦	74F64L1C	TTL	AOI	2-2-3-4		2.0	0.8			5.0	7.5n			0	7	1	G01-318	LC19
48♦	74F64PC	TTL	AOI	2-2-3-4		2.0	0.8	12		5.0	7.5n	24m		0	7	1	74S64N	DIP14a
49♦	74F64QC	TTL	AOI	2-2-3-4		2.0	0.8			5.0	7.5n			0	7	1	G01-318	LC26
50♦	74F64SC	TTL	AOI	2-2-3-4		2.0	0.8			5.0	7.5n			0	7	1	54S64	FP147
51♦	DM54S64J	TTL	AOI	2-2-3-4		2.0	0.8			5.0	8.0n		0.3	5	C	1	54S64	DIP14a
52♦	DM74S65N	TTL	AOI	2-2-3-4	OC	2.0	0.8	10		5.0	8.5n	36m†		0	7	1	74S65N	DIP14a
53♦	N74S65F	TTL	AOI	2-2-3-4	OC	2.0	0.8	10		5.0	8.5n	80m	1.0 †	0	7	1	74S65N	DIP14b
54♦	N74S65N	TTL	AOI	2-2-3-4	OC	2.0	0.8	10		5.0	8.5n	80m		0	7	1	74S65N	DIP14a
55♦	S54S65F	TTL	AOI	2-2-3-4	OC	2.0	0.8	10		5.0	8.5n	80m		5	C	1	74S65N	DIP14b
56♦	S54S65W	TTL	AOI	2-2-3-4	OC	2.0	0.8	10		5.0	8.5n	80m		5	C	1	54S65W	FP39e
57♦	SN54S65J	TTL	AOI	2-2-3-4	OC	2.0	0.8	10		5.0	8.5n	36m†	0.3	5	C	1	74S65N	DIP14a
58♦	SN74S65N	TTL	AOI	2-2-3-4	OC	2.0	0.8	10		5.0	8.5n	36m†	0.3	0	7	1	74S65N	DIP14a
59♦	DM54S65J	TTL	AOI	2-2-3-4	OC	2.0	0.8			5.0	12n		0.3	5	C	1	54S65	DIP14a
60♦	SN74S65D	TTL	AOI	2-2-3-4	OC	2.0	0.8			5.0	8.5		0.3	0	7	1	74S65N	FP147
61▼	SN74HC51D	CMS	AOI	2-2/2-3		3.15	0.9			5.0	35n			4	8	2	74-51	FP147
62♦	SN74HC51N	CMS	AOI	2-2/2-3		3.15	0.9			5.0	35n			4	8	2	74-51	MO001AA
63♦	SN54HC51J	CMS	AOI	2-2/2-3		3.15	0.9			5.0	42n			5	C	2	74LS51	MO001AA
64♦	54LS51FM	TTL	AOI	2-2/3-3		2.0	0.7			5.0		14mQ	300m	5	C	2	54LS51W	TO-86
65♦	DN74LS51P1	TTL	AOI	2-2/3-3		2.0	0.8	20		5.0		400m	700m	2	7	2	74LS51	DIP14a
66♦	DN74LS51P4	TTL	AOI	2-2/3-3		2.0	0.8	20		5.0		400m	700m	2	7	2	74LS51	FP177
67♦	M54HC51F1(A)	CMS	AOI	2-2/3-3		3.15	1.35	10		5.0		500m	1.2	5	C	2	74LS51	DIP14a
68♦	M74HC51B1(A)	CMS	AOI	2-2/3-3		3.15	1.35	10		5.0		500m	1.2	4	8	2	74LS51	DIP14a
69♦	M74HC51F1(A)	CMS	AOI	2-2/3-3		3.15	1.35	10		5.0		500m	1.2	4	8	2	74LS51	DIP14a
70♦	MC54HC51J(A)	CMS	AOI	2-2/3-3		3.15	0.9	10		5.0		500m	1.2	5	C	2	74LS51	DIP14a
71♦	MC74HC51J(A)	CMS	AOI	2-2/3-3		3.15	0.9	10		5.0		500m	1.2	4	8	2	74-51	DIP14a
72♦	MC74HC51N(A)	CMS	AOI	2-2/3-3		3.15	0.9	10		5.0		500m	1.2	4	8	2	74-50N	DIP14a
73♦	MM54HC51J(A)	CMS	AOI	2-2/3-3		4.2	1.2			5.0		500m	1.7	5	C	2	74LS51	DIP14a
74♦	MM74HC51J(A)	CMS	AOI	2-2/3-3		3.15	0.9			4.5		500m	1.7	4	8	2	74-51	DIP14a
75♦	MM74HC51N(A)	CMS	AOI	2-2/3-3		3.15	0.9			4.5		500m	1.7	4	8	2	74-51	DIP14a
76♦	S54LS51W	TTL	AOI	2-2/3-3		2.0	0.7			5.0		14m	0.3	5	C	2	54LS51W	FP153
77♦	SN54LS51J	TTL	AOI	2-2/3-3		2.0	0.7			5.0		20n	0.3	5	C	2	74LS51N	DIP14a
78▼	SN54LS51N	TTL	AOI	2-2/3-3		2.0	0.7			5.0		20n	0.3	5	C	2	74LS51N	DIP14a
79♦	SN54LS51W	TTL	AOI	2-2/3-3		2.0	0.7	11		5.0		14m	0.3	5	C	2	54LS51W	FP97a
80♦	SN74LS51D	TTL	AOI	2-2/3-3		2.0	0.8			5.0		20n	0.4	0	7	2	74LS51	FP147
81♦	SN74LS51J	TTL	AOI	2-2/3-3		2.0	0.8			5.0		20n	0.4	0	7	2	74LS51N	DIP14a
82♦	SN74LS51N	TTL	AOI	2-2/3-3		2.0	0.8			5.0		20n	0.4	0	7	2	74LS51N	DIP14a
83♦	54LS51DM	TTL	AOI	2-2/3-3		2.0	0.7			5.0	8.0n	14mQ	300m	5	C	2	74L51N	TO-116
84♦	74LS51DC	TTL	AOI	2-2/3-3		2.0	0.8	5		5.0	8.0n	14mQ	300m	0	7	2	74L51N	TO-116
85♦	74LS51PC	TTL	AOI	2-2/3-3		2.0	0.8	5		5.0	8.0n	14mQ	300m	0	7	2	74L51N	TO-116
86♦	T54LS51D2	TTL	AOI	2-2/3-3		2.0	0.7	11d		5.0	8.0n	14mQ	300m	5	C	2	74L51N	DIP14b
87♦	T74LS51B1	TTL	AOI	2-2/3-3		2.0	0.8	22d		5.0	8.0n	14mQ	300m	0	7	2	74L51N	DIP14a
88♦	T74LS51D1	TTL	AOI	2-2/3-3		2.0	0.8	22d		5.0	8.0n	14mQ	300m	0	7	2	74L51N	DIP14b
89♦	UPD74HC51C(A)	CMS	AOI	2-2/3-3		4.2	1.2			5.0	9.0n	500m		4	8	2	74L51	MO001AA
90▼	HD74HC51FP	CMS	AOI	2-2/3-3		3.15	1.35			5.0	10n	500m	1.2	4	8	2	74LS51	FP161
91▼	HD74HC51P	CMS	AOI	2-2/3-3		3.15	1.35			5.0	10n	500m	1.2	4	8	2	74LS51	DIP14a
92♦	DM54LS51J	TTL	AOI	2-2/3-3		2.0	0.7	10		5.0	18n		0.3	5	C	2	74L51	DIP14a
93♦	DM74LS51N	TTL	AOI	2-2/3-3		2.0	0.8	10		5.0	18n		0.3	0	7	2	74L51	DIP14a
94♦	M74HC51C1(A)	CMS	AOI	2-2/3-3		3.15	1.35	10		5.0	18n	500m	1.2	4	8	2	G11-02	LC33
95▼	HD74LS51G	TTL	AOI	2-2/3-3		2.0	0.8			5.0	20n	400m	300m	2	7	2	74L51N	DIP14a
96♦	HD74LS51P	TTL	AOI	2-2/3-3		2.0	0.8			5.0	20n	400m	300m	2	7	2	74L51N	DIP14a
97♦	M74LS51P	TTL	AOI	2-2/3-3		2.0	0.8	20		5.0	20n	5.5m†	0.4	2	7	2	74L51N	DIP14a
98♦	MB74LS51	TTL	AOI	2-2/3-3		2.0	0.8	20		5.0	20n	14m	1.0 *	2	7	2	74L51N	DIP14a
99♦	MB74LS51M	TTL	AOI	2-2/3-3		2.0	0.8	20		5.0	20n	14m	1.0 *	2	7	2	74L51N	DIP14a
100♦	N74LS51D	TTL	AOI	2-2/3-3		2.0	0.8	20		5.0	20n	14m	0.4	0	7	2	74L51N	FP147
101♦	N74LS51N	TTL	AOI	2-2/3-3		2.0	0.7	20		5.0	20n	14m	0.3	0	7	2	74L51N	DIP14a
102▼	TC74HC51F(A)	CMS	AOI	2-2/3-3		3.15	1.35	10d		5.0	26n	180m	1.2	4	8	2	74LS51	FP166
103▼	TC74HC51P(A)	CMS	AOI	2-2/3-3		3.15	1.35	10d		5.0	26n	500m	1.2	4	8	2	74LS51	DIP14a
104♦	DM54L51J	TTL	AOI	2-2/3-3		2.0	0.7	20		5.0	90n	2.0m†		5	C	2	74L51N	DIP14a
105♦	DM74L51N	TTL	AOI	2-2/3-3		2.0	0.7	20		5.0	90n	2.0m†		5	C	2	74L51N	DIP14a
106♦	RG300CJ	TTL	AOI	3-3-3		1.7	1.1	11		5.0		105m†	1.0	5	C	1	4-04P	FP52j
107♦	RG300CK	TTL	AOI	3-3-3		1.7	1.1	11		5.0		105m†	1.0	5	C	1	4-04P	FP52k
108♦	RG300DC	TTL	AOI	3-3-3		1.7	1.1	11		5.0		105m†	1.0	5	C	1	4-04P	DIP14e
109♦	RG301CJ	TTL	AOI	3-3-3		1.7	1.1	6		5.0		105m†	1.0	5	C	1	4-04P	FP52j
110♦	RG301CK	TTL	AOI	3-3-3		1.7	1.1	6		5.0		105m†	1.0	5	C	1	4-04P	FP52k

5. GATES - AND-OR-Invert (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	RG301DC	TTL	AOI	3-3-3		1.7	1.1	6		5.0		105m†	1.0	5	C	1	4-04P	DIP14e
2♦	RG302CJ	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	FP52j
3♦	RG302CK	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	FP52k
4♦	RG302DC	TTL	AOI	3-3-3		3.5	0.2	9		5.0		105m†	1.0	0	7	1	4-04P	DIP14e
5♦	RG303CJ	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	FP52j
6♦	RG303CK	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	FP52k
7♦	RG303DC	TTL	AOI	3-3-3		1.7	1.1	5		5.0		105m†	1.0	0	7	1	4-04P	DIP14e
8♦	TC40H051F	CMS	AOI	3-3/2-2		4.0	1.0			10	36n	180m	.95	4	8	2	74L51N	FP166
9♦	TC40H051P	CMS	AOI	3-3/2-2		4.0	1.0	50		10	36n	300m	.95	4	8	2	74L51N	MO001AA
10♦	N1004A	ECL	AOI	4		-1.1	-1.4	25	4.5		4.0n	95m	400m	0	7	1	None	TO-116
11♦	N1005A	ECL	AOI	4		-1.1	-1.4	25	4.5		4.0n	65m	400m	0	7	1	None	TO-116
12♦	N1006A	ECL	AOI	4		-1.1	-1.4	25	4.5		4.0n	45m	400m	0	7	1	None	TO-116
13♦	MC54F64J	TTL	AOI	4-2-3-2		2.0	0.8			5.0	6.0n		300m	5	C	1	74S64N	DIP14a
14♦	S54F64F	TTL	AOI	4-2-3-2		2.0	0.8			5.0	6.0n			5	C	1	74S64N	DIP14a
15♦	54F64L1M	TTL	AOI	4-2-3-2		2.0	0.8			5.0	8.5n			5	C	1	G01-318	LC19
16▼	MC54F64N	TTL	AOI	4-2-3-2		2.0	0.8			5.0	6.0n		300m	5	C	4	74S64N	DIP14a
17♦	54H55FM	TTL	AOI	4-4	XI	2.0	0.8	10		5.0		60m	1.0	5	C	1	54H55W	FP21h
18♦	54LS55FM	TTL	AOI	4-4	XI	2.0	0.7			5.0		6.5mQ	300m	5	C	1	54LS55W	TO-86
19♦	74H55PC	TTL	AOI	4-4	XI	2.0	0.8	10		5.0		60m	1.0	0	7	1	74H55N	DIP14a
20♦	74LS55PC	TTL	AOI	4-4		2.0	0.8	5		5.0		6.5mQ	300m	0	7	1	74L55N	TO-116
21♦	DM54L55J	TTL	AOI	4-4	XI	2.0	0.7	20		5.0		1.0m†		5	C	1	74L55N	DIP14a
22♦	DM54L55W	TTL	AOI	4-4	XI	2.0	0.7	2		8.0		90n	0.4	5	C	1	54L55T	FP97c
23♦	DM74L55N	TTL	AOI	4-4		2.0	0.7	20		5.0		1.0m†		0	7	1	74L55N	DIP14a
24▼	HD74LS55G	TTL	AOI	4-4		2.0	0.8			5.0		400m	300m	2	7	1	74L55N	DIP14a
25♦	HD74LS55P	TTL	AOI	4-4		2.0	0.8			5.0		400m	300m	2	7	1	74L55N	DIP14a
26♦	MB74LS55	TTL	AOI	4-4		2.0	0.8	20		5.0		6.5m	1.0 *	2	7	1	74L55N	DIP14a
27♦	MB74LS55M	TTL	AOI	4-4		2.0	0.8	20		5.0		6.5m	1.0 *	2	7	1	74L55N	DIP14a
28♦	N74H55F	TTL	AOI	4-4	XI	2.0	0.8	10		5.0		60m		0	7	1	74H55N	DIP14b
29♦	N74H55N	TTL	AOI	4-4	XI	2.0	0.8	10		5.0		60m		0	7	1	74H55N	DIP14a
30♦	N74LS55F	TTL	AOI	4-4		2.0	0.8	20		5.0		6.5m		0	7	1	74L55N	DIP14b
31♦	N74LS55N	TTL	AOI	4-4		2.0	0.8	20		5.0		6.5m		0	7	1	74L55N	DIP14a
32♦	RG110CJ	TTL	AOI	4-4		3.4	0.2	15		5.0		20m†	1.1	5	C	1	4-05P	FP52j
33♦	RG110CK	TTL	AOI	4-4		3.4	0.2	15		5.0		20m†	1.1	5	C	1	4-05P	FP52k
34♦	RG110DC	TTL	AOI	4-4		3.4	0.2	15		5.0		20m†	1.1	5	C	1	4-05P	DIP14e
35♦	RG111CJ	TTL	AOI	4-4		3.4	0.2	7		5.0		20m†	1.1	5	C	1	4-05P	FP52j
36♦	RG111CK	TTL	AOI	4-4		3.4	0.2	7		5.0		20m†	1.1	5	C	1	4-05P	FP52k
37♦	RG111DC	TTL	AOI	4-4		3.4	0.2	7		5.0		20m†	1.1	5	C	1	4-05P	DIP14e
38♦	RG112CJ	TTL	AOI	4-4		3.4	0.2	12		5.0		20m†	1.1	0	7	1	4-05P	FP52j
39♦	RG112CK	TTL	AOI	4-4		3.4	0.2	12		5.0		20m†	1.1	0	7	1	4-05P	FP52k
40♦	RG112DC	TTL	AOI	4-4		3.4	0.2	12		5.0		20m†	1.1	0	7	1	4-05P	DIP14e
41♦	RG113CJ	TTL	AOI	4-4		3.4	0.2	6		5.0		20m†	1.1	0	7	1	4-05P	FP52j
42♦	RG113CK	TTL	AOI	4-4		3.4	0.2	6		5.0		20m†	1.1	0	7	1	4-05P	FP52k
43♦	RG113DC	TTL	AOI	4-4		3.4	0.2	6		5.0		20m†	1.1	0	7	1	4-05P	DIP14e
44♦	RG210CJ	TTL	AOI	4-4		3.5	0.2	11		5.0		60m†	1.0	5	C	1	4-05P	FP52j
45♦	RG210CK	TTL	AOI	4-4		3.5	0.2	11		5.0		60m†	1.0	5	C	1	4-05P	FP52k
46♦	RG210DC	TTL	AOI	4-4		3.5	0.2	11		5.0		60m†	1.0	5	C	1	4-05P	DIP14e
47♦	RG211CJ	TTL	AOI	4-4		3.5	0.2	6		5.0		60m†	1.0	5	C	1	4-05P	FP52j
48♦	RG211CK	TTL	AOI	4-4		3.5	0.2	6		5.0		60m†	1.0	5	C	1	4-05P	FP52k
49♦	RG211DC	TTL	AOI	4-4		3.5	0.2	6		5.0		60m†	1.0	5	C	1	4-05P	DIP14e
50♦	RG212CJ	TTL	AOI	4-4		3.5	0.2	9		5.0		60m†	1.0	0	7	1	4-05P	FP52j
51♦	RG212CK	TTL	AOI	4-4		3.5	0.2	9		5.0		60m†	1.0	0	7	1	4-05P	FP52k
52♦	RG212DC	TTL	AOI	4-4		3.5	0.2	9		5.0		60m†	1.0	0	7	1	4-05P	DIP14e
53♦	RG213CJ	TTL	AOI	4-4		3.5	0.2	5		5.0		60m†	1.0	0	7	1	4-05P	FP52j
54♦	RG213CK	TTL	AOI	4-4		3.5	0.2	5		5.0		60m†	1.0	0	7	1	4-05P	FP52k
55♦	RG213DC	TTL	AOI	4-4		3.5	0.2	5		5.0		60m†	1.0	0	7	1	4-05P	DIP14e
56♦	S54H55F	TTL	AOI	4-4	XI	2.0	0.8	10		5.0		60m		5	C	1	74H55N	DIP14b
57♦	S54H55W	TTL	AOI	4-4	XI	2.0	0.8	10		5.0		60m		5	C	1	54H55W	FP39e
58♦	S54LS55F	TTL	AOI	4-4	XI	2.0	0.7			5.0		6.5m		5	C	1	74L55N	DIP14b
59♦	S54LS55W	TTL	AOI	4-4	XI	2.0	0.7			5.0		6.5m		5	C	1	54LS55W	FP39e
60♦	SN54LS55J	TTL	AOI	4-4	XI	2.0	0.7			5.0		20n	0.3	5	C	1	74L55N	DIP14a
61▼	SN54LS55N	TTL	AOI	4-4	XI	2.0	0.7			5.0		20n	0.3	5	C	1	74L55N	DIP14a
62♦	SN74H55N	TTL	AOI	4-4	XI	2.0	0.8	10		5.0		60m	0.4	0	7	1	74H55N	DIP14a
63♦	SN74LS55D	TTL	AOI	4-4		2.0	0.8			5.0		20n	0.4	0	7	1	74L55N	FP147
64♦	SN74LS55J	TTL	AOI	4-4		2.0	0.8			5.0		20n	0.4	0	7	1	74L55N	DIP14a
65♦	SN74LS55N	TTL	AOI	4-4		2.0	0.8			5.0		20n	0.4	0	7	1	74L55N	DIP14a
66♦	T54LS55D2	TTL	AOI	4-4	XI	2.0	0.7	20		5.0		5.0m†	300m	5	C	1	74L55N	DIP14b
67♦	T74LS55B1	TTL	AOI	4-4		2.0	0.8	20		5.0		5.0m†	300m	0	7	1	74L55N	DIP14a
68♦	T74LS55D1	TTL	AOI	4-4		2.0	0.8	20		5.0		5.0m†	300m	0	7	1	74L55N	DIP14b
69♦	DM54LS55J	TTL	AOI	4-4	XI	2.0	0.7	10		5.0	18n		0.3	5	C	1	74L55	DIP14a
70♦	DM74LS55N	TTL	AOI	4-4		2.0	0.8	10		5.0	18n		0.3	0	7	1	74L55	DIP14a
71♦	DN74LS55P1	TTL	AOI	4-4		2.0	0.8	20		5.0	20n	400m	700m	2	7	1	74L55	DIP14a
72♦	DN74LS55P4	TTL	AOI	4-4		2.0	0.8	20		5.0	20n	400m	700m	2	7	1	74L55	FP177
73♦	H105D1	DTL	AOI	5	XI	8.0	6.0	25		20	105n	500m	5.0	0	7	2	6-73P	DIP14b
74♦	H105D2	DTL	AOI	5	XI	8.0	6.0	25		16	105n	278m	5.0	5	C	2	6-73P	DIP14b
75♦	H105D6	DTL	AOI	5	XI	8.0	6.0	25		16	105n	278m	5.0	4	8	2	6-73P	DIP14
76♦	H205B1	DTL	AOI	5	XI	8.0	6.0	25		16	105n	500m	5.0	0	7	2	6-73P	DIP14b
77♦	SFC454LE	TTL	AOI	10		2.0	0.7	10		5.0	90n	1.0m†	1.0	0	7	1	74L54N	TO-116
78♦	SFC454LEM	TTL	AOI	10		2.0	0.7	10		5.0	90n	1.0m†	1.0	5	C	1	74L54N	TO-116
79♦	N74H53F	TTL	AOI	11	XI	2.0	0.8	10		5.0	7.0n	70m		0	7	1	74H53N	DIP14b
80♦	N74H53N	TTL	AOI	11	XI	2.0	0.8	10		5.0	7.0n	70m		0	7	1	74H53N	DIP14a
81♦	MB613	TTL	AOI	11		2.0	0.8	10		5.0	8n	45m†		0	7	1	None	DIP14b
82♦	54F64DM	TTL	AOI	11		2.0	0.8	12		5.0	8.5n	24m		5	C	1	74S64N	DIP14b

GATE, EXCLUSIVE-NOR

86♦	MC1674L	ECL	EXNOR	2		-1.1	-1.4	70	5.2		2.3n	220m†		3	8	3	G07-1	DIP16a
87▼	MC1674LD	ECL	EXNOR	2		-1.1	-1.4	70	5.2		2.3n	220m†		3	8	3	G07-1	DIP16a
88▼	MC1674LDS	ECL	EXNOR	2		-1.1	-1.4	70	5.2		2.3n	220m†		3	8	3	G07-1	DIP16a
89♦	SP1674DG	ECL	EXNOR	2		-1.1	-1.4		5.2		2.7n			0	7	3	G07-1	DIP16b
90♦	54LS266DM	TTL	EXNOR	2	OC	2.0	0.7			5.0		65mQ	300m	5	C	4	74LS266N	TO-116
91♦	74LS266DC	TTL	EXNOR	2	OC	2.0	0.8	5		5.0		65mQ	300m	0	7	4	74LS266N	TO-116
92♦	74LS266PC	TTL	EXNOR	2	OC	2.0	0.8	5		5.0		65mQ	300m	0	7	4	74LS266N	TO-116
93♦	883C4077B	CMS	EXNOR	2		8.2	6.7			15		300m		5	C	4	74LS266N	MO001AA
94♦	4077BDC	CMS	EXNOR	2		11	4.0	25e		15		450uQ	6.7	4	8	4	74LS266N	TO-116
95♦	4077BDM	CMS	EXNOR	2		11	4.0	25e		15		450uQ	6.7	5	C	4	74LS266N	TO-116
96♦	4077BPC	CMS	EXNOR	2		11	4.0	25e		15		450uQ	6.7	4	8	4	74LS266N	DIP14a
97♦	9386DC	TTL	EXNOR	2		2.0	0.8			5.0		170m†		0	7	4	74LS266N	DIP14b
98♦	9386DM	TTL	EXNOR	2		2.0	0.8			5.0		170m†		5	C	4	74LS266N	DIP14b
99♦	9386PC	TTL	EXNOR	2		2.0	0.8			5.0		170m†		0	7	4	74LS266N	DIP14a
100♦	BCL4077B	CMS	EXNOR	2		8.2	6.7			15		300m		5	C	4	74LS266N	MO001AA
101♦	CD4077BD	CMS	EXNOR	2		7.0	3.0	18e		20		500m	2.9	5	C	4	74LS266N	MO001AD
102♦	CD4077BE	CMS	EXNOR	2		7.0	3.0	18e		20		500m	2.9	4	8	4	74LS266N	MO001AB
103♦	CD4077BF	CMS	EXNOR	2		7.0	3.0	18e		20		500m	2.9	5	C	4	74LS266N	MO001AB
104♦	DM54ALS810J	TTL	EXNOR	2		2.0	0.8	10		5.0		23n	0.4	5	C	4	74LS810	DIP14a
105♦	DM54ALS811J	TTL	EXNOR	2	OC	2.0	0.8	10		5.0		60n	0.4	5	C	4	74LS810	DIP14a
106♦	DM54AS810J(A)	TTL	EXNOR	2		2.0	0.8	50		5.0			0.3	5	C	4	74LS810	DIP14a
107♦	DM54AS811J(A)	TTL	EXNOR	2	OC	2.0	0.8	50		5.0			0.3	5	C	4	74LS810	DIP14a
108♦	DM54LS266J	TTL	EXNOR	2	OC	2.0	0.7	10		5.0		40n	0.3	5	C	4	74LS266	DIP14a
109♦	DM74ALS810J	TTL	EXNOR	2		2.0	0.8	10		5.0		20n	0.3	0	7	4	74LS810	DIP14a
110♦	DM74ALS810N	TTL	EXNOR	2		2.0	0.8	10		5.0		20n	0.3	0	7	4	74LS810	DIP14a

5. GATES - Exclusive-NOR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	DM74ALS811J	TTL	EXNOR	2		2.0	0.8	10		5.0		55n	0.3	0	7	4	74LS810	DIP14a
2♦	DM74ALS811N	TTL	EXNOR	2		2.0	0.8	10		5.0		55n	0.3	0	7	4	74LS810	DIP14a
3♦	DM74AS810J(A)	TTL	EXNOR	2		2.0	0.8	50		5.0			0.3	0	7	4	74LS810	DIP14a
4♦	DM74AS810N(A)	TTL	EXNOR	2		2.0	0.8	50		5.0			0.3	0	7	4	74LS810	DIP14a
5♦	DM74AS811J(A)	TTL	EXNOR	2		2.0	0.8	50		5.0			0.3	0	7	4	74LS810	DIP14a
6♦	DM74AS811N(A)	TTL	EXNOR	2		2.0	0.8	50		5.0			0.3	0	7	4	74LS810	DIP14a
7♦	DM74LS266N	TTL	EXNOR	2	OC	2.0	0.8	10		5.0		40n	0.3	0	7	4	74LS266	DIP14a
8♦	DN74LS266P1	TTL	EXNOR	2	OC	2.0	0.8	10		5.0		400m	400m	2	7	4	74LS266	DIP14a
9♦	DN74LS266P4	TTL	EXNOR	2	OC	2.0	0.8	10		5.0		400m	400m	2	7	4	74LS266	FP177
10♦	HCC4077BD	CMS	EXNOR	2		9.99	.01C			10		200m		5	C	4	74LS266N	DIP14a
11♦	HCC4077BF	CMS	EXNOR	2		9.99	.01C			10		200m		5	C	4	74LS266N	DIP14a
12♦	HCF4077BE	CMS	EXNOR	2		9.99	.01C			10		200m		4	8	4	74LS266N	DIP14a
13♦	HCF4077BF	CMS	EXNOR	2		9.99	.01C			10		200m		4	8	4	74LS266N	DIP14a
14♦	HD74HC266	CMS	EXNOR	2		4.2	1.8			5.0		12n	1.4	4	8	4	74LS266N	DIP14a
15♦	HEF4077	CMS	EXNOR	2		11	4.0	16e		15		400m	6.7	4	8	4	74LS266N	DL ☑
16♦	HEF4077B	CMS	EXNOR	2		9.95	.05C			10		20uQ		4	8	4	74LS266N	TO-116
17♦	HEF4077BPN	CMS	EXNOR	2		11.0	4.0	16e		15		400m	6.7	4	8	4	74LS266N	DIP14b
18♦	HEF4077P	CMS	EXNOR	2		9.95	.05C			10		1.4mQ		4	8	4	74LS266N	DIP14b
19♦	LC4077B	CMS	EXNOR	2		11.0	4.0			20		300m	3.9	4	8	4	74LS266N	DIP14a
20♦	M54HC266F1(A)	CMS	EXNOR	2		3.15	1.35	10		5.0		500m	1.2	5	C	4	74LS266	DIP14a
21♦	M74HC266B1(A)	CMS	EXNOR	2		3.15	1.35	10		5.0		500m	1.2	4	8	4	74LS266	DIP14a
22♦	M74HC266F1(A)	CMS	EXNOR	2		3.15	1.35	10		5.0		500m	1.2	4	8	4	74LS266	DIP14a
23♦	M74LS266P	TTL	EXNOR	2	OC	2.0	0.8	22d		5.0		40m†	0.4	2	7	4	74LS266N	DIP14a
24♦	MB74LS266	TTL	EXNOR	2	OC	2.0	0.8	20		5.0		30m†	1.0 *	2	7	4	74LS266N	DIP14a
25♦	MB74LS266M	TTL	EXNOR	2	OC	2.0	0.8	20		5.0		30m†	1.0 *	2	7	4	74LS266N	DIP14a
26♦	MB84077B	CMS	EXNOR	2		10.5	4.5	16e		15		60uQ	4.5 *	4	8	4	74LS266N	DIP14b
27♦	MB84077BM	CMS	EXNOR	2		10.5	4.5	16e		15		60uQ	4.5 *	4	8	4	74LS266N	DIP14a
28♦	MC14077BAL	CMS	EXNOR	2		11	4.0	50		15		15uQ	2.5 *	5	C	4	74LS266N	TO-116
29▼	MC14077BALD	CMS	EXNOR	2		11	4.0	50		15		15uQ	2.5 *	5	C	4	74LS266N	TO-116
30▼	MC14077BALDS	CMS	EXNOR	2		11	4.0	50		15		15uQ	2.5 *	5	C	4	74LS266N	TO-116
31▼	MC14077BALS	CMS	EXNOR	2		11	4.0	50		15		15uQ	2.5 *	5	C	4	74LS266N	TO-116
32♦	MC14077BCL	CMS	EXNOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74LS266N	TO-116
33▼	MC14077BCLD	CMS	EXNOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74LS266N	TO-116
34▼	MC14077BCLDS	CMS	EXNOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74LS266N	TO-116
35▼	MC14077BCLS	CMS	EXNOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74LS266N	TO-116
36♦	MC14077BCP	CMS	EXNOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74LS266N	TO-116
37▼	MC14077BCPD	CMS	EXNOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74LS266N	TO-116
38▼	MC14077BCPDS	CMS	EXNOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74LS266N	TO-116
39▼	MC14077BCPS	CMS	EXNOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74LS266N	TO-116
40▼	MC14077BD	CMS	EXNOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74LS266N	TO-116
41♦	MM74HC266J	CMS	EXNOR	2		4.2	1.2			5.0		500m	1.7	4	8	4	74LS266N	DIP14a
42♦	MM74HC266N	CMS	EXNOR	2		4.2	1.2			5.0		500m	1.7	4	8	4	74LS266N	DIP14a
43♦	N74LS266F	TTL	EXNOR	2	OC	2.0	0.8	20		5.0		65m		0	7	4	74LS266N	DIP14b
44♦	N74LS266N	TTL	EXNOR	2	OC	2.0	0.8	20		5.0		65m	0.3	0	7	4	74LS266N	DIP14a
45♦	N82S42F	TTL	EXNOR	2	OC		.50C	60		5.0		310m		0	7	4	74LS266N	DIP14b
46♦	N82S42N	TTL	EXNOR	2	OC		.50C	60		5.0		310m		0	7	4	74LS266N	DIP14a
47♦	N8242F	TTL	EXNOR	2	OC		0.4C	15		5.0		237m		0	7	4	74LS266N	DIP14b
48♦	N8242N	TTL	EXNOR	2	OC		0.4C	15		5.0		237m		0	7	4	74LS266N	DIP14a
49♦	PC54HC7266D(A)	CMS	EXNOR	2		3.15	0.9	10		5.0		500m	0.8	5	C	4	74LS266	DIP14b
50♦	PC74HC7266D(A)	CMS	EXNOR	2		3.15	0.9	10		5.0		500m	0.8	4	8	4	74LS266	DIP14b
51♦	S54LS266F	TTL	EXNOR	2	OC	2.0	0.7			5.0		65m	0.3	5	C	4	74LS266N	DIP14b
52♦	S8242A	TTL	EXNOR	2		2.6	0.4C	20		5.0		250m		5	C	4	74LS266N	DIP14a
53♦	S8242F	TTL	EXNOR	2	OC	2.0	0.8	15		5.0		238m		5	C	4	74LS266	DIP14b
54♦	SCL4077B	CMS	EXNOR	2		7.0	3.0	50		18		300m	3.0	5	C	4	74LS266N	MO001AA
55♦	SN54LS266J	TTL	EXNOR	2	OC	2.0	0.7	10d		5.0		40mQ	0.3	5	C	4	74LS266N	DIP14a
56♦	SN74LS266D	TTL	EXNOR	2	OC	2.0	0.8			5.0		30n	0.4	0	7	4	74LS266	FP147
57♦	SN74LS266J	TTL	EXNOR	2	OC	2.0	0.8	22d		5.0		40mQ	0.4	5	C	4	74LS266N	DIP14a
58♦	SN74LS266N	TTL	EXNOR	2	OC	2.0	0.8	22d		5.0		40mQ	0.4	5	C	4	74LS266N	DIP14a
59♦	US74HCT266N(A)	CMS	EXNOR	2	OD	2.0	0.8	10		5.0		500m	750m	4	8	4	74LS266N	DIP14 ☑
60♦	UPD74HC266C(A)	CMS	EXNOR	2		4.2	1.2			5.0	8.0n	500m		4	8	4	74LS266	DIP16a
61▼	HD74HC7266FP	CMS	EXNOR	2		3.15	1.35			5.0	12n	500m	1.2	4	8	4	74LS266N	FP161
62▼	HD74HC7266P	CMS	EXNOR	2		3.15	1.35			5.0	12n	500m	1.2	4	8	4	74LS266N	DIP14a
63▼	MC3022L	TTL	EXNOR	2		2.5	0.4C	8		5.0	14n	85m†		0	7	4	74H89P	TO-116
64▼	MC3022P	TTL	EXNOR	2		2.5	0.4C	8		5.0	14n	85m†		0	7	4	74H89P	DIP14a
65♦	MC3122F	TTL	EXNOR	2		2.4	0.4C	8		5.0	14n	85m†		5	C	4	54H89W	TO-86
66♦	MC3122L	TTL	EXNOR	2		2.4	0.4C	8		5.0	14n	85m†		5	C	4	74H89P	TO-116
67♦	74HC7266D	CMS	EXNOR	2		4.2	1.8	10		5.0	15n		2.4	4	8	4	40-77	FP142
68♦	74HC7266N	CMS	EXNOR	2		4.2	1.8	10		5.0	15n		2.4	4	8	4	40-77	DIP14a
69♦	N8242Q	TTL	EXNOR	2		2.0	0.8	20		5.0	18n	250m		0	7	4	54LS266W	TO-88
70▼	SN74ALS810D	TTL	EXNOR	2		2.0	0.8			5.0	20n		0.4	0	7	4	74ALS810	FP147
71♦	SN74ALS810N	TTL	EXNOR	2		2.0	0.8			5.0	20n		0.4	0	7	4	74ALS810	DIP14a
72♦	54LS266FM	TTL	EXNOR	2	OC	2.0	0.7			5.0	23n	65mQ	300m	5	C	4	54LS266W	TO-86
73♦	9386FM	TTL	EXNOR	2		2.0	0.8			5.0	25n	170m†		5	C	4	54LS266W	FP115
74♦	CD74HC7266E	CMS	EXNOR	2		3.15	1.35	10		5.0	25n	500m	1.2	4	8	4	74LS266N	MO001AB
75♦	CD74HC7266M	CMS	EXNOR	2		3.15	1.35	10		5.0	25n	400m	1.2	4	8	4	74LS266N	FP147
76♦	CD74HCT7266E(A)	CMS	EXNOR	2		2.0	0.8	10		5	25n	500m	0.7	4	8	4	74LS266N	MO001AB
77♦	CD74HCT7266M(A)	CMS	EXNOR	2		2.0	0.8	10		5	25n	400m	0.7	4	8	4	74LS266N	FP147
78▼	SN74HC7266D	CMS	EXNOR	2		3.15	0.9	10		5.0	25n		1.2	4	8	4	40-77	FP147
79▼	SN74HC7266N	CMS	EXNOR	2		3.15	0.9	10		5.0	25n		1.2	4	8	4	40-77	DIP14a
80♦	M74HC266C1(A)	CMS	EXNOR	2	OD	3.15	1.35	10		5.0	26n	500m	1.2	4	8	4	G07-8	LC33
81♦	M74HC266P	CMS	EXNOR	2		4.2	1.8			5.0	26n			4	8	4	G07-5	DIP14a
82♦	S8242W	TTL	EXNOR	2	OC		0.4C	15		5.0	28n	238m		5	C	4	54LS266W	FP39e
83▼	TC74HC7266F	CMS	EXNOR	2		3.15	1.35	10d		5.0	29n	180m	1.2	4	8	4	74LS266N	FP166
84▼	TC74HC7266P(A)	CMS	EXNOR	2		3.15	1.35	10d		5.0	29n	500m	1.2	4	8	4	74LS266N	DIP14a
85♦	CD54HC7266F	CMS	EXNOR	2		3.15	1.35	10		5.0	30n	500m	1.2	5	C	4	74LS266N	MO001AB
86♦	CD54HCT7266F(A)	CMS	EXNOR	2		2.0	0.8	10		5.0	30n	500m	0.7	5	C	4	74LS266N	MO001AB
87▼	HD74LS266G	TTL	EXNOR	2	OC	2.0	0.8			5.0	30n	400m	300m	2	7	4	74LS266N	DIP14a
88♦	HD74LS266P	TTL	EXNOR	2	OC	2.0	0.8			5.0	30n	400m	300m	2	7	4	74LS266N	DIP14a
89♦	MC54HC266J	CMS	EXNOR	2		3.15	0.90			4.5	30n	500m		5	C	4	74LS266N	None
90♦	MC74HC266J	CMS	EXNOR	2	OD	3.85	1.1			5.0	30n	500m	10	4	8	4	54LS266N	DIP14 ☑
91♦	MC74HC266N	CMS	EXNOR	2	OD	3.85	1.1			5.0	30n	500m	10	4	8	4	54LS266N	DIP14 ☑
92♦	MM54HC266J	CMS	EXNOR	2		4.2	1.2			5.0	30n	500m	1.7	5	C	4	54LS266N	DIP14a
93♦	S54LS266G	TTL	EXNOR	2	OC	2.0	0.7	20		5.0	30n		0.3	5	C	4	G07-13	LC24
94♦	S54LS266W	TTL	EXNOR	2	OC	2.0	0.7			5.0	30n	65m	0.3	5	C	4	54LS266W	FP153
95▼	SN74HC266D	CMS	EXNOR	2		3.15	0.90			5.0	31n		1.2	4	8	4	74LS266N	FP147
96♦	SN74HC266N	CMS	EXNOR	2		3.15	0.90			5.0	31n		1.2	4	8	4	74LS266N	MO001AA
97♦	PC74HC7266P(A)	CMS	EXNOR	2		3.15	1.35	10		5.0	36n	500m	0.8	4	C	4	74LS266	DIP14b
98♦	PC74HC7266T(A)	CMS	EXNOR	2		3.15	1.35	10		5.0	36n	300m	0.8	4	C	4	74LS266	FP147
99♦	4077BFC	CMS	EXNOR	2		11	4.0	25e		15	44n	450uQ	6.7	4	8	4	54LS266W	FP21h
100♦	4077BFM	CMS	EXNOR	2		11	4.0	25e		15	44n	450uQ	6.7	5	C	4	54LS266W	FP21h
101♦	HEF4077BTD	CMS	EXNOR	2		11.0	4.0	50e		15	50n	200m	6.7	4	8	4	54LS266W	FP147
102▼	SN74ALS811D	TTL	EXNOR	2		2.0	0.8			5.0	55n		0.4	0	7	4	74ALS811	FP147
103♦	SN74ALS811N	TTL	EXNOR	2		2.0	0.8			5.0	55n		0.4	0	7	4	74ALS811	DIP14a
104♦	HCC4077BK	CMS	EXNOR	2		9.99	.01C			10	70n	200m		5	C	4	54LS266W	FP130
105♦	HEF4077BD	CMS	EXNOR	2		7.0	3.0			10	70n	500m		4	8	4	74LS266N	DIP14a
106♦	HEF4077BP	CMS	EXNOR	2		7.0	3.0			10	70n	500m		4	8	4	74LS266N	DIP14a
107♦	HEF4077BT	CMS	EXNOR	2		7.0	3.0			10	70n	400m		4	8	4	54LS266W	FP147
108♦	TC4077BP	CMS	EXNOR	2		14.9	.05*	50		15	100n	300m	4.0	4	8	4	G07-5	DL ☑

GATE, EXCLUSIVE-OR

5. GATES - Exclusive-OR

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1																		
2♦	H168D1	HNL	EXOR		OC	8.0	6.0			20	185n			0	7	4	G05-138	DIP14a
3♦	K176LP2	MOS	EXOR			8.2	0.3	50		9.0	250n		0.9	1	7	4	74L86	None
4♦	H167D1	DTL	EXOR	2		8.0	6.0	25		20	400n	150mQ	5.0	0	7	1	None	DIP14b
5♦	HMD11113-2	GA	EXOR	2				3	4.0	5.0	650p	1.5		5	8	2	G07-14	FP184
6♦	MM481	TTL	EXOR	2		-8.0	-1.0C	10	10		600n	24m		5	C	2	G05-97	TO-100
7♦	MM581	TTL	EXOR	2		-8.0	-1.0C	10	10		600n	24m		0	7	2	G05-97	TO-100
8▼	MC10H107FN	ECL	EXOR	2	CO	-1.1	-1.4		5.2		1.9n	35m	150m	0	7	3	G05-131	DIP16a
9♦	MC10H107L	ECL	EXOR	2	CO	-1.1	-1.4		5.2		1.9n	35m	150m	0	7	3	G05-131	DIP16a
10▼	MC10H107LD	ECL	EXOR	2	CO	-1.1	-1.4		5.2		1.9n	35m	150m	0	7	3	G05-131	DIP16a
11▼	MC10H107LDS	ECL	EXOR	2	CO	-1.1	-1.4		5.2		1.9n	35m	150m	0	7	3	G05-131	DIP16a
12♦	MC10H107P	ECL	EXOR	2	CO	-1.1	-1.4		5.2		1.9n	35m	150m	0	7	3	G05-131	DIP16b
13▼	MC10H107PD	ECL	EXOR	2	CO	-1.1	-1.4		5.2		1.9n	35m	150m	0	7	3	G05-131	DIP16b
14▼	MC10H107PDS	ECL	EXOR	2	CO	-1.1	-1.4		5.2		1.9n	35m	150m	0	7	3	G05-131	DIP16b
15♦	MC10H107J(A)	ECL	EXOR	2	CO	-1.1	-1.4		5.2		2.0n		150m	0	7	3	G05-131	DIP16a
16♦	MC10H107N(A)	ECL	EXOR	2	CO	-1.1	-1.4		5.2		2.0n		150m	0	7	3	G05-131	DIP16a
17♦	MC1672L	ECL	EXOR	2		-1.1	-1.4	70	5.2		2.3n	220m†		3	8	3	G05-107	DIP16a
18▼	MC1672LD	ECL	EXOR	2		-1.1	-1.4	70	5.2		2.3n	220m†		3	8	3	G05-107	DIP16a
19▼	MC1672LDS	ECL	EXOR	2		-1.1	-1.4	70	5.2		2.3n	220m†		3	8	3	G05-107	DIP16a
20♦	DM10107J	ECL	EXOR	2	CO	-1.1	-1.4		5.2		2.4n	145mQ		3	8	3	G05-108	DIP16a
21♦	GXB10107	ECL	EXOR	2	CO	-1.1	-1.4		5.2		2.4n	115m†		0	7	3	G05-108	DIP16b
22♦	MB10107	ECL	EXOR	2	CO	-1.1	-1.4	70	5.2		2.5n	120m†		3	8	3	G05-108	DIP16b
23♦	MB10107M	ECL	EXOR	2	CO	-1.1	-1.4	70	5.2		2.5n	120m†		3	8	3	G05-108	DIP16b
24♦	SP1672DG	ECL	EXOR	2		-1.1	-1.4		5.2		2.7n			0	7	3	G05-107	DIP16b
25♦	F10107DC	ECL	EXOR	2	CO	-1.1	-1.4	80g	5.2		3.7n	146mQ	145m*	0	7	3	G05-131	DIP16a
26♦	F10507DM	ECL	EXOR	2	CO	-1.1	-1.4	40g	5.2		3.7n	146mQ	145m*	5	C	3	G05-131	DIP16a
27♦	F10507FM	ECL	EXOR	2	CO	-1.1	-1.4	40g	5.2		3.7n	146mQ	145m*	5	C	3	G05-131	FP103
28▼	MC10107FN	ECL	EXOR	2	CO	-1.1	-1.4		5.2		3.7n	120m†	150m	3	8	3	G05-131	DIP16a
29♦	MC10107L	ECL	EXOR	2	CO	-1.1	-1.4		5.2		3.7n	120m†	150m	3	8	3	G05-131	DIP16a
30▼	MC10107LD	ECL	EXOR	2	CO	-1.1	-1.4		5.2		3.7n	120m†	150m	3	8	3	G05-131	DIP16a
31▼	MC10107LDS	ECL	EXOR	2	CO	-1.1	-1.4		5.2		3.7n	120m†	150m	3	8	3	G05-131	DIP16a
32♦	MC10107P	ECL	EXOR	2	CO	-1.1	-1.4		5.2		3.7n	120m†	150m	3	8	3	G05-131	DIP16b
33▼	MC10107PD	ECL	EXOR	2	CO	-1.1	-1.4		5.2		3.7n	120m†	150m	3	8	3	G05-131	DIP16b
34▼	MC10107PDS	ECL	EXOR	2	CO	-1.1	-1.4		5.2		3.7n	120m†	150m	3	8	3	G05-131	DIP16b
35♦	MC10507F	ECL	EXOR	2	CO	-1.1	-1.4		5.2		3.7n	120m†		5	C	3	G05-108	FP85
36♦	MC10507L	ECL	EXOR	2	CO	-1.1	-1.4		5.2		3.7n	120m†		5	C	3	G05-108	DIP16b
37♦	10107F	ECL	EXOR	2	CO	-1.1	-1.4		5.2		4.0n	114m†		3	8	3	G05-131	DIP16a
38♦	10107N	ECL	EXOR	2	CO	-1.1	-1.4		5.2		4.0n	114m†		3	8	3	G05-131	DIP16a
39♦	F95107DC	ECL	EXOR	2		-1.1	-1.4	78g	5.2		4.0n	146mQ	140m*	0	7	3	G05-131	DIP16a
40♦	HD10107	ECL	EXOR	2	CO	-1.1	-1.4		5.2		4.0n	200m		3	8	3	G05-131	DIP16b
41♦	54F86DM	TTL	EXOR	2		2.0	0.8			5.0		8.5n		5	C	4	74-86	DIP14b
42♦	54LS136DM	TTL	EXOR	2	OC	2.0	0.7			5.0		50mQ	300m	5	C	4	74-136N	TO-116
43♦	54LS386DM	TTL	EXOR	2		2.0	0.7	11d		5.0		50mQ	300m*	5	C	4	74L86N	TO-116
44♦	74F86DC	TTL	EXOR	2		2.0	0.8			5.0		8.0n		0	7	4	74-86	DIP14b
45♦	74F86PC	TTL	EXOR	2		2.0	0.8			5.0		8.0n		0	7	4	74-86	DIP14a
46♦	74LS136DC	TTL	EXOR	2	OC	2.0	0.8	5		5.0		50mQ	300m	0	7	4	74-136N	TO-116
47♦	74LS136PC	TTL	EXOR	2	OC	2.0	0.8	5		5.0		50mQ	300m	0	7	4	74-136N	TO-116
48♦	883C4030B	CMS	EXOR	2		8.2	6.7			15		300m		5	C	4	74L86N	MO001AA
49♦	883C4070B	CMS	EXOR	2		8.2	6.7			15		300m		5	C	4	74L86N	MO001AA
50♦	4030BDC	CMS	EXOR	2		11	4.0	25e		15		450uQ	6.7	4	8	4	74L86N	TO-116
51♦	4030BDM	CMS	EXOR	2		11	4.0	25e		15		450uQ	6.7	5	C	4	74L86N	TO-116
52♦	4030BPC	CMS	EXOR	2		11	4.0	25e		15		450uQ	6.7	4	8	4	74L86N	DIP14a
53♦	4070BDC	CMS	EXOR	2		11	4.0	25e		15		450uQ	6.7	4	8	4	74L86N	TO-116
54♦	4070BDM	CMS	EXOR	2		11	4.0	25e		15		450uQ	6.7	5	C	4	74L86N	TO-116
55♦	4070BPC	CMS	EXOR	2		11	4.0	25e		15		450uQ	6.7	4	8	4	74L86N	DIP14a
56♦	BCL4030B	CMS	EXOR	2		8.2	6.7			15		300m		5	C	4	74L86N	MO001AA
57♦	BCL4070B	CMS	EXOR	2		8.2	6.7			15		300m		5	C	4	74L86N	MO001AA
58▼	BU4030B	CMS	EXOR	2		7.0	3.0			10		550m	2.9	4	8	4	74L86N	DIP14a
59▼	BU4030BF	CMS	EXOR	2		7.0	3.0			10		550m	2.9	4	8	4	74L86N	FP161
60▼	BU4070B	CMS	EXOR	2		7.0	3.0			10		550m	2.9	4	8	4	74L86N	DIP14a
61▼	BU4070BF	CMS	EXOR	2		7.0	3.0			10		550m	2.9	4	8	4	74L86N	FP161
62♦	CD54HC86F	CMS	EXOR	2		3.15	1.35	10		5.0		500m	1.7	5	C	4	74-86	MO001AB
63♦	CD54HCT86F	CMS	EXOR	2		2.00	0.80	10		5.0		500m	2.4	5	C	4	74-86	MO001AB
64♦	CD74HC86E	CMS	EXOR	2		3.15	1.35	10		5.0		500m	1.7	4	8	4	74-86	MO001AB
65♦	CD74HCT86E	CMS	EXOR	2		2.00	0.80	10		5.0		500m	2.4	4	8	4	74-86	MO001AB
66♦	CD4030AD	CMS	EXOR	2		9.95	0.05C	50		15		500m		5	C	4	74L86N	MO001AD
67♦	CD4030AE	CMS	EXOR	2		9.95	0.05C	50		15		500m		4	8	4	74L86N	MO001AB
68♦	CD4030AF	CMS	EXOR	2		9.95	0.05C			15		500m		5	C	4	74L86N	MO001AB
69♦	CD4030BD	CMS	EXOR	2		7.0	3.0	18e		20		500m	2.9	5	C	4	74L86N	MO001AD
70♦	CD4030BE	CMS	EXOR	2		7.0	3.0	18e		20		500m	2.9	4	8	4	74L86N	MO001AB
71♦	CD4030BF	CMS	EXOR	2		7.0	3.0	18e		20		500m	2.9	5	C	4	74L86N	MO001AB
72♦	CD4030CJ	CMS	EXOR	2		9.99	.01C			10		100uQ	4.5	4	8	4	74L86N	DIP14a
73♦	CD4030CN	CMS	EXOR	2		9.99	.01C			10		100uQ	4.5	4	8	4	74L86N	DIP14a
74♦	CD4030MJ	CMS	EXOR	2		9.99	.01C			10		500m	4.5	5	C	4	74L86N	DIP14a
75♦	CD4070BCJ	CMS	EXOR	2		11	4.0	16e		15		60uQ	6.7	4	8	4	74L86N	DIP14a
76♦	CD4070BCN	CMS	EXOR	2		11	4.0	16e		15		60uQ	6.7	4	8	4	74L86N	DIP14a
77♦	CD4070BD	CMS	EXOR	2		7.0	3.0	18e		20		500m	2.9	5	C	4	74L86N	MO001AD
78♦	CD4070BE	CMS	EXOR	2		7.0	3.0	18e		20		500m	2.9	4	8	4	74L86N	MO001AB
79♦	CD4070BF	CMS	EXOR	2		7.0	3.0	18e		20		500m	2.9	5	C	4	74L86N	MO001AB
80♦	CD4070BMJ	CMS	EXOR	2		11	4.0	19e		15		15uQ	6.7	5	C	4	74L86N	DIP14a
81♦	CM4030AD	CMS	EXOR	2		10	0C			10		200m	4.5	5	C	4	74L86N	DIP14a
82♦	CM4030AE	CMS	EXOR	2		10	0C			10		200m	4.5	4	8	4	74L86N	DIP14a
83♦	DM54ALS86J	TTL	EXOR	2		2.0	0.8	10		5.0		22n	0.4	5	C	4	74-86	DIP14a
84♦	DM54ALS136J	TTL	EXOR	2	OC	2.0	0.8	10		5.0		55n	0.4	5	C	4	74-136	DIP14a
85♦	DM54AS86J(A)	TTL	EXOR	2		2.0	0.8	50		5.0			0.3	5	C	4	74-86	DIP14a
86♦	DM54AS136J(A)	TTL	EXOR	2	OC	2.0	0.8	50		5.0			0.3	5	C	4	74-136	DIP14a
87♦	DM54L86J	TTL	EXOR	2		2.0	0.7	20		5.0		4.0m†		5	C	4	74L86N	DIP14a
88♦	DM54LS86J	TTL	EXOR	2		2.0	0.7	10		5.0		21n	0.3	5	C	4	74-86	DIP14a
89♦	DM54LS136J	TTL	EXOR	2	OC	2.0	0.7	10		5.0		40n	0.3	5	C	4	74-136	DIP14a
90♦	DM74ALS86J	TTL	EXOR	2		2.0	0.8	10		5.0		17n	0.3	0	7	4	74-86	DIP14a
91♦	DM74ALS86N	TTL	EXOR	2		2.0	0.8	10		5.0		17n	0.3	0	7	4	74-86	DIP14a
92♦	DM74ALS136N	TTL	EXOR	2	OC	2.0	0.8	10		5.0		50n	0.3	0	7	4	74-136	DIP14a
93♦	DM74AS86J(A)	TTL	EXOR	2		2.0	0.8	50		5.0			0.3	0	7	4	74-86	DIP14a
94♦	DM74AS86N(A)	TTL	EXOR	2		2.0	0.8	50		5.0			0.3	0	7	4	74-86	DIP14a
95♦	DM74AS136J	TTL	EXOR	2	OC	2.0	0.8	50		5.0			0.3	0	7	4	74-136	DIP14a
96♦	DM74AS136N(A)	TTL	EXOR	2	OC	2.0	0.8	50		5.0			0.3	0	7	4	74-136	DIP14a
97♦	DM74L86N	TTL	EXOR	2		2.0	0.7	20		5.0		4.0m†		0	7	4	74L86N	DIP14a
98♦	DM74LS86N	TTL	EXOR	2		2.0	0.8	10		5.0		21n	0.3	0	7	4	74-86	DIP14a
99♦	DM74LS136N	TTL	EXOR	2	OC	2.0	0.8	10		5.0		40n	0.3	0	7	4	74-136	DIP14a
100♦	DN74LS86P1	TTL	EXOR	2		2.0	0.8	10		5.0		400m	700m	2	7	4	74-86	DIP14a
101♦	DN74LS86P4	TTL	EXOR	2		2.0	0.8	10		5.0		400m	700m	2	7	4	74-86	FP177
102♦	DN74LS136P1	TTL	EXOR	2	OC	2.0	0.8	10		5.0		400m	400m	2	7	4	74-136	DIP14a
103♦	DN74LS136P4	TTL	EXOR	2	OC	2.0	0.8	10		5.0		400m	400m	2	7	4	74-136	FP177
104♦	HBC4030AD	CMS	EXOR	2		10	0C	50		10		10uQ	4.5	5	C	4	74L86N	MO001AD
105♦	HBC4030AF	CMS	EXOR	2		10	0C	50		10		10uQ	4.5	5	C	4	74L86N	MO001AD
106♦	HBF4030AE	CMS	EXOR	2		10	0C	50		10		100uQ	4.5	4	8	4	74L86N	MO001AB
107♦	HBF4030AF	CMS	EXOR	2		10	0C	50		10		100uQ	4.5	4	8	4	74L86N	MO001AD
108♦	HCC4030BD	CMS	EXOR	2		12	3.0			15		200m†	2.5 *	5	C	4	74L86N	DIP14a
109♦	HCC4030BF	CMS	EXOR	2		12	3.0			15		200m†	2.5 *	5	C	4	74L86N	DIP14a
110♦	HCC4070BD	CMS	EXOR	2		9.99	.01C			10		200m	4.5	5	C	4	74L86N	DIP14a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - Exclusive-OR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	HCC4070BF	CMS	EXOR	2		9.99	.01C			10		200m	4.5	5	C	4	74L86N	DIP14a
2♦	HCF4030BE	CMS	EXOR	2		12	3.0	18e		15		200m†	4.0 *	4	8	4	74L86N	DIP14a
3♦	HCF4030BF	CMS	EXOR	2		12	3.0	18e		15		200m†	4.0 *	4	8	4	74L86N	DIP14a
4♦	HCF4070BE	CMS	EXOR	2		9.99	.01C			10		200m	4.5	4	8	4	74L86N	DIP14a
5♦	HCF4070BF	CMS	EXOR	2		9.99	.01C			10		200m	4.5	4	8	4	74L86N	DIP14a
6♦	HEF4030	CMS	EXOR	2		11	4.0	16e		15		400m	6.7	4	8	4	74L86N	DL ⊠
7♦	HEF4030BTD	CMS	EXOR	2		11.0	4.0	50e		15		200m	6.7	4	8	4	74L86N	FP147
8♦	HEF4030P	CMS	EXOR	2		7.0	3.0			10		100uQ	4.5	4	8	4	74L86N	TO-116
9♦	HEF4070	CMS	EXOR	2		11	4.0	16e		15		400m	6.7	4	8	4	74L86N	DL ⊠
10♦	HEF4070BPN	CMS	EXOR	2		11.0	4.0	16e		15		400m	6.7	4	8	4	74L86N	DIP14b
11♦	HEF4070BTD	CMS	EXOR	2		11.0	4.0	50e		15		200m	6.7	4	8	4	74L86N	FP147
12♦	HEF4070P	CMS	EXOR	2		7.0	3.0			10		100uQ	4.5	4	8	4	74L86N	TO-116
13♦	LC4070B	CMS	EXOR	2		11.0	4.0			20		300m	3.9	4	8	4	74L86N	DIP14a
14♦	M54HC86F1(A)	CMS	EXOR	2		3.15	1.35	10		5.0		500m	1.2	5	C	4	74-86	DIP14a
15♦	M74HC86B1(A)	CMS	EXOR	2		3.15	1.35	10		5.0		500m	1.2	4	8	4	74-86	DIP14a
16♦	M74HC86F1(A)	CMS	EXOR	2		3.15	1.35	10		5.0		500m	1.2	4	8	4	74-86	DIP14a
17♦	M74HC86P	CMS	EXOR	2		4.2	1.8			5.0		20n		4	8	4	74-86	DIP14a
18♦	M74LS136P	TTL	EXOR	2	OC	2.0	0.8	20		5.0		30m†	0.4	2	7	4	74-136N	DIP14a
19♦	M74LS386P	TTL	EXOR	2		2.0	0.8	20	-0.5	5.0		525m	0.3	2	7	4	74L86N	DIP14 ⊠
20♦	M4030BP	CMS	EXOR	2		11	4.0			15		500m	4.0	4	8	4	74L86N	DIP14a
21♦	MB74LS136	TTL	EXOR	2	OC	2.0	0.8	20		5.0		30m†	1.0 *	2	7	4	74-136N	DIP14a
22♦	MB74LS136M	TTL	EXOR	2	OC	2.0	0.8	20		5.0		30m†	1.0 *	2	7	4	74-136N	DIP14a
23♦	MB74LS386	TTL	EXOR	2		2.0	0.8	20		5.0		40m†	1.0 *	2	7	4	74L86N	DIP14a
24♦	MB74LS386M	TTL	EXOR	2		2.0	0.8	20		5.0		40m†	1.0 *	2	7	4	74L86N	DIP14a
25♦	MB449	TTL	EXOR	2		2.0	0.8C	10		5.0		120m†		0	7	4	74-86N	DIP14b
26♦	MB449M	TTL	EXOR	2		2.0	0.8C	10		5.0		120m†		0	7	4	74-86N	DIP14b
27♦	MB84070B	CMS	EXOR	2		10.5	4.5	16e		15		60uQ	4.5 *	4	8	4	74L86N	DIP14b
28♦	MB84070BM	CMS	EXOR	2		10.5	4.5	16e		15		60uQ	4.5 *	4	8	4	74L86N	DIP14a
29♦	MC54HC86J	CMS	EXOR	2		3.15	0.9	10		5.0		500m	1.2	5	C	4	74L86N	DIP14a
30♦	MC74HC86J	CMS	EXOR	2		3.15	0.9	10		5.0		500m	1.2	4	8	4	74L86N	DIP14a
31♦	MC74HC86N	CMS	EXOR	2		3.15	0.9	10		5.0		500m	1.2	4	8	4	74L86N	DIP14a
32♦	MC14070BAL	CMS	EXOR	2		11	4.0	50		15		15uQ	2.5 *	5	C	4	74L86N	TO-116
33▼	MC14070BALD	CMS	EXOR	2		11	4.0	50		15		15uQ	2.5 *	5	C	4	74L86N	TO-116
34▼	MC14070BALDS	CMS	EXOR	2		11	4.0	50		15		15uQ	2.5 *	5	C	4	74L86N	TO-116
35▼	MC14070BALS	CMS	EXOR	2		11	4.0	50		15		15uQ	2.5 *	5	C	4	74L86N	TO-116
36♦	MC14070BCL	CMS	EXOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74L86N	TO-116
37▼	MC14070BCLD	CMS	EXOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74L86N	TO-116
38▼	MC14070BCLDS	CMS	EXOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74L86N	TO-116
39▼	MC14070BCLS	CMS	EXOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74L86N	TO-116
40♦	MC14070BCP	CMS	EXOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74L86N	TO-116
41▼	MC14070BCPD	CMS	EXOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74L86N	TO-116
42▼	MC14070BCPDS	CMS	EXOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74L86N	TO-116
43▼	MC14070BCPS	CMS	EXOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74L86N	TO-116
44▼	MC14070BD	CMS	EXOR	2		11	4.0	50		15		60uQ	2.5 *	4	8	4	74L86N	TO-116
45♦	MM54C86D	CMS	EXOR	2		3.5	1.5	2		15		500m	450m	5	C	4	74L86N	DIP14a
46♦	MM54HC86J	CMS	EXOR	2		4.2	1.2			5.0		500m	1.7	5	C	4	74L86N	DIP14a
47♦	MM74C86N	CMS	EXOR	2		3.5	1.5	2		15		500m	450m	0	7	4	74L86N	DIP14a
48♦	MM74HC86J	CMS	EXOR	2		4.2	1.2			5.0		500m	1.7	4	8	4	74L86N	DIP14a
49♦	MM74HC86N	CMS	EXOR	2		4.2	1.2			5.0		500m	1.7	4	8	4	74L86N	DIP14a
50♦	MM4630AD	CMS	EXOR	2		4.99	.01C			5.0		500m	450m	5	C	4	74L86N	DIP14a
51♦	MM5630AN	CMS	EXOR	2		4.99	.01C			5.0		500m	450m	4	8	4	74L86N	DIP14a
52♦	MN4030B	CMS	EXOR	2		11.0	4.0			15		400m	3.9	4	8	4	74L86N	DIP14a
53♦	MN4070B	CMS	EXOR	2		11.0	4.0			15		400m	3.9	4	8	4	74L86N	DIP14a
54♦	MSM581	CMS	EXOR	2		3.6	0.8	15		5.0		25u		2	7	4	74L86N	DIP14a
55♦	MSM581RS	CMS	EXOR	2		3.6	0.8	40e		15		100n	0.6	3	8	4	74L86N	DIP14a
56♦	MSM4030	CMS	EXOR	2		7.2	2.0	16e		10		300uQ	2.0 *	2	7	4	74L86N	DIP14a
57♦	MSM4030RS	CMS	EXOR	2		3.6	1.0	40		16		300n	0.6	4	8	4	74L86N	DIP14 ⊠
58♦	N74LS136F	TTL	EXOR	2	OC	2.0	0.8	20		5.0		50m		0	7	4	74-136N	DIP14b
59♦	N74LS136N	TTL	EXOR	2	OC	2.0	0.8	20		5.0		50m	0.3	0	7	4	74-136N	DIP14a
60♦	N74LS386F	TTL	EXOR	2		2.0	0.8	22d		5.0		50m	300m*	0	7	4	74L86N	DIP14b
61♦	N74LS386N	TTL	EXOR	2		2.0	0.8	22d		5.0		50m	300m*	0	7	4	74L86N	DIP14a
62♦	N82S41F	TTL	EXOR	2		2.7	.50C	50		5.0		275m		0	7	4	74L86N	DIP14b
63♦	N82S41N	TTL	EXOR	2		2.7	.50C	50		5.0		275m		0	7	4	74L86N	DIP14a
64♦	N8241F	TTL	EXOR	2		2.6	0.4C	10		5.0		285m		0	7	4	74L86N	DIP14b
65♦	N8241N	TTL	EXOR	2		2.6	0.4C	10		5.0		285m		0	7	4	74L86N	DIP14a
66♦	PC54HC86D(A)	CMS	EXOR	2		3.15	0.9	10		5.0		500m	0.8	5	C	4	74-86	DIP14b
67♦	PC54HCT86D(A)	CMS	EXOR	2		2.0	0.8	10		5.0		500m	0.7	5	C	4	74-86	DIP14b
68♦	PC74HC86D(A)	CMS	EXOR	2		3.15	0.9	10		5.0		500m	0.8	4	8	4	74-86	DIP14b
69♦	PC74HCT86D(A)	CMS	EXOR	2		2.0	0.8	10		5.0		500m	0.7	4	8	4	74-86	DIP14b
70♦	S54LS136F	TTL	EXOR	2	OC	2.0	0.7			5.0		50m	0.3	5	C	4	74-136N	DIP14b
71♦	S54LS386F	TTL	EXOR	2		2.0	0.7	11d		5.0		50m	300m*	5	C	4	74L86N	DIP14b
72♦	S8241F	TTL	EXOR	2		2.6	0.4C	10		5.0		285m		5	C	4	74L86N	DIP14b
73♦	SCL4030B	CMS	EXOR	2		7.0	3.0	50		18		300m	3.0	5	C	4	74L86N	MO001AA
74♦	SCL4070B	CMS	EXOR	2		7.0	3.0	50		18		300m	3.0	5	C	4	74L86N	MO001AA
75♦	SFF24030AEV	CMS	EXOR	2		9.99	.01C			10		200m	3.0 *	4	8	4	74L86N	TO-116
76♦	SFF24030AKM	CMS	EXOR	2		9.99	.01C			10		200m	3.0 *	5	C	4	74L86N	TO-116
77♦	SN54LS86AJ	TTL	EXOR	2		2.0	0.7			5.0		30n	0.3	5	C	4	74-86	FP147
78♦	SN54LS136J	TTL	EXOR	2	OC	2.0	0.7			5.0		30n	300m	5	C	4	74-136N	DIP14a
79♦	SN54LS386J	TTL	EXOR	2		2.0	0.7			5.0		30n	300m	5	C	4	74L86N	DIP14a
80▼	SN54LS386N	TTL	EXOR	2		2.0	0.7			5.0		30n	300m	5	C	4	74L86N	DIP14a
81♦	SN74LS86AD	TTL	EXOR	2		2.0	0.8			5.0		30n	0.4	0	7	4	74-86	FP147
82♦	SN74LS86AN	TTL	EXOR	2		2.0	0.8			5.0		30n	0.4	0	7	4	74-86	DIP14a
83♦	SN74LS136D	TTL	EXOR	2	OC	2.0	0.8			5.0		55n	0.4	0	7	4	74-136	FP147
84♦	SN74LS136J	TTL	EXOR	2	OC	2.0	0.8			5.0		30n	300m	0	7	4	74-136N	DIP14a
85♦	SN74LS136N	TTL	EXOR	2	OC	2.0	0.8			5.0		30n	300m	0	7	4	74-136N	DIP14a
86♦	SN74LS386J	TTL	EXOR	2		2.0	0.8			5.0		30n	300m	0	7	4	74L86N	DIP14a
87♦	SN74LS386N	TTL	EXOR	2		2.0	0.8			5.0		30n	300m	0	7	4	74L86N	DIP14a
88♦	SN74S86D	TTL	EXOR	2		2.0	0.8			5.0		10n	0.3	0	7	4	74-86	FP147
89♦	SN54136J	TTL	EXOR	2	OC	2.0	0.8			5.0		150m†		5	C	4	74-136N	DIP14a
90♦	SN74136N	TTL	EXOR	2	OC	2.0	0.8			5.0		150m†		0	7	4	74-136N	DIP14a
91♦	T54LS136D2	TTL	EXOR	2	OC	2.0	0.7			5.0		50mQ	300m	5	C	4	74-136N	DIP14b
92♦	T74LS136B1	TTL	EXOR	2	OC	2.0	0.8	5		5.0		50mQ	300m	0	7	4	74-136N	DIP14a
93♦	T74LS136D1	TTL	EXOR	2	OC	2.0	0.8	5		5.0		50mQ	300m	0	7	4	74-136N	DIP14b
94♦	TC40H386F	CMS	EXOR	2		4.0	1.0			10		180m	.95	4	8	4	74L86N	FP166
95♦	TC40H386P	CMS	EXOR	2		4.0	1.0	50		10		300m	.95	4	8	4	74L86N	MO001AA
96♦	TC4030BP	CMS	EXOR	2		14.9	.05C	50		15		300m	4.0	4	8	4	74L86N	DIP14a
97♦	US74HCT86N(A)	CMS	EXOR	2		2.0	0.8	10		5.0		500m	750m	4	8	4	74L86N	DIP14 ⊠
98♦	GXB10113	ECL	EXOR	2		-1.1	-1.4		5.2		2.0n	100m†		0	7	4	G05-124	DIP16a
99▼	MC10H113FN	ECL	EXOR	2		-1.1	-1.4		5.2		2.3n	175m†	150m	0	7	4	G05-132	DIP16a
100♦	MC10H113L	ECL	EXOR	2		-1.1	-1.4		5.2		2.3n	175m†	150m	0	7	4	G05-132	DIP16a
101▼	MC10H113LD	ECL	EXOR	2		-1.1	-1.4		5.2		2.3n	175m†	150m	0	7	4	G05-132	DIP16a
102▼	MC10H113LDS	ECL	EXOR	2		-1.1	-1.4		5.2		2.3n	175m†	150m	0	7	4	G05-132	DIP16a
103♦	MC10H113P	ECL	EXOR	2		-1.1	-1.4		5.2		2.3n	175m†	150m	0	7	4	G05-132	DIP16b
104▼	MC10H113PD	ECL	EXOR	2		-1.1	-1.4		5.2		2.3n	175m†	150m	0	7	4	G05-132	DIP16b
105▼	MC10H113PDS	ECL	EXOR	2		-1.1	-1.4		5.2		2.3n	175m†	150m	0	7	4	G05-132	DIP16b
106▼	MC10113FN	ECL	EXOR	2		-1.1	-1.4		5.2		3.5n	218m	125m*	3	8	4	G05-132	DIP16a
107♦	MC10113L	ECL	EXOR	2		-1.1	-1.4		5.2		3.5n	218m	125m*	3	8	4	G05-132	DIP16a
108▼	MC10113LD	ECL	EXOR	2		-1.1	-1.4		5.2		3.5n	218m	125m*	3	8	4	G05-132	DIP16a
109▼	MC10113LDS	ECL	EXOR	2		-1.1	-1.4		5.2		3.5n	218m	125m*	3	8	4	G05-132	DIP16a
110♦	MC10113P	ECL	EXOR	2		-1.1	-1.4		5.2		3.5n	218m	125m*	3	8	4	G05-132	DIP16b

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - Exclusive-OR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	MC10113PD	ECL	EXOR	2		-1.1	-1.4		5.2		3.5n	218m	125m*	3	8	4	G05-132	DIP16b
2▼	MC10113PDS	ECL	EXOR	2		-1.1	-1.4		5.2		3.5n	218m	125m*	3	8	4	G05-132	DIP16b
3♦	F10113DC	ECL	EXOR	2		-1.1	-1.4	80g	5.2		3.7n	218mQ	145m*	0	7	4	G05-132	DIP16a
4♦	F10513DM	ECL	EXOR	2		-1.1	-1.4	40g	5.2		3.7n	218mQ	145m*	5	C	4	G05-132	DIP16a
5♦	F10513FM	ECL	EXOR	2		-1.1	-1.4	40g	5.2		3.7n	218mQ	145m*	5	C	4	G05-132	FP103
6♦	10113F	ECL	EXOR	2		-1.1	-1.4		5.2		4.2n	176m†		3	8	4	G05-132	DIP16a
7♦	10113N	ECL	EXOR	2		-1.1	-1.4		5.2		4.2n	176m†		3	8	4	G05-132	DIP16a
8♦	MC10513F	ECL	EXOR	2		-1.1	-1.4		5.2		4.5n	218m	125m*	5	C	4	G05-132	FP85
9♦	MC10513L	ECL	EXOR	2		-1.1	-1.4		5.2		4.5n	218m	125m*	5	C	4	G05-132	DIP16a
10♦	N74F86F	TTL	EXOR	2		2.0	0.8		-0.5	5.0	5.5n			0	7	4	74-86N	DIP14a
11♦	N74F86D	TTL	EXOR	2		2.0	0.8			5.0	6.5n			0	7	4	74-86N	FP147
12♦	MC54F86J	TTL	EXOR	2		2.0	0.8	12a		5.0	7.0n		300m	5	C	4	74-86N	DIP14a
13▼	MC54F86N	TTL	EXOR	2		2.0	0.8	12a		5.0	7.0n		300m	5	C	4	74-86N	DIP14a
14♦	MC74F86J	TTL	EXOR	2		2.0	0.8	12a		5.0	7.0n			0	7	4	74-86N	DIP14a
15♦	MC74F86N	TTL	EXOR	2		2.0	0.8	12a		5.0	7.0n			0	7	4	74-86N	DIP14a
16♦	74F86L1C	TTL	EXOR	2		2.0	0.8			5.0	8.0n			0	7	4	G05-440	LC19
17♦	74F86QC	TTL	EXOR	2		2.0	0.8			5.0	8.0n			0	7	4	G05-440	LC26
18♦	74F86SC	TTL	EXOR	2		2.0	0.8			5.0	8.0n			0	7	4	54-86	FP147
19♦	N74F86N	TTL	EXOR	2		2.0	0.8			5.0	8.0n			0	7	4	74-86	DIP14a
20♦	UPD74HC86C(A)	CMS	EXOR	2		4.2	1.2			5.0	8.0n	500m		4	8	4	74HC86	MO001AA
21♦	54F86L1M	TTL	EXOR	2		2.0	0.8			5.0	8.5n			5	C	4	G05-440	LC19
22♦	S54F86F	TTL	EXOR	2		2.0	0.8			5.0	8.5n		300m	5	C	4	74-86N	DIP14b
23♦	S54F86W	TTL	EXOR	2		2.0	0.8			5.0	8.5n		300m	5	C	4	54-86W	FP153
24♦	DM74S86N	TTL	EXOR	2		2.0	0.8	20		5.0	10n	375mQ		0	7	4	74-86N	DIP14a
25♦	N74S86D	TTL	EXOR	2		2.0	0.8	10		5.0	10n	375m	0.3	0	7	4	74-86N	FP147
26♦	N74S86N	TTL	EXOR	2		2.0	0.8	10		5.0	10n	375m	0.3	0	7	4	74-86N	DIP14a
27♦	N74S86W	TTL	EXOR	2		2.0	0.8	20		5.0	10n	76m†	1.0 †	0	7	4	54-86W	FP39e
28♦	N8241Q	TTL	EXOR	2		2.6	0.4C	20		5.0	10n	300m		0	7	4	54L86T	TO-88
29♦	S54S86F	TTL	EXOR	2		2.0	0.8	10		5.0	10n	375m	0.3	5	C	4	74-86N	DIP14b
30♦	S54S86W	TTL	EXOR	2		2.0	0.8	10		5.0	10n	375m	0.3	5	C	4	54-86W	FP153
31♦	SN54S86J	TTL	EXOR	2		2.0	0.8	10		5.0	10n	375m	0.3	5	C	4	74-86N	DIP14a
32♦	SN74S86N	TTL	EXOR	2		2.0	0.8	10		5.0	10n	375m	0.3	0	7	4	74-86N	DIP14a
33▼	HD74HC386P	CMS	EXOR	2		3.15	1.35			5.0	11n	500m	1.2	4	8	4	74L86N	DIP14a
34▼	HD74HC86FP	CMS	EXOR	2		3.15	1.35			5.0	12n	500m	1.2	4	8	4	74-86N	FP162
35▼	HD74HC86P	CMS	EXOR	2		3.15	1.35			5.0	12n	500m	1.2	4	8	4	74-86N	DIP14a
36▼	HD74HC386FP	CMS	EXOR	2		3.15	1.35			5.0	12n	500m	1.2	4	8	4	74L86N	FP161
37♦	9014DM	TTL	EXOR	2		1.7	0.9	11		5.0	13n	85m†		5	C	4	G02-132	DIP16a
38♦	9014FM	TTL	EXOR	2		2.0	0.8	11		5.0	13n	85m†		5	C	4	G02-132	FP93c
39♦	9014DC	TTL	EXOR	2		1.8	0.85	11		5.0	14n	85m†		0	7	4	G02-132	DIP16a
40♦	DM54S86J	TTL	EXOR	2		2.0	0.8			5.0	14n		0.3	5	C	4	54-86	DIP14a
41♦	M53286P	TTL	EXOR	2		2.0	0.8	10		5.0	14n	39m	1.0	0	7	4	74-86N	DIP14a
42▼	MC3021L	TTL	EXOR	2		2.5	0.4C	8		5.0	14n	100m†		0	7	4	74-86N	TO-116
43▼	MC3021P	TTL	EXOR	2		2.5	0.4C	8		5.0	14n	100m†		0	7	4	74-86N	DIP14a
44♦	MC3121F	TTL	EXOR	2		2.4	0.4C			5.0	14n	100m†		5	C	4	54-86w	TO-86
45♦	MC3121L	TTL	EXOR	2		2.4	0.4C	8		5.0	14n	100m†		5	C	4	74-86N	TO-116
46♦	74HC86D	CMS	EXOR	2		4.2	1.8	10		5.0	15n		2.4	4	8	4	74L86	FP142
47♦	74HC86N	CMS	EXOR	2		4.2	1.8	10		5.0	15n		2.4	4	8	4	74L86	DIP14a
48♦	SFC486E	TTL	EXOR	2		2.0	0.8	10		5.0	15n		1.0	0	7	4	74-86N	TO-116
49♦	SFC486EM	TTL	EXOR	2		2.0	0.8	10		5.0	15n		1.0	5	C	4	74-86N	TO-116
50♦	SFC486ET	TTL	EXOR	2		2.0	0.8	10		5.0	15n		1.0	2	8	4	74-86N	TO-116
51♦	SFC486PM	TTL	EXOR	2		2.0	0.8	10		5.0	15n		1.0	5	C	4	54-86W	TO-85
52♦	54LS386FM	TTL	EXOR	2		2.0	0.7	11d		5.0	17n	50mQ	300m*	5	C	4	54LS386W	FP21h
53♦	74LS86DC	TTL	EXOR	2		2.0	0.8	5		5.0	17n	50mQ	300m	0	7	4	74-86N	TO-116
54♦	74LS86PC	TTL	EXOR	2		2.0	0.8	5		5.0	17n	50mQ	300m	0	7	4	74-86N	TO-116
55▼	SN74ALS86D	TTL	EXOR	2		2.0	0.8			5.0	17n		0.4	0	7	4	74-86N	DIP14a
56♦	SN74ALS86N	TTL	EXOR	2		2.0	0.8			5.0	17n		0.4	0	7	4	74-86N	DIP14a
57♦	T54LS86D2	TTL	EXOR	2		2.0	0.7	11d		5.0	17n	50mQ	300m	5	C	4	74-86N	DIP14b
58♦	T74LS86B1	TTL	EXOR	2		2.0	0.8	22d		5.0	17n	50mQ	300m	0	7	4	74-86N	DIP14a
59♦	T74LS86D1	TTL	EXOR	2		2.0	0.8	22d		5.0	17n	50mQ	300m	0	7	4	74-86N	DIP14b
60♦	PC74HC86P	CMS	EXOR	2		3.15	1.35	10		5.0	21n	500m	0.8	4	C	4	74-86	DIP14b
61♦	PC74HC86T	CMS	EXOR	2		3.15	1.35	10		5.0	21n	300m	0.8	4	C	4	74-86	FP147
62♦	54LS136FM	TTL	EXOR	2	OC	2.0	0.7			5.0	23n	50mQ	300m	5	C	4	54-136W	TO-86
63♦	DM54LS386J	ITL	EXOR	2		2.0	0.7	10		5.0	23n		0.3	5	C	4	54-86	DIP14a
64♦	DM74LS386N	TTL	EXOR	2		2.0	0.8	10		5.0	23n		0.3	0	7	4	74-86	DIP14a
65♦	S8241W	TTL	EXOR	2		2.6	0.4C	10		5.0	23n	285m		5	C	4	54L86T	FP39e
66▼	SN74HC86D	CMS	EXOR	2		3.15	0.9			5.0	25n		1.2	4	8	4	74L86N	FP147
67♦	SN74HC86N	CMS	EXOR	2		3.15	0.9			5.0	25n		1.2	4	8	4	74L86N	MO001AA
68▼	SN74HC386D	CMS	EXOR	2		3.15	0.9			5.0	25n		1.2	4	8	4	74L86N	FP147
69♦	SN74HC386N	CMS	EXOR	2		3.15	0.9			5.0	25n		1.2	4	8	4	74L86N	MO001AA
70♦	M54HC386F1(A)	CMS	EXOR	2		3.15	1.35	10		5.0	27n	500m	1.2	5	C	4	74L86	DIP14a
71♦	54S86DM	TTL	EXOR	2		2.0	0.8	10		5.0	30n	150m†	1.0	5	C	4	74-86N	DIP14a
72♦	54S86FM	TTL	EXOR	2		2.0	0.8	10		5.0	30n	150m†	1.0	5	C	4	54-86W	FP52
73♦	74S86DC	TTL	EXOR	2		2.0	0.8	10		5.0	30n	150m†	1.0	0	7	4	74-86N	DIP14a
74♦	74S86PC	TTL	EXOR	2		2.0	0.8	10		5.0	30n	150m†	1.0	0	7	4	74-86N	DIP14a
75♦	5486DM	TTL	EXOR	2		2.0	0.8	10		5.0	30n	150m†	1.0	5	C	4	74-86N	TO-116
76♦	5486FM	TTL	EXOR	2		2.0	0.8	10		5.0	30n	150m†	1.0	5	C	4	54-86W	FP21h
77♦	7486DC	TTL	EXOR	2		2.0	0.8	10		5.0	30n	150m†	1.0	0	7	4	74-86N	TO-116
78♦	7486PC	TTL	EXOR	2		2.0	0.8	10		5.0	30n	150m†	1.0	0	7	4	74-86N	DIP14a
79♦	CD74HC86M	CMS	EXOR	2		3.15	1.35	10		4.5	30n	300m	1.7	4	8	4	54-86	FP147
80♦	DM5486J	TTL	EXOR	2		2.0	0.8	10		5.0	30n	160m†	1.0	5	C	4	74-86N	DIP14a
81♦	DM5486W	TTL	EXOR	2		2.0	0.8	10		5.0	30n	160m†	1.0	5	C	4	54-86W	FP97a
82♦	DM7486N	TTL	EXOR	2		2.0	0.8	10		5.0	30n	160m†	1.0	0	7	4	74-86N	DIP14a
83♦	DN74LS386P1	TTL	EXOR	2		2.0	0.8	10		5.0	30n	400m	700m	2	7	4	74L86	DIP14a
84♦	DN74LS386P4	TTL	EXOR	2		2.0	0.8	10		5.0	30n	400m	700m	2	7	4	74L86	FP177
85▼	HD74LS86G	TTL	EXOR	2		2.0	0.8			5.0	30n	400m	300m	2	7	4	74-86N	DIP14a
86♦	HD74LS86P	TTL	EXOR	2		2.0	0.8			5.0	30n	400m	300m	2	7	4	74-86N	DIP14a
87▼	HD74LS136G	TTL	EXOR	2	OC	2.0	0.8			5.0	30n	400m	300m	2	7	4	74-136N	DIP16a
88♦	HD74LS136P	TTL	EXOR	2	OC	2.0	0.8			5.0	30n	400m	300m	2	7	4	74-136N	DIP16a
89▼	HD74LS386G	TTL	EXOR	2		2.0	0.8			5.0	30n	400m	300m	2	7	4	74L86N	DIP14a
90♦	HD74LS386P	TTL	EXOR	2		2.0	0.8			5.0	30n	400m	300m	2	7	4	74L86N	DIP14a
91♦	M74LS86P	TTL	EXOR	2		2.0	0.8	20		5.0	30n	30m†	0.4	2	7	4	74-86N	DIP14a
92♦	MB74LS86	TTL	EXOR	2		2.0	0.8	20		5.0	30n	30m†	1.0 *	2	7	4	74-86N	DIP14a
93♦	MB74LS86M	TTL	EXOR	2		2.0	0.8	20		5.0	30n	30m†	1.0 *	2	7	4	74-86N	DIP14a
94♦	N74LS86D	TTL	EXOR	2		2.0	0.8	20		5.0	30n	50m	0.3	0	7	4	74-86N	FP147
95♦	N74LS86F	TTL	EXOR	2		2.0	0.8	20		5.0	30n	50m		0	7	4	74-86N	DIP14a
96♦	N74LS86N	TTL	EXOR	2		2.0	0.8	20		5.0	30n	50m	0.3	0	7	4	74-86N	DIP14b
97♦	N7486F	TTL	EXOR	2		2.0	0.8	10		5.0	30n	250m	1.0 †	0	7	4	74-86N	DIP14b
98♦	N7486N	TTL	EXOR	2		2.0	0.8	10		5.0	30n	250m	0.4	0	7	4	74-86N	DIP14a
99♦	S54LS86F	TTL	EXOR	2		2.0	0.7			5.0	30n	50m	0.3	5	C	4	74-86N	DIP14b
100♦	S54LS86G	TTL	EXOR	2		2.0	0.7			5.0	30n	50m	0.3	5	C	4	54-86	LC24
101♦	S54LS86W	TTL	EXOR	2		2.0	0.7			5.0	30n	50m	0.3	5	C	4	54-86w	FP153
102♦	S54LS136W	TTL	EXOR	2	OC	2.0	0.7			5.0	30n	50m	0.3	5	C	4	54-136W	FP153
103♦	S54LS386W	TTL	EXOR	2		2.0	0.7	11d		5.0	30n	50m	300m*	5	C	4	54LS386W	FP39e
104♦	S5486F	TTL	EXOR	2		2.0	0.8	10		5.0	30n	215m	0.4	5	C	4	74-86N	DIP14b
105♦	S5486W	TTL	EXOR	2		2.0	0.8	10		5.0	30n	215m	0.4	5	C	4	54-86W	FP153
106♦	SN54HC86J	CMS	EXOR	2		3.15	0.9			5.0	30n		1.2	5	C	4	74L86N	MO001AA
107♦	SN54HC386J	CMS	EXOR	2		3.15	0.9			5.0	30n		1.2	5	C	4	74L86N	MO001AA
108♦	SN54LS86J	TTL	EXOR	2		2.0	0.7			5.0	30n		300m	5	C	4	74-86N	DIP14a
109♦	SN54LS386AJ	TTL	EXOR	2		2.0	0.7			5.0	30n	30m†	0.3	5	C	4	74L86	DIP14a
110♦	SN74LS86J	TTL	EXOR	2		2.0	0.8			5.0	30n		300m	0	7	4	74-86N	DIP14a

5. GATES - Exclusive-OR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	SN74LS86N	TTL	EXOR	2		2.0	0.8			5.0	30n		300m	0	7	4	74-86N	DIP14a
2♦	SN74LS386AN	TTL	EXOR	2		2.0	0.8			5.0	30n	30m†	0.4	0	7	4	74L86	DIP14a
3♦	SN5486J	TTL	EXOR	2		2.0	0.8	10		5.0	30n	150m†	0.4	5	C	4	74-86N	DIP14a
4♦	SN7486N	TTL	EXOR	2		2.0	0.8	10		5.0	30n	150m†	0.4	0	7	4	74-86N	DIP14a
5▼	TC74HC86F(A)	CMS	EXOR	2		3.15	1.35	10d		5.0	30n	180m	1.2	4	8	4	74-86N	FP166
6▼	TC74HC86P(A)	CMS	EXOR	2		3.15	1.35	10d		5.0	30n	500m	1.2	4	8	4	74-86N	DIP14a
7▼	TC74HC386F(A)	CMS	EXOR	2		3.15	1.35	10d		5.0	30n	180m	1.2	4	8	4	74L86N	FP166
8▼	TC74HC386P(A)	CMS	EXOR	2		3.15	1.35	10d		5.0	30n	500m	1.2	4	8	4	74L86N	DIP14a
9♦	M74HC86C1(A)	CMS	EXOR	2		3.15	1.35	10		4.5	33n	500m	1.2	4	8	4	G05-440	LC33
10♦	M74HC386B1(A)	CMS	EXOR	2		3.15	1.35	10		5.0	33n	500m	1.2	4	8	4	74L86	DIP14a
11♦	M74HC386C1(A)	CMS	EXOR	2		3.15	1.35	10		5.0	33n	500m	1.2	4	8	4	G05-441	LC33
12♦	M74HC386F1(A)	CMS	EXOR	2		3.15	1.35	10		5.0	33n	500m	1.2	4	8	4	74L86	DIP14a
13♦	74HCT86D	CMS	EXOR	2		2.0	0.8	10		5.0	40n		1.2	4	8	4	74L86	FP142
14♦	74HCT86N	CMS	EXOR	2		2.0	0.8	10		5.0	40n		1.2	4	8	4	74L86	DIP14a
15♦	CD74HCT86M	CMS	EXOR	2		2.0	0.8	10		5.0	40n	300m	2.4	4	8	4	54-86	FP147
16♦	MC1812L,P	DTL	EXOR	2		2.6	.45C	8		5.0	40n	130m		0	7	4	74-86N	TO-116
17♦	MC1912F	DTL	EXOR	2		2.6	0.4C	8		5.0	40n	130m		5	C	4	54-86W	TO-86
18♦	MC1912L	DTL	EXOR	2		2.6	0.4C	8		5.0	40n	130m		5	C	4	74-86N	TO-116
19♦	HCC4030BK	CMS	EXOR	2		12	3.0			15	45n	200m†	2.5 *	5	C	4	54L86T	FP130
20♦	PC74HCT86P	CMS	EXOR	2		2.0	0.8	10		5.0	48n	500m	0.7	4	C	4	74-86	DIP14b
21♦	PC74HCT86T	CMS	EXOR	2		2.0	0.8	10		5.0	48n	300m	0.7	4	C	4	74-86	FP147
22▼	SN74ALS136D	TTL	EXOR	2	OC	2.0	0.8			5.0	50n			0	7	4	74-136N	FP147
23♦	SN74ALS136N	TTL	EXOR	2	OC	2.0	0.8			5.0	50n			0	7	4	74-136N	DIP14a
24♦	HEF4030BPN	CMS	EXOR	2		11.0	4.0	16e		15	55n	400m	6.7	4	8	4	G05-126	DIP14b
25♦	DM54L86W	TTL	EXOR	2		2.0	0.7	4		5.0	60n		0.4	5	C	4	54-86W	FP97c
26♦	HCC4070BK	CMS	EXOR	2		9.99	.01C			10	70n	200m	4.5	5	C	4	54L86T	FP130
27♦	4030BFC	CMS	EXOR	2		11	4.0	25e		15	72n	450uQ	6.7	4	8	4	54L86T	FP21h
28♦	4030BFM	CMS	EXOR	2		11	4.0	25e		15	72n	450uQ	6.7	5	C	4	54L86T	FP21h
29♦	4070BFC	CMS	EXOR	2		11	4.0	25e		15	72n	450uQ	6.7	4	8	4	54L86T	FP21h
30♦	4070BFM	CMS	EXOR	2		11	4.0	25e		15	72n	450uQ	6.7	5	C	4	54L86T	FP21h
31♦	HEF4030BD	CMS	EXOR	2		7.0	3.0			10	75n	500m		4	8	4	74L86	DIP14a
32♦	HEF4030BP	CMS	EXOR	2		7.0	3.0			10	75n	500m		4	8	4	74L86	DIP14a
33♦	HEF4030BT	CMS	EXOR	2		7.0	3.0			10	75n	400m		4	8	4	74L86	FP147
34♦	HEF4070BD	CMS	EXOR	2		7.0	3.0			10	75n	500m		4	8	4	74L86N	DIP14a
35♦	HEF4070BP	CMS	EXOR	2		7.0	3.0			10	75n	500m		4	8	4	74L86N	DIP14a
36♦	HEF4070BT	CMS	EXOR	2		7.0	3.0			10	75n	400m		4	8	4	74L86N	FP147
37♦	CD4070BMW	CMS	EXOR	2		11	4.0	19e		15	80n	15uQ	6.7	5	C	4	54L86T	FP97c
38♦	CD4030MW	CMS	EXOR	2		9.99	.01C			10	100n	500m	4.5	5	C	4	54L86T	FP97c
39♦	HBC4030AK	CMS	EXOR	2		10	0C	50		10	100n	10uQ	4.5	5	C	4	54L86T	MO004AF
40♦	MM4630AF	CMS	EXOR	2		4.99	.01C			5.0	100n	500m	450m	5	C	4	54L86T	FP98
41♦	UPD4030BG	CMS	EXOR	2		11.0	4.0			15	100n	200m	3.9	4	8	4	40H386	FP161
42▼	MC683L	DTL	EXOR	2		12.5	1.5C	10		15	300n	380m†		3	7	4	6-83P	TO-116
43▼	MC683P	DTL	EXOR	2		12.5	1.5C	10		15	300n	380m†		3	7	4	6-83P	DIP14a
44♦	HXA100107D	ECL	EXOR	2	CO	-1.1	-1.4	15	4.5		.95n	248m		0	8	5	G05-133	DL ☑
45♦	HXA100107F	ECL	EXOR	2	CO	-1.1	-1.4	15	4.5		.95n	248m		0	8	5	G05-133	FP ☑
46♦	100107F	ECL	EXOR	2	CO	-1.1	-1.4		4.5		1.7n	310m†		0	8	5	G05-133	DIP24d
47♦	100107Y	ECL	EXOR	2	CO	-1.1	-1.4		4.5		1.7n	310m†		0	8	5	G05-133	FP173
48♦	HD100107F	ECL	EXOR	2	CO	-1.1	-1.4		4.5		2.5n	40m†	145m	0	8	5	G05-133	FP146
49♦	HD100107	ECL	EXOR	2	CO	-1.1	-1.4		4.5		2.6n	40m†	145m	0	8	5	G05-133	DIP24d
50♦	F100107FC	ECL	EXOR	2	CO	-1.1	-1.4	3	4.5		2.8n	432mQ	130m	0	7	5	G05-133	FP126
51♦	F100107DC	ECL	EXOR	2	CO	-1.1	-1.4	3	4.5		3.0n	432mQ	130m	0	7	5	G05-133	DIP24c
52♦	FZH271	DTL	EXOR	3		7.5	4.5	10		12	260n	288m	5.0	0	7	4	G05-116	DIP16a
53♦	FZH275	DTL	EXOR	3		7.5	4.5	10		12	260n	288m	5.0	2	8	4	G05-116	DIP16a
54♦	N8440A	TTL	EXOR	4		3.4	.35C	9		5	95n	29m	1.4	0	7	2	G05-92	TO-116
55♦	N8440F	TTL	EXOR	4		3.4	.35C	9		5.0	95n	29m	1.4	0	7	2	G05-92	DIP14a
56♦	N8440J	TTL	EXOR	4		3.4	.35C	9		5	95n	29m	1.4	0	7	2	G05-92	TO-88
57♦	S8440A	TTL	EXOR	4		3.4	.35C	9		5	95n	29m	1.4	5	C	2	G05-92	TO-116
58♦	S8440F	TTL	EXOR	4		3.4	.35C	9		5.0	95n	29m	1.4	5	C	2	G05-92	DIP14a
59♦	S8440J	TTL	EXOR	4		3.4	.35C	9		5	95n	29m	1.4	5	C	2	G05-92	TO-88
60♦	RG90CJ	TTL	EXOR	8		3.2	0.4	15		5.0	22n	35m†	900m	5	C	1	4-03P	FP52j
61♦	RG90CK	TTL	EXOR	8		3.2	0.4	15		5.0	22n	35m†	900m	5	C	1	4-03P	FP52k
62♦	RG90DC	TTL	EXOR	8		3.2	0.4	15		5.0	22n	35m†	900m	5	C	1	4-03P	DIP14e
63♦	RG91CJ	TTL	EXOR	8		3.2	0.4	7		5.0	22n	35m†	900m	5	C	1	4-03P	FP52j
64♦	RG91CK	TTL	EXOR	8		3.2	0.4	7		5.0	22n	35m†	900m	5	C	1	4-03P	FP52k
65♦	RG91DC	TTL	EXOR	8		3.2	0.4	7		5.0	22n	35m†	900m	5	C	1	4-03P	DIP14e
66♦	RG92CJ	TTL	EXOR	8		3.1	0.4	12		5.0	22n	35m†	900m	0	7	1	4-03P	FP52j
67♦	RG92CK	TTL	EXOR	8		3.1	0.4	12		5.0	22n	35m†	900m	0	7	1	4-03P	FP52k
68♦	RG92DC	TTL	EXOR	8		3.1	0.4	12		5.0	22n	35m†	900m	0	7	1	4-03P	DIP14e
69♦	RG93CJ	TTL	EXOR	8		3.1	0.4	6		5.0	22n	35m†	900m	0	7	1	4-03P	FP52j
70♦	RG93CK	TTL	EXOR	8		3.1	0.4	6		5.0	22n	35m†	900m	0	7	1	4-03P	FP52k
71♦	RG93DC	TTL	EXOR	8		3.1	0.4	6		5.0	22n	35m†	900m	0	7	1	4-03P	DIP14e

GATE, MULTIFUNCTION

75♦	M4572BP	CMS	MULT			11.0	4.0			15				4	8	6	45-72U	DIP16b
76♦	CD4572UBD(A)	CMS	MULT			12.5	2.5			15	85n	500m	2.4	5	C	6	45-72	MO001AE
77♦	CD4572UBE(A)	CMS	MULT			12.5	2.5			15	85n	500m	2.4	4	8	6	45-72	MO001AC
78♦	CD4572UBF(A)	CMS	MULT			12.5	2.5			15	85n	500m	2.4	5	C	6	45-72	MO001AC
79♦	CD4572UBK(A)	CMS	MULT			12.5	2.5			15	85n	500m	2.4	5	C	6	45-72	MO004AG
80♦	54S135FM	TTL	MULT	1-2		2.0	0.8	25		5.0	13n	495m		5	C	4	54S135W	FP93c
81♦	DM74S135N	TTL	MULT	1-2		2.0	0.8	20		5.0	15n	495mQ		0	7	4	74S135N	DIP14a
82♦	S54S135F	TTL	MULT	1-2		2.0	0.8	10		5.0	15n	495m	0.3	5	C	4	74S135N	DIP16b
83♦	S54S135W	TTL	MULT	1-2		2.0	0.8	10		5.0	15n	495m	0.3	5	C	4	54S135W	FP154
84♦	DM54S135J	TTL	MULT	1-2		2.0	0.8			5.0	18n		0.3	5	C	4	54S135	DIP14a
85▼	SN74HC7006NT	CMS	MULT	1/3/3/4/		3.15	0.9			5.0	23n		1.2	4	8	6	74HC7006	DIP24e
86♦	SP301A	DTL	MULT	2		3.5	0.4C	12		5.0	45n	180m†	1.2	0	7	4	G04-400	DIP14a
87♦	RG150CJ	TTL	MULT	2-2-3-3	XO	3.4	0.2			5.0	4.0n	20m†	1.1	5	C	4	4-09P	FP52j
88♦	RG150CK	TTL	MULT	2-2-3-3	XO	3.4	0.2			5.0	4.0n	20m†	1.1	5	C	4	4-09P	FP52k
89♦	RG150DC	TTL	MULT	2-2-3-3	XO	3.4	0.2			5.0	4.0n	20m†	1.1	5	C	4	4-09P	DIP14e
90♦	RG151CJ	TTL	MULT	2-2-3-3		3.4	0.2			5.0	4.0n	20m†	1.1	5	C	4	4-09P	FP52j
91♦	RG151CK	TTL	MULT	2-2-3-3		3.4	0.2			5.0	4.0n	20m†	1.1	5	C	4	4-09P	FP52k
92♦	RG151DC	TTL	MULT	2-2-3-3		3.4	0.2			5.0	4.0n	20m†	1.1	5	C	4	4-09P	DIP14e
93♦	TSC333AL	HNL	MULT	2/1/1		6.5	5.0	28		15	350n		3.5 *	3	7	6	3-33C	DIP16b
94♦	MC14501UBAL	CMS	MULT	2/4/4		11.2	2.5	18e		15	50n	15uQ	1.0 *	5	C	3	45-01A	DIP16a
95▼	MC14501UBALD	CMS	MULT	2/4/4		11.2	2.5	18e		15	50n	15uQ	1.0 *	5	C	3	45-01A	DIP16a
96▼	MC14501UBALDS	CMS	MULT	2/4/4		11.2	2.5	18e		15	50n	15uQ	1.0 *	5	C	3	45-01A	DIP16a
97▼	MC14501UBALS	CMS	MULT	2/4/4		11.2	2.5	18e		15	50n	15uQ	1.0 *	5	C	3	45-01A	DIP16a
98♦	MC14501UBCL	CMS	MULT	2/4/4		11.2	2.5	16e		15	50n	60uQ	1.0 *	4	8	3	45-01A	DIP16a
99▼	MC14501UBCLD	CMS	MULT	2/4/4		11.2	2.5	16e		15	50n	60uQ	1.0 *	4	8	3	45-01A	DIP16a
100▼	MC14501UBCLDS	CMS	MULT	2/4/4		11.2	2.5	16e		15	50n	60uQ	1.0 *	4	8	3	45-01A	DIP16a
101▼	MC14501UBCLS	CMS	MULT	2/4/4		11.2	2.5	16e		15	50n	60uQ	1.0 *	4	8	3	45-01A	DIP16a
102♦	MC14501UBCP	CMS	MULT	2/4/4		11.2	2.5	16e		15	50n	60uQ	1.0 *	4	8	3	45-01A	DIP16a
103▼	MC14501UBCPD	CMS	MULT	2/4/4		11.2	2.5	16e		15	50n	60uQ	1.0 *	4	8	3	45-01A	DIP16a
104▼	MC14501UBCPDS	CMS	MULT	2/4/4		11.2	2.5	16e		15	50n	60uQ	1.0 *	4	8	3	45-01A	DIP16a
105▼	MC14501UBCPS	CMS	MULT	2/4/4		11.2	2.5	16e		15	50n	60uQ	1.0 *	4	8	3	45-01A	DIP16a
106▼	MC14501UBD	CMS	MULT	2/4/4		11.2	2.5	16e		15	50n	60uQ	1.0 *	4	8	3	45-01A	DIP16a
107♦	TC4501BP	CMS	MULT	2/4/4		7.0	3.0	50		10	100n	300m	4.0	4	8	3	45-01A	DL ☑
108♦	SP300A	DTL	MULT	3				1					1.0	0	7	2	None	DIP14a
109♦	SN74S135D	TTL	MULT	3		2.0	0.8			5.0	14n		0.3	0	7	4	74S135	FP148
110♦	SN74S135N	TTL	MULT	3		2.0	0.8			5.0	14n	325m†	0.3	0	7	4	74S135N	DIP16a

5. GATES - Multifunction(Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	N74S135F	TTL	MULT	3		2.0	0.8	10		5.0	15n	495m	1.0 †	0	7	4	74S135N	DIP16b
2♦	N74S135N	TTL	MULT	3		2.0	0.8	10		5.0	15n	495m	0.3	0	7	4	74S135N	DIP16a
3♦	K155LR1	TTL	MULT	4		2.4	0.4	10		5.0				1	7	2	None	None
4♦	74S135PC	TTL	MULT	4		2.0	0.8	25		5.0	13n	495m		0	7	4	74S135N	None
5♦	RG290CJ	TTL	MULT	5		3.4	0.2			5.0	7.0n	30m†	1.0	5	C	2	None	FP52j
6♦	RG290CK	TTL	MULT	5		3.4	0.2			5.0	7.0n	30m†	1.0	5	C	2	None	FP52k
7♦	RG290DC	TTL	MULT	5		3.4	0.2			5.0	7.0n	30m†	1.0	5	C	2	None	DIP14e
8♦	RG291CJ	TTL	MULT	5		3.4	0.2			5.0	7.0n	30m†	1.0	5	C	2	None	FP52j
9♦	RG291CK	TTL	MULT	5		3.4	0.2			5.0	7.0n	30m†	1.0	5	C	2	None	FP52k
10♦	RG291DC	TTL	MULT	5		3.4	0.2			5.0	7.0n	30m†	1.0	5	C	2	None	DIP14e
11♦	RG292CJ	TTL	MULT	5		3.4	0.2			5.0	7.0n	30m†	1.0	0	7	2	None	FP52j
12♦	RG292CK	TTL	MULT	5		3.4	0.2			5.0	7.0n	30m†	1.0	0	7	2	None	FP52k
13♦	RG292DC	TTL	MULT	5		3.4	0.2			5.0	7.0n	30m†	1.0	0	7	2	None	DIP14e
14♦	RG293CJ	TTL	MULT	5		3.4	0.2			5.0	7.0n	30m†	1.0	0	7	2	None	FP52j
15♦	RG293CK	TTL	MULT	5		3.4	0.2			5.0	7.0n	30m†	1.0	0	7	2	None	FP52k
16♦	RG293DC	TTL	MULT	5		3.4	0.2			5.0	7.0n	30m†	1.0	0	7	2	None	DIP14e
17♦	K155LN4	TTL	MULT	6	OC		0.4			5.0				1	7	6	None	None
18♦	CD4048AD	CMS	MULT	8		2.0	0.8			5.0		500m		5	C	1	40-48B	MO002AE
19♦	CD4048AE	CMS	MULT	8		2.0	0.8			5.0		500m		4	8	1	40-48B	MO001AC
20♦	CD4048AF	CMS	MULT	8		2.0	0.8			5.0		500m		5	C	1	40-48B	MO001AC
21♦	CD4048BCJ	CMS	MULT	8		2.0	0.8			5.0		500m		4	8	1	40-48B	DIP16b
22♦	CD4048BCN	CMS	MULT	8		2.0	0.8			5.0		500m		4	8	1	40-48B	DIP16a
23♦	CD4048BD	CMS	MULT	8		2.0	0.8			5.0		500m		5	C	1	40-48B	MO001AE
24♦	CD4048BE	CMS	MULT	8		2.0	0.8			5.0		500m		4	8	1	40-48B	MO001AC
25♦	CD4048BF	CMS	MULT	8		2.0	0.8			5.0		500m		5	C	1	40-48B	MO001AG
26♦	CD4048BMJ	CMS	MULT	8		2.0	0.8			5.0		500m		5	C	1	40-48B	DIP16a
27♦	CD4048BMW	CMS	MULT	8		2.0	0.8			5.0		500m		5	C	1	40-48B	FP88C
28♦	CM4048AD	CMS	MULT	8		2.0	0.8			5.0		500m		4	8	1	40-48B	DIP16a
29♦	CM4048AE	CMS	MULT	8		2.0	0.8			5.0		500m		4	8	1	40-48B	DIP16a
30♦	HBC4048AD	CMS	MULT	8		2.0	0.8			5.0		500m		5	C	1	40-48B	None
31♦	HBC4048AF	CMS	MULT	8		2.0	0.8			5.0		500m		4	8	1	40-48B	MO001AC
32♦	HBC4048AK	CMS	MULT	8		2.0	0.8			5.0		500m		5	C	1	40-48B	DIP16a
33♦	HBF4048AE	CMS	MULT	8		2.0	0.8			5.0		500m		5	C	1	40-48B	DIP16b
34♦	HBF4048AF	CMS	MULT	8		2.0	0.8			5.0		500m		5	C	1	40-48B	FP131
35♦	K155LR4	TTL	MULT	8		2.4	0.4	10		5.0				1	7	1	None	None
36♦	HCC4048BD	CMS	MULT	8		11	4.0			15	100n	200m	2.5 *	5	C	1	40-48B	DIP16a
37♦	HCC4048BF	CMS	MULT	8		11	4.0			15	100n	200m	2.5 *	5	C	1	40-48B	None
38♦	HCC4048BK	CMS	MULT	8		11	4.0			15	100n	200m	2.5 *	5	C	1	40-48B	FP131
39♦	HCF4048BE	CMS	MULT	8		11	4.0			15	100n	200m	2.5 *	4	8	1	40-48B	DIP16a
40♦	HCF4048BF	CMS	MULT	8		11	4.0			15	100n	200m	2.5 *	4	8	1	40-48B	None
41♦	K155LR3	TTL	MULT	9		2.4	0.4	10		5.0				1	7	1	None	None

GATE, NAND

45♦	CD40107BD	CMS	NAND			3.5	1.5			15	100n	500m	1.0	5	C	2	40-107B	DL ☑
46♦	FZH105A	HNL	NAND			7.5	4.5	100		15	175n	51m		2	8	4	G04-531	DIP16a
47♦	N1012A	ECL	NAND	2		-1.1	-1.4	25	5.2		4.5n	65m	400m	0	7	1	None	TO-116
48▼	HD74LS20G	TTL	NAND	2		2.0	0.8			5.0	15n	400m	300m	2	7	2	74-13N	DIP14a
49♦	54F00DM	TTL	NAND	2		2.0	0.8	12		5.0		51m		5	C	4	74-00N	DIP14b
50♦	54H00DM	TTL	NAND	2		2.0	0.8	10		5.0		200m	1.0	5	C	4	74-00N	TO-116
51♦	54H01DM	TTL	NAND	2	OC	2.0	0.8	10		5.0		200m	1.0	5	C	4	74-03N	TO-116
52♦	54LS00DM	TTL	NAND	2		2.0	0.7			5.0		22mQ	300m	5	C	4	74-00N	TO-116
53♦	54LS03DM	TTL	NAND	2	OC	2.0	0.7			5.0		22mQ	300m	5	C	4	74-03N	TO-116
54♦	54LS26DM	TTL	NAND	2	OC	2.0	0.7	11d		5.0		22mQ	300m*	5	C	4	74-03N	TO-116
55♦	54S00DM	TTL	NAND	2		2.0	0.8	10		5.0		180m	1.0	5	C	4	74-00N	TO-116
56♦	54S03DM	TTL	NAND	2	OC	2.0	0.8	10		5.0		180m	1.0	5	C	4	74-03N	TO-116
57♦	74F00DC	TTL	NAND	2		2.0	0.8	12		5.0		51m		0	7	4	74-00N	DIP14b
58♦	74F00PC	TTL	NAND	2		2.0	0.8	12		5.0		51m		0	7	4	74-00N	DIP14a
59♦	74H00DC	TTL	NAND	2		2.0	0.8	10		5.0		200m	1.0	0	7	4	74-00N	TO-116
60♦	74H00PC	TTL	NAND	2		2.0	0.8	10		5.0		200m	1.0	0	7	4	74-00N	DIP14a
61♦	74H01DC	TTL	NAND	2	OC	2.0	0.8	10		5.0		90m†	1.0	0	7	4	74-03N	TO-116
62♦	74H01PC	TTL	NAND	2	OC	2.0	0.8	10		5.0		90m†	1.0	0	7	4	74-03N	DIP14a
63♦	74LS00DC	TTL	NAND	2		2.0	0.8			5.0		22mQ	300m	0	7	4	74-00N	TO-116
64♦	74LS00PC	TTL	NAND	2		2.0	0.8			5.0		22mQ	300m	0	7	4	74-00N	TO-116
65♦	74LS03DC	TTL	NAND	2	OC	2.0	0.8	5		5.0		22mQ	300m	0	7	4	74-03N	TO-116
66♦	74LS03PC	TTL	NAND	2	OC	2.0	0.8	5		5.0		22mQ	300m	0	7	4	74-03N	TO-116
67♦	74LS26DC	TTL	NAND	2	OC	2.0	0.8	22d		5.0		22mQ	300m*	0	7	4	74-03N	TO-116
68♦	74LS26PC	TTL	NAND	2	OC	2.0	0.8	22d		5.0		22mQ	300m*	0	7	4	74-03N	DIP14a
69♦	74S00DC	TTL	NAND	2		2.0	0.8	10		5.0		180m	1.0	0	7	4	74-00N	TO-116
70♦	74S00PC	TTL	NAND	2		2.0	0.8	10		5.0		180m	1.0	0	7	4	74-00N	DIP14a
71♦	74S03DC	TTL	NAND	2	OC	2.0	0.8	10		5.0		7.5n		0	7	4	74-03N	TO-116
72♦	74S03PC	TTL	NAND	2	OC	2.0	.50	10		5.0		7.5n		0	7	4	74-03N	DIP14a
73♦	946DM	DTL	NAND	2		1.7	1.4	10		5.0		34m†	1.0	5	C	4	74-00N	DIP14b
74♦	949DC	DTL	NAND	2		2.6	0.4C	7		5.0		36m	1.0	0	7	4	74-00N	TO-116
75♦	949DM	DTL	NAND	2		1.9	1.1			5.0		34m†	1.0	5	C	4	74-00N	DIP14a
76♦	5400DM	TTL	NAND	2		2.0	0.8	20		5.0		10m	1.0	5	C	4	74-00N	TO-116
77♦	5403DM	TTL	NAND	2	OC	2.0	0.8	10		5.0		40m†	1.0	5	C	4	74-03N	TO-116
78♦	7400DC	TTL	NAND	2		2.0	0.8	20		5.0		10m	1.0	0	7	4	74-00N	TO-116
79♦	7400PC	TTL	NAND	2		2.0	0.8	10		5.0		10m	1.0	0	7	4	74-00N	DIP14a
80♦	7403DC	TTL	NAND	2	OC	2.0	0.8	10		5.0		40m†	1.0	0	7	4	74-03N	TO-116
81♦	7403PC	TTL	NAND	2	OC	2.0	0.8	10		5.0		40m†	1.0	0	7	4	74-03N	DIP14a
82♦	7426DC	TTL	NAND	2	OC	2.0	0.8	10		5.0		110mQ		0	7	4	74-03N	TO-116
83♦	7426PC	TTL	NAND	2	OC	2.0	0.8	10		5.0		110mQ		0	7	4	74-03N	DIP14a
84♦	9002DC	TTL	NAND	2		1.8	0.85	10		5.0		44m†		0	7	4	74-00N	DIP14a
85♦	9002DM	TTL	NAND	2		1.7	0.9	11		5.0		44m†		5	C	4	74-00N	DIP14a
86♦	9012DC	TTL	NAND	2	OC	1.8	0.85			5.0		78mQ		0	7	4	74-03N	TO-116
87♦	9012DM	TTL	NAND	2	OC	1.7	0.9			5.0		70mQ		5	C	4	74-03N	TO-116
88♦	9946BC	DTL	NAND	2		1.8	1.2	10		5.0		34m†	1.0	0	7	4	74-00N	DIP14a
89♦	9946DC	DTL	NAND	2		1.8	1.2	10		5.0		34m†	1.0	0	7	4	74-00N	DIP14b
90♦	9946DM	DTL	NAND	2		1.7	1.4	10		5.0		34m†	1.0	5	C	4	74-00N	DIP14b
91▼	BU4011B	CMS	NAND	2		7.0	3.0			10		550m	2.9	4	8	4	40-11B	DIP14a
92▼	BU4011BF	CMS	NAND	2		7.0	3.0			10		550m	2.9	4	8	4	40-11B	FP161
93♦	DM54ALS00AJ	TTL	NAND	2		2.0	0.8	10		5.0		14n	0.4	5	C	4	74-00	DIP14a
94♦	DM54ALS03AJ	TTL	NAND	2	OC	2.0	0.8	10		5.0		59n	0.4	5	C	4	74-03	DIP14a
95♦	DM54AS00J	TTL	NAND	2		2.0	0.8	50		5.0		5.0n	0.3	5	C	4	74-00	DIP14a
96♦	DM54H00J	TTL	NAND	2		2.0	0.8	10		5.0		84m		5	C	4	74-00N	DIP14a
97♦	DM54H01J	TTL	NAND	2	OC	2.0	0.8	10		5.0		200m		5	C	4	74-03N	DIP14a
98♦	DM54L00J	TTL	NAND	2		2.0	0.7	20		5.0		4.0m†		5	C	4	74-00N	DIP14a
99♦	DM54L03J	TTL	NAND	2	OC	2.0	0.7	20		5.0		4.0m†		5	C	4	74-03N	DIP14a
100♦	DM54LS00J	TTL	NAND	2		2.0	0.7	10		5.0		15n	0.3	5	C	4	74-00	DIP14a
101♦	DM54LS03J	TTL	NAND	2	OC	2.0	0.7	10		5.0		45n	0.3	5	C	4	74-03	DIP14a
102♦	DM54LS26J	TTL	NAND	2	OC	2.0	0.7	10		5.0		32n	0.3	5	C	4	74-03	DIP14a
103♦	DM74ALS00AJ	TTL	NAND	2		2.0	0.8	10		5.0		11n	0.3	0	7	4	74-00	DIP14a
104♦	DM74ALS00AN	TTL	NAND	2		2.0	0.8	10		5.0		11n	0.3	0	7	4	74-00	DIP14a
105♦	DM74ALS03AJ	TTL	NAND	2	OC	2.0	0.8	10		5.0		54n	0.3	0	7	4	74-03	DIP14a
106♦	DM74ALS03AN	TTL	NAND	2	OC	2.0	0.8	10		5.0		54n	0.3	0	7	4	74-03	DIP14a
107♦	DM74AS00J	TTL	NAND	2		2.0	0.8	50		5.0		4.5n	0.3	0	7	4	74-00	DIP14a
108♦	DM74AS00N	TTL	NAND	2		2.0	0.8	50		5.0		4.5n	0.3	0	7	4	74-00	DIP14a
109♦	DM74H00N	TTL	NAND	2		2.0	0.8	10		5.0		84m		0	7	4	74-00N	DIP14a
110♦	DM74H01J	TTL	NAND	2	OC	2.0	0.8	10		5.0		200m		0	7	4	74-03N	DIP14a

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	DM74H01N	TTL	NAND	2	OC	2.0	0.8	10		5.0		200m		0	7	4	74-03N	DIP14a
2♦	DM74L00N	TTL	NAND	2		2.0	0.7	20		5.0		4.0m†		0	7	4	74-00N	DIP14a
3♦	DM74L03N	TTL	NAND	2	OC	2.0	0.7	20		5.0		4.0m†		0	7	4	74-03N	DIP14a
4♦	DM74LS00N	TTL	NAND	2		2.0	0.8	10		5.0		15n	0.3	0	7	4	74-00	DIP14a
5♦	DM74LS03N	TTL	NAND	2	OC	2.0	0.8	10		5.0		45n	0.3	0	7	4	74-03	DIP14a
6♦	DM74LS26N	TTL	NAND	2	OC	2.0	0.8	10		5.0		32n	0.3	0	7	4	74-03	DIP14a
7♦	DM74S00N	TTL	NAND	2		2.0	0.8	10		5.0		76m†		0	7	4	74-00N	DIP14a
8♦	DM74S03N	TTL	NAND	2	OC	2.0	0.8	10		5.0		68m†		0	7	4	74-03N	DIP14a
9♦	DM5400J	TTL	NAND	2		2.0	0.8	10		5.0		40m†	400m	5	C	4	74-00N	DIP14a
10♦	DM5403J	TTL	NAND	2	OC	2.0	0.8	10		5.0		120m	400m	5	C	4	74-03N	DIP14a
11♦	DM5437J	TTL	NAND	2		2.0	0.8	30		5.0		1.0n	1.0 †	5	C	4	74-00N	DIP14a
12♦	DM5438J	TTL	NAND	2	OC	2.0	0.8	30		5.0		1.0n	1.0 †	5	C	4	74-03N	DIP14a
13♦	DM7400N	TTL	NAND	2		2.0	0.8	10		5.0		40m†	400m	0	7	4	74-00N	DIP14a
14♦	DM7403N	TTL	NAND	2	OC	2.0	0.8	10		5.0		120m	400m	0	7	4	74-03N	DIP14a
15♦	DM7437N	TTL	NAND	2		2.0	0.8	30		5.0		1.0n	1.0 †	0	7	4	74-00N	DIP14a
16♦	DM7438N	TTL	NAND	2	OC	2.0	0.8	30		5.0		1.0n	1.0 †	0	7	4	74-03N	DIP14a
17♦	DM8810N	TTL	NAND	2	OC	2.0	0.8			5.0		12n		0	7	4	74-03N	DIP14a
18♦	DM8811N	TTL	NAND	2	OC	2.0	0.8			5.0		12n		0	7	4	74-03N	DIP14a
19♦	DM9002CJ	TTL	NAND	2	OC	1.6	0.85			5.0		122m		0	7	4	74-03N	DIP14a
20♦	DM9002CN	TTL	NAND	2	OC	1.6	0.85			5.0		122m		0	7	4	74-03N	DIP14a
21♦	DM9012CJ	TTL	NAND	2	OC	1.6	0.85			5.0		122m		0	7	4	74-03N	DIP14a
22♦	DM9012CN	TTL	NAND	2	OC	1.6	0.85			5.0		122m		0	7	4	74-03N	DIP14a
23♦	DN74LS00P1	TTL	NAND	2		2.0	0.8	20		5.0		400m		2	7	4	74-00	DIP14a
24♦	DN74LS00P4	TTL	NAND	2		2.0	0.8	20		5.0		400m		2	7	4	74-00	FP177
25♦	DN74LS03P1	TTL	NAND	2	OC	2.0	0.8	20		5.0		400m		2	7	4	74-03	DIP14a
26♦	DN74LS03P4	TTL	NAND	2	OC	2.0	0.8	20		5.0		400m		2	7	4	74-03	FP177
27♦	E302F2	DTL	NAND	2		1.7	0.9	10		5.0		4.0m†	450m	5	C	4	74-00N	DIP14a
28♦	E302F7	DTL	NAND	2		1.7	0.9	10		5.0		4.0m†	450m	2	A	4	74-00N	DIP14a
29♦	FJH131-7400	TTL	NAND	2		2.0	0.8	10		5.0		40m†	1.0	0	7	4	74-00N	DIP14a
30♦	FJH291-7403	TTL	NAND	2	OC	2.0	0.8	10		5.0		30m†	1.0	0	7	4	74-03N	DIP14a
31♦	FJH301-7426	TTL	NAND	2	OC	2.0	0.8	10		5.0		10m†	1.0	0	7	4	74-03N	DIP14a
32♦	H122D1	DTL	NAND	2		8.0	6.0	25		15		600m	5.0	0	7	4	74-00N	DIP14b
33♦	H122D2	DTL	NAND	2		8.0	6.0	25		16		384m	5.0	5	C	4	74-00N	DIP14b
34♦	H122D6	DTL	NAND	2		8.0	6.0	25		16		384m	5.0	4	8	4	74-00N	DIP14
35♦	H222B1	DTL	NAND	2		8.0	6.0	25		16		500m	5.0	0	7	4	74-00N	TO-116
36♦	M54HC00F1(A)	CMS	NAND	2		3.15	1.35	10		5.0		500m	1.2	5	C	4	74-00	DIP14a
37♦	M54HC03F1(A)	CMS	NAND	2	OD	3.15	1.35	10		5.0		500m	1.2	5	C	4	74-03	DIP14a
38♦	M74ALS00AP	TTL	NAND	2		2.0	0.8			5.0		17m	0.4	2	7	4	74-00N	DIP14a
39♦	M74ALS03AP	TTL	NAND	2	OC	2.0	0.8			5.0		17m	0.4	2	7	4	74-03N	DIP14a
40♦	M74HC00B1(A)	CMS	NAND	2		3.15	1.35	10		5.0		500m	1.2	4	8	4	74-00	DIP14a
41♦	M74HC00F1(A)	CMS	NAND	2		3.15	1.35	10		5.0		500m	1.2	4	8	4	74-00	DIP14a
42♦	M74HC00P	CMS	NAND	2		4.2	1.8			5.0		15n		4	8	4	74-00	DIP14a
43♦	M74HC03B1(A)	CMS	NAND	2	OD	3.15	1.35	10		5.0		500m	1.2	4	8	4	74-03	DIP14a
44♦	M74HC03F1(A)	CMS	NAND	2	OD	3.15	1.35	10		5.0		500m	1.2	4	8	4	74-03	DIP14a
45♦	M74LS00P	TTL	NAND	2		2.0	0.8	20		5.0		8.0m†	0.4	2	7	4	74-00N	DIP14a
46♦	M74LS03P	TTL	NAND	2	OC	2.0	0.8	20		5.0		8.0m†	0.4	2	7	4	74-03N	DIP14a
47♦	M53200P	TTL	NAND	2		2.0	0.8	10		5.0		10m†	1.0	0	7	4	74-00N	DIP14a
48♦	M53203P	TTL	NAND	2	OC	2.0	0.8	10		5.0		10m†	1.0	0	7	4	74-03N	DIP14a
49♦	MB74LS00	TTL	NAND	2		2.0	0.8	20		5.0		22m	1.0 *	2	7	4	74-00N	DIP14a
50♦	MB74LS00M	TTL	NAND	2		2.0	0.8	20		5.0		22m	1.0 *	2	7	4	74-00N	DIP14a
51♦	MB74LS03	TTL	NAND	2	OC	2.0	0.8	20		5.0		22m	1.0 *	2	7	4	74-03N	DIP14a
52♦	MB74LS03M	TTL	NAND	2	OC	2.0	0.8	20		5.0		22m	1.0 *	2	7	4	74-03N	DIP14a
53♦	MB400	TTL	NAND	2		2.0	0.8	10		5.0		40m†		0	7	4	74-00N	DIP14b
54♦	MB400M	TTL	NAND	2		2.0	0.8	10		5.0		40m†		0	7	4	74-00N	DIP14b
55♦	MB401	TTL	NAND	2		2.0	0.8	10		5.0		30m†		0	7	4	74-00N	DIP14b
56♦	MB401M	TTL	NAND	2		2.0	0.8	10		5.0		30m†		0	7	4	74-00N	DIP14b
57♦	MB416	TTL	NAND	2	OC	2.0	0.8	10		5.0		40m†		0	7	4	74-03N	DIP14b
58♦	MB416M	TTL	NAND	2	OC	2.0	0.8	10		5.0		40m†		0	7	4	74-03N	DIP14b
59♦	MB431	TTL	NAND	2	OC	2.0	0.8			5.0		100m†		0	7	4	74-03N	DIP14b
60♦	MB431M	TTL	NAND	2	OC	2.0	0.8			5.0		100m†		0	7	4	74-03N	DIP14b
61♦	MB433	TTL	NAND	2	OC	2.0	0.8	30		5.0		96m†		0	7	4	74-03N	DIP14b
62♦	MB433M	TTL	NAND	2	OC	2.0	0.8	30		5.0		96m†		0	7	4	74-03N	DIP14b
63♦	MB435	TTL	NAND	2		2.0	0.8	30		5.0		104m†		0	7	4	74-00N	DIP14b
64♦	MB435M	TTL	NAND	2		2.0	0.8	30		5.0		104m†		0	7	4	74-00N	DIP14b
65♦	MB601	TTL	NAND	2		2.0	0.8	10		5.0		84m†		0	7	4	74-00N	DIP14b
66♦	MC54F00J	TTL	NAND	2		2.0	0.8	12a		5.0		5.0n	0.3	5	C	4	74-00N	DIP14a
67▼	MC54F00N	TTL	NAND	2		2.0	0.8	12a		5.0		5.0n	0.3	5	C	4	74-00N	DIP14a
68♦	MC54HC00J	CMS	NAND	2		3.15	0.9	10		5.0		500m	1.3	5	C	4	74-00N	DIP14a
69♦	MC54HC03J(A)	CMS	NAND	2	OD	3.15	0.9	10		5.0		500m	0.8	5	C	4	74-03N	DIP14a
70♦	MC54HCT00J(A)	CMS	NAND	2		2.0	0.8	10		5.0		500m	1.3	5	C	4	74-00	DIP14a
71♦	MC74F00J	TTL	NAND	2		2.0	0.8	12a		5.0		5.0n	0.3	0	7	4	74-00N	DIP14a
72♦	MC74F00N	TTL	NAND	2		2.0	0.8	12a		5.0		5.0n	0.3	0	7	4	74-00N	DIP14a
73♦	MC74HC00J(A)	CMS	NAND	2		3.15	0.9	10		5.0		500m	1.3	4	8	4	74-00N	DIP14a
74♦	MC74HC00N(A)	CMS	NAND	2		3.15	0.9	10		5.0		500m	1.3	4	8	4	74-00N	DIP14a
75♦	MC74HC03J(A)	CMS	NAND	2	OD	3.15	0.9	10		5.0		500m	0.8	4	8	4	74-03N	DIP14a
76♦	MC74HC03N(A)	CMS	NAND	2	OD	3.15	0.9	10		5.0		500m	0.8	4	8	4	74-03N	DIP14a
77♦	MC74HCT00J	CMS	NAND	2		2.0	0.8	10		5.0		500m	1.3	4	8	4	74-00	DIP14a
78▼	MC846L	DTL	NAND	2		2.6	.45	8		5.0		44m†		0	7	4	74-00N	TO-116
79▼	MC846P	DTL	NAND	2		2.6	.45	8		5.0		44m†		0	7	4	74-00N	DIP14a
80▼	MC849L	DTL	NAND	2		2.6	.45	7		5.0		66m†		0	7	4	74-00N	TO-116
81▼	MC849P	DTL	NAND	2		2.6	.45	7		5.0		66m†		0	7	4	74-00N	DIP14a
82♦	MC946L	DTL	NAND	2		2.6	0.4	8		5.0		44m†		5	C	4	74-00N	TO-116
83♦	MC949L	DTL	NAND	2		2.6	0.4	7		5.0		66m†		5	C	4	74-00N	TO-116
84♦	MC1818L,P	DTL	NAND	2	OC		.45C	8		5.0		40m		0	7	4	74-03N	TO-116
85♦	MC1918L	DTL	NAND	2	OC		0.4C	8		5.0		40m		5	C	4	74-03N	TO-116
86♦	MM54C00D	CMS	NAND	2		3.5	1.5	2		15		500m	450m	5	C	4	74-00N	DIP14a
87♦	MM54HC00J(A)	CMS	NAND	2		3.15	0.9	8		5.0		500m		5	C	4	74-00N	DIP14a
88♦	MM54HCT00J(A)	CMS	NAND	2		2.0	0.8			5.0		500m	2.9	5	C	4	74-00N	DIP14a
89♦	MM74C00N	CMS	NAND	2		3.5	1.5	2		15		500m	450m	0	7	4	74-00N	DIP14a
90♦	MM74HC00J(A)	CMS	NAND	2		3.15	0.9	10		5.0		500m		4	8	4	74-00N	DIP14a
91♦	MM74HC00N	CMS	NAND	2		3.15	0.9	10		5.0		500m		4	8	4	74-00N	DIP14a
92♦	MM74HCT00J(A)	CMS	NAND	2		2.0	0.8			5.0		500m	2.9	4	8	4	74-00N	DIP14a
93♦	MM74HCT00N(A)	CMS	NAND	2		2.0	0.8			5.0		500m	2.9	4	8	4	74-00N	DIP14a
94♦	N8H80A	TTL	NAND	2		2.6	0.4C	30		5		46m	600m	0	7	4	74-00N	TO-116
95♦	N74F00F	TTL	NAND	2		2.0	0.8		-0.5	5.0		5.0n		0	7	4	74-00N	DIP14a
96♦	N74H00A	TTL	NAND	2		2.0	0.8	10		5.0		6.2n		0	7	4	74-00N	DIP14a
97♦	N74H00F	TTL	NAND	2		2.0	0.8	10		5.0		200m		0	7	4	74-00N	DIP14b
98♦	N74H00N	TTL	NAND	2		2.0	0.8	10		5.0		200m		0	7	4	74-00N	DIP14a
99♦	N74H01F	TTL	NAND	2	OC	2.0	0.8	10		5.0		200m		0	7	4	74-03N	DIP14b
100♦	N74H01N	TTL	NAND	2	OC	2.0	0.8	10		5.0		200m		0	7	4	74-03N	DIP14a
101♦	N74LS00D	TTL	NAND	2		2.0	0.7	20		5.0		22m	0.4	0	7	4	74-00N	FP147
102♦	N74LS00N	TTL	NAND	2		2.0	0.7	20		5.0		22m	0.4	0	7	4	74-00N	DIP14a
103♦	N74LS03F	TTL	NAND	2	OC	2.0	0.8	20		5.0		22m		0	7	4	74-03N	DIP14b
104♦	N74LS03N	TTL	NAND	2	OC	2.0	0.8	20		5.0		22m		0	7	4	74-03N	DIP14a
105♦	N74LS26D	TTL	NAND	2	OC	2.0	0.7	20		5.0		22m	0.3	0	7	4	74-03N	FP147
106♦	N74LS26N	TTL	NAND	2	OC	2.0	0.7	20		5.0		22m	0.3	0	7	4	74-03N	DIP14a
107♦	N74S00D	TTL	NAND	2		2.0	0.8	10		5.0		180m	0.4	0	7	4	74-00N	FP147
108♦	N74S00N	TTL	NAND	2		2.0	0.8	10		5.0		180m	0.4	0	7	4	74-00N	DIP14a
109♦	N74S03D	TTL	NAND	2	OC	2.0	0.8	10		5.0		180m	0.3	0	7	4	74-03	FP147
110♦	N74S03F	TTL	NAND	2	OC	2.0	0.8	10		5.0		180m	1.0 †	0	7	4	74-03N	DIP14b

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	N74S03N	TTL	NAND	2	OC	2.0	0.8	10		5.0		180m	0.3	0	7	4	74-03N	DIP14a
2♦	N7400F	TTL	NAND	2		2.0	0.8	10		5.0		60m	1.0 †	0	7	4	74-00N	DIP14b
3♦	N7400N	TTL	NAND	2		2.0	0.8	10		5.0		60m	0.4	0	7	4	74-00N	DIP14a
4♦	N7403F	TTL	NAND	2	OC	2.0	0.8	10		5.0		110m	1.0 †	0	7	4	74-03N	DIP14b
5♦	N7403N	TTL	NAND	2	OC	2.0	0.8	10		5.0		110m	0.4	0	7	4	74-03N	DIP14a
6♦	N7426F	TTL	NAND	2	OC	2.0	0.8	10		5.0		110m	1.0 †	0	7	4	74-03N	DIP14b
7♦	N7426N	TTL	NAND	2	OC	2.0	0.8	10a		5.0		110m	0.4	0	7	4	74-03N	DIP14a
8♦	N8480A	TTL	NAND	2		3.4	.35C	9		5		17m	1.4	0	7	4	74-00N	TO-116
9♦	N8480F	TTL	NAND	2		3.4	.35C	9		5.0		17m	1.4	0	7	4	74-00N	DIP14a
10♦	N8481A	TTL	NAND	2	OC		.35C	9		5		17m	1.4	0	7	4	74-03N	TO-116
11♦	N8481F	TTL	NAND	2	OC		.35C	9		5.0		17m	1.4	0	7	4	74-03N	DIP14a
12♦	PC54HC00D(A)	CMS	NAND	2		3.15	0.9	10		5.0		500m	0.8	5	C	4	74-00	DIP14b
13♦	PC54HC03D(A)	CMS	NAND	2	OD	3.15	0.9	10		5.0		500m	0.8	5	C	4	74-03	DIP14b
14♦	PC54HCT00D(A)	CMS	NAND	2		2.0	0.8	10		5.0		500m	0.7	5	C	4	74-00	DIP14b
15♦	PC54HCT03D(A)	CMS	NAND	2	OD	2.0	0.8	10		5.0		500m	0.7	5	C	4	74-03	DIP14b
16♦	PC74HC00D(A)	CMS	NAND	2		3.15	0.9	10		5.0		500m	0.8	4	8	4	74-00	DIP14b
17♦	PC74HC03D(A)	CMS	NAND	2	OD	3.15	0.9	10		5.0		500m	0.8	4	8	4	74-03	DIP14b
18♦	PC74HCT00D(A)	CMS	NAND	2		2.0	0.8	10		5.0		500m	0.7	4	8	4	74-00	DIP14b
19♦	PC74HCT03D(A)	CMS	NAND	2	OD	2.0	0.8	10		5.0		500m	0.7	4	8	4	74-03	DIP14b
20♦	S8H80A	TTL	NAND	2		2.6	0.4C	30		5		46m	600m	5	C	4	74-00N	TO-116
21♦	S54H00F	TTL	NAND	2		2.0	0.8	10		5.0		200m		5	C	4	74-00N	DIP14b
22♦	S54H01F	TTL	NAND	2	OC	2.0	0.8	10		5.0		200m		5	C	4	74-03N	DIP14b
23♦	S54LS00F	TTL	NAND	2		2.0	0.7			5.0		22m	0.4	5	C	4	74-00N	DIP14b
24♦	S54LS03F	TTL	NAND	2	OC	2.0	0.7			5.0		22m		5	C	4	74-03N	DIP14b
25♦	S54LS26F	TTL	NAND	2	OC	2.0	0.7			5.0		22m		5	C	4	74-03N	DIP14b
26♦	S54S00F	TTL	NAND	2		2.0	0.8	10		5.0		180m	0.4	5	C	4	74-00N	DIP14b
27♦	S54S03F	TTL	NAND	2	OC	2.0	0.8	20		5.0		180m†	1.0 †	5	C	4	74-03N	DIP14b
28♦	S5400F	TTL	NAND	2		2.0	0.8	10		5.0		110m	0.4	5	C	4	74-00N	DIP14b
29♦	S5403F	TTL	NAND	2	OC	2.0	0.8	10		5.0		110m	0.4	5	C	4	74-03N	DIP14b
30♦	S5426F	TTL	NAND	2	OC	2.0	0.8	10		5.0		110m	0.4	5	C	4	74-03N	DIP14b
31♦	S8480A	TTL	NAND	2		3.4	.35C	9		5		17m	1.4	5	C	4	74-00N	TO-116
32♦	S8480F	TTL	NAND	2		3.4	.35C	9		5.0		17m	1.4	5	C	4	74-00N	DIP14a
33♦	S8481A	TTL	NAND	2	OC		.35C	9		5		17m	1.4	5	C	4	74-03N	TO-116
34♦	S8481F	TTL	NAND	2	OC		.35C	9		5.0		17m	1.4	5	C	4	74-03N	DIP14a
35♦	SFC400E	TTL	NAND	2		2.0	0.8	10		5.0		110m	400m*	0	7	4	74-00N	TO-116
36♦	SFC400EM	TTL	NAND	2		2.0	0.8	10		5.0		110m	400m	5	C	4	74-00N	TO-116
37♦	SFC400ET	TTL	NAND	2		2.0	0.8	10		5.0		110m	400m	2	8	4	74-00N	TO-116
38♦	SFC400HE	TTL	NAND	2		2.0	0.8	10		5.0		200m	400m	0	7	4	74-00N	TO-116
39♦	SFC400HEM	TTL	NAND	2		2.0	0.8	10		5.0		40m†	400m	5	C	4	74-00N	TO-116
40♦	SFC400HJM	TTL	NAND	2		2.0	0.8	10		5.0		200m	400m	5	C	4	74-00N	TO-116
41♦	SFC400HKM	TTL	NAND	2		2.0	0.8	10		5.0		200m	400m	5	C	4	74-00N	TO-116
42♦	SFC400JM	TTL	NAND	2		2.0	0.8	10		5.0		110m	400m	5	C	4	74-00N	TO-116
43♦	SFC400KM	TTL	NAND	2		2.0	0.8	10		5.0		110m	400m	5	C	4	74-00N	TO-116
44♦	SFC400LE	TTL	NAND	2		2.0	0.7	10		5.0		10m	400m	0	7	4	74-00N	TO-116
45♦	SFC400LEM	TTL	NAND	2		2.0	0.7	10		5.0		10m	400m	5	C	4	74-00N	TO-116
46♦	SFC400LJM	TTL	NAND	2		2.0	0.7	10		5.0		10m	400m	5	C	4	74-00N	TO-116
47♦	SFC400LKM	TTL	NAND	2		2.0	0.7	10		5.0		10m	400m	5	C	4	74-00N	TO-116
48♦	SFC400LSE	TTL	NAND	2		2.0	0.8	20		5.0		22m	300m*	0	7	4	74-00N	TO-116
49♦	SFC400LSEM	TTL	NAND	2		2.0	0.8	10		5.0		22m	400m*	5	C	4	74-00N	TO-116
50♦	SFC400SE	TTL	NAND	2		2.0	0.8	10		5.0		180m	300m*	0	7	4	74-00N	TO-116
51♦	SFC400SJM	TTL	NAND	2		2.0	0.8	10		5.0		180m	300m*	5	C	4	74-00N	TO-116
52♦	SFC400SKM	TTL	NAND	2		2.0	0.8	10		5.0		180m	300m*	5	C	4	74-00N	TO-116
53♦	SFC401AE	TTL	NAND	2	OC	2.0	0.8	10		5.0		10m	400m*	0	7	4	74-03N	TO-116
54♦	SFC401HE	TTL	NAND	2	OC	2.0	0.8	10		5.0		200m	400m	0	7	4	74-03N	TO-116
55♦	SFC401HEM	TTL	NAND	2	OC	2.0	0.8	10		5.0		200m	400m	0	7	4	74-03N	TO-116
56♦	SFC401HJM	TTL	NAND	2	OC	2.0	0.8	10		5.0		200m	400m	5	C	4	74-03N	TO-116
57♦	SFC401HKM	TTL	NAND	2	OC	2.0	0.8	10		5.0		200m	400m	5	C	4	74-03N	TO-116
58♦	SFC403E	TTL	NAND	2	OC	2.0	0.8	10		5.0		40m†	1.0	0	7	4	74-03N	TO-116
59♦	SFC403EM	TTL	NAND	2	OC	2.0	0.8	10		5.0		40m†	1.0	5	C	4	74-03N	TO-116
60♦	SFC403ET	TTL	NAND	2	OC	2.0	0.8	10		5.0		40m†	1.0	2	8	4	74-03N	TO-116
61♦	SFC403EV	TTL	NAND	2	OC	2.0	0.8	10		5.0		40m†	1.0	4	8	4	74-03N	TO-116
62♦	SFC403LE	TTL	NAND	2	OC	2.0	0.6	10		5.0		1.0m†	1.0	0	7	4	74-03N	TO-116
63♦	SFC403LEM	TTL	NAND	2	OC	2.0	0.6	10		5.0		1.0m†	1.0	5	C	4	74-03N	TO-116
64♦	SFC946E	DTL	NAND	2		2.6	.45C	8		5.0		80m		0	7	4	74-00N	DIP14a
65♦	SN54LS00J	TTL	NAND	2		2.0	0.7			5.0		15n	0.3	5	C	4	74-00	DIP14a
66♦	SN54LS03J	TTL	NAND	2	OC	2.0	0.7			5.0		32n	0.3	5	C	4	74-03	DIP14a
67▼	SN54LS03N	TTL	NAND	2	OC	2.0	0.7			5.0		32n	0.3	5	C	4	74-03	DIP14a
68♦	SN54LS132J	TTL	NAND	2		2.0	0.7			5.0		32n	300m	5	C	4	74-00N	DIP14a
69♦	SN54S00J	TTL	NAND	2		2.0	0.8	20		5.0		180m	0.3	5	C	4	74-00N	DIP14a
70♦	SN54S03J	TTL	NAND	2	OC	2.0	0.8	10		5.0		180m	0.3	5	C	4	74-03N	DIP14a
71♦	SN74H00N	TTL	NAND	2		2.0	0.8	10		5.0		200m	0.4	0	7	4	74-00N	DIP14a
72♦	SN74LS00D	TTL	NAND	2		2.0	0.8			5.0		15n	0.4	0	7	4	74-00	FP147
73♦	SN74LS00J	TTL	NAND	2		2.0	0.8			5.0		15n	0.4	0	7	4	74-00N	DIP14a
74♦	SN74LS00N	TTL	NAND	2		2.0	0.8			5.0		15n	0.4	0	7	4	74-00N	DIP14a
75♦	SN74LS03D	TTL	NAND	2	OC	2.0	0.8			5.0		32n	0.4	0	7	4	74-03	FP147
76♦	SN74LS03J	TTL	NAND	2	OC	2.0	0.8			5.0		32n	0.4	0	7	4	74-03	DIP14a
77♦	SN74LS03N	TTL	NAND	2	OC	2.0	0.8			5.0		32n	0.4	0	7	4	74-03	DIP14a
78♦	SN74LS132J	TTL	NAND	2		2.0	0.8			5.0		32n	300m	0	7	4	74-00N	DIP14a
79♦	SN74LS132N	TTL	NAND	2		2.0	0.8			5.0		32n	300m	0	7	4	74-00N	DIP14a
80♦	SN74S00D	TTL	NAND	2		2.0	0.8			5.0		5.0n	0.3	0	7	4	74-00	FP147
81♦	SN74S00N	TTL	NAND	2		2.0	0.8	20		5.0		180m	0.3	0	7	4	74-00N	DIP14a
82♦	SN74S03D	TTL	NAND	2	OC	2.0	0.8			5.0		7.5n	0.3	0	7	4	74-03	FP147
83♦	SN74S03N	TTL	NAND	2	OC	2.0	0.8	10		5.0		180m	0.3	0	7	4	74-03N	DIP14a
84♦	SN5403J	TTL	NAND	2	OC	2.0	0.8	10				40m†	0.4	5	C	4	74-03N	DIP14a
85♦	SN7400N	TTL	NAND	2		2.0	0.8	10		5.0		10m	0.4	0	7	4	74-00N	DIP14a
86♦	SN7403N	TTL	NAND	2	OC	2.0	0.8	10				40m†	0.4	0	7	4	74-03N	DIP14a
87▼	SN7438N	TTL	NAND	2	OC	2.0	0.8			5.0		297m		0	7	4	74-03N	DIP14a
88♦	T54LS00D2	TTL	NAND	2		2.0	0.7	11d		5.0		22mQ	300m	5	C	4	74-00N	DIP14b
89♦	T54LS03D2	TTL	NAND	2	OC	2.0	0.7	11d		5.0		22mQ	300m	5	C	4	74-03N	DIP14b
90♦	T54LS26D2	TTL	NAND	2	OC	2.0	0.7	11d		5.0		22mQ	300m	5	C	4	74-03N	DIP14b
91♦	T74LS00B1	TTL	NAND	2		2.0	0.8	22d		5.0		22mQ	300m	0	7	4	74-00N	DIP14a
92♦	T74LS00D1	TTL	NAND	2		2.0	0.8	22d		5.0		22mQ	300m	0	7	4	74-00N	DIP14b
93♦	T74LS03B1	TTL	NAND	2	OC	2.0	0.8	22d		5.0		22mQ	300m	0	7	4	74-03N	DIP14a
94♦	T74LS03D1	TTL	NAND	2	OC	2.0	0.8	22d		5.0		22mQ	300m	0	7	4	74-03N	DIP14b
95♦	T74LS26B1	TTL	NAND	2	OC	2.0	0.8	22d		5.0		22mQ	300m	0	7	4	74-03N	DIP14a
96♦	T74LS26D1	TTL	NAND	2	OC	2.0	0.8	22d		5.0		22mQ	300m	0	7	4	74-03N	DIP14a
97♦	TC40H000P	CMS	NAND	2		4.0	1.0	50		10		300m	.95	4	8	4	74-00N	MO001AA
98♦	TC74HC00P(A)	CMS	NAND	2		3.15	1.35			5.0		500m	1.4	4	8	4	74-00N	MO001AA
99♦	TC7400BP	CMS	NAND	2		14.9	.05C	50		15		300m	4.0	4	8	4	74-00N	DIP14a
100♦	US74HCT00N(A)	CMS	NAND	2		2.0	0.8	10		5.0		500m	750m	4	8	4	74-00N	DIP14 ☑
101♦	ZN5400E	TTL	NAND	2		3.5	0.2	10		5.0		10m	1.0	5	C	4	74-00N	DIP14a
102♦	54S00FM	TTL	NAND	2		2.0	0.8	10		5.0	3.0n	180m	1.0	5	C	4	54S00W	FP21h
103▼	SN74AS00D	TTL	NAND	2		2.0	0.8			5.0	4.5n		0.3	0	7	4	74-00N	FP147
104♦	SN74AS00N	TTL	NAND	2		2.0	0.8			5.0	4.5n		0.3	0	7	4	74-00N	DIP14a
105♦	54LS00FM	TTL	NAND	2		2.0	0.7			5.0	5.0n	22mQ	300m	5	C	4	54S00W	TO-86
106	S54F00W	TTL	NAND	2		2.0	0.8		-0.5	5.0	5.0n			5	C	4	54-00W	FP153
107♦	S54S00W	TTL	NAND	2		2.0	0.8	10		5.0	5.0n	180m	0.4	5	C	4	54S00W	FP153
108♦	SN54AS00J	TTL	NAND	2		2.0	0.8			5.0	5.0n		0.3	5	C	4	74-00N	DIP14a
109♦	74F00L1C	TTL	NAND	2		2.0	0.8			5.0	6.0n			0	7	4	G04-547	LC19
110♦	74F00QC	TTL	NAND	2		2.0	0.8			5.0	6.0n			0	7	4	G04-547	LC26

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	74F00SC	TTL	NAND	2		2.0	0.8			5.0	6.0n			0	7	4	54S00	FP147
2▼	CD74AC00E(A)	CMS	NAND	2		3.85	1.65			5.0	6.0n	500m	1.1	4	8	4	74-00N	MS001c
3▼	CD74AC00M(A)	CMS	NAND	2		3.85	1.65			5.0	6.0n	400m	1.1	4	8	4	74-00N	MS012b
4♦	N8H80J	TTL	NAND	2		2.6	0.4C	30		5	6.0n	46m	600m	0	7	4	54S00W	TO-88
5♦	N74F00D	TTL	NAND	2		2.0	0.8			5.0	6.0n			0	7	4	74-00	FP147
6♦	N74F00N	TTL	NAND	2		2.0	0.8			5.0	6.0n			0	7	4	74-00	DIP14a
7♦	RG220CJ	TTL	NAND	2		3.5	0.2	11		5.0	6.0n	88m†	1.0	5	C	4	4-08	FP52j
8♦	RG220CK	TTL	NAND	2		3.5	0.2	11		5.0	6.0n	88m†	1.0	5	C	4	4-08	FP52k
9♦	RG220DC	TTL	NAND	2		3.5	0.2	11		5.0	6.0n	88m†	1.0	5	C	4	4-08	DIP14e
10♦	RG221CJ	TTL	NAND	2		3.5	0.2	6		5.0	6.0n	88m†	1.0	5	C	4	4-08	FP52j
11♦	RG221CK	TTL	NAND	2		3.5	0.2	6		5.0	6.0n	88m†	1.0	5	C	4	4-08	FP52k
12♦	RG221DC	TTL	NAND	2		3.5	0.2	6		5.0	6.0n	88m†	1.0	5	C	4	4-08	DIP14e
13♦	RG222CJ	TTL	NAND	2		3.5	0.2	9		5.0	6.0n	88m†	1.0	0	7	4	4-08	FP52j
14♦	RG222CK	TTL	NAND	2		3.5	0.2	9		5.0	6.0n	88m†	1.0	0	7	4	4-08	FP52k
15♦	RG222DC	TTL	NAND	2		3.5	0.2	9		5.0	6.0n	88m†	1.0	0	7	4	4-08	DIP14e
16♦	RG223CJ	TTL	NAND	2		3.5	0.2	5		5.0	6.0n	88m†	1.0	0	7	4	4-08	FP52j
17♦	RG223CK	TTL	NAND	2		3.5	0.2	5		5.0	6.0n	88m†	1.0	0	7	4	4-08	FP52k
18♦	RG223DC	TTL	NAND	2		3.5	0.2	5		5.0	6.0n	88m†	1.0	0	7	4	4-08	DIP14e
19♦	S8H80J	TTL	NAND	2		2.6	0.4C	30		5	6.0n	46m	600m	5	C	4	54S00W	TO-88
20♦	S54H00W	TTL	NAND	2		2.0	0.8	10		5.0	6.2n	200m		5	C	4	54-00W	FP39e
21♦	54F00FM	TTL	NAND	2		2.0	0.8	12		5.0	7.0n	51m		5	C	4	54S00W	FP115
22♦	54F00L1M	TTL	NAND	2		2.0	0.8			5.0	7.0n			5	C	4	G04-547	LC19
23▼	CD54AC00F(A)	CMS	NAND	2		3.85	1.65			5.0	7.0n	500m	1.1	5	C	4	54-00W	MO001AB
24♦	S54S03W	TTL	NAND	2	OC	2.0	0.8	20		5.0	7.0n	180m†	1.0 †	5	C	4	54S03W	FP39e
25♦	DM54S00J	TTL	NAND	2		2.0	0.8	20		5.0	8.0n		0.3	5	C	4	54-00	DIP14a
26♦	54AC00DM(A)	CMS	NAND	2		2.0	0.8	60			8.5n		1.2	5	C	4	74-00	DIP14a
27♦	54AC00SM(A)	CMS	NAND	2		2.0	0.8	60			8.5n		1.2	5	C	4	74-00	FP147
28♦	54ACT00DM(A)	CMS	NAND	2		2.0	0.8	60			8.5n		1.2	5	C	4	74-00	DIP14a
29♦	54ACT00SM(A)	CMS	NAND	2		2.0	0.8	60			8.5n		1.2	5	C	4	74-00	FP147
30♦	74AC00DC(A)	CMS	NAND	2		2.0	0.8	60			8.5n		1.2	4	8	4	74-00	DIP14a
31♦	74AC00PC(A)	CMS	NAND	2		2.0	0.8	60			8.5n		1.2	4	8	4	74-00	DIP14a
32♦	74AC00SC(A)	CMS	NAND	2		2.0	0.8	60			8.5n		1.2	4	8	4	74-00	FP147
33♦	74ACT00DC(A)	CMS	NAND	2		2.0	0.8	60			8.5n		1.2	4	8	4	74-00	DIP14a
34♦	74ACT00PC(A)	CMS	NAND	2		2.0	0.8	60			8.5n		1.2	4	8	4	74-00	DIP14a
35♦	74ACT00SC(A)	CMS	NAND	2		2.0	0.8	60			8.5n		1.2	4	8	4	74-00	FP147
36▼	HD74HC00FP	CMS	NAND	2		3.15	1.35			5.0	8.5n	500m	1.2	4	8	4	74-00N	FP161
37▼	HD74HC00P	CMS	NAND	2		3.15	1.35			5.0	8.5n	500m	1.2	4	8	4	74-00N	DIP14a
38▼	HD74HC01FP	CMS	NAND	2		3.15	1.35			5.0	9.0n	500m	1.2	4	8	4	74-01N	FP161
39▼	HD74HC01P	CMS	NAND	2		1.35	1.35			5.0	9.0n	500m	1.2	4	8	4	74-01N	DIP14a
40♦	54H00FM	TTL	NAND	2		2.0	0.8	10		5.0	10n	200m	1.0	5	C	4	54-00W	FP21h
41♦	9002FM	TTL	NAND	2		1.7	0.9	11		5.0	10n	44m†		5	C	4	54S00W	FP28b
42▼	HD74LS00G	TTL	NAND	2		2.0	0.8			5.0	10n	400m	300m	2	7	4	74-00N	DIP14a
43♦	HD74LS00P	TTL	NAND	2		2.0	0.8			5.0	10n	400m	300m	2	7	4	74-00N	DIP14a
44♦	RG140CJ	TTL	NAND	2		3.4	0.2	15		5.0	10n	60m†	1.1	5	C	4	G04-212f	FP52j
45♦	RG140CK	TTL	NAND	2		3.4	0.2	15		5.0	10n	60m†	1.1	5	C	4	G04-212f	FP52k
46♦	RG140DC	TTL	NAND	2		3.4	0.2	15		5.0	10n	60m†	1.1	5	C	4	G04-212f	DIP14e
47♦	RG141CJ	TTL	NAND	2		3.4	0.2	7		5.0	10n	60m†	1.1	5	C	4	G04-212f	FP52j
48♦	RG141CK	TTL	NAND	2		3.4	0.2	7		5.0	10n	60m†	1.1	5	C	4	G04-212f	FP52k
49♦	RG141DC	TTL	NAND	2		3.4	0.2	7		5.0	10n	60m†	1.1	5	C	4	G04-212f	DIP14e
50♦	RG142CJ	TTL	NAND	2		3.4	0.2	12		5.0	10n	60m†	1.1	0	7	4	G04-212f	FP52j
51♦	RG142CK	TTL	NAND	2		3.4	0.2	12		5.0	10n	60m†	1.1	0	7	4	G04-212f	FP52k
52♦	RG142DC	TTL	NAND	2		3.4	0.2	12		5.0	10n	60m†	1.1	0	7	4	G04-212f	DIP14e
53♦	RG143CJ	TTL	NAND	2		3.4	0.2	6		5.0	10n	60m†	1.1	0	7	4	G04-212f	FP52j
54♦	RG143CK	TTL	NAND	2		3.4	0.2	6		5.0	10n	60m†	1.1	0	7	4	G04-212f	FP52k
55♦	RG143DC	TTL	NAND	2		3.4	0.2	6		5.0	10n	60m†	1.1	0	7	4	G04-212f	DIP14e
56♦	S54H01W	TTL	NAND	2	OC	2.0	0.8	10		5.0	10n	200m		5	C	4	54-01W	FP39e
57♦	SFC400HPM	TTL	NAND	2		2.0	0.8	10		5.0	10n	200m	400m	5	C	4	54-00W	TO-85
58♦	DM54ALS132J(A)	TTL	NAND	2		1.4	1.2	10		5.0	11n		0.8	5	C	4	74LS132	DIP14a
59♦	DM54S03J	TTL	NAND	2	OC	2.0	0.8	10		5.0	11n		0.3	5	C	4	54S03	DIP14a
60♦	DM74ALS132J	TTL	NAND	2		2.0	0.8	10		5.0	11n		0.7	0	7	4	74LS132	DIP14a
61♦	DM74ALS132N(A)	TTL	NAND	2		2.0	0.8	10		5.0	11n		0.7	0	7	4	74LS132	DIP14a
62▼	SN74ALS00AD	TTL	NAND	2		2.0	0.8			5.0	11n		0.4	0	7	4	74-00N	FP147
63♦	SN74ALS00AN	TTL	NAND	2		2.0	0.8			5.0	11n		0.4	0	7	4	74-00N	DIP14a
64♦	M53201P	TTL	NAND	2		2.0	0.8	10		5.0	13n	10m†	1.0	0	7	4	74-01N	DIP14a
65♦	N8880A	TTL	NAND	2		2.6	0.4C	20		5	13n	31m	600m	0	7	4	74-01N	TO-116
66♦	N8880F	TTL	NAND	2		2.6	0.4C	20		5.0	13n	31m	600m	0	7	4	74-01N	DIP14a
67♦	N8880J	TTL	NAND	2		2.6	0.4C	20		5	13n	31m	600m	0	7	4	54-01W	TO-88
68♦	S8880A	TTL	NAND	2		2.6	0.4C	20		5	13n	31m	600m	5	C	4	74-01N	TO-116
69♦	S8880F	TTL	NAND	2		2.6	0.4C	20		5.0	13n	31m	600m	5	C	4	74-01N	DIP14a
70♦	S8880J	TTL	NAND	2		2.6	0.4C	20		5	13n	31m	600m	5	C	4	54-01W	TO-88
71♦	54LS03FM	TTL	NAND	2	OC	2.0	0.7			5.0	14n	22mQ	300m	5	C	4	54S03W	TO-86
72♦	54H01FM	TTL	NAND	2	OC	2.0	0.8	10		5.0	15n	200m	1.0	5	C	4	54-01W	FP21h
73♦	M74HC00C1(A)	CMS	NAND	2		3.15	1.35	10		5.0	15n	500m	1.2	4	8	4	G04-542	LC33
74♦	M74HC03C1(A)	CMS	NAND	2	OD	3.15	1.35	10		5.0	15n	500m	1.2	4	8	4	G04-542	LC33
75♦	S54LS00G	TTL	NAND	2		2.0	0.7			5.0	15n		0.4	5	C	4	G04-542	LC24
76♦	S54LS00W	TTL	NAND	2		2.0	0.7			5.0	15n	22m	0.4	5	C	4	54S00W	FP153
77♦	SFC401HPM	TTL	NAND	2		2.0	0.8	10		5.0	15n	200m	400m	5	C	4	54-01W	TO-85
78♦	SN54ALS00AJ	TTL	NAND	2		2.0	0.7			5.0	16n		0.3	5	C	4	74-00N	DIP14a
79♦	UPD74HC00C(A)	CMS	NAND	2		4.2	1.2			5.0	17n	500m		4	8	4	74-00	MO001AA
80♦	CD54HC00F	CMS	NAND	2		3.15	1.35	10		5.0	18n	500m	1.2	5	C	4	74-00N	MO001AB
81♦	MM74PC00J	CMS	NAND	2		4.0	1.0			5.0	18n	500m		0	7	4	74-00N	DIP14b
82♦	MM74PC00JI	CMS	NAND	2		4.0	1.0			5.0	18n	500m		4	8	4	74-00N	DIP14b
83♦	MM74PC00N	CMS	NAND	2		4.0	1.0			5.0	18n	500m		0	7	4	74-00N	DIP14a
84♦	MM74PC00NI	CMS	NAND	2		4.0	1.0			5.0	18n	500m		4	8	4	74-00N	DIP14a
85♦	HEF4011UBPN	CMS	NAND	2		11.0	4.0	16e		15	19n	400m		4	8	4	40-11B	DIP14b
86♦	74HC00D	CMS	NAND	2		4.2	1.8	10		5.0	20n		2.4	4	8	4	74-00	FP147
87♦	74HC00N	CMS	NAND	2		4.2	1.8	10		5.0	20n		2.4	4	8	4	74-00	DIP14b
88♦	74HC03D	CMS	NAND	2	OD	3.15	1.35	10		5.0	20n		1.2	4	8	4	74-03	FP147
89♦	74HC03N	CMS	NAND	2	OD	3.15	1.35	10		5.0	20n		1.2	4	8	4	74-03	DIP14a
90♦	CD54HCT00F(A)	CMS	NAND	2		2.00	0.80	10		5.0	20n	500m	0.7	5	C	4	74-00N	MO001AB
91♦	CD74HC00E	CMS	NAND	2		3.15	1.35	10		5.0	20n	500m	1.2	4	8	4	74-00N	MO001AG
92♦	CD74HC00M	CMS	NAND	2		3.15	1.35	10		5.0	20n	400m	1.2	4	8	4	74-00N	FP147
93♦	CD74HCT00E(A)	CMS	NAND	2		2.0	0.8	10		5.0	20n	500m	0.7	4	8	4	74-00N	MO001AB
94♦	CD74HCT00M	CMS	NAND	2		2.0	0.8	10		5.0	20n	400m	0.7	4	8	4	74-00N	FP147
95♦	LC74HC00	CMS	NAND	2		3.5	1.5	10		5.0	20n	0.3	1.1	4	8	4	74-00	DIP14a
96▼	TC74HC00F(A)	CMS	NAND	2		3.15	1.35	10d		5.0	20n	180m	1.3	4	8	4	74-00N	FP166
97♦	CD74HC03E(A)	CMS	NAND	2	OD	3.15	1.35	10		5	21n	500m	1.2	4	8	4	74-03N	MO001AB
98♦	CD74HC03M(A)	CMS	NAND	2	OD	3.15	1.35	10		5	21n	400m	1.2	4	8	4	74-03N	FP147
99♦	CD74HCT03E(A)	CMS	NAND	2	OD	2.0	0.8	10		5	21n	500m	0.7	4	8	4	74-03N	MO001AB
100♦	CD74HCT03M(A)	CMS	NAND	2	OD	2.0	0.8	10		5	21n	400m	0.7	4	8	4	74-03N	FP147
101♦	54LS26FM	TTL	NAND	2	OC	2.0	0.7	11d		5.0	22n	22mQ	300m*	5	C	4	54S03W	FP21h
102♦	5400FM	TTL	NAND	2		2.0	0.8	20		5.0	22n	10m	1.0	5	C	4	54-00W	FP52
103♦	DM5437W	TTL	NAND	2		2.0	0.8	30		5.0	22n	1.0	1.0 †	5	C	4	54S00W	FP97a
104♦	DM5438W	TTL	NAND	2	OC	2.0	0.8	30		5.0	22n	1.0	1.0 †	5	C	4	54S03W	FP97a
105♦	DM7091J	TTL	NAND	2		2.0	0.8	30		5.0	22n	230m		5	C	4	None	DIP14a
106♦	DM7091N	TTL	NAND	2		2.0	0.8	30		5.0	22n	230m		5	C	4	None	DIP14a
107♦	DM7091W	TTL	NAND	2		2.0	0.8	30		5.0	22n	230m		5	C	4	None	FP97a
108♦	DM8091J	TTL	NAND	2		2.0	0.8	30		5.0	22n	230m		0	7	4	None	DIP14a
109♦	DM8091N	TTL	NAND	2		2.0	0.8	30		5.0	22n	230m		0	7	4	None	DIP14a
110♦	DM8091W	TTL	NAND	2		2.0	0.8	30		5.0	22n	230m		0	7	4	None	FP97a

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT
(3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	FJH231-7401	TTL	NAND	2		2.0	0.8	10		5.0	22n	30m†	1.0	0	7	4	74-01N	DIP14a
2♦	FJH311-7401	TTL	NAND	2		2.0	0.8	10		5.0	22n	10m†	1.0	0	7	4	74-01N	DIP14a
3♦	FJH311-7401S1	TTL	NAND	2		2.0	0.8	10		5.0	22n	10m†	1.0	0	7	4	74-01N	DIP14a
4▼	HD74LS132	TTL	NAND	2		2.0	0.8			5	22n			2	7	4	74LS132N	DIP14a
5♦	S5400W	TTL	NAND	2		2.0	0.8	10		5.0	22n	110m	0.4	5	C	4	54-00W	FP153
6♦	SFC400PM	TTL	NAND	2		2.0	0.8	10		5.0	22n	110m	400m	5	C	4	54-00W	TO-85
7♦	SFC401E	TTL	NAND	2		2.0	0.8	10		5.0	23n	110m	400m	0	7	4	74-01N	TO-116
8♦	SFC401EM	TTL	NAND	2		2.0	0.8	10		5.0	23n	110m	400m	5	C	4	74-01N	TO-116
9♦	SFC401ET	TTL	NAND	2		2.0	0.8	10		5.0	23n	110m	400m	2	8	4	74-01N	TO-116
10♦	SFC401JM	TTL	NAND	2		2.0	0.8	10		5.0	23n	110m	400m	5	C	4	74-01N	TO-116
11♦	SFC401KM	TTL	NAND	2		2.0	0.8	10		5.0	23n	110m	400m	5	C	4	74-01N	TO-116
12♦	SFC401PM	TTL	NAND	2		2.0	0.8	10		5.0	23n	40m†	400m	5	C	4	54-01W	TO-85
13▼	SN74HC00D	CMS	NAND	2		3.15	0.9			5.0	23n		1.7	4	8	4	74-00n	FP147
14♦	SN74HC00N	CMS	NAND	2		3.15	0.9			5.0	23n		1.7	4	8	4	74-00n	MO001AA
15♦	74HCT00D	CMS	NAND	2		2.0	0.8	10		5.0	24n		1.2	4	8	4	74-00	FP147
16♦	74HCT00N	CMS	NAND	2		2.0	0.8	10		5.0	24n		1.2	4	8	4	74-00	DIP14b
17♦	DM5426J	TTL	NAND	2	OC	2.0	0.8			5.0	24n		0.4	5	C	4	54S03	DIP14a
18♦	DM7426N	TTL	NAND	2	OC	2.0	0.8			5.0	24n		0.4	0	7	4	74-03	DIP14a
19♦	SFC426E	TTL	NAND	2		2.0	0.8	10		5.0	24n	110mQ		0	7	4	None	TO-116
20♦	SFC426EM	TTL	NAND	2		2.0	0.8	10		5.0	24n	110mQ		5	C	4	None	TO-116
21♦	SFC426ET	TTL	NAND	2		2.0	0.8	10		5.0	24n	110mQ		2	8	4	None	TO-116
22♦	DM5400W	TTL	NAND	2		2.0	0.8	10		5.0	25n	40m†	400m	5	C	4	54-00W	FP97a
23♦	N8881F	TTL	NAND	2		2.6	0.4C	20		5.0	25n	31m	600m	0	7	4	74-01N	DIP14a
24♦	N8881J	TTL	NAND	2			0.4C	20		5	25n	31m	600m	0	7	4	54-01W	TO-88
25♦	N8881N	TTL	NAND	2			0.4C	20		5.0	25n	31m	600m	0	7	4	74-01N	TO-116
26♦	S8881A	TTL	NAND	2			0.4C	20		5	25n	31m	600m	5	C	4	74-01N	TO-116
27♦	S8881F	TTL	NAND	2		2.6	0.4C	20		5.0	25n	31m	600m	5	C	4	74-01N	DIP14a
28♦	S8881J	TTL	NAND	2			0.4C	20		5	25n	31m	600m	5	C	4	54-01W	TO-88
29♦	CD54HC03F(A)	CMS	NAND	2	OD	3.15	1.35	10		5.0	26n	500m	1.2	5	C	4	74-03N	MO001AB
30♦	CD54HCT03F(A)	CMS	NAND	2	OD	2.0	0.8	10		5.0	26n	500m	0.7	5	C	4	74-03N	MO001AB
31♦	MC74HCT00N(A)	CMS	NAND	2		2.0	0.8	10		5.0	27n	500m	1.3	5	C	4	74-00	DIP14a
32♦	PC74HC00P	CMS	NAND	2		3.15	1.35	10		5.0	27n	500m	0.8	4	C	4	74-00	DIP14b
33♦	PC74HC00T	CMS	NAND	2		3.15	1.35	10		5.0	27n	300m	0.8	4	C	4	74-00	FP147
34♦	SN54HC00J	CMS	NAND	2		3.15	0.9			5.0	27n			5	C	4	74-00N	MO001AA
35♦	TC40H000F	CMS	NAND	2		4.0	1.0			10	27n	180m	.95	4	8	4	54S00W	FP166
36♦	PC74HC03P	CMS	NAND	2	OD	3.15	1.35	10		5.0	29n	500m	0.8	4	C	4	74-03	DIP14b
37♦	PC74HC03T	CMS	NAND	2	OD	3.15	1.35	10		5.0	29n	300m	0.8	4	C	4	74-03	FP147
38♦	PC74HCT00P(A)	CMS	NAND	2		2.0	0.8	10		5.0	29n	500m	0.7	4	C	4	74-00	DIP14b
39♦	PC74HCT00T(A)	CMS	NAND	2		2.0	0.8	10		5.0	29n	300m	0.7	4	C	4	74-00	FP147
40♦	74HCT03D	CMS	NAND	2	OD	2.0	0.8	10		5.0	30n		0.7	4	8	4	74-03	FP147
41♦	74HCT03N	CMS	NAND	2	OD	2.0	0.8	10		5.0	30n		0.7	4	8	4	74-03	DIP14a
42♦	7401PC	TTL	NAND	2	OC	2.0	0.8	10		5.0	30n	110m	1.0	0	7	4	74-01N	DIP14a
43♦	HEF4011P	CMS	NAND	2		7.0	3.0			10	30n	300uQ		4	8	4	40-11B	TO-116
44▼	MC858L	DTL	NAND	2		3.0	0.2	27		5.0	30n	130m†		0	7	4	9-57	TO-116
45▼	MC858P	DTL	NAND	2		3.0	0.2	27		5.0	30n	130m†		0	7	4	9-57	DIP14a
46♦	MC958L	DTL	NAND	2		3.0	0.2	27		5.0	30n	130m†		5	C	4	9-57	TO-116
47♦	MC1918F	DTL	NAND	2			0.4C	8		5.0	30n	40m		5	C	4	54S03W	TO-86
48▼	SN74HC03D	CMS	NAND	2	OD	3.15	0.9	10		5.0	31n		1.2	4	8	4	74-03	FP147
49▼	SN74HC03N	CMS	NAND	2	OD	3.15	0.9	10		5.0	31n		1.2	4	8	4	74-03	DIP14a
50▼	TC74HC03F(A)	CMS	NAND	2	OC	3.15	1.35			5.0	31n	180m	1.3	4	8	4	74-03N	FP166
51▼	TC74HC03P(A)	CMS	NAND	2	OC	3.15	1.35	10d		5.0	31n	500m	1.3	4	8	4	74-03N	MO001AA
52♦	DN74LS01P1	TTL	NAND	2	OC	2.0	0.8	20		5.0	32n	400m		2	7	4	74-01	DIP14a
53♦	DN74LS01P4	TTL	NAND	2	OC	2.0	0.8	20		5.0	32n	400m		2	7	4	74-01	FP177
54▼	HD74LS01G	TTL	NAND	2	OC	2.0	0.8			5.0	32n	400m	300m	2	7	4	74-01N	DIP14a
55♦	HD74LS01P	TTL	NAND	2	OC	2.0	0.8			5.0	32n	400m	300m	2	7	4	74-01N	DIP14a
56▼	HD74LS03G	TTL	NAND	2	OC	2.0	0.8			5.0	32n	400m	300m	2	7	4	74-03N	DIP14a
57♦	HD74LS03P	TTL	NAND	2	OC	2.0	0.8			5.0	32n	400m	300m	2	7	4	74-03N	DIP14a
58♦	MB74LS01	TTL	NAND	2	OC	2.0	0.8	20		5.0	32n	22m	1.0 *	2	7	4	74-01N	DIP14a
59♦	MB74LS01M	TTL	NAND	2	OC	2.0	0.8	20		5.0	32n	22m	1.0 *	2	7	4	74-01N	DIP14a
60♦	N74LS01D	TTL	NAND	2	OC	2.0	0.8	20		5.0	32n	22m	0.3	0	7	4	74-01N	FP147
61♦	N74LS01F	TTL	NAND	2	OC	2.0	0.8	20		5.0	32n	22m		0	7	4	74-01N	DIP14b
62♦	N74LS01N	TTL	NAND	2	OC	2.0	0.8	20		5.0	32n	22m	0.3	0	7	4	74-01N	DIP14a
63♦	S54LS01F	TTL	NAND	2	OC	2.0	0.7			5.0	32n	22m		5	C	4	74-01N	DIP14b
64♦	S54LS01W	TTL	NAND	2	OC	2.0	0.7			5.0	32n	22m		5	C	4	54LS01W	FP39e
65♦	S54LS03W	TTL	NAND	2	OC	2.0	0.7			5.0	32n	22m		5	C	4	54S03W	FP39e
66♦	S54LS26W	TTL	NAND	2	OC	2.0	0.7			5.0	32n	22m		5	C	4	54S03W	FP39e
67♦	SFC401LSE	TTL	NAND	2		2.0	0.8	20		5.0	32n	22m	300m*	0	7	4	74-01N	TO-116
68♦	SFC401LSEM	TTL	NAND	2		2.0	0.8	10		5.0	32n	22m	400m*	5	C	4	74-01N	TO-116
69♦	SN54LS01J	TTL	NAND	2	OC	2.0	0.7			5.0	32n		0.3	5	C	4	74-01	DIP14a
70▼	SN54LS01N	TTL	NAND	2	OC	2.0	0.7			5.0	32n		0.3	5	C	4	74-01	DIP14a
71♦	SN74LS01D	TTL	NAND	2	OC	2.0	0.8			5.0	32n		0.4	0	7	4	74-01	FP147
72♦	SN74LS01J	TTL	NAND	2	OC	2.0	0.8				32n		0.4	0	7	4	74-01N	DIP14a
73♦	SN74LS01N	TTL	NAND	2	OC	2.0	0.8				32n		0.4	0	7	4	74-01	DIP14a
74♦	HEF4011	CMS	NAND	2		11	4.0	16e		15	35n	400m	6.7	4	8	4	40-11B	DL Ø
75♦	HEF4011BPN	CMS	NAND	2		11.0	4.0	16e		15	35n	400m	6.7	4	8	4	40-11B	DIP14b
76♦	HEF4011BTD	CMS	NAND	2		11.0	4.0	50e		15	35n	200m	6.7	4	8	4	40-11B	FP147
77♦	HEF4011U	CMS	NAND	2		11	4.0	16e		15	35n	400m	6.7	4	8	4	40-11B	DL Ø
78▼	MC857L	DTL	NAND	2		3.0	0.2	25		5.0	35n	170m†		0	7	4	9-57	TO-116
79▼	MC857P	DTL	NAND	2		3.0	0.2	25		5.0	35n	170m†		0	7	4	9-57	DIP14a
80♦	MC957L	DTL	NAND	2		3.0	0.2	25		5.0	35n	170m†		5	C	4	9-57	TO-116
81♦	PC74HCT03P	CMS	NAND	2	OD	2.0	0.8	10		5.0	36n	500m	0.7	4	C	4	74-03	DIP14b
82♦	PC74HCT03T	CMS	NAND	2	OD	2.0	0.8	10		5.0	36n	300m	0.7	4	C	4	74-03	FP147
83▼	SN54HC03J	CMS	NAND	2	OD	3.15	0.9	10		5.0	36n	500m	1.7	5	C	4	74-03N	MO001AB
84♦	CD4011AD	CMS	NAND	2		9.95	0.05C			15	40n	500m	4.5	5	C	4	40-11B	MO001AD
85♦	CD4011AF	CMS	NAND	2		9.95	0.05C			15	40n	500m	4.5	5	C	4	40-11B	MO001AB
86♦	CD4011MJ	CMS	NAND	2		9.99	.01C			10	40n	500m	4.5	5	C	4	40-11B	DIP14a
87♦	CD4011MW	CMS	NAND	2		9.99	.01C			10	40n	500m	4.5	5	C	4	40-11B	FP97c
88♦	CM4011AD	CMS	NAND	2		7.0	3.0			10	40n	200m	4.5	5	C	4	40-11B	DIP14a
89♦	HBC4011AD	CMS	NAND	2		10	0C			10	40n	1.0uQ	4.5	5	C	4	40-11B	MO001AD
90♦	HBC4011AF	CMS	NAND	2		10	0C			10	40n	1.0uQ	4.5	5	C	4	40-11B	MO001AD
91♦	HBC4011AK	CMS	NAND	2		10	0C			10	40n	1.0uQ	4.5	5	C	4	40-11B	MO004AF
92♦	HEF4011UBTD	CMS	NAND	2		11.0	4.0	50e		15	40n	200m	6.7	4	8	4	40-11B	FP147
93♦	LC4011BM	CMS	NAND	2		3.5	1.5			5.0	40n	150m		4	8	4	40-11B	FP151
94♦	MC14011UBAL	CMS	NAND	2		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	4	40-11B	DIP14a
95▼	MC14011UBALD	CMS	NAND	2		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	4	40-11B	DIP14a
96▼	MC14011UBALDS	CMS	NAND	2		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	4	40-11B	DIP14a
97▼	MC14011UBALS	CMS	NAND	2		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	4	40-11B	DIP14a
98♦	MC14011UBCL	CMS	NAND	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-11B	DIP14a
99▼	MC14011UBCLD	CMS	NAND	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-11B	DIP14a
100▼	MC14011UBCLDS	CMS	NAND	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-11B	DIP14a
101▼	MC14011UBCLS	CMS	NAND	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-11B	DIP14a
102♦	MC14011UBCP	CMS	NAND	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-11B	DIP14a
103▼	MC14011UBCPD	CMS	NAND	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-11B	DIP14a
104▼	MC14011UBCPDS	CMS	NAND	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-11B	DIP14a
105▼	MC14011UBCPS	CMS	NAND	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-11B	DIP14a
106▼	MC14011UBD	CMS	NAND	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-11B	DIP14a
107♦	SFF24011AEV	CMS	NAND	2		9.99	.01C			10	40n	200m	3.0 *	4	8	4	40-11B	TO-116
108♦	SFF24011AKM	CMS	NAND	2		9.99	.01C			10	40n	200m	3.0 *	5	C	4	40-11B	TO-116
109▼	SN74LS24N	TTL	NAND	2						5.0	40n			0	7	4	G04-542	DIP14
110♦	5401DM	TTL	NAND	2	OC	2.0	0.8	10		5.0	45n	110m	1.0	5	C	4	74-01N	TO-116

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	5401FM	TTL	NAND	2	OC	2.0	0.8	10		5.0	45n	110m	1.0	5	C	4	54-01W	FP52
2♦	5403FM	TTL	NAND	2	OC	2.0	0.8	10		5.0	45n		1.0	5	C	4	54S03W	FP52
3♦	7401DC	TTL	NAND	2	OC	2.0	0.8	10		5.0	45n	110m	1.0	0	7	4	74-01N	TO-116
4♦	9012FM	TTL	NAND	2	OC	1.7	0.9			5.0	45n	70mQ		5	C	4	54S03W	TO-86
5♦	DM54LS01J	TTL	NAND	2	OC	2.0	0.7	10		5.0	45n		0.3	5	C	4	74-01	DIP14a
6♦	DM74LS01N	TTL	NAND	2	OC	2.0	0.8	10		5.0	45n		0.3	0	7	4	74-01	DIP14a
7♦	DM5401J	TTL	NAND	2	OC	2.0	0.8	10		5.0	45n	102m	400m	5	C	4	74-01N	DIP14a
8♦	DM5401W	TTL	NAND	2	OC	2.0	0.8	10		5.0	45n	102m	400m	5	C	4	54-01W	FP97a
9♦	DM7401N	TTL	NAND	2	OC	2.0	0.8	10		5.0	45n	102m	400m	0	7	4	74-01N	DIP14a
10♦	HEF4011BD	CMS	NAND	2		7.0	3.0			10	45n	500m		4	8	4	40-11B	DIP14a
11♦	HEF4011BP	CMS	NAND	2		7.0	3.0			10	45n	500m		4	8	4	40-11B	DIP14a
12♦	HEF4011BT	CMS	NAND	2		7.0	3.0			10	45n	400m		4	8	4	40-11	FP147
13♦	N7401F	TTL	NAND	2	OC	2.0	0.8	10		5.0	45n	80m	1.0 †	0	7	4	74-01N	DIP14b
14♦	N7401N	TTL	NAND	2	OC	2.0	0.8	10		5.0	45n	80m		0	7	4	74-01N	DIP14a
15♦	S5401F	TTL	NAND	2	OC	2.0	0.8	10		5.0	45n	110m	1.0 †	5	C	4	74-01N	DIP14b
16♦	S5401W	TTL	NAND	2	OC	2.0	0.8	10		5.0	45n	110m	1.0 †	5	C	4	54-01W	FP39e
17♦	S5403W	TTL	NAND	2	OC	2.0	0.8	10a		5	45n	110m	0.4	5	C	4	54S03W	FP39e
18♦	SP387A	DTL	NAND	2		3.5	0.4C	12		5.0	45n	180m†	1.2	0	7	4	G04-400c	DIP14a
19♦	4011BDC	CMS	NAND	2		11	4.0	25e		15	48n	450uQ	6.7	4	8	4	40-11B	TO-116
20♦	4011BDM	CMS	NAND	2		11	4.0	25e		15	48n	450uQ	6.7	5	C	4	40-11B	TO-116
21♦	4011BFC	CMS	NAND	2		11	4.0	25e		15	48n	450uQ	6.7	4	8	4	40-11B	FP21h
22♦	4011BFM	CMS	NAND	2		11	4.0	25e		15	48n	450uQ	6.7	5	C	4	40-11B	FP21h
23♦	4011BPC	CMS	NAND	2		11	4.0	25e		15	48n	450uQ	6.7	4	8	4	40-11B	DIP14a
24♦	883C4011UB	CMS	NAND	2		8.21	6.7			15	50n	300m		5	C	4	40-11B	MO001AA
25♦	949FM	DTL	NAND	2		1.9	1.1			5.0	50n	34m†	1.0	5	C	4	54S00W	FP28c
26♦	BCL4011UB	CMS	NAND	2		8.21	6.7			15	50n	300m		5	C	4	40-11B	MO001AA
27♦	CD4011AE	CMS	NAND	2		9.95	0.05C			15	50n	500m	4.5	4	8	4	40-11B	MO001AB
28♦	CD4011CJ	CMS	NAND	2		9.99	.01C			10	50n	500m	4.5	4	8	4	40-11B	DIP14a
29♦	CD4011CN	CMS	NAND	2		9.99	.01C			10	50n	500m	4.5	4	8	4	40-11B	DIP14a
30♦	CM4011AE	CMS	NAND	2		10	0C			10	50n	200m	4.5	4	8	4	40-11B	DIP14a
31♦	HBF4011AE	CMS	NAND	2		10	0C			10	50n	50uQ	4.5	4	8	4	40-11B	MO001AB
32♦	HBF4011AF	CMS	NAND	2		10	0C			10	50n	50uQ	4.5	4	8	4	40-11B	MO001AD
33♦	HEF4011UBD	CMS	NAND	2		7.0	3.0			10	50n	500m		4	8	4	40-11B	DIP14a
34♦	HEF4011UBP	CMS	NAND	2		7.0	3.0			10	50n	500m		4	8	4	40-11	DIP14a
35♦	HEF4011UBT	CMS	NAND	2		7.0	3.0			10	50n	400m		4	8	4	40-11B	FP147
36♦	MM4611AD	CMS	NAND	2		4.99	.01C			5.0	50n	500m	450m	5	C	4	40-11B	DIP14a
37♦	MM4611AF	CMS	NAND	2		4.99	.01C			5.0	50n	500m	450m	5	C	4	40-11B	FP97b
38♦	MM5611AN	CMS	NAND	2		4.99	.01C			5.0	50n	500m	450m	4	8	4	40-11B	DIP14a
39▼	SN74ALS03BD	TTL	NAND	2	OC	2.0	0.8			5.0	50n		0.4	0	7	4	74-03N	FP147
40▼	SN74ALS03BN	TTL	NAND	2	OC	2.0	0.8			5.0	50n		0.4	0	7	4	74-03N	DIP14a
41♦	SP357A	TTL	NAND	2		3.5	0.6C	40		5.0	50n	92m	300m*	0	7	4	G04-436	TO-116
42♦	SP358A	TTL	NAND	2			0.6C	40		5.0	50n	92m	300m*	0	7	4	G04-436a	TO-116
43♦	DM74ALS01J	TTL	NAND	2	OC	2.0	0.8	10		5.0	54n		0.3	0	7	4	74-01	DIP14a
44♦	DM74ALS01N	TTL	NAND	2	OC	2.0	0.8	10		5.0	54n		0.3	0	7	4	74-01	DIP14a
45▼	SN74ALS01D	TTL	NAND	2	OC	2.0	0.8			5.0	54n		0.4	0	7	4	74-01N	FP147
46♦	SN74ALS01N	TTL	NAND	2	OC	2.0	0.8			5.0	54n		0.4	0	7	4	74-01N	DIP14a
47♦	M74ALS01P	TTL	NAND	2	OC	2.0	0.8			5.0	55n	17m	0.4	2	7	4	74-01N	DIP14a
48♦	SN5401J	TTL	NAND	2	OC	2.0	0.8	10		5.0	55n	110m	0.4	5	C	4	74-01N	DIP14a
49♦	SN7401N	TTL	NAND	2	OC	2.0	0.8	10		5.0	55n	110m	0.4	0	7	4	74-01N	DIP14a
50♦	DM54ALS01J	TTL	NAND	2	OC	2.0	0.8	10		5.0	59n		0.4	5	C	4	74-01	DIP14a
51▼	SN54ALS03BJ	TTL	NAND	2	OC	2.0	0.7			5.0	59n		0.3	5	C	4	74-03N	DIP14a
52♦	CD4011UBD	CMS	NAND	2		7.0	3.0	18e		15	60n	500m	1.9	5	C	4	40-11B	MO001AD
53♦	CD4011UBE	CMS	NAND	2		7.0	3.0	18e		15	60n	500m	1.9	4	8	4	40-11B	MO001AD
54♦	CD4011UBF	CMS	NAND	2		7.0	3.0	18e		15	60n	500m	1.9	5	C	4	40-11B	MO001AD
55♦	DM54L00W	TTL	NAND	2		2.0	0.7	4		5.0	60n		0.4	5	C	4	54-00W	FP97c
56♦	MN4011B	CMS	NAND	2		11.0	4.0			15	60n	400m	3.9	4	8	4	40-11B	DIP14a
57♦	SFC400LPM	TTL	NAND	2		2.0	0.7	10		5.0	60n	10m	400m	5	C	4	54-00W	TO-85
58♦	SP680A	DTL	NAND	2				8		4.5	60n	80m†	2.0	0	7	4	G04-89a	DIP14a
59♦	SN54ALS01J	TTL	NAND	2	OC	2.0	0.7			5.0	66n		0.3	5	C	4	74-01N	DIP14a
60♦	CD4011BCJ	CMS	NAND	2		11	4.0	16e		15	70n	60uQ	6.7	4	8	4	40-11B	DIP14a
61♦	CD4011BCN	CMS	NAND	2		11	4.0	16e		15	70n	60uQ	6.7	4	8	4	40-11B	DIP14a
62♦	CD4011BMJ	CMS	NAND	2		11	4.0	19e		15	70n	15uQ	6.7	5	C	4	40-11B	DIP14a
63♦	CD4011BMW	CMS	NAND	2		11	4.0	19e		15	70n	15uQ	6.7	5	C	4	40-11B	FP97c
64♦	946FM	DTL	NAND	2		1.7	1.4	10		5.0	80n	34m†	1.0	5	C	4	54S00W	FP28g
65♦	9946FM	DTL	NAND	2		1.7	1.4	10		5.0	80n	34m†	1.0	5	C	4	54S00W	FP28g
66♦	M4011UBP	CMS	NAND	2		12	3.0			15	80n	500m	3.0	4	8	4	40-11B	DIP14a
67♦	MB84011B	CMS	NAND	2		10.5	4.5	16e		15	80n	60uQ	4.5 *	4	8	4	40-11B	DIP14b
68♦	MB84011BM	CMS	NAND	2		10.5	4.5	16e		15	80n	60uQ	4.5 *	4	8	4	40-11B	DIP14a
69♦	MC14011BAL	CMS	NAND	2		11	4.0	50		15	80n	15uQ	2.5 *	5	C	4	40-11B	TO-116
70▼	MC14011BALD	CMS	NAND	2		11	4.0	50		15	80n	15uQ	2.5 *	5	C	4	40-11B	TO-116
71▼	MC14011BALDS	CMS	NAND	2		11	4.0	50		15	80n	15uQ	2.5 *	5	C	4	40-11B	TO-116
72♦	MC14011BCL	CMS	NAND	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-11B	TO-116
73▼	MC14011BCLD	CMS	NAND	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-11B	TO-116
74▼	MC14011BCLDS	CMS	NAND	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-11B	TO-116
75▼	MC14011BCLS	CMS	NAND	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-11B	TO-116
76♦	MC14011BCP	CMS	NAND	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-11B	TO-116
77▼	MC14011BCPD	CMS	NAND	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-11B	TO-116
78▼	MC14011BCPDS	CMS	NAND	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-11B	TO-116
79▼	MC14011BCPS	CMS	NAND	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-11B	TO-116
80▼	MC14011BD	CMS	NAND	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-11B	TO-116
81♦	TC4011UBP	CMS	NAND	2		14.9	.05C	50		15	80n	300m	4.0	4	8	4	40-11B	DIP14a
82♦	UPD4011BG	CMS	NAND	2		11.0	4.0			15	80n	200m	3.9	4	8	4	40-11	FP161
83♦	883C4011B	CMS	NAND	2		8.21	6.7			15	90n	300m		5	C	4	40-11B	MO001AA
84♦	BCL4011B	CMS	NAND	2		8.21	6.7			15	90n	300m		5	C	4	40-11B	MO001AA
85♦	DM54L01J	TTL	NAND	2	OC	2.0	0.6			5.0	90n		0.3	5	C	4	54LS01	DIP14a
86♦	DM54L26J	TTL	NAND	2	OC	2.0	0.7			5.0	90n		0.4	5	C	4	54S03	DIP14a
87♦	DM74L01N	TTL	NAND	2	OC	2.0	0.6			5.0	90n		0.2	0	7	4	74-01	DIP14a
88♦	DM74L26N	TTL	NAND	2	OC	2.0	0.7			5.0	90n		0.3	0	7	4	74-03	DIP14a
89♦	E302D2	DTL	NAND	2		1.7	0.9	10		5.0	90n	4.0m†	450m	5	C	4	54S00W	FP28c
90♦	E302D7	DTL	NAND	2		1.7	0.9	10		5.0	90n	4.0m†	450m	2	A	4	54S00W	FP28c
91♦	HCC4011BD	CMS	NAND	2		11	4.0			15	90n	200m	2.5 *	5	C	4	40-11B	DIP14a
92♦	HCC4011BF	CMS	NAND	2		11	4.0			15	90n	200m	2.5 *	5	C	4	40-11B	DIP14a
93♦	HCC4011BK	CMS	NAND	2		11	4.0			15	90n	200m	2.5 *	5	C	4	40-11B	FP130
94♦	HCF4011BE	CMS	NAND	2		11	4.0			15	90n	200m	2.5 *	4	8	4	40-11B	DIP14a
95♦	HCF4011BF	CMS	NAND	2		11	4.0			15	90n	200m	2.5 *	4	8	4	40-11B	DIP14a
96♦	N8480J	TTL	NAND	2		3.4	.35C	9		5	95n	17m	1.4	0	7	4	54-01W	TO-88
97♦	S8480J	TTL	NAND	2		3.4	.35C	9		5	95n	17m	1.4	5	C	4	54S00W	TO-88
98♦	9946FC	DTL	NAND	2		1.8	1.2	10		5.0	100n	34m†	1.0	0	7	4	54S00W	FP28g
99▼	MC672L	DTL	NAND	2		13	1.5C	10		15	110n	176m†		3	7	4	6-68P	TO-116
100▼	MC672P	DTL	NAND	2		13	1.5C	10		15	110n	176m†		3	7	4	6-68P	DIP14a
101♦	CD4011BD	CMS	NAND	2		3.0	8			15	120n	500m	2.9	5	C	4	40-11B	MO001AD
102♦	CD4011BE	CMS	NAND	2		3.0	8			15	120n	500m	2.9	4	8	4	40-11B	MO001AB
103♦	CD4011BF	CMS	NAND	2		3.0	8			15	120n	500m	2.9	5	C	4	40-11B	MO001AB
104♦	LC4011B	CMS	NAND	2		2.5	1.5			8.0	125n	300m		4	8	4	40-11B	DIP14a
105♦	M4011BP	CMS	NAND	2		11	4.0			15	125n	500m	4.0	4	8	4	40-11B	DIP14a
106▼	MC668L	DTL	NAND	2		13	1.5C	10		15	125n	175m†		3	7	4	6-68P	TO-116
107▼	MC668P	DTL	NAND	2		13	1.5C	10		15	125n	175m†		3	7	4	6-68P	DIP14a
108♦	SCL4011B	CMS	NAND	2		7.0	3.0	50		15	125n	300m	3.0	5	C	4	40-11B	MO001AA
109♦	SCL4011UB	CMS	NAND	2		8.0	2.0	50		10	125n	300m	3.0	5	C	4	40-11	MO001AF
110♦	TC4011BP	CMS	NAND	2		14.9	.05C	50		15	125n	300m	4.0	4	8	4	40-11B	DIP14a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	4011A	CMS	NAND	2		7.1	2.9	2		10	130n	200m		4	8	4	40-11B	DIP14a
2♦	MSM501RS	CMS	NAND	2		3.6	0.8	40e		5.0	150n		0.6	3	8	4	None	DIP14a
3♦	MSM4011	CMS	NAND	2		7.2	2.0	16e		10	150n	300uQ	2.0 *	2	7	4	40-11B	DIP14a
4♦	N8481J	TTL	NAND	2			.35C	9		5	150n	17m	1.4	0	7	4	54S03W	TO-88
5♦	S8481J	TTL	NAND	2			.35C	9		5	150n	17m	1.4	5	C	4	54S03W	TO-88
6♦	H102D1	DTL	NAND	2		8.0	6.0	25		15	250n	600m	5.0	0	7	4	G04-432	DIP14b
7♦	H102D2	DTL	NAND	2		8.0	6.0	25		16	250n	384m	5.0	5	C	4	G04-432	DIP14b
8♦	H102D6	DTL	NAND	2		8.0	6.0	25		16	250n	384m	5.0	4	8	4	G04-432	DIP14
9♦	H202B1	DTL	NAND	2		8.0	6.0	25		16	250n	500m	5.0	0	7	4	G04-432	TO-116
10♦	MSM500	CMS	NAND	2		3.6	0.8	15		5.0	300n	25u		2	7	4	40-11B	DIP14a
11♦	MSM4011RS	CMS	NAND	2		3.6	1.0	40		5.0	300n	200m	0.6	4	8	4	40-11B	DIP14 ☑
12♦	FZH101	DTL	NAND	2		7.5	4.5	10		12	310n	124m	5.0	0	7	4	G04-428	DIP16a
13♦	FZH101A	DTL	NAND	2		7.5	4.5	10		12	310n	124m	5.0	0	7	4	G04-428	DIP16a
14♦	S54F00G	TTL	NAND	2		2.0	0.8			5.0	7.0		300m	5	7	4	G04-542	LC24
15♦	TSC326AL	HNL	NAND	2/2/3/3		6.5	5.0	28		15	600n		3.5 *	3	7	4	3-25C	DIP16b
16♦	FZH265B	DTL	NAND	3	TS	30	4.5	10		12		216m				1	None	DIP16a
17♦	54F10DM	TTL	NAND	3		2.0	0.8	12		5.0		39m		5	C	3	74-10N	DIP14b
18♦	54H10DM	TTL	NAND	3		2.0	0.8	10		5.0		150m	1.0	5	C	3	74-10N	TO-116
19♦	54LS10DM	TTL	NAND	3		2.0	0.7			5.0		16mQ	300m	5	C	3	74-10N	TO-116
20♦	54S10DM	TTL	NAND	3		2.0	0.8	10		5.0		135m	1.0	5	C	3	74-10N	TO-116
21♦	74F10DC	TTL	NAND	3		2.0	0.8	12		5.0		39m		0	7	3	74-10N	DIP14b
22♦	74F10PC	TTL	NAND	3		2.0	0.8	12		5.0		39m		0	7	3	74-10N	DIP14a
23♦	74H10DC	TTL	NAND	3		2.0	0.8	10		5.0		90m†	1.0	0	7	3	74-10N	TO-116
24♦	74H10PC	TTL	NAND	3		2.0	0.8	10		5.0		90m†	1.0	0	7	3	74-10N	DIP14a
25♦	74LS10DC	TTL	NAND	3		2.0	0.8	5		5.0		16mQ	300m	0	7	3	74-10N	TO-116
26♦	74LS10PC	TTL	NAND	3		2.0	0.8	5		5.0		16mQ	300m	0	7	3	74-10N	TO-116
27♦	74S10DC	TTL	NAND	3		2.0	0.8	10		5.0		135m	1.0	0	7	3	74-10N	TO-116
28♦	74S10PC	TTL	NAND	3		2.0	.50	20		5.0		4.5n		0	7	3	74-10N	DIP14a
29♦	962DM	DTL	NAND	3		1.7	1.4	20		5.0		25m†	1.0	5	C	3	74-10N	DIP14b
30♦	963DC	DTL	NAND	3		2.6	0.4C	7		5.0		25m	1.0	0	7	3	74-10N	TO-116
31♦	963DM	DTL	NAND	3		1.9	1.1			5.0		25m†	1.0	5	C	3	74-10N	DIP14a
32♦	5410DM	TTL	NAND	3		2.0	0.4	20		5.0		220n		5	C	3	74-10N	DIP14a
33♦	5412DM	TTL	NAND	3	OC	2.0	0.4	10		5.0		45n		5	C	3	74-12N	DIP14a
34♦	7410DC	TTL	NAND	3		2.0	0.4	20		5.0		22n		0	7	3	74-10N	DIP14a
35♦	7410PC	TTL	NAND	3		2.0	0.8	10		5.0		10m	1.0	0	7	3	74-10N	DIP14a
36♦	7412DC	TTL	NAND	3	OC	2.0	0.4	10		5.0		45n		0	7	3	74-12N	DIP14a
37♦	9003DC	TTL	NAND	3		1.8	0.85	10		5.0		33m†		0	7	3	74-10N	DIP14a
38♦	9003DM	TTL	NAND	3		1.7	0.9	11		5.0		33m†		5	C	3	74-10N	DIP14a
39♦	9962BC	DTL	NAND	3		1.8	1.2	10		5.0		25m†	1.0	0	7	3	74-10N	DIP14a
40♦	9962DC	DTL	NAND	3		1.8	1.2	10		5.0		25m†	1.0	0	7	3	74-10N	DIP14b
41♦	9962DM	DTL	NAND	3		1.7	1.4	10		5.0		25m†	1.0	5	C	3	74-10N	DIP14b
42♦	DM54ALS12AJ	TTL	NAND	3	OC	2.0	0.8	10		5.0		59n	0.4	5	C	3	74-12	DIP14a
43♦	DM54H10J	TTL	NAND	3		2.0	0.8	10		5.0		150m		5	C	3	74-10N	DIP14a
44♦	DM54L10J	TTL	NAND	3		2.0	0.7	20		5.0		3.0m†		5	C	3	74-10N	DIP14a
45♦	DM54LS12J	TTL	NAND	3	OC	2.0	0.7	10		5.0		45n	0.3	5	C	3	74-12	DIP14a
46♦	DM74ALS12AJ	TTL	NAND	3	OC	2.0	0.8	10		5.0		54n	0.3	0	7	3	74-12	DIP14a
47♦	DM74ALS12AN	TTL	NAND	3	OC	2.0	0.8	10		5.0		54n	0.3	0	7	3	74-12	DIP14a
48♦	DM74H10N	TTL	NAND	3		2.0	0.8	10		5.0		150m		0	7	3	74-10N	DIP14a
49♦	DM74L10N	TTL	NAND	3		2.0	0.7	20		5.0		3.0m†		0	7	3	74-10N	DIP14a
50♦	DM74LS12N	TTL	NAND	3	OC	2.0	0.8	10		5.0		45n	0.3	0	7	3	74-12	DIP14a
51♦	DM74S10N	TTL	NAND	3		2.0	0.8	10		5.0		57m†		0	7	3	74-10N	DIP14a
52♦	DM5410J	TTL	NAND	3		2.0	0.8	10		5.0		30m†	400m	5	C	3	74-10N	DIP14a
53♦	DM7410N	TTL	NAND	3		2.0	0.8	10		5.0		30m†	400m	0	7	3	74-10N	DIP14a
54♦	DM9003CJ	TTL	NAND	3		1.6	0.85			5.0		91m		0	7	3	74-10N	DIP14a
55♦	DM9003CN	TTL	NAND	3		1.6	0.85			5.0		91m		0	7	3	74-10N	DIP14a
56♦	DN74LS12P1	TTL	NAND	3	OC	2.0	0.8	20		5.0		400m		2	7	3	74-12	DIP14a
57♦	DN74LS12P4	TTL	NAND	3	OC	2.0	0.8	20		5.0		400m		2	7	3	74-12	FP177
58♦	E303F2	DTL	NAND	3		1.7	0.9	10		5.0		3.0m†	450m	5	C	3	74-10N	DIP14a
59♦	E303F7	DTL	NAND	3		1.7	0.9	10		5.0		3.0m†	450m	2	A	3	74-10N	DIP14a
60♦	FJH121-7410	TTL	NAND	3		2.0	0.8	10		5.0		30m†	1.0	0	7	3	74-10N	DIP14a
61♦	M74ALS10P	TTL	NAND	3		2.0	0.8			5.0		12m	0.4	2	7	3	74-10N	DIP14a
62♦	M74ALS12P	TTL	NAND	3	OC	2.0	0.8			5.0		12m	0.4	2	7	3	74-12N	DIP14a
63♦	M74LS10P	TTL	NAND	3		2.0	0.8	20		5.0		6.0m†	0.4	2	7	3	74-10N	DIP14a
64♦	M74LS12P	TTL	NAND	3	OC	2.0	0.8	20		5.0		6.0m†	0.4	2	7	3	74-12N	DIP14a
65♦	M53210P	TTL	NAND	3		2.0	0.8	10		5.0		10m†	1.0	0	7	3	74-10N	DIP14a
66♦	MB74LS10	TTL	NAND	3		2.0	0.8	20		5.0		16m	1.0 *	2	7	3	74-10N	DIP14a
67♦	MB74LS10M	TTL	NAND	3		2.0	0.8	20		5.0		16m	1.0 *	2	7	3	74-10N	DIP14a
68♦	MB74LS12	TTL	NAND	3	OC	2.0	0.8	20		5.0		16m	1.0 *	2	7	3	74-12N	DIP14a
69♦	MB74LS12M	TTL	NAND	3	OC	2.0	0.8	20		5.0		16m	1.0 *	2	7	3	74-12N	DIP14a
70♦	MB602	TTL	NAND	3		2.0	0.8	10		5.0		63m†		0	7	3	74-10N	DIP14b
71♦	MC54F10J	TTL	NAND	3		2.0	0.8	12a		5.0		5.0n	0.3	5	C	3	74-10N	DIP14a
72▼	MC54F10N	TTL	NAND	3		2.0	0.8	12a		5.0		5.0n	0.3	5	C	3	74-10N	DIP14a
73♦	MC54HC10J(A)	CMS	NAND	3		3.15	0.9	10		5.0		500m	1.3	5	C	3	74-10N	DIP14a
74♦	MC74F10J	TTL	NAND	3		2.0	0.8	12a		5.0		5.0n	0.3	0	7	3	74-10N	DIP14a
75♦	MC74F10N	TTL	NAND	3		2.0	0.8	12a		5.0		5.0n	0.3	0	7	3	74-10N	DIP14a
76♦	MC74HC10J(A)	CMS	NAND	3		3.15	0.9	10		5.0		500m	1.3	4	8	3	74-10N	DIP14a
77♦	MC74HC10N(A)	CMS	NAND	3		3.15	0.9	10		5.0		500m	1.3	4	8	3	74-10N	DIP14a
78▼	MC862L	DTL	NAND	3		2.6	.45	8		5.0		33m†		0	7	3	74-10N	TO-116
79▼	MC862P	DTL	NAND	3		2.6	.45	8		5.0		33m†		0	7	3	74-10N	DIP14a
80▼	MC863L	DTL	NAND	3		2.6	.45	7		5.0		50m†		0	7	3	74-10N	TO-116
81▼	MC863P	DTL	NAND	3		2.6	.45	7		5.0		50m†		0	7	3	74-10N	DIP14a
82♦	MC962L	DTL	NAND	3		2.6	0.4	8		5.0		33m†		5	C	3	74-10N	TO-116
83♦	MC963L	DTL	NAND	3		2.6	0.4	7		5.0		50m†		5	C	3	74-10N	TO-116
84♦	MM54C10D	CMS	NAND	3		3.5	1.5	2		15		500m	450m	5	C	3	74-10N	DIP14a
85♦	MM54HC10J(A)	CMS	NAND	3		3.15	0.9	8		5.0		500m		5	C	3	74-10N	DIP14a
86♦	MM74C10N	CMS	NAND	3		3.5	1.5	2		15		500m	450m	0	7	3	74-10N	DIP14a
87♦	MM74HC10J	CMS	NAND	3		3.15	0.9	10		5.0		500m		4	8	3	74-10N	DIP14a
88♦	MM74HC10N(A)	CMS	NAND	3		3.15	0.9	10		5.0		500m		4	8	3	74-10N	DIP14a
89♦	N8H70A	TTL	NAND	3		2.6	0.4C	30		5		46m	600m	0	7	3	74-10N	TO-116
90♦	N74H10F	TTL	NAND	3		2.0	0.8	10		5.0		150m		0	7	3	74-10N	DIP14b
91♦	N74H10N	TTL	NAND	3		2.0	0.8	10		5.0		150m		0	7	3	74-10N	DIP14a
92♦	N74LS10D	TTL	NAND	3		2.0	0.7	20		5.0		16m	0.3	0	7	3	74-10N	FP147
93♦	N74LS10N	TTL	NAND	3		2.0	0.7	20		5.0		16m	0.3	0	7	3	74-10N	DIP14a
94♦	N74LS12F	TTL	NAND	3	OC	2.0	0.8	20		5.0		16m		0	7	3	74-12N	DIP14b
95♦	N74LS12N	TTL	NAND	3	OC	2.0	0.8	20		5.0		16m		0	7	3	74-12N	DIP14a
96♦	N74S10D	TTL	NAND	3		2.0	0.8	10		5.0		135m	0.4	0	7	3	74-10N	FP147
97♦	N74S10N	TTL	NAND	3		2.0	0.8	10		5.0		135m	0.4	0	7	3	74-10N	DIP14a
98♦	N7410F	TTL	NAND	3		2.0	0.8	10		5.0		82m	1.0 †	0	7	3	74-10N	DIP14b
99♦	N7410N	TTL	NAND	3		2.0	0.8	10		5.0		82m	0.4	0	7	3	74-10N	DIP14a
100♦	N7412F	TTL	NAND	3	OC	2.0	0.8	10a		5.0		82m		0	7	3	74-12N	DIP14b
101♦	N7412N	TTL	NAND	3	OC	2.0	0.8	10		5.0		82m		0	7	3	74-12N	DIP14a
102♦	N8470A	TTL	NAND	3		3.4	.35C	9		5		17m	1.4	0	7	3	74-10N	TO-116
103♦	N8470F	TTL	NAND	3		3.4	.35C	9		5.0		17m	1.4	0	7	3	74-10N	DIP14a
104♦	N8471A	TTL	NAND	3	OC		.35C	9		5		17m	1.4	0	7	3	74-12N	TO-116
105♦	N8870A	TTL	NAND	3		2.6	0.4C	20		5		31m	600m	0	7	3	74-10N	TO-116
106♦	N8870F	TTL	NAND	3		2.6	0.4C	20		5.0		31m	600m	0	7	3	74-10N	DIP14a
107♦	S8H70A	TTL	NAND	3		2.6	0.4C	30		5		46m	600m	5	C	3	74-10N	TO-116
108♦	S54F10F	TTL	NAND	3		2.0	0.8			5.0		7.0n	300m	5	C	3	74-10N	DIP14b
109♦	S54H10F	TTL	NAND	3		2.0	0.8	10		5.0		150m		5	C	3	74-10N	DIP14b
110♦	S54LS10F	TTL	NAND	3		2.0	0.7			5.0		16m	0.3	5	C	3	74-10N	DIP14b

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	S54LS12F	TTL	NAND	3	OC	2.0	0.7			5.0		16m		5	C	3	74-12N	DIP14b
2♦	S54S10F	TTL	NAND	3		2.0	0.8	10		5.0		135m	0.4	5	C	3	74-10N	DIP14b
3♦	S5410F	TTL	NAND	3		2.0	0.8	10		5.0		82m	1.0 †	5	C	3	74-10N	DIP14b
4♦	S5412F	TTL	NAND	3	OC	2.0	0.8	10a		5.0		82n		5	C	3	74-12N	DIP14b
5♦	S8470A	TTL	NAND	3		3.4	.35C	9		5		17m	1.4	5	C	3	74-10N	TO-116
6♦	S8470F	TTL	NAND	3		3.4	.35C	9		5.0		17m	1.4	5	C	3	74-10N	DIP14a
7♦	S8471A	TTL	NAND	3	OC		.35C	9		5		17m	1.4	5	C	3	74-12N	TO-116
8♦	S8870A	TTL	NAND	3		2.6	0.4C	20		5		31m	600m	5	C	3	74-10N	TO-116
9♦	S8870F	TTL	NAND	3		2.6	0.4C	20		5.0		31m	600m	5	C	3	74-10N	DIP14a
10♦	SFC410E	TTL	NAND	3		2.0	0.8	10		5.0		10m	400m*	0	7	3	74-10N	TO-116
11♦	SFC410EM	TTL	NAND	3		2.0	0.8	10		5.0		1.0m†	400m*	5	C	3	74-10N	TO-116
12♦	SFC410ET	TTL	NAND	3		2.0	0.8	10		5.0		1.0m†	400m*	2	8	3	74-10N	TO-116
13♦	SFC410HE	TTL	NAND	3		2.0	0.8	20		5.0		60m†	400m	0	7	3	74-10N	TO-116
14♦	SFC410HEM	TTL	NAND	3		2.0	0.8	20		5.0		60m†	400m	5	C	3	74-10N	TO-116
15♦	SFC410LE	TTL	NAND	3		2.0	0.7	10		5.0		1.0m†	1.0	0	7	3	74-10N	TO-116
16♦	SFC410LEM	TTL	NAND	3		2.0	0.7	10		5.0		1.0m†	1.0	5	C	3	74-10N	TO-116
17♦	SFC410LPM	TTL	NAND	3		2.0	0.7	10		5.0		1.0m†	1.0	2	8	3	74-10N	TO-116
18♦	SFC962E	DTL	NAND	3		2.6	.45C	8		5.0		60m		0	7	3	74-10N	DIP14a
19♦	SN54LS10J	TTL	NAND	3		2.0	0.7			5.0		15n	0.3	5	C	3	74-10N	DIP14a
20▼	SN54LS10N	TTL	NAND	3		2.0	0.7			5.0		15n	0.3	5	C	3	74-10N	DIP14a
21♦	SN54LS12J	TTL	NAND	3	OC	2.0	0.7			5.0		32n	0.3	5	C	3	74-12N	DIP14a
22▼	SN54LS12N	TTL	NAND	3	OC	2.0	0.7			5.0		32n	0.3	5	C	3	74-12N	DIP14a
23♦	SN54S10J	TTL	NAND	3		2.0	0.8	20		5.0		135m	0.3	5	C	3	74-10N	DIP14a
24♦	SN74ALS12J	TTL	NAND	3	OC	2.0	0.8			5.0		35n		0	7	3	74-12N	DIP14a
25♦	SN74H10N	TTL	NAND	3		2.0	0.8	10		5.0		90m†	0.4	0	7	3	74-10N	DIP14a
26♦	SN74LS10J	TTL	NAND	3		2.0	0.8			5.0		15n	0.4	0	7	3	74-10N	DIP14a
27♦	SN74LS10N	TTL	NAND	3		2.0	0.8			5.0		15n	0.4	0	7	3	74-10N	DIP14a
28♦	SN74LS12D	TTL	NAND	3	OC	2.0	0.8			5.0		32n	0.4	0	7	3	74-12	FP147
29♦	SN74LS12J	TTL	NAND	3	OC	2.0	0.8			5.0		32n	0.4	0	7	3	74-12N	DIP14a
30♦	SN74LS12N	TTL	NAND	3	OC	2.0	0.8			5.0		32n	0.4	0	7	3	74-12N	DIP14a
31♦	SN74S10N	TTL	NAND	3		2.0	0.8	20		5.0		135m	0.3	0	7	3	74-10N	DIP14a
32♦	SN5410J	TTL	NAND	3		2.0	0.8	10		5.0		10m	0.4	5	C	3	74-10N	DIP14a
33♦	SN5412J	TTL	NAND	3	OC	2.0	0.8	10		5.0		82m	0.4	5	C	3	74-12N	DIP14a
34♦	SN7410N	TTL	NAND	3		2.0	0.8	10		5.0		10m	0.4	0	7	3	74-10N	DIP14a
35♦	SN7412N	TTL	NAND	3	OC	2.0	0.8	10		5.0		82m	0.4	0	7	3	74-12N	DIP14a
36♦	T54LS10D2	TTL	NAND	3		2.0	0.7	11d		5.0		16mQ	300m	5	C	3	74-10N	DIP14b
37♦	T74LS10B1	TTL	NAND	3		2.0	0.8	22d		5.0		16mQ	300m	0	7	3	74-10N	DIP14a
38♦	T74LS10D1	TTL	NAND	3		2.0	0.8	22d		5.0		16mQ	300m	0	7	3	74-10N	DIP14b
39♦	TC40H010P	CMS	NAND	3		4.0	1.0	50		10		300m	.95	4	8	3	74-10N	MO001AA
40♦	US74HCT10N(A)	CMS	NAND	3		2.0	0.8	10		5.0		500m	750m	4	8	3	74-10N	DIP14 ☑
41♦	54S10FM	TTL	NAND	3		2.0	0.8	10		5.0	3.0n	135m	1.0	5	C	3	54S10W	FP21h
42♦	DM74AS10J	TTL	NAND	3		2.0	0.8	50		5.0	4.5n		0.3	0	7	3	74-10	DIP14a
43♦	DM74AS10N	TTL	NAND	3		2.0	0.8	50		5.0	4.5n		0.3	0	7	3	74-10	DIP14a
44▼	SN74AS10D	TTL	NAND	3		2.0	0.8			5.0	4.5n		0.3	0	7	3	74-10N	FP147
45♦	SN74AS10N	TTL	NAND	3		2.0	0.8			5.0	4.5n		0.3	0	7	3	74-10N	DIP14a
46♦	DM54AS10J	TTL	NAND	3		2.0	0.8	50		5.0	5.0n		0.3	5	C	3	74-10	DIP14a
47	S54F10W	TTL	NAND	3		2.0	0.8		-0.5	5.0	5.0n			5	C	3	54-10W	FP153
48♦	S54S10W	TTL	NAND	3		2.0	0.8	10		5.0	5.0n	135m	0.4	5	C	3	54S10W	FP153
49♦	SN54AS10J	TTL	NAND	3		2.0	0.8			5.0	5.0n		0.3	5	C	3	74-10N	DIP14a
50♦	SN74S10D	TTL	NAND	3		2.0	0.8			5.0	5.0n		0.3	0	7	3	74-10	FP147
51♦	54LS10FM	TTL	NAND	3		2.0	0.7			5.0	6.0n	16mQ	300m	5	C	3	54S10W	TO-86
52♦	74F10L1C	TTL	NAND	3		2.0	0.8			5.0	6.0n			0	7	3	G04-543	LC19
53♦	74F10QC	TTL	NAND	3		2.0	0.8			5.0	6.0n			0	7	3	G04-543	LC26
54♦	74F10SC	TTL	NAND	3		2.0	0.8			5.0	6.0n			0	7	3	54S10	FP147
55♦	N8H70J	TTL	NAND	3		2.6	0.4C	30		5	6.0n	46m	600m	0	7	3	54S10W	TO-88
56♦	N74F10D	TTL	NAND	3		2.0	0.8			5.0	6.0n			0	7	3	74-10	FP147
57♦	N74F10F	TTL	NAND	3		2.0	0.8			5.0	6.0n			0	7	3	74-10N	DIP14a
58♦	N74F10N	TTL	NAND	3		2.0	0.8			5.0	6.0n			0	7	3	74-10	DIP14a
59♦	S8H70J	TTL	NAND	3		2.6	0.4C	30		5	6.0n	46m	600m	5	C	3	54S10W	TO-88
60♦	54F10FM	TTL	NAND	3		2.0	0.8	12		5.0	7.0n	39m		5	C	3	54S10W	FP115
61♦	54F10L1M	TTL	NAND	3		2.0	0.8			5.0	7.0n			5	C	3	G04-543	LC19
62♦	S54F10G	TTL	NAND	3		2.0	0.8			5.0	7.0n		300m	5	C	3	G04-543	LC24
63♦	DM54S10J	TTL	NAND	3		2.0	0.8	20		5.0	8.0n		0.3	5	C	3	54S10	DIP14a
64♦	PC54HC10D(A)	CMS	NAND	3		3.15	0.9	10		5.0	8.0n	500m	0.8	5	C	3	74-10	DIP14b
65♦	PC74HC10D(A)	CMS	NAND	3		3.15	0.9	10		5.0	8.0n	500m	0.8	4	8	3	74-10	DIP14b
66♦	54H10FM	TTL	NAND	3		2.0	0.8	10		5.0	10n	150m	1.0	5	C	3	54-10W	FP21h
67♦	9003FM	TTL	NAND	3		1.7	0.9	11		5.0	10n	33m†		5	C	3	54S10W	FP28b
68▼	HD74HC10FP	CMS	NAND	3		3.15	1.35			5.0	10n	500m	1.2	4	8	3	74-10N	FP161
69▼	HD74HC10P	CMS	NAND	3		3.15	1.35			5.0	10n	500m	1.2	4	8	3	74-10N	DIP14a
70♦	PC54HCT10D(A)	CMS	NAND	3		2.0	0.8	10		5.0	10n	500m	0.7	5	C	3	74-10	DIP14b
71♦	PC74HCT10D(A)	CMS	NAND	3		2.0	0.8	10		5.0	10n	500m	0.7	4	8	3	74-10	DIP14b
72♦	RG320CJ	TTL	NAND	3		3.2	0.4C	11		5.0	10n	66m†	1.0	5	C	3	4-00P	FP52j
73♦	RG320CK	TTL	NAND	3		3.2	0.4C	11		5.0	10n	66m†	1.0	5	C	3	4-00P	FP52k
74♦	RG320DC	TTL	NAND	3		3.2	0.4C	11		5.0	10n	66m†	1.0	5	C	3	4-00P	DIP14e
75♦	RG321CJ	TTL	NAND	3		3.2	0.4C	6		5.0	10n	66m†	1.0	5	C	3	4-00P	FP52j
76♦	RG321CK	TTL	NAND	3		3.2	0.4C	6		5.0	10n	66m†	1.0	5	C	3	4-00P	FP52k
77♦	RG321DC	TTL	NAND	3		3.2	0.4C	6		5.0	10n	66m†	1.0	5	C	3	4-00P	DIP14e
78♦	RG322CJ	TTL	NAND	3		3.1	0.4C	9		5.0	10n	66m†	1.0	0	7	3	4-00P	FP52j
79♦	RG322CK	TTL	NAND	3		3.1	0.4C	9		5.0	10n	66m†	1.0	0	7	3	4-00P	FP52k
80♦	RG322DC	TTL	NAND	3		3.1	0.4C	9		5.0	10n	66m†	1.0	0	7	3	4-00P	DIP14e
81♦	RG323CJ	TTL	NAND	3		3.1	0.4C	5		5.0	10n	66m†	1.0	0	7	3	4-00P	FP52j
82♦	RG323CK	TTL	NAND	3		3.1	0.4C	5		5.0	10n	66m†	1.0	0	7	3	4-00P	FP52k
83♦	RG323DC	TTL	NAND	3		3.1	0.4C	5		5.0	10n	66m†	1.0	0	7	3	4-00P	DIP14e
84♦	S54H10W	TTL	NAND	3		2.0	0.8	10		5.0	10n	150m		5	C	3	54-10W	FP39e
85♦	SFC410HP	TTL	NAND	3		2.0	0.8	20		5.0	10n	60m†	400m	0	7	3	54-10W	TO-85
86♦	SFC410HPM	TTL	NAND	3		2.0	0.8	20		5.0	10n	60m†	400m	5	C	3	54-10W	TO-85
87♦	DM74ALS10AJ	TTL	NAND	3		2.0	0.8	10		5.0	11n		0.3	0	7	3	74-10	DIP14a
88♦	DM74ALS10AN	TTL	NAND	3		2.0	0.8	10		5.0	11n		0.3	0	7	3	74-10	DIP14a
89♦	M74ALS10AP	TTL	NAND	3		2.0	0.8			5.0	11n	12m		2	7	3	74-10	DIP14a
90▼	SN74ALS10AD	TTL	NAND	3		2.0	0.8			5.0	11n		0.4	0	7	3	74-10	FP147
91♦	SN74ALS10AN	TTL	NAND	3		2.0	0.8			5.0	11n		0.4	0	7	3	74-10	DIP14a
92♦	DM54ALS10AJ	TTL	NAND	3		2.0	0.8	10		5.0	12n		0.4	5	C	3	74-10	DIP14a
93♦	N8870J	TTL	NAND	3		2.6	0.4C	20		5	13n	31m	600m	0	7	3	54S10W	TO-88
94♦	S8870J	TTL	NAND	3		2.6	0.4C	20		5	13n	31m	600m	5	C	3	54S10W	TO-88
95♦	SFC410PM	TTL	NAND	3		2.0	0.8	10		5.0	13n	30m†	400m	5	C	3	54-10W	ZB ☑
96♦	DM54LS10J	TTL	NAND	3		2.0	0.7	10		5.0	15n		0.3	5	C	3	74-10	DIP14a
97♦	DM74LS10N	TTL	NAND	3		2.0	0.8	10		5.0	15n		0.3	0	7	3	74-10	DIP14a
98♦	DN74LS10P1	TTL	NAND	3		2.0	0.8	20		5.0	15n	400m		2	7	3	74-10	DIP14a
99♦	DN74LS10P4	TTL	NAND	3		2.0	0.8	20		5.0	15n	400m		2	7	3	74-10	FP177
100▼	HD74LS10G	TTL	NAND	3		2.0	0.8			5.0	15n	400m	300m	2	7	3	74-10N	DIP14a
101♦	HD74LS10P	TTL	NAND	3		2.0	0.8			5.0	15n	400m	300m	2	7	3	74-10N	DIP14a
102♦	S54LS10G	TTL	NAND	3		2.0	0.7			5.0	15n	16m	0.3	5	C	3	G04-543	LC24
103♦	S54LS10W	TTL	NAND	3		2.0	0.7			5.0	15n	16m	0.3	5	C	3	54S10W	FP153
104♦	SN74LS10D	TTL	NAND	3		2.0	0.8			5.0	15n		0.4	0	7	3	74-10	FP147
105♦	M74HC10P	CMS	NAND	3		4.2	1.8			5.0	16n			4	8	3	74-10	DIP14a
106♦	SN54ALS10AJ	TTL	NAND	3		2.0	0.7			5.0	16n		0.3	5	C	3	74-10	DIP14a
107♦	M54HC10F1(A)	CMS	NAND	3		3.15	1.35	10		5.0	18n	500m	1.2	5	C	3	74-10	DIP14a
108♦	M74HC10B1(A)	CMS	NAND	3		3.15	1.35	10		5.0	18n	500m	1.2	4	8	3	74-10	DIP14a
109♦	M74HC10C1(A)	CMS	NAND	3		3.15	1.35	10		5.0	18n	500m	1.2	4	8	3	G04-543	LC33
110♦	M74HC10F1(A)	CMS	NAND	3		3.15	1.35	10		5.0	18n	500m	1.2	4	8	3	74-10	DIP14a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1	74HC10D	CMS	NAND	3		3.15	1.35	10		5.0	20n		1.2	4	8	3	54-10W	FP147
2♦	74HC10N	CMS	NAND	3		3.15	1.35	10		5.0	20n		1.2	4	8	3	54-10W	DIP14a
3♦	LC74HC10	CMS	NAND	3		3.5	1.5	10		5.0	20n	0.3	1.1	4	8	3	74-10	DIP14a
4♦	CD74HC10E	CMS	NAND	3		3.15	1.35	10		5.0	21n	500m	1.2	4	8	3	74-10N	MO001AB
5♦	CD74HC10M	CMS	NAND	3		3.15	1.35	10		5.0	21n	400m	1.2	4	8	3	74-10N	FP147
6♦	CD74HCT10E(A)	CMS	NAND	3		2.0	0.8	10		5.0	21n	500m	0.7	4	8	3	74-10N	MO001AB
7♦	CD74HCT10M	CMS	NAND	3		2.0	0.8	10		5.0	21n	400m	0.7	4	8	3	74-10N	FP147
8♦	5410FM	TTL	NAND	3		20	0.4	20		5.0	22n			5	C	3	54-10W	FP52
9♦	S5410W	TTL	NAND	3		2.0	0.8	10		5.0	22n	82m	1.0 †	5	C	3	54-10W	FP39e
10♦	UPD74HC10C(A)	CMS	NAND	3		4.2	1.2			5.0	22n	500m		4	8	3	74S10	MO001AA
11▼	TC74HC10F(A)	CMS	NAND	3		3.15	1.35	10d		5.0	23n	180m	1.3	4	8	3	74-10N	FP166
12♦	TC74HC10P(A)	CMS	NAND	3		3.15	1.35	10d		5.0	23n	500m	1.4	4	8	3	74-10N	MO001AA
13▼	SN74HC10D	CMS	NAND	3		3.15	0.9			5.0	24n			4	8	3	74-10N	FP147
14♦	SN74HC10N	CMS	NAND	3		3.15	0.9			5.0	24n			4	8	3	74-10N	MO001AA
15♦	DM5410W	TTL	NAND	3		2.0	0.8	10		5.0	25n	30m†	400m	5	C	3	54-10W	FP97a
16♦	CD54HC10F	CMS	NAND	3		3.15	1.35	10		5.0	26n	500m	1.2	5	C	3	74-10N	MO001AB
17♦	CD54HCT10F	CMS	NAND	3		2.0	0.8	10		5.0	26n	500m	0.7	5	C	3	74-10N	MO001AB
18♦	PC74HC10P	CMS	NAND	3		3.15	1.35	10		5.0	29n	500m	0.8	4	C	3	74-10	DIP14b
19♦	PC74HC10T	CMS	NAND	3		3.15	1.35	10		5.0	29n	300m	0.8	4	C	3	74-10	FP147
20♦	SN54HC10J	CMS	NAND	3		3.15	0.9			5.0	29n			5	C	3	74-10N	MO001AA
21	74HCT10D	CMS	NAND	3		2.0	0.8	10		5.0	30n		0.7	4	8	3	54-10W	FP147
22♦	74HCT10N	CMS	NAND	3		2.0	0.8	10		5.0	30n		0.7	4	8	3	54-10W	DIP14a
23▼	HD74LS12G	TTL	NAND	3	OC	2.0	0.8			5.0	32n	400m	300m	2	7	3	74-12P	DIP14a
24♦	HD74LS12P	TTL	NAND	3	OC	2.0	0.8			5.0	32n	400m	300m	2	7	3	74-12P	DIP14a
25♦	S54LS12W	TTL	NAND	3	OC	2.0	0.7			5.0	32n	16m		5	C	3	54-12W	FP39e
26♦	TC40H010F	CMS	NAND	3		4.0	1.0			10	32n	180m	.95	4	8	3	54-10W	FP166
27♦	PC74HCT10P	CMS	NAND	3		2.0	0.8	10		5.0	36n	500m	0.7	4	C	3	74-10	DIP14b
28♦	PC74HCT10T	CMS	NAND	3		2.0	0.8	10		5.0	36n	300m	0.7	4	C	3	74-10	FP147
29♦	CD4023AD	CMS	NAND	3		9.95	0.05C			15	40n	500m	4.5	5	C	3	40-23B	MO001AD
30♦	CD4023AF	CMS	NAND	3		9.95	0.05C			15	40n	500m	4.5	5	C	3	40-23B	MO001AB
31♦	CD4023MJ	CMS	NAND	3		9.99	.01C			10	40n	500m	4.5	5	C	3	40-23B	DIP14a
32♦	CD4023MW	CMS	NAND	3		9.99	.01C			10	40n	500m	4.5	5	C	3	40-23B	FP97c
33♦	CM4023AD	CMS	NAND	3		10	0C			10	40n	200m	4.5	5	C	3	40-23B	DIP14a
34♦	HBC4023AD	CMS	NAND	3		10	0C			10	40n	1.0uQ	4.5	5	C	3	40-23B	MO001AD
35♦	HBC4023AF	CMS	NAND	3		10	0C			10	40n	1.0uQ	4.5	5	C	3	40-23B	MO001AD
36♦	HBC4023AK	CMS	NAND	3		10	0C			10	40n	1.0uQ	4.5	5	C	3	40-23B	MO004AF
37♦	MC14023UBAL	CMS	NAND	3		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	3	40-23B	DIP14a
38▼	MC14023UBALD	CMS	NAND	3		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	3	40-23B	DIP14a
39▼	MC14023UBALDS	CMS	NAND	3		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	3	40-23B	DIP14a
40▼	MC14023UBALS	CMS	NAND	3		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	3	40-23B	DIP14a
41♦	MC14023UBCL	CMS	NAND	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-23B	DIP14a
42▼	MC14023UBCLD	CMS	NAND	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-23B	DIP14a
43▼	MC14023UBCLDS	CMS	NAND	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-23B	DIP14a
44▼	MC14023UBCLS	CMS	NAND	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-23B	DIP14a
45♦	MC14023UBCP	CMS	NAND	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-23B	DIP14a
46▼	MC14023UBCPD	CMS	NAND	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-23B	DIP14a
47▼	MC14023UBCPDS	CMS	NAND	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-23B	DIP14a
48▼	MC14023UBCPS	CMS	NAND	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-23B	DIP14a
49▼	MC14023UBD	CMS	NAND	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-23B	DIP14a
50♦	SFF24023AEV	CMS	NAND	3		9.99	.01C			10	40n	200m	3.0 *	4	8	3	40-23B	TO-116
51♦	SFF24023AKM	CMS	NAND	3		9.99	.01C			10	40n	200m	3.0 *	5	C	3	40-23B	TO-116
52♦	5412FM	TTL	NAND	3	OC	2.0	0.8	10		5.0	45n			5	C	3	54-12W	FP52
53♦	HEF4023	CMS	NAND	3		11	4.0	16e		15	45n	400m	6.7	4	8	3	40-23B	DL Ø
54♦	S5412W	TTL	NAND	3	OC	2.0	0.8	10a		5.0	45n	82n		5	C	3	54-12W	FP39e
55♦	SP377A	DTL	NAND	3		3.5	0.4C	12		5.0	45n	135mt	1.2	0	7	3	G04-400b	DIP14a
56♦	4023BDC	CMS	NAND	3		11	4.0	25e		15	48n	450uQ	6.7	4	8	3	40-23B	TO-116
57♦	4023BDM	CMS	NAND	3		11	4.0	25e		15	48n	450uQ	6.7	5	C	3	40-23B	TO-116
58♦	4023BFC	CMS	NAND	3		11	4.0	25e		15	48n	450uQ	6.7	4	8	3	40-23B	FP21h
59♦	4023BFM	CMS	NAND	3		11	4.0	25e		15	48n	450uQ	6.7	5	C	3	40-23B	FP21h
60♦	4023BPC	CMS	NAND	3		11	4.0	25e		15	48n	450uQ	6.7	4	8	3	40-23B	DIP14a
61♦	963FM	DTL	NAND	3		1.9	1.1			5.0	50n	25mt	1.0	5	C	3	54S10W	FP28c
62♦	CD4023AE	CMS	NAND	3		9.95	0.05C			15	50n	500m	4.5	4	8	3	40-23B	MO001AB
63♦	CD4023CJ	CMS	NAND	3		9.99	.01C			10	50n	500m	4.5	4	8	3	40-23B	DIP14a
64♦	CD4023CN	CMS	NAND	3		9.99	.01C			10	50n	500m	4.5	4	8	3	40-23B	DIP14a
65♦	CM4023AE	CMS	NAND	3		10	0C			10	50n	200m	4.5	4	8	3	40-23B	DIP14a
66♦	HBF4023AE	CMS	NAND	3		10	0C			10	50n	50uQ	4.5	4	8	3	40-23B	MO001AB
67♦	HBF4023AF	CMS	NAND	3		10	0C			10	50n	50uQ	4.5	4	8	3	40-23B	MO001AD
68♦	HEF4023BD	CMS	NAND	3		7.0	3.0			10	50n	400m		4	8	3	40-23B	DIP14a
69♦	HEF4023BP	CMS	NAND	3		7.0	3.0			10	50n	500m		4	8	3	40-23B	DIP14a
70♦	HEF4023BT	CMS	NAND	3		7.0	3.0			10	50n	400m		4	8	3	40-23B	FP147
71♦	MM4623AD	CMS	NAND	3		4.99	.01C			5.0	50n	500m	450m	5	C	3	40-23B	DIP14a
72♦	MM4623AF	CMS	NAND	3		4.99	.01C			5.0	50n	500m	450m	5	C	3	40-23B	FP97b
73♦	MM5623AN	CMS	NAND	3		4.99	.01C			5.0	50n	500m	450m	4	8	3	40-23B	DIP14a
74♦	M74ALS12AP	TTL	NAND	3	OC	2.0	0.8			5.0	54n	12m		2	7	3	74-12	DIP14a
75▼	SN74ALS12AD	TTL	NAND	3	OC	2.0	0.8			5.0	54n		0.4	0	7	3	74-12	FP147
76♦	SN74ALS12AN	TTL	NAND	3	OC	2.0	0.8			5.0	54n		0.4	0	7	3	74-12	DIP14a
77♦	SN54ALS12AJ	TTL	NAND	3	OC	2.0	0.7			5.0	59n		0.3	5	C	3	74-12	DIP14a
78♦	CD4023UBD	CMS	NAND	3		7.0	3.0	18e		15	60n	500m	1.9	5	C	3	40-23B	MO001AD
79♦	CD4023UBE	CMS	NAND	3		7.0	3.0	18e		15	60n	500m	1.9	4	8	3	40-23B	MO001AB
80♦	CD4023UBF	CMS	NAND	3		7.0	3.0	18e		15	60n	500m	1.9	5	C	3	40-23B	MO001AB
81♦	DM54L10W	TTL	NAND	3		2.0	0.7	3		8.0	60n		0.4	5	C	3	54-10W	FP97c
82♦	HEF4023P	CMS	NAND	3		7.0	3.0			10	60n	50uQ	4.5	4	8	3	40-23B	TO-116
83♦	SP670A	DTL	NAND	3				8		4.5	60n	60mt	2.0	0	7	3	G04-89h	DIP14a
84♦	CD4023BCJ	CMS	NAND	3		11	4.0	16e		15	70n	500m	6.7	4	8	3	40-23B	DIP14a
85♦	CD4023BCN	CMS	NAND	3		11	4.0	16e		15	70n	500m	6.7	4	8	3	40-23B	DIP14a
86♦	CD4023BMJ	CMS	NAND	3		11	4.0	19e		15	70n	15uQ	6.7	5	C	3	40-23B	DIP14a
87♦	CD4023BMW	CMS	NAND	3		11	4.0	19e		15	70n	15uQ	6.7	5	C	3	40-23B	FP97c
88♦	MN4023B	CMS	NAND	3		11.0	4.0			15	75n	400m	3.9	4	8	3	40-23B	DIP14a
89♦	962FM	DTL	NAND	3		1.7	1.4	10		5.0	80n	25mt	1.0	5	C	3	54S10W	FP28g
90♦	9962FM	DTL	NAND	3		1.7	1.4	10		5.0	80n	25mt	1.0	5	C	3	54S10W	FP28g
91♦	883C4023B	CMS	NAND	3		8.21	6.7			15	90n	300m		5	C	3	40-23B	MO001AA
92♦	BCL4023B	CMS	NAND	3		11.0	4.0			15	90n	300m		5	C	3	40-23B	MO001AA
93♦	HCC4023BD	CMS	NAND	3		11	4.0			15	90n	200m	2.5 *	5	C	3	40-23B	DIP14a
94♦	HCC4023BF	CMS	NAND	3		11	4.0			15	90n	200m	2.5 *	5	C	3	40-23B	DIP14a
95♦	HCC4023BK	CMS	NAND	3		11	4.0			15	90n	200m	2.5 *	5	C	3	40-23B	FP130
96♦	HCF4023BE	CMS	NAND	3		11	4.0			15	90n	200m	2.5 *	4	8	3	40-23B	DIP14a
97♦	HCF4023BF	CMS	NAND	3		11	4.0			15	90n	200m	2.5 *	4	8	3	40-23B	DIP14a
98♦	MB84023B	CMS	NAND	3		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	3	40-23B	DIP14b
99♦	MB84023BM	CMS	NAND	3		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	3	40-23B	DIP14a
100♦	UPD4023BG	CMS	NAND	3		11.0	4.0			15	90n	200m	3.9	4	8	3	40-23	FP161
101♦	N8470J	TTL	NAND	3		3.4	.35C	9		5	95n	17m	1.4	0	7	3	54S10W	TO-88
102♦	S8470J	TTL	NAND	3		3.4	.35C	9		5	95n	17m	1.4	5	C	3	54S10W	TO-88
103♦	9962FC	DTL	NAND	3		1.8	1.2	10		5.0	100n	25mt	1.0	0	7	3	54S10W	FP28g
104♦	E303D2	DTL	NAND	3		1.7	0.9	10		5.0	100n	3.0mt	450m	5	C	3	54S10W	FP28c
105♦	E303D7	DTL	NAND	3		1.7	0.9	10		5.0	100n	3.0mt	450m	2	A	3	54S10W	FP28c
106♦	MC14023BAL	CMS	NAND	3		11	4.0	50		15	100n	15uQ	2.5 *	5	C	3	40-23B	TO-116
107▼	MC14023BALD	CMS	NAND	3		11	4.0	50		15	100n	15uQ	2.5 *	5	C	3	40-23B	TO-116
108▼	MC14023BALDS	CMS	NAND	3		11	4.0	50		15	100n	15uQ	2.5 *	5	C	3	40-23B	TO-116
109▼	MC14023BALS	CMS	NAND	3		11	4.0	50		15	100n	15uQ	2.5 *	5	C	3	40-23B	TO-116
110♦	MC14023BCL	CMS	NAND	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-23B	TO-116

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	MC14023BCLD	CMS	NAND	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-23B	TO-116
2▼	MC14023BCLDS	CMS	NAND	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-23B	TO-116
3♦	MC14023BCP	CMS	NAND	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-23B	TO-116
4▼	MC14023BCPD	CMS	NAND	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-23B	TO-116
5▼	MC14023BCPDS	CMS	NAND	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-23B	TO-116
6▼	MC14023BCPS	CMS	NAND	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-23B	TO-116
7▼	MC14023BD	CMS	NAND	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-23B	TO-116
8♦	4023A	CMS	NAND	3		7.1	2.9	2		10	110n	200m		4	8	3	40-23B	DIP14a
9▼	MC671L	DTL	NAND	3		13	1.5C	10		15	110n	132m†		3	7	3	6-70P	TO-116
10▼	MC671P	DTL	NAND	3		13	1.5C	10		15	110n	132m†		3	7	3	6-70P	DIP14a
11♦	CD4023BD	CMS	NAND	3		7.0	3.0			15	120n	500m	2.9	5	C	3	40-23B	MO001AD
12♦	CD4023BE	CMS	NAND	3		7.0	3.0			15	120n	500m	2.9	4	8	3	40-23B	MO001AB
13♦	CD4023BF	CMS	NAND	3		7.0	3.0			15	120n	500m	2.9	5	C	3	40-23B	MO001AB
14▼	MC670L	DTL	NAND	3		13	1.5C	10		15	125n	132m†		3	7	3	6-70P	TO-116
15▼	MC670P	DTL	NAND	3		13	1.5C	10		15	125n	132m†		3	7	3	6-70P	DIP14a
16♦	SCL4023B	CMS	NAND	3		7.0	3.0	50		15	125n	300m	3.0	5	C	3	40-23B	MO001AA
17♦	MSM4023	CMS	NAND	3		7.2	2.0	16e		10	150n	300uQ	2.0 *	2	7	3	40-23B	DIP14a
18♦	N8471J	TTL	NAND	3			.35C	9		5	150n	17m	1.4	0	7	3	54-12W	TO-88
19♦	S8471J	TTL	NAND	3			.35C	9		5	150n	17m	1.4	5	C	3	54-12W	TO-88
20♦	LC4023B	CMS	NAND	3		11.0	4.0			15	160n	300m	3.9	4	8	3	40-23B	DIP14a
21♦	M4023BP	CMS	NAND	3		11	4.0			15	160n	500m	4.0	4	8	3	40-23B	DIP14a
22♦	TC4023BP	CMS	NAND	3		14.9	.05C	50		15	160n	300m	4.0	4	8	3	40-23B	DIP14a
23♦	H103D1	DTL	NAND	3		8.0	6.0	25		15	250n	450m	5.0	0	7	3	G04-432a	DIP14b
24♦	H103D2	DTL	NAND	3		8.0	6.0	25		16	250n	288m	5.0	5	C	3	G04-432a	DIP14b
25♦	H103D6	DTL	NAND	3		8.0	6.0	25		16	250n	288m	5.0	4	8	3	G04-432a	DIP14
26♦	H203B1	DTL	NAND	3		8.0	6.0	25		16	250n	500m	5.0	0	7	3	G04-432a	TO-116
27♦	K176LA9	MOS	NAND	3		8.2	0.3	50		9.0	250n		0.9	1	7	3	40-23	None
28♦	MSM4023RS	CMS	NAND	3		3.6	1.0	40		5.0	300n	200m	0.6	4	8	3	40-23B	DIP14 ☑
29♦	FZH211		NAND	3		7.5	4.5	10		12	125n	81m	5.0	0	7	4	G04-448	DIP16a
30♦	FZH215B	DTL	NAND	3	TS	30	4.5	10		12	125n	81m	5.0	2	8	4	G04-448	DIP16a
31♦	FZH111	DTL	NAND	3		7.5	4.5	10		12	310n	124m	5.0	0	7	4	G04-428a	DIP16a
32♦	FZH111A	DTL	NAND	3		7.5	4.5	10		12	310n	124m	5.0	0	7	4	G04-428a	DIP16a
33♦	FZH115B	DTL	NAND	3	TS	30	4.5	10		12	310n	124m	5.0	2	8	4	G04-428a	DIP16a
34♦	54H22DM	TTL	NAND	4	OC	2.0	0.8	10		5.0		100m	1.0	5	C	2	74-22N	TO-116
35♦	54LS20DM	TTL	NAND	4		2.0	0.7			5.0		11mQ	0.5	5	C	2	74-20	TO-116
36♦	54S20DM	TTL	NAND	4		2.0	0.8	10		5.0		38m†	0.5	5	C	2	74-20	TO-116
37♦	54S22DM	TTL	NAND	4	OC	2.0	0.8	10		5.0		34m†	1.0	5	C	2	74-22N	TO-116
38♦	74H22DC	TTL	NAND	4	OC	2.0	0.8	10		5.0		100m	1.0	0	7	2	74-22N	TO-116
39♦	74H22PC	TTL	NAND	4	OC	2.0	0.8	10		5.0		100m	1.0	0	7	2	74-22N	DIP14a
40♦	74LS22PC	TTL	NAND	4	OC	2.0	0.8	5		5.0		11mQ	300m	0	7	2	74-22N	TO-116
41♦	74S22DC	TTL	NAND	4	OC	2.0	0.8	10		5.0		34m†	1.0	0	7	2	74-22N	TO-116
42♦	74S22PC	TTL	NAND	4	OC	2.0	0.8	10		5.0		34m†	1.0	0	7	2	74-22N	DIP14a
43♦	930DM	DTL	NAND	4		1.7	1.4	10		5.0		17m†	1.0	5	C	2	9-30	DIP14b
44♦	930FM	DTL	NAND	4		1.7	1.4	10		5.0		17m†	1.0	5	C	2	9-30	FP28g
45♦	930HM	DTL	NAND	4		2.6	0.4C	27		8.0		17m	1.0	5	C	2	9-30	FP28
46♦	932DM	DTL	NAND	4		1.7	1.4	10		5.0		17m†	1.0	5	C	2	9-30	DIP14b
47♦	932FM	DTL	NAND	4		1.7	1.4	10		5.0		17m†	1.0	5	C	2	9-30	FP28g
48♦	932HM	DTL	NAND	4		2.6	0.4C	8		8.0		17m	1.0	5	C	2	9-30	TO-100
49♦	944DM	DTL	NAND	4	XI	1.7	1.4	10		5.0		17m†	1.0	5	C	2	9-44	DIP14b
50♦	944FM	DTL	NAND	4	XI	1.7	1.4	10		5.0		17m†	1.0	5	C	2	9-44	FP28g
51♦	944HM	DTL	NAND	4	XI	2.6	0.4C	27		8.0		17m	1.0	5	C	2	9-44	TO-100
52♦	961DC	DTL	NAND	4		2.6	0.4C	7		5.0		17m	1.0	0	7	2	9-30	TO-116
53♦	961DM	DTL	NAND	4		1.9	1.1			5.0		17m†	1.0	5	C	2	9-30	DIP14a
54♦	961FM	DTL	NAND	4		1.9	1.1			5.0		17m†	1.0	5	C	2	9-30	FP28c
55♦	5422DM	TTL	NAND	4	OC	2.0	0.4	12		5.0		45n		5	C	2	74-22N	DIP14a
56♦	7422DC	TTL	NAND	4	OC	2.0	0.4	12		5.0		45n		0	7	2	74-22N	DIP14a
57♦	7422PC	TTL	NAND	4	OC	2.0	0.4	12		5.0		45n		0	7	2	74-22N	DIP14a
58♦	9930BC	DTL	NAND	4		1.8	1.2	10		5.0		17m†	1.0	0	7	2	9-30	DIP14a
59♦	9930DC	DTL	NAND	4		1.8	1.2	10		5.0		17m†	1.0	0	7	2	9-30	DIP14b
60♦	9930DM	DTL	NAND	4		1.7	1.4	10		5.0		17m†	1.0	5	C	2	9-30	DIP14b
61♦	9930FC	DTL	NAND	4		1.8	1.2	10		5.0		17m†	1.0	0	7	2	9-30	FP28g
62♦	9930FM	DTL	NAND	4		1.7	1.4	10		5.0		17m†	1.0	5	C	2	9-30	FP28g
63♦	9932BC	DTL	NAND	4		1.8	1.2	10		5.0		17m†	1.0	0	7	2	9-30	DIP14a
64♦	9932DC	DTL	NAND	4		1.8	1.2	10		5.0		17m†	1.0	0	7	2	9-30	DIP14b
65♦	9932DM	DTL	NAND	4		1.7	1.4	10		5.0		17m†	1.0	5	C	2	9-30	DIP14b
66♦	9932FC	DTL	NAND	4		1.8	1.2	10		5.0		17m†	1.0	0	7	2	9-30	FP28g
67♦	9932FM	DTL	NAND	4		1.7	1.4	10		5.0		17m†	1.0	5	C	2	9-30	FP28g
68♦	9944BC	DTL	NAND	4	XI	1.8	1.2	10		5.0		17m†	1.0	0	7	2	9-44	DIP14a
69♦	9944DC	DTL	NAND	4	XI	1.8	1.2	10		5.0		17m†	1.0	0	7	2	9-44	DIP14b
70♦	9944DM	DTL	NAND	4	XI	1.7	1.4	10		5.0		17m†	1.0	5	C	2	9-44	DIP14b
71♦	9944FC	DTL	NAND	4	XI	1.8	1.2	10		5.0		17m†	1.0	0	7	2	9-44	FP28g
72♦	9944FM	DTL	NAND	4	XI	1.7	1.4	10		5.0		17m†	1.0	5	C	2	9-44	FP28g
73♦	DM54ALS20AJ	TTL	NAND	4		2.0	0.8	10		5.0		13n	0.4	5	C	2	74-20	DIP14a
74♦	DM54ALS22J	TTL	NAND	4	OC	2.0	0.8	10		5.0		50n	0.4	5	C	2	74-22	DIP14a
75♦	DM54AS20J	TTL	NAND	4		2.0	0.8	50		5.0		5.5n	0.3	5	C	2	74-20	DIP14a
76♦	DM54LS20J	TTL	NAND	4		2.0	0.7	10		5.0		15n	0.3	5	C	2	74-20	DIP14a
77♦	DM54LS22J	TTL	NAND	4	OC	2.0	0.7	10		5.0		45n	0.3	5	C	2	74-22	DIP14a
78♦	DM74ALS20AJ	TTL	NAND	4		2.0	0.8	10		5.0		11n	0.3	0	7	2	74-20	DIP14a
79♦	DM74ALS20AN	TTL	NAND	4		2.0	0.8	10		5.0		11n	0.3	0	7	2	74-20	DIP14a
80♦	DM74ALS22BJ	TTL	NAND	4	OC	2.0	0.8	10		5.0		45n	0.3	0	7	2	74-22	DIP14a
81♦	DM74ALS22BN	TTL	NAND	4	OC	2.0	0.8	10		5.0		45n	0.3	0	7	2	74-22	DIP14a
82♦	DM74AS20J	TTL	NAND	4		2.0	0.8	50		5.0		5.0n	0.3	0	7	2	74-20	DIP14a
83♦	DM74AS20N	TTL	NAND	4		2.0	0.8	50		5.0		5.0n	0.3	0	7	2	74-20	DIP14a
84♦	DM74H22N	TTL	NAND	4	OC	2.0	0.8	10		5.0		100m		0	7	2	74-22N	DIP14a
85♦	DM74LS20N	TTL	NAND	4		2.0	0.8	10		5.0		15n	0.3	0	7	2	74-20	DIP14a
86♦	DM74LS22N	TTL	NAND	4	OC	2.0	0.8	10		5.0		45n	0.3	0	7	2	74-22	DIP14a
87♦	DM74S22N	TTL	NAND	4	OC	2.0	0.8	10		5.0		34m†		0	7	2	74-22N	DIP14a
88♦	DN74LS20P1	TTL	NAND	4		2.0	0.8	20		5.0		400n		2	7	2	74-20	DIP14a
89♦	DN74LS20P4	TTL	NAND	4		2.0	0.8	20		5.0		400m	700m	2	7	2	74-20	FP177
90♦	DN74LS22P1	TTL	NAND	4	OC	2.0	0.8	20		5.0		400m		2	7	2	74-22	DIP14a
91♦	DN74LS22P4	TTL	NAND	4	OC	2.0	0.8	20		5.0		400m		2	7	2	74-22	FP177
92♦	E304D2	DTL	NAND	4		1.7	0.9	10		5.0		2.0m†	450m	5	C	2	9-30	FP28c
93♦	E304D7	DTL	NAND	4		1.7	0.9	10		5.0		2.0m†	450m	2	A	2	9-30	FP28c
94♦	E304F2	DTL	NAND	4		1.7	0.9	10		5.0		2.0m†	450m	5	C	2	9-30	DIP14a
95♦	E304F7	DTL	NAND	4		1.7	0.9	10		5.0		2.0m†	450m	2	A	2	9-30	DIP14a
96♦	H124D1	DTL	NAND	4	XI	8.0	6.0	25		15		300m	5.0	0	7	2	9-44	DIP14b
97♦	H124D2	DTL	NAND	4	XI	8.0	6.0	25		16		192m	5.0	5	C	2	9-44	DIP14b
98♦	H124D6	DTL	NAND	4	XI	8.0	6.0	25		16		192m	5.0	4	8	2	9-44	DIP14
99♦	H224B1	DTL	NAND	4	XI	8.0	6.0	25		16		500m	5.0	0	7	2	9-44	TO-116
100♦	K155LP7	TTL	NAND	4		2.4	0.4			5.0				1	7	2	None	None
101♦	M54HC20F1(A)	CMS	NAND	4		3.15	1.35	10		5.0		500m	1.2	5	C	2	74-20	DIP14a
102♦	M74ALS22AP	TTL	NAND	4	OC	2.0	0.8			5.0		8.3m	0.4	2	7	2	74-22N	DIP14a
103♦	M74HC20B1(A)	CMS	NAND	4		3.15	1.35	10		5.0		500m	1.2	4	8	2	74-20	DIP14a
104♦	M74HC20F1(A)	CMS	NAND	4		3.15	1.35	10		5.0		500m	1.2	4	8	2	74-20	DIP14a
105♦	M74HC20P	CMS	NAND	4		4.2	1.8			5.0		15n		4	8	2	74-20	DIP14a
106♦	M74LS22P	TTL	NAND	4	OC	2.0	0.8	20		5.0		4.0m†	0.4	2	7	2	74-22N	DIP14a
107♦	MB74LS22	TTL	NAND	4	OC	2.0	0.8	20		5.0		11m	1.0 *	2	7	2	74-22N	DIP14a
108♦	MB74LS22M	TTL	NAND	4	OC	2.0	0.8	20		5.0		11m	1.0 *	2	7	2	74-22N	DIP14a
109♦	MB402	TTL	NAND	4	OC	2.0	0.8	10		5.0		20m†		0	7	2	74-22N	DIP14b
110♦	MB402M	TTL	NAND	4	OC	2.0	0.8	10		5.0		20m†		0	7	2	74-22N	DIP14b

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1▼	MC669L	DTL	NAND	4		12.5	1.5C	10		15				3	7	2	6-69P	TO-116
2▼	MC669P	DTL	NAND	4		12.5	1.5C	10		15				3	7	2	6-69P	DIP14a
3▼	MC830L	DTL	NAND	4		2.6	.45C	8		5.0		22m†		0	7	2	9-30	TO-116
4▼	MC830P	DTL	NAND	4		2.6	.45C	8		5.0		22m†		0	7	2	9-30	DIP14a
5▼	MC832L	DTL	NAND	4		2.6	.45C	25		5.0		85m†		0	7	2	9-30	TO-116
6▼	MC832P	DTL	NAND	4		2.6	.45C	25		5.0		85m†		0	7	2	9-30	DIP14a
7▼	MC844L	DTL	NAND	4	XI	2.6	.45	27		5.0		65m†		0	7	2	9-44	TO-116
8▼	MC844P	DTL	NAND	4	XI	2.6	.45	27		5.0		65m†		0	7	2	9-44	DIP14a
9▼	MC861L	DTL	NAND	4		2.6	.45C	7		5.0		33m†		0	7	2	9-30	TO-116
10▼	MC861P	DTL	NAND	4		2.6	.45C	7		5.0		33m†		0	7	2	9-30	DIP14a
11♦	MC930L	DTL	NAND	4		2.6	0.4	8		5.0		22m†		5	C	2	9-30	TO-116
12♦	MC932L	DTL	NAND	4		2.6	0.4	25		5.0		85m†		5	C	2	9-30	TO-116
13♦	MC944L	DTL	NAND	4	XI	2.6	0.4	27		5.0		65m†		5	C	2	9-44	TO-116
14♦	MC961L	DTL	NAND	4		2.6	0.4	7		5.0		33m†		5	C	2	9-30	TO-116
15♦	N74H22F	TTL	NAND	4	OC	2.0	0.8	10		5.0		100m		0	7	2	74-22N	DIP14b
16♦	N74H22N	TTL	NAND	4	OC	2.0	0.8	10		5.0		100m		0	7	2	74-22N	DIP14a
17♦	N74LS22F	TTL	NAND	4	OC	2.0	0.8	20		5.0		11m		0	7	2	74-22N	DIP14b
18♦	N74LS22N	TTL	NAND	4	OC	2.0	0.8	20		5.0		11m		0	7	2	74-22N	DIP14a
19♦	N74S22F	TTL	NAND	4	OC	2.0	0.8	10		5.0		90m	1.0 †	0	7	2	74-22N	DIP14b
20♦	N74S22N	TTL	NAND	4	OC	2.0	0.8	10		5.0		90m		0	7	2	74-22N	DIP14a
21♦	N8415A	DTL	NAND	4	OC		.35C	9		5		23m	1.4	0	7	2	74-22N	TO-116
22♦	N8415F	DTL	NAND	4	OC		.35C	9		5.0		23m	1.4	0	7	2	74-22N	DIP14a
23♦	N8416A	DTL	NAND	4		3.4	.35C	9		5		25m	1.4	0	7	2	9-30	TO-116
24♦	N8416F	DTL	NAND	4		3.4	.35C	9		5.0		25m	1.4	0	7	2	9-30	DIP14a
25♦	N8416J	DTL	NAND	4		3.4	.35C	9		5		25m	1.4	0	7	2	9-30	TO-88
26♦	PC54HC20D(A)	CMS	NAND	4		3.15	0.9	10		5.0		500m	0.8	5	C	2	74-20	DIP14b
27♦	PC54HCT20D(A)	CMS	NAND	4		2.0	0.8	10		5.0		500m	0.7	5	C	2	74-20	DIP14b
28♦	PC74HC20D(A)	CMS	NAND	4		3.15	0.9	10		5.0		500m	0.8	4	8	2	74-20	DIP14b
29♦	PC74HCT20D(A)	CMS	NAND	4		2.0	0.8	10		5.0		500m	0.7	4	8	2	74-20	DIP14b
30♦	S54H22F	TTL	NAND	4	OC	2.0	0.8	10		5.0		100m		5	C	2	74-22N	DIP14b
31♦	S54LS22F	TTL	NAND	4	OC	2.0	0.7			5.0		11m		5	C	2	74-22N	DIP14b
32♦	S54S22F	TTL	NAND	4	OC	2.0	0.8	10		5.0		90m	1.0 †	5	C	2	74-22N	DIP14b
33♦	S8415A	DTL	NAND	4	OC		.35C	9		5		23m	1.4	5	C	2	74-22N	TO-116
34♦	S8415F	DTL	NAND	4	OC		.35C	9		5.0		23m	1.4	5	C	2	74-22N	DIP14a
35♦	S8416A	DTL	NAND	4		3.4	.35C	9		5		25m	1.4	5	C	2	9-30	TO-116
36♦	S8416F	DTL	NAND	4		3.4	.35C	9		5.0		25m	1.4	5	C	2	9-30	DIP14a
37♦	S8416J	DTL	NAND	4		3.4	.35C	9		5		25m	1.4	5	C	2	9-30	TO-88
38♦	SFC930E	DTL	NAND	4		2.6	.45C	8		5.0		40m		0	7	2	9-30	DIP14a
39♦	SFC932E	DTL	NAND	4		2.6	.45C	25		5.0		150m		0	7	2	9-30	DIP14a
40♦	SFC944E	DTL	NAND	4	XI	2.6	.45C			5.0		100m		0	7	2	9-44	DIP14a
41♦	SN54LS22J	TTL	NAND	4	OC	2.0	0.7			5.0		32n	0.3	5	C	2	74-22N	DIP14a
42▼	SN54LS22N	TTL	NAND	4	OC	2.0	0.7			5.0		32n	0.3	5	C	2	74-22N	DIP14a
43♦	SN54S22J	TTL	NAND	4	OC	2.0	0.8	10		5.0		34m†	0.3	5	C	2	74-22N	DIP14a
44♦	SN74LS22J	TTL	NAND	4	OC	2.0	0.8			5.0		32n	0.4	0	7	2	74-22N	DIP14a
45♦	SN74LS22N	TTL	NAND	4	OC	2.0	0.8			5.0		32n	0.4	0	7	2	74-22N	DIP14a
46♦	SN74S22D	TTL	NAND	4	OC	2.0	0.8			5.0		7.5n	0.3	0	7	2	74-22	FP147
47♦	SN74S22N	TTL	NAND	4	OC	2.0	0.8	10		5.0		34m†	0.3	0	7	2	74-22N	DIP14a
48♦	SN5422J	TTL	NAND	4	OC	2.0	0.8	10		5.0		55m	0.4	5	C	2	74-22N	DIP14a
49♦	SN7422N	TTL	NAND	4	OC	2.0	0.8	10		5.0		55m	0.4	0	7	2	74-22N	DIP14a
50♦	T54LS22D2	TTL	NAND	4	OC	2.0	0.7			5.0		11mQ	300m	5	C	2	74-22N	DIP14b
51♦	T74LS22B1	TTL	NAND	4	OC	2.0	0.8	5		5.0		11mQ	300m	0	7	2	74-22N	DIP14a
52♦	T74LS22D1	TTL	NAND	4	OC	2.0	0.8	5		5.0		11mQ	300m	0	7	2	74-22N	DIP14b
53♦	RG170CJ	TTL	NAND	4		3.4	0.2			5.0	1.0n	10m†	1.1	5	C	2	G06-56	FP52j
54♦	RG170CK	TTL	NAND	4		3.4	0.2			5.0	1.0n	10m†	1.1	5	C	2	G06-56	FP52k
55♦	RG170DC	TTL	NAND	4		3.4	0.2			5.0	1.0n	10m†	1.1	5	C	2	G06-56	DIP14e
56♦	RG171CJ	TTL	NAND	4		3.4	0.2			5.0	1.0n	10m†	1.1	5	C	2	G06-56	FP52j
57♦	RG171CK	TTL	NAND	4		3.4	0.2			5.0	1.0n	10m†	1.1	5	C	2	G06-56	FP52k
58♦	RG171DC	TTL	NAND	4		3.4	0.2			5.0	1.0n	10m†	1.1	5	C	2	G06-56	DIP14e
59♦	RG172CJ	TTL	NAND	4		3.4	0.2			5.0	1.0n	10m†	1.1	0	7	2	G06-56	FP52j
60♦	RG172CK	TTL	NAND	4		3.4	0.2			5.0	1.0n	10m†	1.1	0	7	2	G06-56	FP52k
61♦	RG172DC	TTL	NAND	4		3.4	0.2			5.0	1.0n	10m†	1.1	0	7	2	G06-56	DIP14e
62♦	RG173CJ	TTL	NAND	4		3.4	0.2			5.0	1.0n	10m†	1.1	0	7	2	G06-56	FP52j
63♦	RG173CK	TTL	NAND	4		3.4	0.2			5.0	1.0n	10m†	1.1	0	7	2	G06-56	FP52k
64♦	RG173DC	TTL	NAND	4		3.4	0.2			5.0	1.0n	10m†	1.1	0	7	2	G06-56	DIP14e
65▼	SN54S40J	TTL	NAND	4		2.0	0.8	60		5.0	4.0n	110mQ	1.0	5	C	2	74-13N	DIP14a
66♦	54S20FM	TTL	NAND	4		2.0	0.8	10		5.0	5.0n	38m†	0.5	5	C	2	54H20	FP21h
67♦	74S20DC	TTL	NAND	4		2.0	0.8	10		5.0	5.0n	38m†	1.0	0	7	2	74-13N	TO-116
68♦	74S20PC	TTL	NAND	4		2.0	0.8	10		5.0	5.0n	38m†	1.0	0	7	2	74-13N	DIP14a
69♦	DM74S20N	TTL	NAND	4		2.0	0.8	10		5.0	5.0n	38m†		0	7	2	74-13N	DIP14a
70♦	MC54F20J	TTL	NAND	4		2.0	0.8	12a		5.0	5.0n		0.3	5	C	2	74-13N	DIP14a
71▼	MC54F20N	TTL	NAND	4		2.0	0.8	12a		5.0	5.0n		0.3	5	C	2	74-13N	DIP14a
72♦	MC74F20J	TTL	NAND	4		2.0	0.8	12a		5.0	5.0n		0.3	0	7	2	74-13N	DIP14a
73♦	MC74F20N	TTL	NAND	4		2.0	0.8	12a		5.0	5.0n		0.3	0	7	2	74-13N	DIP14a
74♦	N74S20D	TTL	NAND	4		2.0	0.8	10		5.0	5.0n	90m	0.4	0	7	2	74-13N	FP147
75♦	N74S20N	TTL	NAND	4		2.0	0.8	10		5.0	5.0n	90m	0.4	0	7	2	74-13N	DIP14a
76	S54F20W	TTL	NAND	4		2.0	0.8		-0.5	5.0	5.0n			5	C	2	54-20W	FP153
77♦	S54S20F	TTL	NAND	4		2.0	0.8	10		5.0	5.0n	90m	0.4	5	C	2	74-13N	DIP14b
78♦	S54S20W	TTL	NAND	4		2.0	0.8	10		5.0	5.0n	90m	0.4	5	C	2	54-13W	FP153
79♦	SN54S20J	TTL	NAND	4		2.0	0.8	20		5.0	5.0n	38m†	0.3	5	C	2	74-13N	DIP14a
80▼	SN74AS20D	TTL	NAND	4		2.0	0.8			5.0	5.0n		0.3	0	7	2	74-13B	FP147
81♦	SN74AS20N	TTL	NAND	4		2.0	0.8			5.0	5.0n		0.3	0	7	2	74-13B	DIP14a
82♦	SN74S20D	TTL	NAND	4		2.0	0.8			5.0	5.0n		0.3	0	7	2	74-13	FP147
83♦	SN74S20N	TTL	NAND	4		2.0	0.8	20		5.0	5.0n	38m†	0.3	0	7	2	74-13N	DIP14a
84♦	SN54AS20J	TTL	NAND	4		2.0	0.8			5.0	5.5n		0.3	5	C	2	74-13N	DIP14a
85♦	74F20DC	TTL	NAND	4		2.0	0.8	12		5.0	6.0n	26m		0	7	2	74-13N	DIP14b
86♦	74F20L1C	TTL	NAND	4		2.0	0.8			5.0	6.0n			0	7	2	G04-544	LC19
87♦	74F20PC	TTL	NAND	4		2.0	0.8	12		5.0	6.0n	26m		0	7	2	74-13N	DIP14a
88♦	74F20QC	TTL	NAND	4		2.0	0.8			5.0	6.0n			0	7	2	G04-544	LC26
89♦	74F20SC	TTL	NAND	4		2.0	0.8			5.0	6.0n			0	7	2	54-13	FP147
90▼	MC3025L	TTL	NAND	4		2.5	0.4C	20		5.0	6.0n	70m†		0	7	2	74-13N	TO-116
91▼	MC3025P	TTL	NAND	4		2.5	0.4C	20		5.0	6.0n	70m†		0	7	2	74-13N	DIP14a
92♦	N8H16A	TTL	NAND	4		2.6	0.4C	30		5	6.0n	46m	600m	0	7	2	74-13N	TO-116
93♦	N8H16F	TTL	NAND	4		2.6	0.4C	30		5.0	6.0n	46m	600m	0	7	2	74-13N	DIP14a
94♦	N8H16J	TTL	NAND	4		2.6	0.4C	30		5	6.0n	46m	600m	0	7	2	54-13W	TO-88
95♦	N74F20D	TTL	NAND	4		2.0	0.8		1.5	5.0	6.0n			0	7	2	74-20	FP147
96♦	N74F20F	TTL	NAND	4		2.0	0.8			5.0	6.0n			0	7	2	74-13N	DIP14a ☑
97♦	N74F20N	TTL	NAND	4		2.0	0.8			5.0	6.0n			0	7	2	74-13	DIP14a
98♦	RG240CJ	TTL	NAND	4		3.5	0.2	11		5.0	6.0n	44m†	1.0	5	C	2	4-00P	FP52j
99♦	RG240CK	TTL	NAND	4		3.5	0.2	11		5.0	6.0n	44m†	1.0	5	C	2	4-00P	FP52k
100♦	RG240DC	TTL	NAND	4		3.5	0.2	11		5.0	6.0n	44m†	1.0	5	C	2	4-00P	DIP14e
101♦	RG241CJ	TTL	NAND	4		3.5	0.2	6		5.0	6.0n	44m†	1.0	5	C	2	4-00P	FP52j
102♦	RG241CK	TTL	NAND	4		3.5	0.2	6		5.0	6.0n	44m†	1.0	5	C	2	4-00P	FP52k
103♦	RG241DC	TTL	NAND	4		3.5	0.2	6		5.0	6.0n	44m†	1.0	5	C	2	4-00P	DIP14e
104♦	RG242CJ	TTL	NAND	4		3.5	0.2	9		5.0	6.0n	44m†	1.0	0	7	2	4-00P	FP52j
105♦	RG242CK	TTL	NAND	4		3.5	0.2	9		5.0	6.0n	44m†	1.0	0	7	2	4-00P	FP52k
106♦	RG242DC	TTL	NAND	4		3.5	0.2	9		5.0	6.0n	44m†	1.0	0	7	2	4-00P	DIP14e
107♦	RG243CJ	TTL	NAND	4		3.5	0.2	5		5.0	6.0n	44m†	1.0	0	7	2	4-00P	FP52j
108♦	RG243CK	TTL	NAND	4		3.5	0.2	5		5.0	6.0n	44m†	1.0	0	7	2	4-00P	FP52k
109♦	RG243DC	TTL	NAND	4		3.5	0.2	5		5.0	6.0n	44m†	1.0	0	7	2	4-00P	DIP14e
110♦	S8H16A	TTL	NAND	4		2.6	0.4C	30		5	6.0n	46m	600m	5	C	2	74-13N	TO-116

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT
(3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	5 TYPE NUMBER	TECH	1 TYPE OF GATE	2 INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	4 tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	3 CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	S8H16F	TTL	NAND	4		2.6	0.4C	30		5.0	6.0n	46m	600m	5	C	2	74-13N	DIP14a
2♦	S8H16J	TTL	NAND	4		2.6	0.4C	30		5	6.0n	46m	600m	5	C	2	54-13W	TO-88
3♦	SFC420HE	TTL	NAND	4		2.0	0.8	10		5.0	6n	40m†	400m	0	7	2	74-13N	TO-116
4♦	SFC420HPM	TTL	NAND	4		2.0	0.8	10		5.0	6n	40m†	400m	5	C	2	54-20W	ZB ☑
5♦	DM74S40N	TTL	NAND	4		2.0	0.8	10		5.0	6.5n	82m†		0	7	2	74-13N	DIP14a
6♦	S54S140A	TTL	NAND	4		2.0	0.8	60		5.0	6.5n	220m†	1.0 †	5	C	2	74-13N	DIP14a
7♦	54F20DM	TTL	NAND	4		2.0	0.8	12		5.0	7.0n	26m		5	C	2	74-13N	DIP14b
8♦	54F20FM	TTL	NAND	4		2.0	0.8	12		5.0	7.0n	26m		5	C	2	54-13W	FP115
9♦	54F20L1M	TTL	NAND	4		2.0	0.8			5.0	7.0n			5	C	2	G04-544	LC19
10♦	74LS20DC	TTL	NAND	4		2.0	0.8	5		5.0	7.0n	11mQ	300m	0	7	2	74-13N	TO-116
11♦	74LS20PC	TTL	NAND	4		2.0	0.8	5		5.0	7.0n	11mQ	300m	0	7	2	74-13N	TO-116
12♦	MB603	TTL	NAND	4		2.0	0.8	10		5.0	7n	42m†		0	7	2	74-13N	DIP14b
13♦	MB605	TTL	NAND	4		2.0	0.8	30		5.0	7n	94m†		0	7	2	74-13N	DIP14b
14▼	N74F40D	TTL	NAND	4		2.0	0.8			5.0	7.0n			0	7	2	74-22	DIP14a
15▼	N74F40N	TTL	NAND	4		2.0	0.8			5.0	7.0n			0	7	2	74-22	DIP14a
16♦	S54F20F	TTL	NAND	4		2.0	0.8			5.0	7.0n		300m	5	C	2	74-13N	DIP14b
17♦	S54F20G	TTL	NAND	4		2.0	0.8			5.0	7.0n		300m	5	C	2	G04-544	LC24
18♦	T54LS20D2	TTL	NAND	4		2.0	0.7	11d		5.0	7.0n	11mQ	300m	5	C	2	74-13N	DIP14b
19♦	T74LS20B1	TTL	NAND	4		2.0	0.8	22d		5.0	7.0n	11mQ	300m	0	7	2	74-13N	DIP14a
20♦	T74LS20D1	TTL	NAND	4		2.0	0.8	22d		5.0	7.0n	11mQ	300m	0	7	2	74-13N	DIP14b
21♦	54S22FM	TTL	NAND	4	OC	2.0	.50	10		5.0	7.5n			5	C	2	54-22W	FP52
22♦	S54S22W	TTL	NAND	4	OC	2.0	0.8	10		5.0	7.5n	90m	1.0 †	5	C	2	54-22W	FP39e
23♦	DM54S20J	TTL	NAND	4		2.0	0.8	20		5.0	8.0n		0.3	5	C	2	54H20	DIP14a
24♦	MM54HC20J(A)	CMS	NAND	4		3.15	0.9	8		5.0	8.0n	500m		5	C	2	74-13N	DIP14a
25♦	MM74HC20J	CMS	NAND	4		3.15	0.9	10		5.0	8.0n	500m		4	8	2	74-13N	DIP14a
26♦	MM74HC20N(A)	CMS	NAND	4		3.15	0.9	10		5.0	8.0n	500m		4	8	2	74-13N	DIP14a
27♦	UPD74HC20C(A)	CMS	NAND	4		4.2	1.2			5.0	8.0n	500m		4	8	2	74-20	MO001AA
28♦	DM54S40J	TTL	NAND	4		2.0	0.8	30		5.0	9.0n		0.3	5	C	2	54S40	DIP14a
29▼	HD74HC20FP	CMS	NAND	4		3.15	1.35			5.0	9.0n	500m	1.2	4	8	2	74-20N	FP161
30▼	HD74HC20P	CMS	NAND	4		3.15	1.35			5.0	9.0n	500m	1.2	4	8	2	74-20N	DIP14a
31♦	54H20DM	TTL	NAND	4		2.0	0.8	10		5.0	10n	100m	1.0	5	C	2	74-13N	TO-116
32♦	54H20FM	TTL	NAND	4		2.0	0.8	10		5.0	10n	100m	1.0	5	C	2	54-20W	FP21h
33♦	74H20DC	TTL	NAND	4		2.0	0.8	10		5.0	10n	100m	1.0	0	7	2	74-13N	TO-116
34♦	74H20PC	TTL	NAND	4		2.0	0.8	10		5.0	10n	100m	1.0	0	7	2	74-13N	DIP14a
35♦	9004DM	TTL	NAND	4		1.7	0.9	11		5.0	10n	22m†		5	C	2	74-13N	DIP14a
36♦	9004FM	TTL	NAND	4		1.7	0.9	11		5.0	10n	22m†		5	C	2	54-13W	FP28b
37♦	DM54H20J	TTL	NAND	4		2.0	0.8	10		5.0	10n	100m		5	C	2	74-13N	DIP14a
38♦	DM74H20N	TTL	NAND	4		2.0	0.8	10		5.0	10n	100m		0	7	2	74-13N	DIP14a
39♦	MB404	TTL	NAND	4		2.0	0.8	30		5.0	10n	48m†		0	7	2	74-13N	DIP14b
40♦	MB404M	TTL	NAND	4		2.0	0.8	30		5.0	10n	48m†		0	7	2	74-13N	DIP14b
41♦	N74H20F	TTL	NAND	4		2.0	0.8	10		5.0	10n	100m		0	7	2	74-13N	DIP14b
42♦	N74H20N	TTL	NAND	4		2.0	0.8	10		5.0	10n	100m		0	7	2	74-13N	DIP14a
43♦	RG40CJ	TTL	NAND	4		3.4	0.2	15		5.0	10n	30m†	1.1	5	C	2	4-00P	FP52j
44♦	RG40CK	TTL	NAND	4		3.4	0.2	15		5.0	10n	30m†	1.1	5	C	2	4-00P	FP52k
45♦	RG40DC	TTL	NAND	4		3.4	0.2	15		5.0	10n	30m†	1.1	5	C	2	4-00P	DIP14e
46♦	RG41CJ	TTL	NAND	4		3.4	0.2	7		5.0	10n	30m†	1.1	5	C	2	4-00P	FP52j
47♦	RG41CK	TTL	NAND	4		3.4	0.2	7		5.0	10n	30m†	1.1	5	C	2	4-00P	FP52k
48♦	RG41DC	TTL	NAND	4		3.4	0.2	7		5.0	10n	30m†	1.1	5	C	2	4-00P	DIP14e
49♦	RG42CJ	TTL	NAND	4		3.4	0.2	12		5.0	10n	30m†	1.1	0	7	2	4-00P	FP52j
50♦	RG42CK	TTL	NAND	4		3.4	0.2	12		5.0	10n	30m†	1.1	0	7	2	4-00P	FP52k
51♦	RG42DC	TTL	NAND	4		3.4	0.2	12		5.0	10n	30m†	1.1	0	7	2	4-00P	DIP14e
52♦	RG43CJ	TTL	NAND	4		3.4	0.2	6		5.0	10n	30m†	1.1	0	7	2	4-00P	FP52j
53♦	RG43CK	TTL	NAND	4		3.4	0.2	6		5.0	10n	30m†	1.1	0	7	2	4-00P	FP52k
54♦	RG43DC	TTL	NAND	4		3.4	0.2	6		5.0	10n	30m†	1.1	0	7	2	4-00P	DIP14e
55♦	S54H20F	TTL	NAND	4		2.0	0.8	10		5.0	10n	100m		5	C	2	74-13N	DIP14b
56♦	S54H20W	TTL	NAND	4		2.0	0.8	10		5.0	10n	100m		5	C	2	54-20W	FP39e
57♦	SFC420HEM	TTL	NAND	4		2.0	0.8	10		5.0	10n		1.0	5	C	2	74-13N	TO-116
58♦	SN74H20N	TTL	NAND	4		2.0	0.8	10		5.0	10n	100m	0.4	0	7	2	74-13N	DIP14a
59♦	DM54S22J	TTL	NAND	4	OC	2.0	0.8	10		5.0	11n		0.3	5	C	2	54-22	DIP14a
60♦	FJH111-7420	TTL	NAND	4		2.0	0.8	10		5.0	11n	20m†	1.0	0	7	2	74-13N	DIP14a
61♦	FJH141-7440	TTL	NAND	4		2.0	0.8	30		5.0	11n	53m†	1.0	0	7	2	74-13N	DIP14a
62▼	SN74ALS20AD	TTL	NAND	4		2.0	0.8			5.0	11n		0.4	0	7	2	74-13N	FP147
63♦	SN74ALS20AN	TTL	NAND	4		2.0	0.8			5.0	11n		0.4	0	7	2	74-13N	DIP14a
64♦	DM54H40J	TTL	NAND	4		2.0	0.8	10		5.0	12n	200m		5	C	2	74-13N	DIP14a
65♦	DM74H40N	TTL	NAND	4		2.0	0.8	10		5.0	12n	200m		0	7	2	74-13N	DIP14a
66♦	M74ALS20AP	TTL	NAND	4		2.0	0.8			5.0	12n	8.3m	0.4	2	7	2	74-13N	DIP14a
67♦	9004DC	TTL	NAND	4		1.8	0.85	10		5.0	13n	22m†		0	7	2	74-13N	DIP14a
68♦	M53220P	TTL	NAND	4		2.0	0.8	10		5.0	13n	10m†	1.0	0	7	2	74-13N	DIP14a
69♦	N8816A	TTL	NAND	4		2.6	0.4C	20		5	13n	31m	600m	0	7	2	74H20	TO-116
70♦	N8816F	TTL	NAND	4		2.6	0.4C	20		5.0	13n	31m	600m	0	7	2	74H20	DIP14a
71♦	N8816J	TTL	NAND	4		2.6	0.4C	20		5	13n	31m	600m	0	7	2	74H20	TO-88
72♦	S8816A	TTL	NAND	4		2.6	0.4C	20		5	13n	31m	600m	5	C	2	74H20	TO-116
73♦	S8816F	TTL	NAND	4		2.6	0.4C	20		5.0	13n	31m	600m	5	C	2	74H20	DIP14a
74♦	S8816J	TTL	NAND	4		2.6	0.4C	20		5	13n	31m	600m	5	C	2	74H20	TO-88
75♦	SFC420E	TTL	NAND	4		2.0	0.8	10		5.0	13n	10m	400m*	0	7	2	74-13N	TO-116
76♦	SFC420PM	TTL	NAND	4		2.0	0.8	10		5.0	13n	20m†	400m	5	C	2	54-20W	ZB ☑
77♦	SN54ALS20AJ	TTL	NAND	4		2.0	0.8			5.0	13n		0.3	5	C	2	74-13N	DIP14a
78♦	54LS22FM	TTL	NAND	4	OC	2.0	0.7			5.0	14n	11mQ	300m	5	C	2	54-22W	TO-86
79♦	54H22FM	TTL	NAND	4	OC	2.0	0.8	10		5.0	15n	100m	1.0	5	C	2	54H22W	FP21h
80♦	DM9004CJ	TTL	NAND	4		1.6	0.85			5.0	15n	61m		0	7	2	74-13N	DIP14a
81♦	DM9004CN	TTL	NAND	4		1.6	0.85			5.0	15n	61m		0	7	2	74-13N	DIP14a
82♦	HD74LS20P	TTL	NAND	4		2.0	0.8			5.0	15n	400m	300m	2	7	2	74-13N	DIP14a
83♦	M74LS20P	TTL	NAND	4		2.0	0.8	20		5.0	15n	4.0m†	0.4	2	7	2	74-13N	DIP14a
84♦	MB74LS20	TTL	NAND	4		2.0	0.8	20		5.0	15n	11m	1.0 *	2	7	2	74-13N	DIP14a
85♦	MB74LS20M	TTL	NAND	4		2.0	0.8	20		5.0	15n	11m	1.0 *	2	7	2	74-13N	DIP14a
86♦	N74LS20D	TTL	NAND	4		2.0	0.7	20		5.0	15n	11m	0.3	0	7	2	74-13N	FP147
87♦	N74LS20N	TTL	NAND	4		2.0	0.7	20		5.0	15n	11m	0.3	0	7	2	74-13N	DIP14a
88♦	N8855A	TTL	NAND	4		2.6	0.4C	60		5	15n	57m	600m	0	7	2	74-13N	TO-116
89♦	N8855F	TTL	NAND	4		2.6	0.4C	60		5.0	15n	57m	600m	0	7	2	74-13N	DIP14a
90♦	N8855J	TTL	NAND	4		2.6	0.4C	60		5	15n	57m	600m	0	7	2	54-20W	TO-88
91♦	S54H22W	TTL	NAND	4	OC	2.0	0.8	10		5.0	15n	100m		5	C	2	54H22W	FP39e
92♦	S54LS20F	TTL	NAND	4		2.0	0.7			5.0	15n	11m	0.3	5	C	2	74-13N	DIP14b
93♦	S54LS20G	TTL	NAND	4		2.0	0.7			5.0	15n	11m	0.3	5	C	2	G04-544	LC24
94♦	S54LS20W	TTL	NAND	4		2.0	0.7			5.0	15n	11m	0.3	5	C	2	54-13W	FP153
95♦	S8855A	TTL	NAND	4		2.6	0.4C	60		5	15n	57m	600m	5	C	2	74-13N	TO-116
96♦	S8855F	TTL	NAND	4		2.6	0.4C	60		5.0	15n	57m	600m	5	C	2	74-13N	DIP14a
97♦	S8855J	DTL	NAND	4		1.8	0.8	60		5	15n	57m	600m	5	C	2	54-20W	TO-88
98♦	SN54LS20J	TTL	NAND	4		2.0	0.7			5.0	15n		0.3	5	C	2	74-13N	DIP14a
99▼	SN54LS20N	TTL	NAND	4		2.0	0.7			5.0	15n		0.3	5	C	2	74-13N	DIP14a
100♦	SN74LS20D	TTL	NAND	4		2.0	0.8			5.0	15n		0.4	0	7	2	74-13	FP147
101♦	SN74LS20J	TTL	NAND	4		2.0	0.8			5.0	15n		0.4	0	7	2	74-13N	DIP14a
102♦	SN74LS20N	TTL	NAND	4		2.0	0.8			5.0	15n		0.4	0	7	2	74-13N	DIP14a
103♦	DM9009CJ	TTL	NAND	4		1.6	0.85			5.0	17n	146m		0	7	2	74-13N	DIP14a
104♦	DM9009CN	TTL	NAND	4		1.6	0.85			5.0	17n	146m		0	7	2	74-13N	DIP14a
105♦	M74HC20C1(A)	CMS	NAND	4		3.15	1.35	10		5.0	18n	500m	1.2	4	8	2	G04-544	LC33
106♦	US74HCT20N(A)	CMS	NAND	4		2.0	0.8	10		5.0	18n	500m	750m	4	8	2	74-13N	DIP14 ☑
107	74HC20D	CMS	NAND	4		3.15	1.35	10		5.0	20n		1.2	4	8	2	74-20	FP147
108♦	74HC20N	CMS	NAND	4		3.15	1.35	10		5.0	20n		1.2	4	8	2	74-20	DIP14a
109	74HCT20D	CMS	NAND	4		2.0	0.8	10		5.0	20n		0.7	4	8	2	74-20	FP147
110♦	74HCT20N	CMS	NAND	4		2.0	0.8	10		5.0	20n		0.7	4	8	2	74-20	DIP14a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	5 TYPE NUMBER	TECH	1 TYPE OF GATE	2 INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	4 tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	3 CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	CD74HC20E	CMS	NAND	4		3.15	1.35	10		5.0	21n	500m	1.2	4	8	2	74-20N	MO001AB
2♦	CD74HC20M	CMS	NAND	4		3.15	1.35	10		5.0	21n	400m	1.2	4	8	2	74-20N	FP147
3♦	CD74HCT20E	CMS	NAND	4		2.00	0.80	10		5.0	21n	500m	0.7	4	8	2	74-20N	MO001AB
4♦	CD74HCT20M	CMS	NAND	4		2.0	0.8	10		5.0	21n	400m	0.7	4	8	2	74-20N	FP147
5♦	5420DM	TTL	NAND	4		2.0	0.8	10		5.0	22n	20m†	1.0	5	C	2	74-13N	TO-116
6♦	5420FM	TTL	NAND	4		2.0	0.8	20		5.0	22n			5	C	2	54-20W	FP52
7♦	7420DC	TTL	NAND	4		2.0	0.8	10		5.0	22n	20m†	1.0	0	7	2	74-13N	TO-116
8♦	7420PC	TTL	NAND	4		2.0	0.8	10		5.0	22n	10m	1.0	0	7	2	74-13N	DIP14a
9♦	N7420F	TTL	NAND	4		2.0	0.8	10		5.0	22n	55m	1.0 †	0	7	2	74-13N	DIP14b
10♦	N7420N	TTL	NAND	4		2.0	0.8	10a		5.0	22n	55m	0.4	0	7	2	74-13N	DIP14a
11♦	S5420F	TTL	NAND	4		2.0	0.8	10		5.0	22n	55m	0.4	5	C	2	74-13N	DIP14b
12♦	S5420W	TTL	NAND	4		2.0	0.8	10		5.0	22n	55m	0.4	5	C	2	54-20W	FP153
13♦	SFC420EM	TTL	NAND	4		2.0	0.8	10		5.0	22n	1.0m†	400m*	5	8	2	74-13N	TO-116
14♦	SFC420ET	TTL	NAND	4		2.0	0.8	10		5.0	22n	10m†	400m*	2	8	2	74-13N	TO-116
15♦	SN5420J	TTL	NAND	4		2.0	0.8	10		5.0	22n	20m†	0.4	5	C	2	74-13N	DIP14a
16♦	SN7420N	TTL	NAND	4		2.0	0.8	10		5.0	22n	10m	0.4	0	7	2	74-13N	DIP14a
17▼	TC74HC20F(A)	CMS	NAND	4		3.15	1.35	10d		5.0	23n	180m	1.4	4	8	2	74-13N	FP166
18♦	TC74HC20P(A)	CMS	NAND	4		3.15	1.35	10d		5.0	23n	500m	1.4	4	8	2	74-13N	MO001AA
19♦	DM5420J	TTL	NAND	4		2.0	0.8	10		5.0	25n	20m†	400m	5	C	2	74-13N	DIP14a
20♦	DM5420W	TTL	NAND	4		2.0	0.8	10		5.0	25n	20m†	400m	5	C	2	54-20W	FP97a
21♦	DM5440J	TTL	NAND	4		2.0	0.8	30		5.0	25n	114m	400m	5	C	2	74-13N	DIP14a
22♦	DM5440W	TTL	NAND	4		2.0	0.8	30		5.0	25n	114m	400m	5	C	2	54-20W	FP97a
23♦	DM7420N	TTL	NAND	4		2.0	0.8	10		5.0	25n	20m†	400m	0	7	2	74-13N	DIP14a
24♦	DM7440N	TTL	NAND	4		2.0	0.8	30		5.0	25n	114m	400m	0	7	2	74-13N	DIP14a
25♦	CD54HC20F	CMS	NAND	4		3.15	1.35	10		5.0	26n	500m	1.2	5	C	2	74-20N	MO001AB
26♦	CD54HCT20F	CMS	NAND	4		2.00	0.80	10		5.0	26n	500m	0.7	5	C	2	74-20N	MO001AB
27♦	MC54HC20J(A)	CMS	NAND	4		3.15	0.9	10		5.0	27n	500m	1.2	5	C	2	74-13N	DIP14a
28♦	MC74HC20J(A)	CMS	NAND	4		3.15	0.9	10		5.0	27n	500m	1.2	4	8	2	74-13N	DIP14a
29♦	MC74HC20N(A)	CMS	NAND	4		3.15	0.9	10		5.0	27n	500m	1.2	4	8	2	74-13N	DIP14a
30♦	PC74HC20P	CMS	NAND	4		3.15	1.35	10		5.0	27n	500m	0.8	4	C	2	74-20	DIP14b
31♦	PC74HC20T	CMS	NAND	4		3.15	1.35	10		5.0	27n	300m	0.8	4	C	2	74-20	FP147
32▼	SN74HC20D	CMS	NAND	4		3.15	0.9			5.0	28n			4	8	2	74-13N	FP147
33♦	SN74HC20N	CMS	NAND	4		3.15	0.9			5.0	28n			4	8	2	74-13N	MO001AA
34▼	HD74LS22G	TTL	NAND	4	OC	2.0	0.8			5.0	32n	400m	300m	2	7	2	74-22N	DIP14a
35♦	HD74LS22P	TTL	NAND	4	OC	2.0	0.8			5.0	32n	400m	300m	2	7	2	74-22N	DIP14a
36♦	S54LS22W	TTL	NAND	4	OC	2.0	0.7			5.0	32n	11m		5	C	2	54-22W	FP39e
37♦	SN54LS22W	TTL	NAND	4	OC	2.0	0.7	11		5.0	32n	11m	0.3	5	C	2	54-22W	FP97a
38♦	SN54HC20J	CMS	NAND	4		3.15	0.9			5.0	33n			5	C	2	74-13N	MO001AA
39♦	HEF4012P	CMS	NAND	4		7.0	3.0			10	37n	300uQ		4	8	2	40-12B	TO-116
40♦	TC40H020F	CMS	NAND	4		4.0	1.0			10	38n	180m	.95	4	8	2	54-13W	FP166
41♦	TC40H020P	CMS	NAND	4		4.0	1.0	50		10	38n	300m	.95	4	8	2	74-13N	MO001AA
42♦	CD4012AD	CMS	NAND	4		9.95	0.05C			15	40n	500m	4.5	5	C	2	40-12B	MO001AD
43♦	CD4012AF	CMS	NAND	4		9.95	0.05C			15	40n	500m	4.5	5	C	2	40-12B	MO001AB
44♦	CD4012MJ	CMS	NAND	4		9.99	.01C			10	40n	500m	4.5	5	C	2	40-12B	DIP14a
45♦	CD4012MW	CMS	NAND	4		9.99	.01C			10	40n	500m	4.5	5	C	2	40-12B	FP97c
46♦	MC14012UBCL	CMS	NAND	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-12B	DIP14a
47▼	MC14012UBCLD	CMS	NAND	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-12B	DIP14a
48▼	MC14012UBCLDS	CMS	NAND	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-12B	DIP14a
49▼	MC14012UBCLS	CMS	NAND	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-12B	DIP14a
50♦	MC14012UBCP	CMS	NAND	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-12B	DIP14a
51▼	MC14012UBCPD	CMS	NAND	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-12B	DIP14a
52▼	MC14012UBCPDS	CMS	NAND	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-12B	DIP14a
53▼	MC14012UBCPS	CMS	NAND	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-12B	DIP14a
54▼	MC14012UBD	CMS	NAND	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-12B	DIP14a
55♦	PC74HCT20P	CMS	NAND	4		2.0	0.8	10		5.0	42n	500m	0.7	4	C	2	74-20	DIP14b
56♦	PC74HCT20T	CMS	NAND	4		2.0	0.8	10		5.0	42n	300m	0.7	4	C	2	74-20	FP147
57♦	5422FM	TTL	NAND	4	OC	2.0	0.8	12		5.0	45n			5	C	2	54-22W	FP52
58▼	SN74ALS22BD	TTL	NAND	4	OC	2.0	0.8			5.0	45n		0.4	0	7	2	74-22N	FP147
59▼	SN74ALS22BN	TTL	NAND	4	OC	2.0	0.8			5.0	45n		0.4	0	7	2	74-22N	DIP14a
60♦	4012BDC	CMS	NAND	4		11	4.0	25e		15	48n	450uQ	6.7	4	8	2	40-12B	TO-116
61♦	4012BDM	CMS	NAND	4		11	4.0	25e		15	48n	450uQ	6.7	5	C	2	40-12B	TO-116
62♦	4012BFC	CMS	NAND	4		11	4.0	25e		15	48n	450uQ	6.7	4	8	2	40-12B	FP21h
63♦	4012BFM	CMS	NAND	4		11	4.0	25e		15	48n	450uQ	6.7	5	C	2	40-12B	FP21h
64♦	4012BPC	CMS	NAND	4		11	4.0	25e		15	48n	450uQ	6.7	4	8	2	40-12B	DIP14a
65♦	CD4012AE	CMS	NAND	4		9.95	0.05C			15	50n	500m	4.5	4	8	2	40-12B	MO001AB
66♦	CD4012CJ	CMS	NAND	4		9.99	.01C			10	50n	500m	4.5	4	8	2	40-12B	DIP14a
67♦	CD4012CN	CMS	NAND	4		9.99	.01C			10	50n	500m	4.5	4	8	2	40-12B	DIP14a
68♦	HEF4012	CMS	NAND	4		11	4.0	16e		15	50n	400m	6.7	4	8	2	40-12B	DL Ø
69♦	HEF4012BD	CMS	NAND	4		7.0	3.0			10	50n	500m		4	8	2	40-12B	DIP14a
70♦	HEF4012BP	CMS	NAND	4		7.0	3.0			10	50n	500m		4	8	2	40-12B	DIP14a
71♦	HEF4012BPN	CMS	NAND	4		11.0	4.0	16e		15	50n	400m	6.7	4	8	2	40-12B	DIP14b
72♦	HEF4012BT	CMS	NAND	4		7.0	3.0			10	50n	400m		4	8	2	40-12B	FP147
73♦	HEF4012BTD	CMS	NAND	4		11.0	4.0	50e		15	50n	200m	6.7	4	8	2	40-12B	FP147
74♦	MM4612AD	CMS	NAND	4		4.99	.01C			5.0	50n	500m	450m	5	C	2	40-12B	DIP14a
75♦	MM4612AF	CMS	NAND	4		4.99	.01C			5.0	50n	500m	450m	5	C	2	40-12B	FP97b
76♦	MM5612AN	CMS	NAND	4		4.99	.01C			5.0	50n	500m	450m	4	8	2	40-12B	DIP14a
77▼	SN74LS18D	TTL	NAND	4						5.0	55n			0	7	2	74-13N	DIP14
78▼	SN74LS18FN	TTL	NAND	4						5.0	55n			0	7	2	G04-544	LC20
79▼	SN74LS18J	TTL	NAND	4						5.0	55n			0	7	2	74-13N	DIP14
80▼	SN74LS18N	TTL	NAND	4		2.0	0.8			5.0	55n	32n	300m	0	7	2	74-13N	DIP14
81♦	CD4012UBD	CMS	NAND	4		7.0	3.0	18e		15	60n	500m	1.9	5	C	2	40-12B	MO001AD
82♦	CD4012UBE	CMS	NAND	4		7.0	3.0	18e		15	60n	500m	1.9	4	8	2	40-12B	MO001AB
83♦	CD4012UBF	CMS	NAND	4		7.0	3.0	18e		15	60n	500m	1.9	5	C	2	40-12B	MO001AB
84♦	DM54L20W	TTL	NAND	4		2.0	0.7	2		5.0	60n		0.4	5	C	2	54-20W	FP97c
85♦	MN4012B	CMS	NAND	4		11.0	4.0			15	60n	400m	3.9	4	8	2	40-12B	DIP14a
86♦	SFC420LE	TTL	NAND	4		2.0	0.7	10		5.0	60n		1.0m†	0	7	2	74-13N	TO-116
87♦	SFC420LEM	TTL	NAND	4		2.0	0.7	10		5.0	60n		1.0m†	5	C	2	74-13N	TO-116
88▼	SN54ALS22BJ	TTL	NAND	4	OC	2.0	0.7	2		5.0	65n	54n	0.3	5	C	2	74-22N	FP147
89♦	MM54C20D	CMS	NAND	4		3.5	1.5	2		15	70n	500m	450m	5	C	2	74-13N	DIP14a
90♦	MM74C20N	CMS	NAND	4		3.5	1.5	2		15	70n	500m	450m	0	7	2	74-13N	DIP14a
91♦	CM4012AD	CMS	NAND	4		10	0C			10	75n	200m	4.5	5	C	2	40-12B	DIP14a
92♦	HBC4012AD	CMS	NAND	4		10	0C			10	75n	1.0uQ	4.5	5	C	2	40-12B	MO001AD
93♦	HBC4012AF	CMS	NAND	4		10	0C			10	75n	1.0uQ	4.5	5	C	2	40-12B	MO001AD
94♦	HBC4012AK	CMS	NAND	4		10	0C			10	75n	1.0uQ	4.5	5	C	2	40-12B	MO004AF
95♦	SFF24012AEV	CMS	NAND	4		9.99	.01C			10	75n	200m	3.0 *	4	8	2	40-12B	None
96♦	SFF24012AKM	CMS	NAND	4		9.99	.01C			10	75n	200m	3.0 *	5	C	2	40-12B	TO-116
97♦	LC4012B	CMS	NAND	4		11.0	4.0			15	80n	300m		4	8	2	40-12B	DIP14a
98♦	883C4012B	CMS	NAND	4		8.21	6.7			15	90n	300m		5	C	2	40-12B	MO001AA
99♦	883C4412B	CMS	NAND	4		8.2	6.7			15	90n	300m		5	C	2	44-12B	MO001AA
100♦	BCL4012B	CMS	NAND	4		8.21	6.7			15	90n	300m		5	C	2	40-12B	MO001AA
101♦	BCL4412B	CMS	NAND	4		8.2	6.7			15	90n	300m		5	C	2	44-12B	MO001AA
102♦	HCC4012BD	CMS	NAND	4		11	4.0			15	90n	200m	2.5 *	5	C	2	40-12B	DIP14a
103♦	HCC4012BF	CMS	NAND	4		11	4.0			15	90n	200m	2.5 *	5	C	2	40-12B	DIP14a
104♦	HCC4012BK	CMS	NAND	4		11	4.0			15	90n	200m	2.5 *	5	C	2	40-12B	FP130
105♦	HCF4012BE	CMS	NAND	4		11	4.0			15	90n	200m	2.5 *	4	8	2	40-12B	DIP14a
106♦	HCF4012BF	CMS	NAND	4		11	4.0			15	90n	200m	2.5 *	4	8	2	40-12B	DIP14a
107♦	N8455A	TTL	NAND	4		3.4	.35C	25		5	95n	28m	1.4	0	7	2	74-13N	TO-116
108♦	N8455F	TTL	NAND	4		3.4	.35C	25		5.0	95n	28m	1.4	0	7	2	74-13N	DIP14a
109♦	N8455J	TTL	NAND	4		3.4	.35C	25		5	95n	28m	1.4	0	7	2	54-20W	TO-88
110♦	S8455A	TTL	NAND	4		3.4	.35C	25		5	95n	28m	1.4	5	C	2	74-13N	TO-116

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	S8455F	TTL	NAND	4		3.4	.35C	25		5.0	95n	28m	1.4	5	C	2	74-13N	DIP14a
2♦	S8455J	DTL	NAND	4		1.8	0.8	25		5	95n	28m	1.4	5	C	2	54-20W	TO-88
3♦	CM4012AE	CMS	NAND	4		10	0C			10	100n	200m	4.5	4	8	2	40-12B	DIP14a
4♦	DM54L20J	TTL	NAND	4		2.0	0.7	20		5.0	100n	2.0mt		5	C	2	74-13N	DIP14a
5♦	DM74L20N	TTL	NAND	4		2.0	0.7	20		5.0	100n	2.0mt		0	7	2	74-13N	DIP14a
6♦	HBF4012AE	CMS	NAND	4		10	0C			10	100n	50uQ	4.5	4	8	2	40-12B	MO001AB
7♦	HBF4012AF	CMS	NAND	4		10	0C			10	100n	50uQ	4.5	4	8	2	40-12B	MO001AD
8♦	MC14012BAL	CMS	NAND	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-12B	TO-116
9▼	MC14012BALD	CMS	NAND	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-12B	TO-116
10▼	MC14012BALDS	CMS	NAND	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-12B	TO-116
11▼	MC14012BALS	CMS	NAND	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-12B	TO-116
12♦	MC14012BCL	CMS	NAND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-12B	TO-116
13▼	MC14012BCLD	CMS	NAND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-12B	TO-116
14▼	MC14012BCLDS	CMS	NAND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-12B	TO-116
15▼	MC14012BCLS	CMS	NAND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-12B	TO-116
16♦	MC14012BCP	CMS	NAND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-12B	TO-116
17▼	MC14012BCPD	CMS	NAND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-12B	TO-116
18▼	MC14012BCPDS	CMS	NAND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-12B	TO-116
19▼	MC14012BCPS	CMS	NAND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-12B	TO-116
20▼	MC14012BD	CMS	NAND	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-12B	TO-116
21♦	MB84012B	CMS	NAND	4		10.5	4.5	16e		15	110n	60uQ	4.5 *	4	8	2	40-12B	DIP14b
22♦	MB84012BM	CMS	NAND	4		10.5	4.5	16e		15	110n	60uQ	4.5 *	4	8	2	40-12B	DIP14a
23♦	CD4012BD	CMS	NAND	4		3.0	8			15	120n	500m	2.9	5	C	2	40-12B	MO001AD
24♦	CD4012BE	CMS	NAND	4		3.0	8			15	120n	500m	2.9	4	8	2	40-12B	MO001AB
25♦	CD4012BF	CMS	NAND	4		3.0	8			15	120n	500m	2.9	5	C	2	40-12B	MO001AB
26♦	SCL4012B	CMS	NAND	4		7.0	3.0	50		15	125n	300m	3.0	5	C	2	40-12B	MO001AA
27♦	SCL4412B	CMS	NAND	4		7.0	3.0	50		15	125n	300m	3.0	5	C	2	44-12B	DIP16a
28♦	MSM503RS	CMS	NAND	4		3.6	0.8	40e		5.0	150n		0.6	3	8	2	G04-485	DIP14a
29♦	MSM4012	CMS	NAND	4		7.2	2.0	16e		10	150n	300uQ	2.0 *	2	7	2	40-12B	DIP14a
30♦	N8415J	DTL	NAND	4		1.8	0.8	9		5	150n	23m	1.4	0	7	2	54-22W	TO-88
31♦	N8417A	DTL	NAND	4			.35C	9		5	150n	23m	1.4	0	7	2	G04-325	TO-116
32♦	N8417F	DTL	NAND	4			.35C	9		5.0	150n	23m	1.4	0	7	2	G04-325	DIP14a
33♦	N8417J	DTL	NAND	4			.35C	9		5	150n	23m	1.4	0	7	2	G04-325a	TO-88
34♦	S8415J	DTL	NAND	4	OC	1.8	0.8	9		5	150n	23m	1.4	5	C	2	54-22W	TO-88
35♦	S8417A	DTL	NAND	4			.35C	9		5	150n	23m	1.4	5	C	2	G04-325	TO-116
36♦	S8417F	DTL	NAND	4			.35C	9		5.0	150n	23m	1.4	5	C	2	G04-325	DIP14a
37♦	S8417J	DTL	NAND	4			.35C	9		5	150n	23m	1.4	5	C	2	G04-325a	TO-88
38♦	M4012BP	CMS	NAND	4		11	4.0			15	160n	500m	4.0	4	8	2	40-12B	DIP14a
39♦	TC4012BP	CMS	NAND	4		14.9	.05C	50		15	160n	300m	4.0	4	8	2	40-12B	DIP14a
40♦	FZH171		NAND	4		7.5	4.5	10		12	175n	62m	5.0	0	7	2	G04-429a	DIP16b
41♦	FZH175		NAND	4		7.5	4.5	10		12	175n	62m	5.0	2	8	2	G04-429a	DIP16b
42♦	4012A	CMS	NAND	4		7.1	2.9	2		10	200n	200m		4	8	2	40-12B	DIP14a
43♦	MSM502	CMS	NAND	4		3.6	0.8	15		5.0	300n	25u		2	7	2	G04-485	DIP14a
44♦	MSM4012RS	CMS	NAND	4		3.6	1.0	40		5.0	300n	200m	0.6	4	8	2	40-12B	DIP14 ☑
45♦	FZH191	DTL	NAND	4		7.5	4.5	10		12	175n	108m	5.0	0	7	3	G04-446	DIP16a
46♦	FZH195	DTL	NAND	4		7.5	4.5	10		12	175n	108m	5.0	2	8	3	G04-446	DIP16a
47♦	FZH261	DTL	NAND	4	XI	7.5	4.5	10		12		216m	8.0	0	7	4	9-33L	DIP16a
48♦	LC74HC20	CMS	NAND	4-4		3.5	1.5	10		5.0	25n	0.3	1.1	4	8	2	74-20	DIP14a
49♦	HAG20011	DTL	NAND	5		2.2	.45			8		800m		5	C	1	G03-210	TO-100
50♦	HAG20019	DTL	NAND	5		2.0	.45			8		800m		0	7	1	G03-210	TO-100
51♦	HAG20021	DTL	NAND	5						8		800m		5	C	1	G03-210	TO-100
52♦	HAG20029	DTL	NAND	5						8		800m		0	7	1	G03-210	TO-100
53♦	HBG20011	DTL	NAND	5		2.2	.45			8		800m		5	C	1	G03-210	FP26
54♦	HBG20019	DTL	NAND	5		2.0	.45			8		800m		0	7	1	G03-210	FP26
55♦	HBG20021	DTL	NAND	5						8		800m		5	C	1	G03-210	FP26
56♦	HBG20029	DTL	NAND	5						8		800m		0	7	1	G03-210	FP26
57♦	HMD11104-2	GA	NAND	5	CO				3.0	5.0	500p	1.3		5	8	1	G15-02	FP184
58♦	SP356A	DTL	NAND	5		3.5	0.6C	18		5.0				0	7	2	None	TO-116
59♦	DM7092J	TTL	NAND	5		2.0	0.8			5.0	25n	51m		5	C	2	G04-3bb	DIP14a
60♦	DM7092N	TTL	NAND	5		2.0	0.8			5.0	25n	51m		5	C	2	G04-3bb	DIP14a
61♦	DM7092W	TTL	NAND	5		2.0	0.8			5.0	25n	51m		5	C	2	G04-3bb	FP97a
62♦	DM8092J	TTL	NAND	5		2.0	0.8			5.0	25n	51m		0	7	2	G04-3bb	DIP14a
63♦	DM8092N	TTL	NAND	5		2.0	0.8			5.0	25n	51m		0	7	2	G04-3bb	DIP14a
64♦	DM8092W	TTL	NAND	5		2.0	0.8			5.0	25n	51m		0	7	2	G04-3bb	FP97a
65♦	MC1901F	DTL	NAND	5		3.0	0.2	7		5.0	25n	33mt	1.0	5	C	2	1-800	TO-86
66♦	MC1901L	DTL	NAND	5		3.0	0.2	7		5.0	25n	33mt	1.0	5	C	2	1-800	TO-116
67▼	MC1800L	DTL	NAND	5		3.0	0.2	8		5.0	30n	22mt	1.0	0	7	2	1-800	TO-116
68▼	MC1800P	DTL	NAND	5		3.0	0.2	8		5.0	30n	22mt	1.0	0	7	2	1-800	TO-116
69▼	MC1801L	DTL	NAND	5		1.9	1.1	8		5.0	30n	75m		0	7	2	1-800	TO-116
70▼	MC1801P	DTL	NAND	5		1.9	1.1	8		5.0	30n	75m		0	7	2	1-800	TO-116
71♦	MC1900F	DTL	NAND	5		3.0	0.2	8		5.0	30n	22mt	1.0	0	7	2	1-800	TO-86
72♦	MC1900L	DTL	NAND	5		3.0	0.2	8		5.0	30n	22mt	1.0	0	7	2	1-800	TO-116
73♦	SP352A	TTL	NAND	5			0.6C	18		5.0	30n	84m	600m	0	7	2	G04-435	TO-116
74♦	SP337A	DTL	NAND	5		3.5	0.4C	12		5.0	45n	90mt	1.2	0	7	2	G04-400a	DIP14a
75♦	SP659A	DTL	NAND	5				8		4.5	55n	90mt	2.0	0	7	2	G04-227c	DIP14a
76♦	SP616A	DTL	NAND	5				8		4.5	60n	40mt	2.0	0	7	2	G04-89j	DIP14a
77♦	DM1800N	DTL	NAND	5		2.6	.45C			5.0	80n	8.0mQ		0	7	2	1-800	DIP14a
78♦	DM1801N	DTL	NAND	5		2.6	.45C			5.0	80n	8.0mQ		0	7	2	1-800	DIP14a
79♦	FCH231	DTL	NAND	5		2.0	0.8	10		5	93n	11m	1.2	0	7	2	G04-70b	TO-116
80♦	9934BC	DTL	NAND	5		1.8	1.2	10		5.0	100n	17mt	1.0	0	7	2	1-800	DIP14a
81♦	9934DC	DTL	NAND	5		1.8	1.2	10		5.0	100n	17mt	1.0	0	7	2	1-800	DIP14b
82♦	9934FC	DTL	NAND	5		1.8	1.2	10		5.0	100n	17mt	1.0	0	7	2	1-800	FP28g
83▼	MC660L	DTL	NAND	5		13	1.5	10		15	110n	75mt	5.0	3	7	2	6-60P	TO-116
84▼	MC660P	DTL	NAND	5		13	1.5	10		15	110n	75mt	5.0	3	7	2	6-60P	DIP14a
85▼	MC661L	DTL	NAND	5		13	1.5	10		15	125n	75mt	5.0	3	7	2	6-60P	TO-116
86▼	MC661P	DTL	NAND	5		13	1.5	10		15	125n	75mt	5.0	3	7	2	6-60P	DIP14a
87▼	MC662L	DTL	NAND	5		13	1.5C	30		15	140n	180mt	5.0	3	7	2	6-60P	TO-116
88▼	MC662P	DTL	NAND	5		13	1.5C	30		15	140n	180mt	5.0	3	7	2	6-60P	DIP14a
89♦	E301D2	DTL	NAND	5		1.7	0.9	10		5.0	150n	2.0mt	450m	5	C	2	G04-416	FP28c
90♦	E301D7	DTL	NAND	5		1.7	0.9	10		5.0	150n	2.0mt	450m	2	A	2	G04-416	FP28c
91♦	E301F2	DTL	NAND	5		1.7	0.9	10		5.0	150n	2.0mt	450m	5	C	2	G04-416	DIP14a
92♦	E301F7	DTL	NAND	5		1.7	0.9	10		5.0	150n	2.0mt	450m	2	A	2	G04-416	DIP14a
93♦	E305D2	DTL	NAND	5		1.7	0.9	10		5.0	150n	2.0mt	450m	5	C	2	G04-418	FP28c
94♦	E305D7	DTL	NAND	5		1.7	0.9	10		5.0	150n	2.0mt	450m	2	A	2	G04-418	FP28c
95♦	E305F2	DTL	NAND	5		1.7	0.9	10		5.0	150n	2.0mt	450m	5	C	2	G04-418	DIP14a
96♦	E305F7	DTL	NAND	5		1.7	0.9	10		5.0	150n	2.0mt	450m	2	A	2	G04-418	DIP14a
97♦	H104D1	DTL	NAND	5		8.0	6.0	25		15	250n	300m	5.0	0	7	2	G04-432b	DIP14b
98♦	H104D2	DTL	NAND	5		8.0	6.0	25		16	250n	192m	5.0	5	C	2	G04-432b	DIP14b
99♦	H104D6	DTL	NAND	5		8.0	6.0	25		16	250n	192m	5.0	4	8	2	G04-432b	DIP14
100♦	H204B1	DTL	NAND	5		8.0	6.0	25		16	250n	500m	5.0	0	7	2	G04-432b	TO-116
101♦	E306D2	DTL	NAND	5		1.7	0.9	10		5.0	400n	2.0mt	450m	5	C	2	G04-395	FP28c
102♦	E306D7	DTL	NAND	5		1.7	0.9	10		5.0	400n	2.0mt	450m	2	A	2	G04-395	FP28c
103♦	E306F2	DTL	NAND	5		1.7	0.9	10		5.0	400n	2.0mt	450m	5	C	2	G04-395	DIP14a
104♦	E306F7	DTL	NAND	5		1.7	0.9	10		5.0	400n	2.0mt	450m	2	A	2	G04-395	DIP14a
105♦	FZH231		NAND	6		7.5	4.5	10		12	125n	40m	5.0	0	7	2	G04-449	DIP16a
106♦	FZH235		NAND	6		7.5	4.5	10		12	125n	40m	5.0	2	8	2	G04-449	DIP16a
107♦	FZH121	DTL	NAND	6		7.5	4.5	10		12	310n	62m	5.0	0	7	2	G04-429	DIP16a
108♦	FZH125	DTL	NAND	6		7.5	4.5	10		12	310n	62m	5.0	2	8	2	G04-429	DIP16a
109♦	FZH131	DTL	NAND	6		7.5	4.5	10		12	310n	62m	5.0	0	7	2	G04-429a	DIP16a
110♦	FZH135	DTL	NAND	6		7.5	4.5	10		12	310n	62m	5.0	2	8	2	G04-429a	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	FZH141	DTL	NAND	6		7.5	4.5	30		12	310n	62m	5.0	0	7	2	G04-429a	DIP16a
2♦	FZH145	DTL	NAND	6		7.5	4.5	30		12	310n	62m	5.0	2	8	2	G04-429a	DIP16a
3♦	MC54HC30J(A)	CMS	NAND	8		3.15	0.9	10		5.0		500m	1.3	5	C	1	74-30	DIP14a
4♦	MC74HC30J(A)	CMS	NAND	8		3.15	0.9	10		5.0		500m	1.3	4	8	1	74-30	DIP14a
5♦	MC74HC30N(A)	CMS	NAND	8		3.15	0.9	10		5.0		500m	1.3	4	8	1	74-30	DIP14a
6♦	DM74AS30J	TTL	NAND	8		2.0	0.8	50		5.0	5.0n		0.3	0	7	1	74-30	DIP14a
7♦	DM74AS30N	TTL	NAND	8		2.0	0.8	50		5.0	5.0n		0.3	0	7	1	74-30	DIP14a
8▼	SN74AS30D	TTL	NAND	8		2.0	0.8			5.0	5.0n		0.3	0	7	1	74-30N	FP147
9♦	SN74AS30N	TTL	NAND	8		2.0	0.8			5.0	5.0n		0.3	0	7	1	74-30N	DIP14a
10♦	DM54AS30J	TTL	NAND	8		2.0	0.8	50		5.0	5.5n		0.3	5	C	1	74-30	DIP14a
11▼	N74F30D	TTL	NAND	8		2.0	0.8			5.0	5.5n			0	7	1	74-30	DIP14a
12▼	N74F30N	TTL	NAND	8		2.0	0.8			5.0	5.5n			0	7	1	74-30	DIP14a
13♦	SN54AS30J	TTL	NAND	8		2.0	0.8			5.0	5.5n		0.3	5	C	1	74-30N	DIP14a
14♦	SFC430HE	TTL	NAND	8		2.0	0.8	10		5.0	6n	20m†	400m	0	7	1	74-30N	TO-116
15♦	SFC430HPM	TTL	NAND	8		2.0	0.8	10		5.0	6n	20m†	400m	5	C	1	54-30W	ZB ☑
16♦	MB604	TTL	NAND	8		2.0	0.8	10		5.0	7n	21m†		0	7	1	74-30N	DIP14b
17♦	SN54S30J	TTL	NAND	8		2.0	0.8			5.0	7.0n	50m	0.3	5	C	1	74-30N	DIP14a
18♦	SN74S30D	TTL	NAND	8		2.0	0.8			5.0	7.0n		0.3	0	7	1	74-30	FP147
19♦	SN74S30N	TTL	NAND	8		2.0	0.8			5.0	7.0n	50m	0.3	0	7	1	74-30N	DIP14a
20♦	RG260CJ	TTL	NAND	8		3.5	0.2	11		5.0	8.0n	22m†	1.0	5	C	1	4-02P	FP52j
21♦	RG260CK	TTL	NAND	8		3.5	0.2	11		5.0	8.0n	22m†	1.0	5	C	1	4-02P	FP52k
22♦	RG260DC	TTL	NAND	8		3.5	0.2	11		5.0	8.0n	22m†	1.0	5	C	1	4-02P	DIP14e
23♦	RG261CJ	TTL	NAND	8		3.5	0.2	6		5.0	8.0n	22m†	1.0	5	C	1	4-02P	FP52j
24♦	RG261CK	TTL	NAND	8		3.5	0.2	6		5.0	8.0n	22m†	1.0	5	C	1	4-02P	FP52k
25♦	RG261DC	TTL	NAND	8		3.5	0.2	6		5.0	8.0n	22m†	1.0	5	C	1	4-02P	DIP14e
26♦	RG262CJ	TTL	NAND	8		3.5	0.2	9		5.0	8.0n	22m†	1.0	0	7	1	4-02P	FP52j
27♦	RG262CK	TTL	NAND	8		3.5	0.2	9		5.0	8.0n	22m†	1.0	0	7	1	4-02P	FP52k
28♦	RG262DC	TTL	NAND	8		3.5	0.2	9		5.0	8.0n	22m†	1.0	0	7	1	4-02P	DIP14e
29♦	RG263CJ	TTL	NAND	8		3.5	0.2	5		5.0	8.0n	22m†	1.0	0	7	1	4-02P	FP52j
30♦	RG263CK	TTL	NAND	8		3.5	0.2	5		5.0	8.0n	22m†	1.0	0	7	1	4-02P	FP52k
31♦	RG263DC	TTL	NAND	8		3.5	0.2	5		5.0	8.0n	22m†	1.0	0	7	1	4-02P	DIP14e
32♦	UPD74HC30C(A)	CMS	NAND	8		4.2	1.2			5.0	8.0n	500m		4	8	1	74-30	MO001AA
33♦	N74H30F	TTL	NAND	8		2.0	0.8	10		5.0	8.9n	50m		0	7	1	74-30N	DIP14b
34♦	N74H30N	TTL	NAND	8		2.0	0.8	10		5.0	8.9n	50m		0	7	1	74-30N	DIP14a
35♦	N74H30W	TTL	NAND	8		2.0	0.8	10		5.0	8.9n	50m		0	7	1	54S30W	FP39e
36♦	S54H30F	TTL	NAND	8		2.0	0.8	10		5.0	8.9n	50m		5	C	1	74-30N	DIP14b
37♦	S54H30W	TTL	NAND	8		2.0	0.8	10		5.0	8.9n	50m		5	C	1	54-30W	FP39e
38♦	54LS30DM	TTL	NAND	8		2.0	0.7			5.0	9.0n	5.5mQ	300m	5	C	1	74-30N	TO-116
39♦	54LS30FM	TTL	NAND	8		2.0	0.7			5.0	9.0n	5.5mQ	300m	5	C	1	54S30W	TO-86
40♦	74LS30DC	TTL	NAND	8		2.0	0.8	5		5.0	9.0n	5.5mQ	300m	0	7	1	74-30N	TO-116
41♦	74LS30PC	TTL	NAND	8		2.0	0.8	5		5.0	9.0n	5.5mQ	300m	0	7	1	74-30N	TO-116
42♦	T54LS30D2	TTL	NAND	8		2.0	0.7	11d		5.0	9.0n	5.5mQ	300m	5	C	1	74-30N	DIP14b
43♦	T74LS30B1	TTL	NAND	8		2.0	0.8	22d		5.0	9.0n	5.5mQ	300m	0	7	1	74-30N	DIP14a
44♦	T74LS30D1	TTL	NAND	8		2.0	0.8	22d		5.0	9.0n	5.5mQ	300m	0	7	1	74-30N	DIP14b
45♦	9007DM	TTL	NAND	8		1.7	0.9	11		5.0	10n	11m†		5	C	1	G04-345c	DIP14a
46♦	9007FM	TTL	NAND	8		1.7	0.9	11		5.0	10n	11m†		5	C	1	G04-345c	FP28b
47♦	DM54S30J	TTL	NAND	8		2.0	0.8	20		5.0	10n		0.3	5	C	1	54S30	DIP14a
48♦	DM74S30N	TTL	NAND	8		2.0	0.8			5.0	10n		0.3	5	C	1	74-30	DIP14a
49♦	MB403	TTL	NAND	8		2.0	0.8	10		5.0	10n	10m†		0	7	1	74-30N	DIP14b
50♦	MB403M	TTL	NAND	8		2.0	0.8	10		5.0	10n	10m†		0	7	1	74-30N	DIP14b
51♦	PC54HC30D(A)	CMS	NAND	8		3.15	0.9	10		5.0	10n	500m	0.8	5	C	1	74-30	DIP14b
52♦	PC74HC30D(A)	CMS	NAND	8		3.15	0.9	10		5.0	10n	500m	0.8	4	8	1	74-30	DIP14b
53♦	FJH101-7430	TTL	NAND	8		2.0	0.8	10		5.0	11n	10m†	1.0	0	7	1	74-30N	DIP14a
54▼	HD74HC30FP	CMS	NAND	8		3.15	1.35			5.0	11n	500m	1.2	4	8	1	74-30N	FP161
55▼	HD74HC30P	CMS	NAND	8		3.15	1.35			5.0	11n	500m	1.2	4	8	1	74-30N	DIP14a
56♦	SFC430HEM	TTL	NAND	8		2.0	0.8	10		5.0	11n		1.0	5	C	1	74-30N	TO-116
57♦	54H30DM	TTL	NAND	8		2.0	0.8	10		5.0	12n	40m	1.0	5	C	1	74-30N	TO-116
58♦	54H30FM	TTL	NAND	8		2.0	0.8	10		5.0	12n	40m	1.0	5	C	1	54-30W	FP21h
59♦	74H30DC	TTL	NAND	8		2.0	0.8	10		5.0	12n	50m	1.0	0	7	1	74-30N	TO-116
60♦	74H30PC	TTL	NAND	8		2.0	0.8	10		5.0	12n	50m	1.0	0	7	1	74-30N	DIP14a
61♦	DM54H30J	TTL	NAND	8		2.0	0.8	10		5.0	12n	50m		5	C	1	74-30N	DIP14a
62♦	DM74ALS30AJ	TTL	NAND	8		2.0	0.8	10		5.0	12n		0.3	0	7	1	74-30	DIP14a
63♦	DM74ALS30AN	TTL	NAND	8		2.0	0.8	10		5.0	12n		0.3	0	7	1	74-30	DIP14a
64♦	DM74H30N	TTL	NAND	8		2.0	0.8	10		5.0	12n	50m		0	7	1	74-30N	DIP14a
65♦	M74ALS30AP	TTL	NAND	8		2.0	0.8			5.0	12n	4.9m		2	7	1	74-30	DIP14a
66♦	PC54HCT30D(A)	CMS	NAND	8		2.0	0.8	10		5.0	12n	500m	0.7	5	C	1	74-30	DIP14b
67♦	PC74HCT30D(A)	CMS	NAND	8		2.0	0.8	10		5.0	12n	500m	0.7	4	8	1	74-30	DIP14b
68♦	RG60CJ	TTL	NAND	8		3.4	0.2	15		5.0	12n	15m†	1.1	5	C	1	4-02P	FP52j
69♦	RG60CK	TTL	NAND	8		3.4	0.2	15		5.0	12n	15m†	1.1	5	C	1	4-02P	FP52k
70♦	RG60DC	TTL	NAND	8		3.4	0.2	15		5.0	12n	15m†	1.1	5	C	1	4-02P	DIP14e
71♦	RG61CJ	TTL	NAND	8		3.4	0.2	7		5.0	12n	15m†	1.1	5	C	1	4-02P	FP52j
72♦	RG61CK	TTL	NAND	8		3.4	0.2	7		5.0	12n	15m†	1.1	5	C	1	4-02P	FP52k
73♦	RG61DC	TTL	NAND	8		3.4	0.2	7		5.0	12n	15m†	1.1	5	C	1	4-02P	DIP14e
74♦	RG62CJ	TTL	NAND	8		3.4	0.2	15		5.0	12n	15m†	1.1	0	7	1	4-02P	FP52j
75♦	RG62CK	TTL	NAND	8		3.4	0.2	15		5.0	12n	15m†	1.1	0	7	1	4-02P	FP52k
76♦	RG62DC	TTL	NAND	8		3.4	0.2	15		5.0	12n	15m†	1.1	0	7	1	4-02P	DIP14e
77♦	RG63CJ	TTL	NAND	8		3.4	0.2	6		5.0	12n	15m†	1.1	0	7	1	4-02P	FP52j
78♦	RG63CK	TTL	NAND	8		3.4	0.2	6		5.0	12n	15m†	1.1	0	7	1	4-02P	FP52k
79♦	RG63DC	TTL	NAND	8		3.4	0.2	6		5.0	12n	15m†	1.1	0	7	1	4-02P	DIP14e
80▼	SN74ALS30AD	TTL	NAND	8		2.0	0.8			5.0	12n		0.4	0	7	1	74-30	FP147
81♦	SN74ALS30AN	TTL	NAND	8		2.0	0.8			5.0	12n		0.4	0	7	1	74-30	DIP14a
82♦	9007DC	TTL	NAND	8		1.8	0.85	10		5.0	13n	11m†		0	7	1	G04-345c	DIP14a
83♦	M53230P	TTL	NAND	8		2.0	0.8	10		5.0	13n	10m†	1.0	0	7	1	74-30N	DIP14a
84♦	N8808A	TTL	NAND	8		2.6	0.4C	20		5	13n	31m	600m	0	7	1	74-30N	TO-116
85♦	N8808J	TTL	NAND	8		2.6	0.4C	20		5	13n	31m	600m	0	7	1	54S30W	TO-88
86♦	S8808A	TTL	NAND	8		2.6	0.4C	20		5	13n	31m	600m	5	C	1	74-30N	TO-116
87♦	S8808J	TTL	NAND	8		2.6	0.4C	20		5	13n	31m	600m	5	C	1	54S30W	TO-88
88♦	SFC430E	TTL	NAND	8		2.0	0.8	10		5.0	13n	10m	400m*	0	7	1	74-30N	TO-116
89♦	SFC430PM	TTL	NAND	8		2.0	0.8	10		5.0	13n	10m†	400m	5	C	1	54-30W	ZB ☑
90♦	MM54HC30J(A)	CMS	NAND	8		3.15	0.9	8		5.0	14n	500m		5	C	1	74-30N	DIP14a
91♦	MM74HC30J	CMS	NAND	8		3.15	0.9	10		5.0	14n	500m		4	8	1	74-30N	DIP14a
92♦	MM74HC30N(A)	CMS	NAND	8		3.15	0.9	10		5.0	14n	500m		4	8	1	74-30N	DIP14a
93♦	DM54ALS30AJ	TTL	NAND	8		2.0	0.8	10		5.0	15n		0.4	5	C	1	74-30	DIP14a
94♦	RG200CJ	TTL	NAND	8		1.7	1.1	11		5.0	15n	22m†	1.0	5	C	1	4-06P	FP52j
95♦	RG200CK	TTL	NAND	8		1.7	1.1	11		5.0	15n	22m†	1.0	5	C	1	4-06P	FP52k
96♦	RG200DC	TTL	NAND	8		1.7	1.1	11		5.0	15n	22m†	1.0	5	C	1	4-06P	DIP14e
97♦	RG202CJ	TTL	NAND	8		1.7	1.1	9		5.0	15n	22m†	1.0	0	7	1	4-06P	FP52j
98♦	RG202CK	TTL	NAND	8		1.7	1.1	9		5.0	15n	22m†	1.0	0	7	1	4-06P	FP52k
99♦	RG202DC	TTL	NAND	8		1.7	1.1	9		5.0	15n	22m†	1.0	0	7	1	4-06P	DIP14e
100♦	RG203CJ	TTL	NAND	8		1.7	1.1	5		5.0	15n	22m†	1.0	0	7	1	4-06P	FP52j
101♦	RG203CK	TTL	NAND	8		1.7	1.1	5		5.0	15n	22m†	1.0	0	7	1	4-06P	FP52k
102♦	RG203DC	TTL	NAND	8		1.7	1.1	5		5.0	15n	22m†	1.0	0	7	1	4-06P	DIP14e
103♦	SN54ALS30AJ	TTL	NAND	8		2.0	0.7			5.0	15n		0.3	5	C	1	74-30	DIP14a
104♦	M54HC30F1(A)	CMS	NAND	8		3.15	1.35	10		5.0	18n	500m	1.2	5	C	1	74-30	DIP14a
105♦	M74HC30B1(A)	CMS	NAND	8		3.15	1.35	10		5.0	18n	500m	1.2	4	8	1	74-30	DIP14a
106♦	M74HC30C1(A)	CMS	NAND	8		3.15	1.35	10		5.0	18n	500m	1.2	4	8	1	G04-545	LC33
107♦	M74HC30F1(A)	CMS	NAND	8		3.15	1.35	10		5.0	18n	500m	1.2	4	8	1	74-30	DIP14a
108♦	DM54LS30J	TTL	NAND	8		2.0	0.7	10		5.0	20n		0.3	5	C	1	74-30	DIP14a
109♦	DM74LS30N	TTL	NAND	8		2.0	0.8	10		5.0	20n		0.3	0	7	1	74-30	DIP14a
110♦	DN74LS30P1	TTL	NAND	8		2.0	0.8	20		5.0	20n	400m	700m	2	7	1	74-30	DIP14a

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEA-TURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	DN74LS30P4	TTL	NAND	8		2.0	0.8	20		5.0	20n	400m	700m	2	7	1	74-30	FP177
2▼	HD74LS30G	TTL	NAND	8		2.0	0.8			5.0	20n	400m	300m	2	7	1	74-30N	DIP14a
3♦	HD74LS30P	TTL	NAND	8		2.0	0.8			5.0	20n	400m	300m	2	7	1	74-30N	DIP14a
4♦	M74LS30P	TTL	NAND	8		2.0	0.8	20		5.0	20n	2.4m†	0.4	2	7	1	74-30N	DIP14a
5♦	MB74LS30	TTL	NAND	8		2.0	0.8	20		5.0	20n	5.5m	1.0 *	2	7	1	74-30N	DIP14a
6♦	MB74LS30M	TTL	NAND	8		2.0	0.8	20		5.0	20n	5.5m	1.0 *	2	7	1	74-30N	DIP14a
7♦	N74LS30D	TTL	NAND	8		2.0	0.7	20		5.0	20n	5.5m	0.3	0	7	1	74-30N	FP147
8♦	N74LS30N	TTL	NAND	8		2.0	0.7	20		5.0	20n	5.5m	0.3	0	7	1	74-30N	DIP14a
9♦	S54LS30F	TTL	NAND	8		2.0	0.7			5.0	20n	5.5m	0.3	5	C	1	74-30N	DIP14b
10♦	S54LS30W	TTL	NAND	8		2.0	0.7			5.0	20n	5.5m	0.3	5	C	1	54S30W	FP153
11♦	SN54LS30J	TTL	NAND	8		2.0	0.7			5.0	20n		0.3	5	C	1	74-30N	DIP14a
12▼	SN54LS30N	TTL	NAND	8		2.0	0.7			5.0	20n		0.3	5	C	1	74-30N	DIP14a
13♦	SN74LS30D	TTL	NAND	8		2.0	0.8			5.0	20n		0.4	0	7	1	74-30	FP147
14♦	SN74LS30J	TTL	NAND	8		2.0	0.8			5.0	20n		0.4	0	7	1	74-30N	DIP14a
15♦	SN74LS30N	TTL	NAND	8		2.0	0.8			5.0	20n		0.4	0	7	1	74-30N	DIP14a
16♦	M74ALS30P	TTL	NAND	8		2.0	0.8			5.0	21n	5m	0.4	2	7	1	74-30N	DIP14a
17♦	54S30DM	TTL	NAND	8		2.0	0.8	20		5.0	22n			5	C	1	74-30N	DIP14a
18♦	54S30FM	TTL	NAND	8		2.0	0.8	20		5.0	22n			5	C	1	54S30W	FP52
19♦	74S30DC	TTL	NAND	8		2.0	0.8	20		5.0	22n			0	7	1	74-30N	DIP14a
20♦	74S30PC	TTL	NAND	8		2.0	0.8	20		5.0	22n			0	7	1	74-30N	DIP14a
21♦	5430DM	TTL	NAND	8		2.0	0.8	10		5.0	22n	10m†	1.0	5	C	1	74-30N	TO-116
22♦	5430FM	TTL	NAND	8		2.0	0.8	20		5.0	22n	10m†	1.0	5	C	1	54-30W	FP52
23♦	7430DC	TTL	NAND	8		2.0	0.8	10		5.0	22n	10m†	1.0	0	7	1	74-30N	TO-116
24♦	7430PC	TTL	NAND	8		2.0	0.8	10		5.0	22n	10m†	1.0	0	7	1	74-30N	DIP14a
25♦	DM5430J	TTL	NAND	8		2.0	0.8	10		5.0	22n	10m†	400m	5	C	1	74-30N	DIP14a
26♦	DM5430W	TTL	NAND	8		2.0	0.8	10		5.0	22n	10m†	400m	5	C	1	54-30W	FP97a
27♦	DM7430N	TTL	NAND	8		2.0	0.8	10		5.0	22n	10m†	400m	0	7	1	74-30N	DIP14a
28♦	N7430F	TTL	NAND	8		2.0	0.8	10		5.0	22n	30m	1.0 †	0	7	1	74-30N	DIP14b
29♦	N7430N	TTL	NAND	8		2.0	0.8	10		5.0	22n	30m	0.4	0	7	1	74-30N	DIP14a
30♦	S5430F	TTL	NAND	8		2.0	0.8	10		5.0	22n	30m	1.0 †	5	C	1	74-30N	DIP14b
31♦	S5430W	TTL	NAND	8		2.0	0.8	10		5.0	22n	30m	1.0 †	5	C	1	54-30W	FP39e
32♦	SFC430EM	TTL	NAND	8		2.0	0.8	10		5.0	22n	10m†	1.0	5	C	1	74-30N	TO-116
33♦	SFC430ET	TTL	NAND	8		2.0	0.8	10		5.0	22n	10m†	1.0	2	8	1	74-30N	TO-116
34♦	SN7430N	TTL	NAND	8		2.0	0.8	10		5.0	22n	10m†	0.4	0	7	1	74-30N	DIP14a
35	74HC30D	CMS	NAND	8		3.15	1.35	10		5.0	28n		1.2	4	8	1	74-30	FP147
36♦	74HC30N	CMS	NAND	8		3.15	1.35	10		5.0	28n		1.2	4	8	1	74-30	DIP14a
37♦	CD74HC30E	CMS	NAND	8		3.15	1.35	10		5.0	28n	500m	1.2	4	8	1	74-30N	MO001AB
38♦	CD74HC30M	CMS	NAND	8		3.15	1.35	10		5.0	28n	400m	1.2	4	8	1	74-30N	FP147
39♦	CD74HCT30E	CMS	NAND	8		2.0	0.8	10		5.0	28n	500m	0.7	4	8	1	74-30N	MO001AB
40♦	CD74HCT30M(A)	CMS	NAND	8		2.0	0.8	10		5.0	28n	400m	0.7	4	8	1	74-30N	FP147
41♦	US74HCT30N(A)	CMS	NAND	8		2.0	0.8	10		5.0	28n	500m	750m	4	8	1	74-30N	DIP14 Ø
42▼	TC74HC30F(A)	CMS	NAND	8		3.15	1.35	10d		5.0	31n	180m	1.4	4	8	1	74-30P	FP166
43♦	TC74HC30P(A)	CMS	NAND	8		3.15	1.35	10d		5.0	31n	500m	1.4	4	8	1	74-30P	MO001AA
44♦	HEF4068P	CMS	NAND	8		7.0	3.0			10	32n	300uQ		4	8	1	40-68B	TO-116
45♦	CD54HC30F(A)	CMS	NAND	8		3.15	1.35	10		5.0	33n	500m	1.2	5	C	1	74-30N	MO001AB
46♦	CD54HCT30F(A)	CMS	NAND	8		2.0	0.8	10		5.0	33n	500m	0.7	5	C	1	74-30N	MO001AB
47▼	SN74HC30D	CMS	NAND	8		3.15	0.9			5.0	33n			4	8	1	74-30N	FP147
48♦	SN74HC30N	CMS	NAND	8		3.15	0.9			5.0	33n			4	8	1	74-30N	MO001AA
49	74HCT30D	CMS	NAND	8		2.0	0.8	10		5.0	39n		0.7	4	8	1	74-30	FP147
50♦	74HCT30N	CMS	NAND	8		2.0	0.8	10		5.0	39n		0.7	4	8	1	74-30	DIP14a
51♦	PC74HC30P	CMS	NAND	8		3.15	1.35	10		5.0	39n	500m	0.8	4	C	1	74-30	DIP14b
52♦	PC74HC30T	CMS	NAND	8		3.15	1.35	10		5.0	39n	300m	0.8	4	C	1	74-30	FP147
53♦	SN54HC30J	CMS	NAND	8		3.15	0.9			5.0	39n			5	C	1	74-30N	MO001AA
54♦	PC74HCT30P	CMS	NAND	8		2.0	0.8	10		5.0	47n	500m	0.7	4	C	1	74-30	DIP14b
55♦	PC74HCT30T	CMS	NAND	8		2.0	0.8	10		5.0	47n	300m	0.7	4	C	1	74-30	FP147
56♦	SFC430LE	TTL	NAND	8		2.0	0.8	10		5.0	60n	1.0m†	1.0	0	7	1	74-30N	TO-116
57♦	SFC430LEM	TTL	NAND	8		2.0	0.7	10		5.0	60n	1.0m†	1.0	5	C	1	74-30N	TO-116
58♦	HEF4068	CMS	NAND	8		11	4.0	16e		15	65n	400m	6.7	4	8	1	40-68B	DL Ø
59♦	HEF4068BPN	CMS	NAND	8		11.0	4.0	16e		15	65n	400m	6.7	4	8	1	40-68B	DIP14b
60♦	HEF4068BTD	CMS	NAND	8		11.0	4.0	50e		15	65n	200m	6.7	4	8	1	40-68B	FP147
61♦	4068BDC	CMS	NAND	8		11	4.0	25e		15	68n	450uQ	6.7	4	8	1	40-68B	TO-116
62♦	4068BDM	CMS	NAND	8		11	4.0	25e		15	68n	450uQ	6.7	5	C	1	40-68B	TO-116
63♦	4068BFC	CMS	NAND	8		11	4.0	25e		15	68n	450uQ	6.7	4	8	1	40-68B	FP21h
64♦	4068BFM	CMS	NAND	8		11	4.0	25e		15	68n	450uQ	6.7	5	C	1	40-68B	FP21h
65♦	4068BPC	CMS	NAND	8		11	4.0	25e		15	68n	450uQ	6.7	4	8	1	40-68B	DIP14a
66♦	HEF4068BD	CMS	NAND	8		7.0	3.0			10	85n	500m	2.9	4	8	1	40-68B	DIP14a
67♦	HEF4068BP	CMS	NAND	8		7.0	3.0			10	85n	500m	2.9	4	8	1	40-68B	DIP14a
68♦	HEF4068BT	CMS	NAND	8		7.0	3.0			10	85n	400m	2.9	4	8	1	40-68B	FP147
69♦	883C4068B	CMS	NAND	8		8.21	6.7			15	90n	300m		5	C	1	40-68B	MO001AA
70♦	BCL4068B	CMS	NAND	8		8.21	6.7			15	90n	300m		5	C	1	40-68B	MO001AA
71♦	DM54L30J	TTL	NAND	8		2.0	0.7	20		5.0	90n	1.0m†		5	C	1	74-30N	DIP14a
72♦	DM74L30N	TTL	NAND	8		2.0	0.7	20		5.0	90n	1.0m†		0	7	1	74-30N	DIP14a
73♦	MB84068B	CMS	NAND	8		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	1	40-68B	DIP14b
74♦	MB84068BM	CMS	NAND	8		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	1	40-68B	DIP14a
75♦	MC14068BAL	CMS	NAND	8		11	4.0	50		15	120n	15uQ	2.5 *	5	C	1	40-68B	TO-116
76▼	MC14068BALD	CMS	NAND	8		11	4.0	50		15	120n	15uQ	2.5 *	5	C	1	40-68B	TO-116
77▼	MC14068BALDS	CMS	NAND	8		11	4.0	50		15	120n	15uQ	2.5 *	5	C	1	40-68B	TO-116
78▼	MC14068BALS	CMS	NAND	8		11	4.0	50		15	120n	15uQ	2.5 *	5	C	1	40-68B	TO-116
79♦	MC14068BCL	CMS	NAND	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-68B	TO-116
80▼	MC14068BCLD	CMS	NAND	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-68B	TO-116
81▼	MC14068BCLDS	CMS	NAND	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-68B	TO-116
82▼	MC14068BCLS	CMS	NAND	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-68B	TO-116
83♦	MC14068BCP	CMS	NAND	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-68B	TO-116
84▼	MC14068BCPD	CMS	NAND	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-68B	TO-116
85▼	MC14068BCPDS	CMS	NAND	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-68B	TO-116
86▼	MC14068BCPS	CMS	NAND	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-68B	TO-116
87▼	MC14068BD	CMS	NAND	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-68B	TO-116
88♦	UPD4068BG	CMS	NAND	8		11.0	4.0			15	120n	200m	3.9	4	8	1	40-68	FP161
89♦	MM54C30D	CMS	NAND	8		3.5	1.5	2		15	125n	500m	450m	5	C	1	74-30N	DIP14a
90♦	MM74C30N	CMS	NAND	8		3.5	1.5	2		15	125n	500m	450m	0	7	1	74-30N	DIP14a
91♦	SCL4068B	CMS	NAND	8		7.0	3.0	50		15	125n	300m	3.0	4	8	1	40-68B	DIP14a
92♦	CD4068BD	CMS	NAND	8		7.0	3.0	18e		15	150n	500m	2.9	5	C	1	40-68B	MO001AD
93♦	CD4068BE	CMS	NAND	8		7.0	3.0	18e		15	150n	500m	2.9	4	8	1	40-68B	MO001AB
94♦	CD4068BF	CMS	NAND	8		7.0	3.0	18e		15	150n	500m	2.9	5	C	1	40-68B	MO001AB
95♦	MSM504RS	CMS	NAND	8		3.6	0.8	40e		5.0	150n		0.6	3	8	1	G04-532	DIP14a
96♦	MSM4068	CMS	NAND	8		7.2	2.0	16e		10	150n	300uQ	2.0 *	2	7	1	40-68B	DIP14a
97♦	M4068BP	CMS	NAND	8		11.0	4.0	50		15	160n	0.5	4.0 *	4	8	1	40-68B	DIP14a
98♦	TC4068BP	CMS	NAND	8		11.0	4.0	50		15	160n	300m	4.0	4	8	1	40-68B	DIP14a
99♦	HCC4068BD	CMS	NAND	8		10	0	1		10	260n	200m	4.5	5	C	1	40-68B	DIP14a
100♦	HCC4068BF	CMS	NAND	8		10	0	1		10	260n	200m	4.5	5	C	1	40-68B	DIP14a
101♦	HCC4068BK	CMS	NAND	8		10	0	1		10	260n	200m	4.5	5	C	1	40-68B	FP130
102♦	HCF4068BE	CMS	NAND	8		10	0	1		10	260n	200m	4.5	4	8	1	40-68B	DIP14a
103♦	HCF4068BF	CMS	NAND	8		10	0	1		10	260n	200m	4.5	4	8	1	40-68B	DIP14a
104♦	MSM4068RS	CMS	NAND	8		3.6	1.0	40		5.0	300n	200m	0.6	4	8	1	40-68B	DIP14 Ø
105♦	K155LA1	TTL	NAND	8		2.4	0.4	10		5.0				1	7	2	None	None
106♦	K155LA2	TTL	NAND	8		2.4	0.4	10		5.0				1	7	2	None	None
107♦	K155LA6	TTL	NAND	8		2.4	0.4	30						1	7	2	None	None
108♦	K155LA7	TTL	NAND	8	OC		0.4							1	7	2	None	None
109♦	K176LA8	MOS	NAND	8		8.2	0.3	50		9.0	250n		0.9	1	7	2	40-12	None
110♦	K176LP12	MOS	NAND	8		8.2	0.3	50		9.0	250n		0.9	1	7	2	None	None

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - NAND (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	K155LA3	TTL	NAND	8		2.4	0.4	10						1	7	4	None	None
2♦	K155LA8	TTL	NAND	8	OC		0.4							1	7	4	None	None
3♦	K155LA11	TTL	NAND	8	OC		0.4			5.0				1	7	4	None	None
4♦	K155LA12	TTL	NAND	8		2.4	0.4			5.0				1	7	4	None	None
5♦	SN74H30N	TTL	NAND	8		2.0	0.8	10		5.0	12n	0.4	0.4	0	0	4	DL14ab	DIP14a
6♦	K176LA7	MOS	NAND	8		8.2	0.3	50		9.0	250n		0.9	1	7	4	40-11	None
7♦	DM80L06N	TTL	NAND	8		2.0	0.7	4			290n	12m	0.4	0	7	4	G04-464	DIP14a
8▼	MC1803L	DTL	NAND	9		3.0	0.2	7		5.0	25n	16m†	1.0	0	7	1	1-802P	TO-116
9▼	MC1803P	DTL	NAND	9		3.0	0.2	7		5.0	25n	16m†	1.0	0	7	1	1-802P	TO-116
10▼	MC1802L	DTL	NAND	9		3.0	0.2	8		5.0	30n	11m†	1.0	0	7	1	1-802P	TO-116
11▼	MC1802P	DTL	NAND	9		3.0	0.2	8		5.0	30n	11m†	1.0	0	7	1	1-802P	TO-116
12♦	MC1902F	DTL	NAND	9		3.0	0.2	8		5.0	30n	11m†	1.0	5	C	1	1-802P	TO-86
13♦	MC1902L	DTL	NAND	9		3.0	0.2	8		5.0	30n	11m†	1.0	5	C	1	1-802P	TO-116
14♦	RG201CJ	TTL	NAND	10		3.1	0.4	6		5.0	15n	22m†	1.0	5	C	1	4-06P	FP52j
15♦	RG201CK	TTL	NAND	10		3.1	0.4	6		5.0	15n	22m†	1.0	5	C	1	4-06P	FP52k
16♦	RG201DC	TTL	NAND	10		3.1	0.4	6		5.0	15n	22m†	1.0	5	C	1	4-06P	DIP14e
17♦	MC1805L,P	DTL	NAND	10		3.0	0.2	7		5.0	25n	16m†	1.0	0	7	1	1-804	TO-116
18♦	MC1903F	DTL	NAND	10		3.0	0.2	7		5.0	25n	16m†	1.0	5	C	1	1-802P	TO-86
19♦	MC1903L	DTL	NAND	10		3.0	0.2	7		5.0	25n	16m†	1.0	5	C	1	1-802P	TO-116
20♦	MC1905F	DTL	NAND	10		3.0	0.2	7		5.0	25n	16m†	1.0	5	C	1	1-804	TO-86
21♦	MC1905L	DTL	NAND	10		3.0	0.2	7		5.0	25n	16m†	1.0	5	C	1	1-804	TO-116
22♦	RG120CJ	TTL	NAND	10		3.2	0.4	15		5.0	28n	15m†	900m	5	C	1	4-06P	FP52j
23♦	RG120CK	TTL	NAND	10		3.2	0.4	15		5.0	28n	15m†	900m	5	C	1	4-06P	FP52k
24♦	RG120DC	TTL	NAND	10		3.2	0.4	15		5.0	28n	15m†	900m	5	C	1	4-06P	DIP14e
25♦	RG121CJ	TTL	NAND	10		3.2	0.4	7		5.0	28n	15m†	900m	5	C	1	4-06P	FP52j
26♦	RG121CK	TTL	NAND	10		3.2	0.4	7		5.0	28n	15m†	900m	5	C	1	4-06P	FP52k
27♦	RG121DC	TTL	NAND	10		3.2	0.4	7		5.0	28n	15m†	900m	5	C	1	4-06P	DIP14e
28♦	RG122CJ	TTL	NAND	10		3.1	0.4	12		5.0	28n	15m†	900m	0	7	1	4-06P	FP52j
29♦	RG122CK	TTL	NAND	10		3.1	0.4	12		5.0	28n	15m†	900m	0	7	1	4-06P	FP52k
30♦	RG122DC	TTL	NAND	10		3.1	0.4	12		5.0	28n	15m†	900m	0	7	1	4-06P	DIP14e
31♦	RG123CJ	TTL	NAND	10		3.1	0.4	6		5.0	28n	15m†	900m	0	7	1	4-06P	FP52j
32♦	RG123CK	TTL	NAND	10		3.1	0.4	6		5.0	28n	15m†	900m	0	7	1	4-06P	FP52k
33♦	RG123DC	TTL	NAND	10		3.1	0.4	6		5.0	28n	15m†	900m	0	7	1	4-06P	DIP14e
34♦	MC1804L,P	DTL	NAND	10		3.0	0.2	8		5.0	30n	11m†	1.0	0	7	1	1-804	TO-116
35♦	MC1904F	DTL	NAND	10		3.0	0.2	8		5.0	30n	11m†	1.0	5	C	1	1-804	TO-86
36♦	MC1904L	DTL	NAND	10		3.0	0.2	8		5.0	30n	11m†	1.0	5	C	1	1-804	TO-116
37♦	54S134FM	TTL	NAND	12	TS	2.0	0.8	10b		5.0	7.5n	125m	300m*	5	C	1	54S134W	FP103
38♦	N74S134D	TTL	NAND	12		2.0	0.8	10		5.0	7.5n	80m	0.3	0	7	1	74S134N	FP148
39♦	N74S134F	TTL	NAND	12		2.0	0.8	10		5.0	7.5n	80m	1.0 †	0	7	1	74S134N	DIP16b
40♦	N74S134N	TTL	NAND	12		2.0	0.8	10		5.0	7.5n	80m	0.3	0	7	1	74S134N	DIP16a
41♦	N74S134W	TTL	NAND	12		2.0	0.8	30		5.0	7.5n	80m	1.0 †	0	7	1	54S134W	FP47g
42♦	S54S134F	TTL	NAND	12	TS	2.0	0.8	10		5.0	7.5n	80m	1.0 †	5	C	1	74S134N	DIP16b
43♦	SN54S134J	TTL	NAND	12	TS	2.0	0.8	10		5.0	7.5n	45m†	0.3	5	C	1	74S134N	DIP16a
44♦	SN74S134D	TTL	NAND	12		2.0	0.8			5.0	7.5n		0.3	0	7	1	74S134	FP148
45♦	SN74S134N	TTL	NAND	12		2.0	0.8	10		5.0	7.5n	45m†	0.3	0	7	1	74S134N	DIP16a
46♦	DM54S134J	TTL	NAND	12	TS	2.0	0.8			5.0	9.0n		0.3	5	C	1	54S134	DIP14a
47♦	MC54HC133J	CMS	NAND	13		3.15	0.9	10		5.0		500m		5	C	1	74-133	DIP16a
48♦	MC74HC133J	CMS	NAND	13		3.15	0.9	10		5.0		500m		4	8	1	74-133	DIP16a
49♦	MC74HC133N	CMS	NAND	13		3.15	0.9	10		5.0		500m		4	8	1	74-133	DIP16b
50♦	54S133DM	TTL	NAND	13		2.0	0.8	10b		5.0	7.0n	50m	300m*	5	C	1	74S133N	DIP16a
51♦	54S133FM	TTL	NAND	13		2.0	0.8	10b		5.0	7.0n	50m	300m*	5	C	1	54S133W	FP103
52♦	74S133DC	TTL	NAND	13		2.0	0.8	10b		5.0	7.0n	50m	300m*	0	7	1	74S133N	DIP16a
53♦	74S133PC	TTL	NAND	13		2.0	0.8	10b		5.0	7.0n	50m	300m*	0	7	1	74S133N	None
54♦	N74S133D	TTL	NAND	13		2.0	0.8	10		5.0	7.0n	50m	0.3	0	7	1	74S133N	FP148
55♦	N74S133F	TTL	NAND	13		2.0	0.8	10		5.0	7.0n	50m	1.0 †	0	7	1	74S133N	DIP16b
56♦	N74S133N	TTL	NAND	13		2.0	0.8	10		5.0	7.0n	50m	0.3	0	7	1	74S133N	DIP16a
57♦	N74S133W	TTL	NAND	13		2.0	0.8	20		5.0	7.0n	50m	1.0 †	0	7	1	54S133W	FP47g
58♦	S54S133F	TTL	NAND	13		2.0	0.8	10		5.0	7.0n	50m	0.3	5	C	1	74S133N	DIP16b
59♦	S54S133W	TTL	NAND	13		2.0	0.8	10		5.0	7.0n	50m	0.3	5	C	1	54S133W	FP154
60♦	SN54S133J	TTL	NAND	13		2.0	0.8	10		5.0	7.0n	21m†	0.3	5	C	1	74S133N	DIP16a
61♦	SN74S133D	TTL	NAND	13		2.0	0.8			5.0	7.0n		0.3	0	7	1	74S133	FP148
62♦	SN74S133FN	TTL	NAND	13		2.0	0.8			5.0	7.0n		0.3	0	7	1	G04-548	LC20
63♦	SN74S133N	TTL	NAND	13		2.0	0.8	10		5.0	7.0n	21m†	0.3	0	7	1	74S133N	DIP16a
64♦	S54S134W	TTL	NAND	13	TS	2.0	0.8	10		5.0	7.5n	80m	1.0 †	5	C	1	54S134W	FP47g
65▼	HD74HC133FP	CMS	NAND	13		3.15	1.35			5.0	12n	500m	1.2	4	8	1	74S133N	FP162
66▼	HD74HC133P	CMS	NAND	13		3.15	1.35			5.0	12n	500m	1.2	4	8	1	74S133N	DIP16a
67♦	MM54HC133J(A)	CMS	NAND	13		3.15	0.9	8		5.0	14n	500m		5	C	1	74S133N	DIP16a
68♦	MM74HC133J	CMS	NAND	13		3.15	0.9	10		5.0	14n	500m		4	8	1	74S133N	DIP16a
69♦	MM74HC133N(A)	CMS	NAND	13		3.15	0.9	10		5.0	14n	500m		4	8	1	74S133N	DIP16a
70♦	54LS133DM	TTL	NAND	13		2.0	0.7			5.0	17n	5.5mQ	300m	5	C	1	74S133N	TO-116
71♦	54LS133FM	TTL	NAND	13		2.0	0.7			5.0	17n	5.5mQ	300m	5	C	1	54S133W	TO-86
72♦	74LS133DC	TTL	NAND	13		2.0	0.8	5		5.0	17n	5.5mQ	300m	0	7	1	74S133N	TO-116
73♦	74LS133PC	TTL	NAND	13		2.0	0.8	5		5.0	17n	5.5mQ	300m	0	7	1	74S133N	TO-116
74♦	UPD74HC133C(A)	CMS	NAND	13		4.2	1.2			5.0	20n	500m		4	8	1	74LS133	DIP16a
75♦	DM74ALS133J	TTL	NAND	13		2.0	0.8	10		5.0	25n		0.3	0	7	1	74S133	DIP16a
76♦	DM74ALS133N	TTL	NAND	13		2.0	0.8	10		5.0	25n		0.3	0	7	1	74S133	DIP16a
77▼	SN74ALS133D	TTL	NAND	13		2.0	0.8			5.0	25n		0.4	0	7	1	74S133N	FP162
78♦	SN74ALS133N	TTL	NAND	13		2.0	0.8			5.0	25n		0.4	0	7	1	74S133N	DIP16a
79♦	DM54ALS133J	TTL	NAND	13		2.0	0.8	10		5.0	28n		0.4	5	C	1	74S133	DIP16a
80♦	US74HCT133N(A)	CMS	NAND	13		2.0	0.8	10		5.0	28n	500m	750m	4	8	1	74S133N	DIP16 ☑
81♦	M54HC133F1(A)	CMS	NAND	13		3.15	1.35	10		5.0	30n	500m	1.2	5	C	1	74-133	DIP16b
82♦	M74HC133B1(A)	CMS	NAND	13		3.15	1.35	10		5.0	36n	500m	1.2	4	8	1	74-133	DIP16a
83♦	M74HC133C1(A)	CMS	NAND	13		3.15	1.35	10		5.0	36n	500m	1.2	4	8	1	G04-548	LC33
84♦	M74HC133F1(A)	CMS	NAND	13		3.15	1.35	10		5.0	36n	500m	1.2	4	8	1	74-133	DIP16b
85♦	M74LS133P	TTL	NAND	13		2.0	0.8	20		5.0	38n	2.5m†	0.4	2	7	1	74S133N	DIP16b
86♦	SN54LS133J	TTL	NAND	13		2.0	0.7			5.0	38n	5.5mQ	300m	5	C	1	74S133N	DIP16a
87▼	SN54LS133N	TTL	NAND	13		2.0	0.7			5.0	38n	5.5mQ	300m	5	C	1	74S133N	DIP16a
88▼	SN74HC133D	CMS	NAND	13		3.15	0.9			5.0	38n		1.2	4	8	1	74S133N	FP162
89♦	SN74HC133N	CMS	NAND	13		3.15	0.9			5.0	38n		1.2	4	8	1	74S133N	DIP16a
90♦	SN74LS133J	TTL	NAND	13		2.0	0.8			5.0	38n	5.5mQ	300m	0	7	1	74S133N	DIP16a
91♦	SN74LS133N	TTL	NAND	13		2.0	0.8			5.0	38n	5.5mQ	300m	0	7	1	74S133N	DIP16b
92▼	TC74HC133F(A)	CMS	NAND	13		3.15	1.35	10d		5.0	38n	180m	1.2	4	8	1	74S133N	FP167
93▼	TC74HC133P(A)	CMS	NAND	13		3.15	1.35	10d		5.0	38n	500m	1.2	4	8	1	74S133N	DIP16a
94♦	SN54HC133J	CMS	NAND	13		3.15	0.9			5.0	45n		1.2	5	C	1	74S133N	DIP16a
95♦	SN54ALS133J	TTL	NAND	13		2.0	0.7			5.0	47n		0.3	5	C	1	74S133N	DIP16a

GATE, NOR

99♦	HD10106	ECL	NOR			-1.1	-1.4		5.2		3.3n	200m		3	8	3	G03-323	DIP16b
100♦	MC14000UBAL	CMS	NOR	1/3/3		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	3	40-00B	DIP14a
101▼	MC14000UBALD	CMS	NOR	1/3/3		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	3	40-00B	DIP14a
102▼	MC14000UBALDS	CMS	NOR	1/3/3		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	3	40-00B	DIP14a
103▼	MC14000UBALS	CMS	NOR	1/3/3		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	3	40-00B	DIP14a
104♦	MC14000UBCL	CMS	NOR	1/3/3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-00B	DIP14a
105▼	MC14000UBCLD	CMS	NOR	1/3/3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-00B	DIP14a
106▼	MC14000UBCLDS	CMS	NOR	1/3/3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-00B	DIP14a
107▼	MC14000UBCLS	CMS	NOR	1/3/3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-00B	DIP14a
108♦	MC14000UBCP	CMS	NOR	1/3/3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-00B	DIP14a
109▼	MC14000UBCPD	CMS	NOR	1/3/3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-00B	DIP14a
110▼	MC14000UBCPDS	CMS	NOR	1/3/3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-00B	DIP14a

5. GATES - NOR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1▼	MC14000UBCPS	CMS	NOR	1/3/3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-00B	DIP14a
2▼	MC14000UBD	CMS	NOR	1/3/3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-00B	DIP14a
3♦	CD4000MJ	CMS	NOR	1/3/3		9.95	.05C			10	45n	500m	4.5	5	C	3	40-00B	DIP14a
4♦	CD4000MW	CMS	NOR	1/3/3		9.95	.05C			10	45n	500m	4.5	5	C	3	40-00B	FP97c
5♦	CM4000AD	CMS	NOR	1/3/3		10	0C			10	45n	200m	4.5	5	C	3	40-00B	DIP14a
6♦	HBC4000AD	CMS	NOR	1/3/3		10	0C			10	45n	1.0uQ	4.5	5	C	3	40-00B	MO001AD
7♦	HBC4000AF	CMS	NOR	1/3/3		10	0C			10	45n	1.0uQ	4.5	5	C	3	40-00B	MO001AD
8♦	HBC4000AK	CMS	NOR	1/3/3		10	0C			10	45n	1.0uQ	4.5	5	C	3	40-00B	MO004AF
9♦	HEF4000BPN	CMS	NOR	1/3/3		11.0	4.0	16e		15	55n	400m	6.7	4	8	3	40-00B	DIP14b
10♦	HEF4000BTD	CMS	NOR	1/3/3		11.0	4.0	50e		15	55n	200m	6.7	4	8	3	40-00B	FP147
11♦	CD4000AD	CMS	NOR	1/3/3		9.95	0.05C			15	60n	200m	4.5	5	C	3	40-00B	MO001AD
12♦	CD4000AE	CMS	NOR	1/3/3		9.95	0.05C			15	60n	200m	4.5	4	8	3	40-00B	MO001AB
13♦	CD4000AF	CMS	NOR	1/3/3		9.95	0.05C			15	60n	200m	4.5	5	C	3	40-00B	MO001AB
14♦	CD4000UBD	CMS	NOR	1/3/3		2.0	7.0			15	60n	500m	2.0	5	C	3	40-00B	MO001AD
15♦	CD4000UBE	CMS	NOR	1/3/3		2.0	7			15	60n	500m	2.0	4	8	3	40-00B	MO001AB
16♦	CD4000UBF	CMS	NOR	1/3/3		2.0	7			15	60n	500m	2.0	5	C	3	40-00B	MO001AB
17♦	CD4000CJ	CMS	NOR	1/3/3		9.95	.05C			10	65n	500m	4.5	4	8	3	40-00B	DIP14a
18♦	CD4000CN	CMS	NOR	1/3/3		9.95	.05C			10	65n	500m	4.5	4	8	3	40-00B	DIP14a
19♦	CM4000AE	CMS	NOR	1/3/3		10	0C			10	65n	200m	4.5	4	8	3	40-00B	DIP14a
20♦	HBF4000AE	CMS	NOR	1/3/3		10	0C			10	65n	50uQ	4.5	4	8	3	40-00B	MO001AB
21♦	HBF4000AF	CMS	NOR	1/3/3		10	0C			10	65n	50uQ	4.5	4	8	3	40-00B	MO001AD
22♦	HEF4000B	CMS	NOR	1/3/3		9.95	.05C			10	70n			4	8	3	40-00B	TO-116
23♦	HEF4000BD	CMS	NOR	1/3/3		7.0	3.0			10	70n	500m		4	8	3	40-00B	DIP14a
24♦	HEF4000BP(A)	CMS	NOR	1/3/3		7.0	3.0			10	70n	500m		4	8	3	40-00B	DIP14a
25♦	HEF4000BT	CMS	NOR	1/3/3		7.0	3.0			10	70n	500m	2.9	4	8	3	40-00B	FP147
26♦	TC4000BP	CMS	NOR	1/3/3		14.9	.05*	50		15	80n	300m	4.0	4	8	3	40-00B	DL ☑
27♦	883C4000B	CMS	NOR	1/3/3		8.2	6.7			15	90n	300m		5	C	3	40-00B	MO001AA
28♦	BCL4000B	CMS	NOR	1/3/3		8.2	6.7			15	90n	300m		5	C	3	40-00B	MO001AA
29♦	HCC4000BD	CMS	NOR	1/3/3		11	4.0			15	90n	200m	2.5 *	5	C	3	40-00B	DIP14a
30♦	HCC4000BF	CMS	NOR	1/3/3		11	4.0			15	90n	200m	2.5 *	5	C	3	40-00B	DIP14a
31♦	HCC4000BK	CMS	NOR	1/3/3		11	4.0			15	90n	200m	2.5 *	5	C	3	40-00B	FP130
32♦	HCF4000BE	CMS	NOR	1/3/3		11	4.0			15	90n	15uQ	2.5 *	4	8	3	40-00B	DIP14a
33♦	HCF4000BF	CMS	NOR	1/3/3		11	4.0			15	90n	200m	2.5 *	4	8	3	40-00B	DIP14a
34♦	CD4000BD	CMS	NOR	1/3/3		7.0	3.0			15	120n	500m	2.0	5	C	3	40-00B	MO001AD
35♦	CD4000BE	CMS	NOR	1/3/3		7.0	3.0			15	120n	500m	2.0	4	8	3	40-00B	MO001AB
36♦	CD4000BF	CMS	NOR	1/3/3		7.0	3.0			15	120n	500m	2.0	5	C	3	40-00B	MO001AB
37♦	SCL4000B	CMS	NOR	1/3/3		7.0	3.0	50		15	125n	300m	3.0	5	C	3	40-00B	MO001AA
38♦	K176LP4	MOS	NOR	1/3/3		8.2	0.3	50		9.0	250n		0.9	1	7	3	40-00	None
39♦	909HC	RTL	NOR	2				30		3.6	40n	2.0m	250m	0	7	1	G03-36	TO-99
40♦	909HM	RTL	NOR	2				30		3.6	40n	2.0m	250m	0	7	1	G03-36	TO-99
41♦	910HM	RTL	NOR	2				4		3.6	15n	40m	250m	0	7	2	None	TO-99
42♦	914HM	RTL	NOR	2				16		3.6	15n		30m	0	7	2	G03-153	TO-99
43♦	921HM	RTL	NOR	2	XO					3.6	15n	40m	250m	0	7	2	G06-67	TO-99
44♦	9914HC	RTL	NOR	2				16		3.6	15n		300m	0	7	2	G03-153	TO-99
45♦	54F02DM	TTL	NOR	2		2.0	0.8	12		5.0		65m		5	C	4	74-02N	DIP14b
46♦	54LS02DM	TTL	NOR	2		2.0	0.7	5		5.0		27mQ	300m	5	C	4	74-02N	TO-116
47♦	74F02DC	TTL	NOR	2		2.0	0.8	12		5.0		65m		0	7	4	74-02N	DIP14b
48♦	74F02PC	TTL	NOR	2		2.0	0.8	12		5.0		65m		0	7	4	74-02N	DIP14a
49♦	74LS02DC	TTL	NOR	2		2.0	0.8	5		5.0		27mQ	300m	0	7	4	74-02N	TO-116
50♦	74LS02PC	TTL	NOR	2		2.0	0.8	5		5.0		27mQ	300m	0	7	4	74-02N	TO-116
51♦	74S02PC	TTL	NOR	2		2.0	0.8	20		5.0		20n		0	7	4	74-02N	DIP14a
52♦	5402DM	TTL	NOR	2		2.0	0.8	10		5.0		135m	1.0	5	C	4	74-02N	TO-116
53♦	7402DC	TTL	NOR	2		2.0	0.8	10		5.0		135m	1.0	0	7	4	74-02N	TO-116
54♦	7402PC	TTL	NOR	2		2.0	0.8	10		5.0		135m	1.0	0	7	4	74-02N	DIP14a
55▼	BU4001B	CMS	NOR	2		7.0	3.0			10		550m	2.9	4	8	4	40-01B	DIP14a
56▼	BU4001BF	CMS	NOR	2		7.0	3.0			10		550m	2.9	4	8	4	40-01B	FP161
57♦	DM54ALS02J	TTL	NOR	2		2.0	0.8	10		5.0		14n	0.4	5	C	4	74-02	DIP14a
58♦	DM54AS02J	TTL	NOR	2		2.0	0.8	50		5.0		5.0n	0.3	5	C	4	74-02	DIP14a
59♦	DM54L02J	TTL	NOR	2		2.0	0.7	20		5.0		4.0m†		5	C	4	74-02N	DIP14a
60♦	DM54LS02J	TTL	NOR	2		2.0	0.7	10		5.0		18n	0.3	5	C	4	74-02	DIP14a
61♦	DM74ALS02J	TTL	NOR	2		2.0	0.8	10		5.0		12n	0.3	0	7	4	74-02	DIP14a
62♦	DM74ALS02N	TTL	NOR	2		2.0	0.8	10		5.0		12n	0.3	0	7	4	74-02	DIP14a
63♦	DM74AS02J	TTL	NOR	2		2.0	0.8	50		5.0		4.5n	0.3	0	7	4	74-02	DIP14a
64♦	DM74AS02N	TTL	NOR	2		2.0	0.8	50		5.0		4.5n	0.3	0	7	4	74-02	DIP14a
65♦	DM74L02N	TTL	NOR	2		2.0	0.7	20		5.0		4.0m†		0	7	4	74-02N	DIP14a
66♦	DM74LS02N	TTL	NOR	2		2.0	0.8	10		5.0		18n	0.3	0	7	4	74-02	DIP14a
67♦	DM5402J	TTL	NOR	2		2.0	0.8	10		5.0		56m†	400m	5	C	4	74-02N	DIP14a
68♦	DM7402N	TTL	NOR	2		2.0	0.8	10		5.0		56m†	400m	0	7	4	74-02N	DIP14a
69♦	DN74LS02P1	TTL	NOR	2		2.0	0.8	20		5.0		400m		2	7	4	74-02	DIP14a
70♦	DN74LS02P4	TTL	NOR	2		2.0	0.8	20		5.0		400m		2	7	4	74-02	FP177
71♦	FJH221-7402	TTL	NOR	2		2.0	0.8	10		5.0		57m†	400m	0	7	4	74-02N	DIP14a
72♦	M54HC02F1(A)	CMS	NOR	2		3.15	1.35	10		5.0		500m	1.2	5	C	4	74-02	DIP14a
73♦	M74ALS02P	TTL	NOR	2		2.0	0.8			5.0		22m	0.4	2	7	4	74-02N	DIP14a
74♦	M74HC02B1(A)	CMS	NOR	2		3.15	1.35	10		5.0		500m	1.2	4	8	4	74-02	DIP14a
75♦	M74HC02F1(A)	CMS	NOR	2		3.15	1.35	10		5.0		500m	1.2	4	8	4	74-02	DIP14a
76♦	M74HC02P	CMS	NOR	2		4.2	1.8			5.0		15n		4	8	4	74-02	DIP14a
77♦	M74LS02P	TTL	NOR	2		2.0	0.8	20		5.0		10m†	0.4	2	7	4	74-02N	DIP14a
78♦	M53202P	TTL	NOR	2		2.0	0.8	10		5.0		12m†	1.0	0	7	4	74-02N	DIP14a
79♦	MB74LS02	TTL	NOR	2		2.0	0.8	20		5.0		27m	1.0 *	2	7	4	74-02N	DIP14a
80♦	MB74LS02M	TTL	NOR	2		2.0	0.8	20		5.0		27m	1.0 *	2	7	4	74-02N	DIP14a
81♦	MB417	TTL	NOR	2		2.0	0.8	70		5.0		60m†		0	7	4	74-02N	DIP14b
82♦	MB417M	TTL	NOR	2		2.0	0.8	10		5.0		60m†		0	7	4	74-02N	DIP14b
83♦	MC54F02J	TTL	NOR	2		2.0	0.8	12a		5.0		5.5n	0.3	5	C	4	74-02N	DIP14a
84▼	MC54F02N	TTL	NOR	2		2.0	0.8	12a		5.0		5.5n	0.3	5	C	4	74-02N	DIP14a
85♦	MC54HC02J	CMS	NOR	2		3.15	0.9	10		5.0		500m	1.3	5	C	4	74-02N	DIP14a
86♦	MC74F02J	TTL	NOR	2		2.0	0.8	12a		5.0		5.5n	0.3	0	7	4	74-02N	DIP14a
87♦	MC74F02N	TTL	NOR	2		2.0	0.8	12a		5.0		5.5n	0.3	0	7	4	74-02N	DIP14a
88♦	MC74HC02J(A)	CMS	NOR	2		3.15	0.9	10		5.0		500m	1.3	4	8	4	74-02N	DIP14a
89♦	MC74HC02N(A)	CMS	NOR	2		3.15	0.9	10		5.0		500m	1.3	4	8	4	74-02N	DIP14a
90♦	MM54C02D	CMS	NOR	2		3.5	1.5	2		15		500m	450m	5	C	4	74-02N	DIP14a
91♦	MM74C02N	CMS	NOR	2		3.5	1.5	2		15		500m	450m	0	7	4	74-02N	DIP14a
92♦	N74LS02D	TTL	NOR	2		2.0	0.7	20		5.0		27m	0.3	0	7	4	74-02N	FP147
93♦	N74LS02N	TTL	NOR	2		2.0	0.7	20		5.0		27m	0.3	0	7	4	74-02N	DIP14a
94♦	N74S02D	TTL	NOR	2		2.0	0.8	10		5.0		225m	0.4	0	7	4	74-02N	FP147
95♦	N74S02N	TTL	NOR	2		2.0	0.8	10		5.0		225m	0.4	0	7	4	74-02N	DIP14a
96♦	N7402F	TTL	NOR	2		2.0	0.8	10		5.0		135m	1.0 †	0	7	4	74-02N	DIP14b
97♦	N7402N	TTL	NOR	2		2.0	0.8	10		5.0		135m	0.4	0	7	4	74-02N	DIP14a
98♦	PC54HC02D(A)	CMS	NOR	2		3.15	0.9	10		5.0		500m	0.8	5	C	4	74-02	DIP14b
99♦	PC54HCT02D(A)	CMS	NOR	2		2.0	0.8	10		5.0		500m	0.7	5	C	4	74-02	DIP14b
100♦	PC74HC02D(A)	CMS	NOR	2		3.15	0.9	10		5.0		500m	0.8	4	8	4	74-02	DIP14b
101♦	PC74HCT02D(A)	CMS	NOR	2		2.0	0.8	10		5.0		500m	0.7	4	8	4	74-02	DIP14b
102♦	S54F02F	TTL	NOR	2		2.0	0.8			5.0		7.5n	300m	5	C	4	74-02N	DIP14b
103♦	S54LS02F	TTL	NOR	2		2.0	0.7			5.0		27m	0.3	5	C	4	74-02N	DIP14b
104♦	S54S02F	TTL	NOR	2		2.0	0.8	10		5.0		225m	0.4	5	C	4	74-02N	DIP14b
105♦	S5402F	TTL	NOR	2		2.0	0.8	10		5.0		135m	1.0 †	5	C	4	74-02N	DIP14b
106♦	SFC402E	TTL	NOR	2		2.0	0.8	10		5.0		56m	1.0	0	7	4	74-02N	TO-116
107♦	SFC402EM	TTL	NOR	2		2.0	0.8	10		5.0		56m	1.0	5	C	4	74-02N	TO-116
108♦	SFC402ET	TTL	NOR	2		2.0	0.8	10		5.0		56m	1.0	2	8	4	74-02N	TO-116
109♦	SFC402EV	TTL	NOR	2		2.0	0.8	10		5.0		56m	1.0	4	8	4	74-02N	TO-116
110♦	SN54LS02J	TTL	NOR	2		2.0	0.7					15n	0.3	5	C	4	74-02	DIP14a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - NOR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1▼	SN54LS02N	TTL	NOR	2		2.0	0.7					15n	0.3	5	C	4	74-02	DIP14a
2♦	SN74LS02D	TTL	NOR	2		2.0	0.8			5.0		15n	0.4	0	7	4	74-02	FP147
3♦	SN74LS02J	TTL	NOR	2		2.0	0.8					15n	0.3	0	7	4	74-02	DIP14a
4♦	SN74LS02N	TTL	NOR	2		2.0	0.8					15n	0.3	0	7	4	74-02	DIP14a
5♦	SN74S02D	TTL	NOR	2		2.0	0.8			5.0		5.5n	0.3	0	7	4	74-02	FP147
6♦	SN74S02N	TTL	NOR	2		2.0	0.8					225m	0.3	0	7	4	74-02N	DIP14a
7♦	SN5402J	TTL	NOR	2		2.0	0.8	10				135m	0.4	5	C	4	74-02N	DIP14a
8♦	SN7402N	TTL	NOR	2		2.0	0.8	10				135m	0.4	0	7	4	74-02N	DIP14a
9♦	T54LS02D2	TTL	NOR	2		2.0	0.7	11d		5.0		27mQ	300m	5	C	4	74-02N	DIP14b
10♦	T74LS02B1	TTL	NOR	2		2.0	0.8*	22d		5.0		27mQ	300m	0	7	4	74-02N	DIP14a
11♦	T74LS02D1	TTL	NOR	2		2.0	0.8	22d		5.0		27mQ	300m	0	7	4	74-02N	DIP14b
12♦	TC40H002P	CMS	NOR	2		4.0	1.0	50		10		300m	.95	4	8	4	74-02N	MO001AA
13♦	US74HCT02N(A)	CMS	NOR	2		2.0	0.8	10		5.0		500m	750m	4	8	4	74-02N	DIP14 ☑
14	10G001	GA	NOR	2		-0.7	-1.8		5.2		320p			0	8	4	G03-352	None
15▼	MC10H102FN	ECL	NOR	2		-1.1	-1.4		5.2		1.5n	25m	150m	0	7	4	G03-272	DIP16a
16♦	MC10H102L	ECL	NOR	2		-1.1	-1.4		5.2		1.5n	25m	150m	0	7	4	G03-272	DIP16a
17▼	MC10H102LD	ECL	NOR	2		-1.1	-1.4		5.2		1.5n	25m	150m	0	7	4	G03-272	DIP16a
18▼	MC10H102LDS	ECL	NOR	2		-1.1	-1.4		5.2		1.5n	25m	150m	0	7	4	G03-272	DIP16a
19♦	MC10H102P	ECL	NOR	2		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G03-272	DIP16b
20▼	MC10H102PD	ECL	NOR	2		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G03-272	DIP16b
21▼	MC10H102PDS	ECL	NOR	2		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G03-272	DIP16b
22♦	MC10H102J(A)	ECL	NOR	2		-1.1	-1.4		5.2		1.7n		150m	0	7	4	G03-272	DIP16a
23♦	MC10H102N	ECL	NOR	2		-1.1	-1.4		5.2		1.7n		150m	0	7	4	G03-272	DIP16a
24♦	MC1662L	ECL	NOR	2		-1.1	-1.4	70	5.2		1.7n	240m†		3	8	4	G03-335	DIP16a
25▼	MC1662LD	ECL	NOR	2		-1.1	-1.4	70	5.2		1.7n	240m†		3	8	4	G03-335	DIP16a
26▼	MC1662LDS	ECL	NOR	2		-1.1	-1.4	70	5.2		1.7n	240m†		3	8	4	G03-335	DIP16a
27♦	SP1662DG	ECL	NOR	2		-1.1	-1.4		5.2		1.9n			0	7	4	G03-335	DIP16b
28♦	GXB10102	ECL	NOR	2		-1.1	-1.4		5.2		2.0n	100m†		0	7	4	G03-272	DIP16b
29♦	MB10102	ECL	NOR	2		-1.1	-1.4	70	5.2		2.0n	100m†		3	8	4	G03-272	DIP16b
30♦	MB10102M	ECL	NOR	2		-1.1	-1.4	70	5.2		2.0n	100m†		3	8	4	G03-272	DIP16b
31♦	DM10102J	ECL	NOR	2		-1.1	-1.4		5.2		2.9n	100m†		3	8	4	G03-277	DIP16a
32♦	F10102DC	ECL	NOR	2		-1.1	-1.4	80g	5.2		2.9n	135mQ	145m*	0	7	4	G03-310	DIP16a
33♦	F10502DM	ECL	NOR	2		-1.1	-1.4	40g	5.2		2.9n	135mQ	145m*	5	C	4	G03-310	DIP16a
34♦	F10502FM	ECL	NOR	2		-1.1	-1.4	40g	5.2		2.9n	135mQ	145m*	5	C	4	G03-310	FP103
35▼	MC10102FN	ECL	NOR	2		-1.1	-1.4	90	5.2		2.9n	100m†	150m	3	8	4	G03-272	DIP16a
36♦	MC10102L	ECL	NOR	2		-1.1	-1.4	90	5.2		2.9n	100m†	150m	3	8	4	G03-272	DIP16a
37▼	MC10102LD	ECL	NOR	2		-1.1	-1.4	90	5.2		2.9n	100m†	150m	3	8	4	G03-272	DIP16a
38▼	MC10102LDS	ECL	NOR	2		-1.1	-1.4	90	5.2		2.9n	100m†	150m	3	8	4	G03-272	DIP16a
39♦	MC10102P	ECL	NOR	2		-1.1	-1.4	90	5.2		2.9n	100m†	150m	3	8	4	G03-272	DIP16b
40▼	MC10102PD	ECL	NOR	2		-1.1	-1.4	90	5.2		2.9n	100m†	150m	3	8	4	G03-272	DIP16b
41▼	MC10102PDS	ECL	NOR	2		-1.1	-1.4	90	5.2		2.9n	100m†	150m	3	8	4	G03-272	DIP16b
42♦	MC10502F	ECL	NOR	2		-1.1	-1.4		5.2		2.9n	100m†		5	C	4	G03-277	FP85
43♦	MC10502L	ECL	NOR	2		-1.1	-1.4		5.2		2.9n	100m†		5	C	4	G03-277	DIP16b
44♦	F95102DC	ECL	NOR	2		-1.1	-1.4	78g	5.2		3.1n	135mQ	140m*	0	7	4	G03-310	DIP16a
45♦	10102F	ECL	NOR	2		-1.1	-1.4		5.2		3.3n	100m†		3	8	4	G03-272	DIP16a
46♦	10102N	ECL	NOR	2		-1.1	-1.4		5.2		3.3n	100m†		3	8	4	G03-272	DIP16a
47♦	HD10102	ECL	NOR	2		-1.1	-1.4		5.2		3.3n	200m		3	8	4	G03-322	DIP16b
48▼	SN74AS02D	TTL	NOR	2		2.0	0.8			5.0	4.5n		0.3	0	7	4	74-02N	FP147
49♦	SN74AS02N	TTL	NOR	2		2.0	0.8			5.0	4.5n		0.3	0	7	4	74-02N	DIP14a
50♦	54LS02FM	TTL	NOR	2		2.0	0.7	5		5.0	5.0n	27mQ	300m	5	C	4	54S02W	TO-86
51♦	SN54AS02J	TTL	NOR	2		2.0	0.8			5.0	5.0n		0.3	5	C	4	74-02N	DIP14a
52♦	S54S02W	TTL	NOR	2		2.0	0.8	10		5.0	5.5n	225m	0.4	5	C	4	54S02W	FP153
53♦	SN54S02J	TTL	NOR	2		2.0	0.8			5.0	5.5n	225m	0.3	5	C	4	74-02	DIP14a
54♦	74F02L1C	TTL	NOR	2		2.0	0.8			5.0	6.0n			0	7	4	G03-336	LC19
55♦	74F02QC	TTL	NOR	2		2.0	0.8			5.0	6.0n			0	7	4	G03-336	LC26
56♦	74F02SC	TTL	NOR	2		2.0	0.8			5.0	6.0n			0	7	4	54S02	FP147
57▼	MC3002L	TTL	NOR	2		2.4	0.4C	10		5.0	6.0n	122m†		0	7	4	74H02P	TO-116
58▼	MC3002P	TTL	NOR	2		2.4	0.4C	10		5.0	6.0n	122m†		0	7	4	74H02P	DIP14a
59♦	MC3102F	TTL	NOR	2		2.4	0.4C	10		5.0	6.0n	122m†		5	C	4	54S02W	TO-86
60♦	MC3102L	TTL	NOR	2		2.4	0.4C	10		5.0	6.0n	122m†		5	C	4	74H02P	TO-116
61♦	N74F02D	TTL	NOR	2		2.0	0.8			5.0	6.5n			0	7	4	74-02	FP147
62♦	N74F02N	TTL	NOR	2		2.0	0.8			5.0	6.5n			0	7	4	74-02	DIP14a
63♦	54F02FM	TTL	NOR	2		2.0	0.8	12		5.0	7.0n	65m		5	C	4	54S02W	FP115
64♦	54F02L1M	TTL	NOR	2		2.0	0.8			5.0	7.0n			5	C	4	G03-336	LC19
65♦	DM54S02J	TTL	NOR	2		2.0	0.8	20		5.0	7.5n		0.3	5	C	4	54S02	DIP14a
66♦	DM74S02N	TTL	NOR	2		2.0	0.8	20		5.0	7.5n		0.3	0	7	4	74-02	DIP14a
67♦	S54F02G	TTL	NOR	2		2.0	0.8			5.0	7.5n		300m	5	C	4	G03-329	LC24
68♦	S54F02W	TTL	NOR	2		2.0	0.8			5.0	7.5n			5	C	4	54S02W	FP ☑
69♦	N8885F	TTL	NOR	2		2.6	0.4C	20		5.0	9.0n	37m	600m	0	7	4	G03-218d	DIP14a
70♦	N8885J	TTL	NOR	2		2.6	0.4C	20		5	9.0n	37m	600m	0	7	4	G03-218d	TO-88
71♦	S8885A	TTL	NOR	2		2.6	0.4C	20		5	9.0n	37m	600m	5	C	4	G03-218d	TO-116
72♦	S8885F	TTL	NOR	2		2.6	0.4C	20		5.0	9.0n	37m	600m	5	C	4	G03-218d	DIP14a
73♦	S8885J	TTL	NOR	2		2.6	0.4C	20		5	9.0n	37m	600m	5	C	4	G03-218d	TO-88
74▼	SN74ALS02D	TTL	NOR	2		2.0	0.8			5.0	12n		0.4	0	7	4	74-02N	FP147
75♦	SN74ALS02FN	TTL	NOR	2		2.0	0.8			5.0	12n			0	7	4	G03-329	LC20
76♦	SN74ALS02N	TTL	NOR	2		2.0	0.8			5.0	12n		0.4	0	7	4	74-02N	DIP14a
77♦	5402FM	TTL	NOR	2		2.0	0.8	20		5.0	15n	135m	1.0	5	C	4	54-02W	FP52
78▼	HD74LS02G	TTL	NOR	2		2.0	0.8			5.0	15n	400m	300m	2	7	4	74-02N	DIP14a
79♦	HD74LS02P	TTL	NOR	2		2.0	0.8			5.0	15n	400m	300m	2	7	4	74-02N	DIP14a
80♦	M74HC02C1(A)	CMS	NOR	2		3.15	1.35	10		5.0	15n	500m	1.2	4	8	4	G03-329	LC33
81♦	S54LS02G	TTL	NOR	2		2.0	0.7			5.0	15n	27m	0.3	5	C	4	G03-329	LC25
82♦	S54LS02W	TTL	NOR	2		2.0	0.7			5.0	15n	27m	0.3	5	C	4	54S02W	FP153
83♦	UPD74HC02C(A)	CMS	NOR	2		4.2	1.2			5.0	17n	500m		4	8	4	74H02	MO001AA
84♦	SN54ALS02J	TTL	NOR	2		2.0	0.7			5.0	18n		0.3	5	C	4	74-02N	DIP14a
85	74HC02D	CMS	NOR	2		3.15	1.35	10		5.0	20n		1.2	4	8	4	74H02	FP147
86♦	74HC02N	CMS	NOR	2		3.15	1.35	10		5.0	20n		1.2	4	8	4	74H02	DIP14a
87♦	CD74HC02E	CMS	NOR	2		3.15	1.35	10		5.0	20n	500m	1.2	4	8	4	74-02N	MO001AB
88♦	CD74HC02M	CMS	NOR	2		3.15	1.35	10		5	20n	400m	1.2	4	8	4	74-02N	FP147
89♦	CD74HCT02E	CMS	NOR	2		2.00	0.80	10		5.0	20n	500m	0.7	4	8	4	74-02N	MO001AB
90♦	CD74HCT02M	CMS	NOR	2		2.0	0.8	10		5	20n	400m	0.7	4	8	4	74-02N	FP147
91♦	HEF4001UBPN	CMS	NOR	2		11.0	4.0	16e		15	20n	400m		4	8	4	40-01B	DIP14b
92♦	LC74HC02	CMS	NOR	2		3.5	1.5	10		5.0	20n	0.3	1.1	4	8	4	74-02	DIP14a
93♦	SP380A	DTL	NOR	2		3.8	0.6	16		5.0	20n	22m†	1.2	0	7	4	None	DIP14a
94♦	MM74PC02J	CMS	NOR	2		4.0	1.0			5.0	21n	500m		0	7	4	74-02N	DIP14b
95♦	MM74PC02JI	CMS	NOR	2		4.0	1.0			5.0	21n	500m		4	8	4	74-02N	DIP14b
96♦	MM74PC02N	CMS	NOR	2		4.0	1.0			5.0	21n	500m		0	7	4	74-02N	DIP14a
97♦	MM74PC02NI	CMS	NOR	2		4.0	1.0			5.0	21n	500m		4	8	4	74-02N	DIP14a
98♦	54LS33FM	TTL	NOR	2	OC	2.0	0.7	11d		5.0	22n	69mQ	300m*	5	C	4	54-33W	FP21h
99♦	74LS33PC	TTL	NOR	2	OC	2.0	0.8	22d		5.0	22n	69mQ	300m*	0	7	4	74-33N	DIP14a
100♦	DM5402W	TTL	NOR	2		2.0	0.8	10		5.0	22n	56m†	400m	5	C	4	54-02W	FP97a
101♦	S5402W	TTL	NOR	2		2.0	0.8	10		5.0	22n	135m	1.0 †	5	C	4	54-02W	FP39e
102♦	SFC402P	TTL	NOR	2		2.0	0.8	10		5.0	22n	56m	1.0	0	7	4	54-02W	TO-85
103♦	SFC402PM	TTL	NOR	2		2.0	0.8	10		5.0	22n	56m	1.0	5	C	4	54-02W	TO-85
104♦	CD54HC02F	CMS	NOR	2		3.15	1.35	10		5.0	23n	500m	1.2	5	C	4	74-02N	MO001AB
105♦	CD54HCT02F	CMS	NOR	2		2.00	0.80	10		5.0	23n	500m	0.7	5	C	4	74-02N	MO001AB
106▼	SN74HC02D	CMS	NOR	2		3.15	0.9			5.0	23n		1.7	4	8	4	74-02N	FP147
107♦	SN74HC02N	CMS	NOR	2		3.15	0.9			5.0	23n		1.7	4	8	4	74-02N	MO001AA
108▼	TC74HC02F(A)	CMS	NOR	2		3.15	1.35	10d		5.0	23n	180m	1.3	4	8	4	74-02N	FP166
109♦	TC74HC02P(A)	CMS	NOR	2		3.15	1.35	10d		5.0	23n	500m	1.4	4	8	4	74-02N	MO001AA
110	74HCT02D	CMS	NOR	2		2.0	0.8	10		5.0	24n		0.7	4	8	4	74H02	FP147

5. GATES - NOR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	74HCT02N	CMS	NOR	2		2.0	0.8	10		5.0	24n		0.7	4	8	4	74H02	DIP14a
2♦	MC1811L,P	DTL	NOR	2		2.6	.45C	7		5.0	25n	100m		0	7	4	1-800	TO-116
3♦	MC1911F	DTL	NOR	2		2.6	0.4C	7		5.0	25n	100m		5	C	4	1-800	TO-86
4♦	MC1911L	DTL	NOR	2		2.6	0.4C	7		5.0	25n	100m		5	C	4	1-800	TO-116
5▼	SN74HC36D	CMS	NOR	2		3.15	0.9			5.0	25n			4	8	4	74HC36	FP147
6♦	SN74HC36N	CMS	NOR	2		3.15	0.9			5.0	25n			4	8	4	74HC36	MO001AA
7♦	PC74HC02P	CMS	NOR	2		3.15	1.35	10		5.0	27n	500m	0.8	4	C	4	74-02	DIP14b
8♦	PC74HC02T(A)	CMS	NOR	2		3.15	1.35	10		5.0	27n	300m	0.8	4	C	4	74-02	FP147
9♦	SN54HC02J	CMS	NOR	2		3.15	0.9			5.0	27n		1.7	5	C	4	74-02N	MO001AA
10♦	TC40H002F	CMS	NOR	2		4.0	1.0			10	27n	180m	.95	4	8	4	54S02	FP166
11♦	PC74HCT02P	CMS	NOR	2		2.0	0.8	10		5.0	29n	500m	0.7	4	C	4	74-02	DIP14b
12♦	PC74HCT02T	CMS	NOR	2		2.0	0.8	10		5.0	29n	300m	0.7	4	C	4	74-02	FP147
13♦	HEF4001P	CMS	NOR	2		7.0	3.0			10	30n	300uQ		4	8	4	40-01B	TO-116
14▼	MC1810L	DTL	NOR	2		2.6	.45C	8		5.0	30n	75m		0	7	4	1-800	TO-116
15▼	MC1810P	DTL	NOR	2		2.6	.45C	8		5.0	30n	75m		0	7	4	1-800	TO-116
16♦	MC1910F	DTL	NOR	2		2.6	0.4C	8		5.0	30n	75m		5	C	4	1-800	TO-86
17♦	MC1910L	DTL	NOR	2		2.6	0.4C	8		5.0	30n	75m		5	C	4	1-800	TO-116
18♦	SN54HC36J	CMS	NOR	2		3.15	0.9			5.0	30n			5	C	4	74HC36	MO001AA
19♦	FCH181	DTL	NOR	2		2.3	0.8	8		5.0	31n	28m	1.2	0	7	4	G03-180h	TO-116
20♦	FCH191	DTL	NOR	2		2.3	0.8	8		5.0	31n	44m	1.2	0	7	4	G03-180j	TO-116
21♦	MM4601AD	CMS	NOR	2		7.0	3.0			10	35n	500m	450m	5	C	4	40-01B	DIP14a
22♦	MM5601AN	CMS	NOR	2		7.0	3.0			10	35n	500m	450m	4	8	4	40-01B	DIP14a
23♦	CD4001MJ	CMS	NOR	2		9.99	.01C			10	40n	500m	4.5	5	C	4	40-01B	DIP14a
24♦	CD4001MW	CMS	NOR	2		9.99	.01C			10	40n	500m	4.5	5	C	4	40-01B	FP97c
25♦	HEF4001	CMS	NOR	2		11	4.0	16e		15	40n	400m	6.7	4	8	4	40-01B	DL ☑
26♦	HEF4001BPN	CMS	NOR	2		11.0	4.0	16e		15	40n	400m	6.7	4	8	4	40-01B	DIP14b
27♦	HEF4001BTD	CMS	NOR	2		11.0	4.0	50e		15	40n	200m	6.7	4	8	4	40-01B	FP147
28♦	HEF4001U	CMS	NOR	2		11	4.0	16e		15	40n	400m	6.7	4	8	4	40-01B	DL ☑
29♦	LC4001BM	CMS	NOR	2		3.5	1.5			5.0	40n	150m		4	8	4	40-01	FP151
30♦	MC14001UBAL	CMS	NOR	2		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	4	40-01B	DIP14a
31▼	MC14001UBALD	CMS	NOR	2		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	4	40-01B	DIP14a
32▼	MC14001UBALDS	CMS	NOR	2		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	4	40-01B	DIP14a
33▼	MC14001UBALS	CMS	NOR	2		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	4	40-01B	DIP14a
34♦	MC14001UBCL	CMS	NOR	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-01B	DIP14a
35▼	MC14001UBCLD	CMS	NOR	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-01B	DIP14a
36▼	MC14001UBCLDS	CMS	NOR	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-01B	DIP14a
37▼	MC14001UBCLS	CMS	NOR	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-01B	DIP14a
38♦	MC14001UBCP	CMS	NOR	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-01B	DIP14a
39▼	MC14001UBCPD	CMS	NOR	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-01B	DIP14a
40▼	MC14001UBCPDS	CMS	NOR	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-01B	DIP14a
41▼	MC14001UBCPS	CMS	NOR	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-01B	DIP14a
42▼	MC14001UBD	CMS	NOR	2		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	4	40-01B	DIP14a
43♦	CM4001AD	CMS	NOR	2		10	0C			10	45n	200m	4.5	5	C	4	40-01B	DIP14a
44♦	HBC4001AD	CMS	NOR	2		10	0C			10	45n	1.0uQ	4.5	5	C	4	40-01B	MO001AD
45♦	HBC4001AF	CMS	NOR	2		10	0C			10	45n	1.0uQ	4.5	5	C	4	40-01B	MO001AD
46♦	HBC4001AK	CMS	NOR	2		10	0C			10	45n	1.0uQ	4.5	5	C	4	40-01B	MO004AF
47♦	SFF24001AKM	CMS	NOR	2		9.99	.01C			10	45n	200m	3.0 *	5	C	4	40-01B	TO-116
48♦	4001BDC	CMS	NOR	2		11	4.0	25e		15	48n	450uQ	6.7	4	8	4	40-01B	TO-116
49♦	4001BDM	CMS	NOR	2		11	4.0	25e		15	48n	450uQ	6.7	5	C	4	40-01B	TO-116
50♦	4001BFC	CMS	NOR	2		11	4.0	25e		15	48n	450uQ	6.7	4	8	4	40-01B	FP21h
51♦	4001BFM	CMS	NOR	2		11	4.0	25e		15	48n	450uQ	6.7	5	C	4	40-01B	FP21h
52♦	4001BPC	CMS	NOR	2		11	4.0	25e		15	48n	450uQ	6.7	4	8	4	40-01B	DIP14a
53♦	883C4001UB	CMS	NOR	2		8.2	6.7			15	50n	300m		5	C	4	40-01B	MO001AA
54♦	BCL4001UB	CMS	NOR	2		8.2	6.7			15	50n	300m		5	C	4	40-01B	MO001AA
55♦	HEF4001BD	CMS	NOR	2		7.0	3.0			10	50n	500m		4	8	4	40-01B	DIP14a
56♦	HEF4001BP	CMS	NOR	2		7.0	3.0			10	50n	500m		4	8	4	40-01B	DIP14a
57♦	HEF4001BT	CMS	NOR	2		7.0	3.0			10	50n	400m		4	8	4	40-01	FP147
58♦	HEF4001UBTD	CMS	NOR	2		11.0	4.0	50e		15	50n	200m	6.7	4	8	4	40-01B	FP147
59♦	SFF24001AEV	CMS	NOR	2		9.99	.01C			10	55n	200m	3.0 *	4	8	4	40-01B	TO-116
60♦	CD4001AD	CMS	NOR	2		9.95	0.05C			15	60n	200m	4.5	5	C	4	40-01B	MO001AD
61♦	CD4001AE	CMS	NOR	2		9.95	0.05C			15	60n	200m	4.5	4	8	4	40-01B	MO001AB
62♦	CD4001AF	CMS	NOR	2		9.95	0.05C			15	60n	200m	4.5	5	C	4	40-01B	MO001AB
63♦	CD4001UBD	CMS	NOR	2		2.0	8.0			15	60n	500m	2.0	5	C	4	40-01B	MO001AD
64♦	CD4001UBE	CMS	NOR	2		2.0	8.0			15	60n	500m	2.0	4	8	4	40-01B	MO001AB
65♦	CD4001UBF	CMS	NOR	2		2.0	8.0			15	60n	500m	2.0	5	C	4	40-01B	MO001AD
66♦	DM54L02W	TTL	NOR	2		2.0	0.7	4		5.0	60n		0.4	5	C	4	54-02W	FP97c
67▼	HEF4001UB	CMS	NOR	2		8.0	2.0			10	60n	500m		4	8	4	40-01	DIP14a
68♦	HEF4001UBD	CMS	NOR	2		8.0	2.0			10	60n	500m		4	8	4	40-01	DIP14a
69♦	HEF4001UBP	CMS	NOR	2		7.0	3.0			10	60n	400m		4	8	4	40-01	DIP14a
70♦	HEF4001UBT	CMS	NOR	2		8.0	2.0			10	60n	400m		4	8	4	40-01	FP147
71♦	MN4001B	CMS	NOR	2		11.0	4.0			15	60n	400m	3.9	4	8	4	40-01B	DIP14a
72♦	SP381A	DTL	NOR	2			0.6C	5		5.0	60n			0	7	4	G03-270	TO-116
73♦	CD4001CJ	CMS	NOR	2		9.99	.01C			10	65n	500m	4.5	4	8	4	40-01B	DIP14a
74♦	CD4001CN	CMS	NOR	2		9.99	.01C			10	65n	500m	4.5	4	8	4	40-01B	DIP14a
75♦	CM4001AE	CMS	NOR	2		10	0C			10	65n	200m	4.5	4	8	4	40-01B	DIP14a
76♦	HBF4001AE	CMS	NOR	2		10	0C			10	65n	50uQ	4.5	4	8	4	40-01B	MO001AB
77♦	HBF4001AF	CMS	NOR	2		10	0C			10	65n	50uQ	4.5	4	8	4	40-01B	MO001AD
78♦	CD4001BCJ	CMS	NOR	2		11	4.0	16e		15	70n	60uQ	6.7	4	8	4	40-01B	DIP14a
79♦	CD4001BCN	CMS	NOR	2		11	4.0	16e		15	70n	60uQ	6.7	4	8	4	40-01B	DIP14a
80♦	CD4001BMJ	CMS	NOR	2		11	4.0	19e		15	70n	15uQ	6.7	5	C	4	40-01B	DIP14a
81♦	CD4001BMW	CMS	NOR	2		11	4.0	19e		15	70n	15uQ	6.7	5	C	4	40-01B	FP97c
82♦	MB84001B	CMS	NOR	2		10.5	4.5	16e		15	80n	60uQ	4.5 *	4	8	4	40-01B	DIP14b
83♦	MB84001BM	CMS	NOR	2		10.5	4.5	16e		15	80n	60uQ	4.5 *	4	8	4	40-01B	DIP14a
84♦	MC14001BAL	CMS	NOR	2		11	4.0	50		15	80n	15uQ	2.5 *	5	C	4	40-01B	TO-116
85▼	MC14001BALD	CMS	NOR	2		11	4.0	50		15	80n	15uQ	2.5 *	5	C	4	40-01B	TO-116
86▼	MC14001BALDS	CMS	NOR	2		11	4.0	50		15	80n	15uQ	2.5 *	5	C	4	40-01B	TO-116
87▼	MC14001BALS	CMS	NOR	2		11	4.0	50		15	80n	15uQ	2.5 *	5	C	4	40-01B	TO-116
88♦	MC14001BCL	CMS	NOR	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-01B	TO-116
89▼	MC14001BCLD	CMS	NOR	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-01B	TO-116
90▼	MC14001BCLDS	CMS	NOR	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-01B	TO-116
91▼	MC14001BCLS	CMS	NOR	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-01B	TO-116
92♦	MC14001BCP	CMS	NOR	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-01B	TO-116
93▼	MC14001BCPD	CMS	NOR	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-01B	TO-116
94▼	MC14001BCPDS	CMS	NOR	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-01B	TO-116
95▼	MC14001BCPS	CMS	NOR	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-01B	TO-116
96▼	MC14001BD	CMS	NOR	2		11	4.0	50		15	80n	60uQ	2.5 *	4	8	4	40-01B	TO-116
97♦	TC4001UBP	CMS	NOR	2		14.9	.05C	50		15	80n	300m	4.0	4	8	4	40-01B	DIP14a
98♦	UPD4001BC	CMS	NOR	2		11.0	4.0			15	80n	200m	3.9	4	8	4	40-01	MO001AA
99♦	UPD4001BG	CMS	NOR	2		11.0	4.0			15	80n	200m	3.9	4	8	4	40-01	FP161
100♦	883C4001B	CMS	NOR	2		8.2	6.7			15	90n	300m		5	C	4	40-01B	MO001AA
101♦	BCL4001B	CMS	NOR	2		8.2	6.7			15	90n	300m		5	C	4	40-01B	MO001AA
102♦	HCC4001BD	CMS	NOR	2		11	4.0			15	90n	200m	2.5 *	5	C	4	40-01B	DIP14a
103♦	HCC4001BF	CMS	NOR	2		11	4.0			15	90n	200m	2.5 *	5	C	4	40-01B	DIP14a
104♦	HCC4001BK	CMS	NOR	2		11	4.0			15	90n	200m	2.5 *	5	C	4	40-01B	FP130
105♦	HCF4001BE	CMS	NOR	2		11	4.0			15	90n	200m	2.5 *	4	8	4	40-01B	DIP14a
106♦	HCF4001BF	CMS	NOR	2		11	4.0			15	90n	200m	2.5 *	4	8	4	40-01B	DIP14a
107♦	CD4001BD	CMS	NOR	2		7.0	3.0			15	120n	500m	2.0	5	C	4	40-01B	MO001AD
108♦	CD4001BE	CMS	NOR	2		7.0	3.0			15	120n	500m	2.0	4	8	4	40-01B	MO001AB
109♦	CD4001BF	CMS	NOR	2		7.0	3.0			10	120n	500m	2.0	5	C	4	40-01B	MO001AB
110♦	NJU4001BD	CMS	NOR	2		7.0	3.0			10	120n	0.5	2.9	4	8	4	40-01	FP151

5. GATES - NOR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	NJU4001BN	CMS	NOR	2		7.0	3.0			10	120n	0.5	2.9	4	8	4	40-01	DIP14a
2♦	LC4001B	CMS	NOR	2		11	4.0			15	125n	300m		4	8	4	40-01B	DIP14a
3♦	M4001BP	CMS	NOR	2		11	4.0			15	125n	500m	4.0	4	8	4	40-01B	DIP14a
4♦	SCL4001B	CMS	NOR	2		7.0	3.0	50		15	125n	300m	3.0	4	8	4	40-01B	DIP14a
5♦	SCL4001UB	CMS	NOR	2		7.0	3.0	50		15	125n	300m	3.0	5	C	4	40-01B	MO001AA
6♦	TC4001BP	CMS	NOR	2		14.9	.05C	50		15	125n	300m	4.0	4	8	4	40-01B	DIP14a
7♦	MSM505RS	CMS	NOR	2		3.6	0.8	40e		5.0	150n		0.6	3	8	4	40-01B	DIP14a
8♦	MSM4001	CMS	NOR	2		7.2	2.0	16e		10	150n	300uQ	2.0 *	2	7	4	40-01B	DIP14a
9♦	MSM505	CMS	NOR	2		3.6	0.8	15		5.0	300n	25u		2	7	4	40-01B	DIP14a
10♦	MSM4001RS	CMS	NOR	2		3.6	1.0	40		10	300n		0.6	4	8	4	40-01B	DIP14 ☑
11♦	FZH301	DTL	NOR	2	TS	30	4.5	3		15	1.0u	272m	5.0	0	7	4	74H02	DIP14a ☑
12♦	FZH305	DTL	NOR	2	TS	30	4.5	3		15	1.0u	272m	5.0	2	8	4	74H02	DIP14a ☑
13▼	HD74HC02FP	CMS	NOR	2		3.15	1.35			5.0	500m	6.5n	1.2	4	8	4	74-02N	FP161
14▼	HD74HC02P	CMS	NOR	2		3.15	1.35			5.0	500m	6.5n	1.2	4	8	4	74-02N	DIP14a
15♦	903HM	RTL	NOR	3				16		3.6	15n	20m	250m	0	7	1	G03-89	TO-99
16♦	9903HC	RTL	NOR	3				16		3.6	15n	20m	250m	0	7	1	G03-89	TO-99
17▼	MC10H211FN	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	2	G03-294	DIP16a
18♦	MC10H211J	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		.15	0	7	2	G03-334	DIP16
19♦	MC10H211L	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	2	G03-294	DIP16a
20▼	MC10H211LD	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	2	G03-294	DIP16a
21▼	MC10H211LDS	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	2	G03-294	DIP16a
22♦	MC10H211N	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		.15	0	7	2	G03-334	DIP16a
23♦	MC10H211P	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	2	G03-294	DIP16b
24▼	MC10H211PD	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	2	G03-294	DIP16b
25▼	MC10H211PDS	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	2	G03-294	DIP16b
26♦	MC10211P	ECL	NOR	3		-1.1	-1.4		5.2		1.5n	150m†		3	8	2	G03-294	DIP16b
27▼	MC10211PD	ECL	NOR	3		-1.1	-1.4		5.2		1.5n	150m†		3	8	2	G03-294	DIP16b
28▼	MC10211PDS	ECL	NOR	3		-1.1	-1.4		5.2		1.5n	150m†		3	8	2	G03-294	DIP16b
29♦	GXB10111	ECL	NOR	3		-1.1	-1.4		5.2		2.4n	150m†		0	7	2	G03-263	DIP16b
30♦	MB10111	ECL	NOR	3		-1.1	-1.4	70	5.2		2.4n	160m†		3	8	2	G03-263	DIP16b
31♦	MB10111M	ECL	NOR	3		-1.1	-1.4	70	5.2		2.4n	160m†		3	8	2	G03-263	DIP16b
32♦	F10211DC	ECL	NOR	3		-1.1	-1.4	80g	5.2		2.5n	198mQ	145m*	0	7	2	G03-314	DIP16a
33♦	F10611DM	ECL	NOR	3		-1.1	-1.4	40g	5.2		2.5n	198mQ	145m*	5	C	2	G03-314	DIP16a
34♦	F10611FM	ECL	NOR	3		-1.1	-1.4	40g	5.2		2.5n	198mQ	145m*	5	C	2	G03-314	FP103
35♦	HD10211	ECL	NOR	3		-1.1	-1.4		5.2		2.5n	200m		3	8	2	G03-324	DIP16b
36▼	MC10211FN	ECL	NOR	3		-1.1	-1.4		5.2		2.5n	150m†		3	8	2	G03-294	DIP16a
37♦	MC10211L	ECL	NOR	3		-1.1	-1.4		5.2		2.5n	150m†		3	8	2	G03-294	DIP16a
38▼	MC10211LD	ECL	NOR	3		-1.1	-1.4		5.2		2.5n	150m†		3	8	2	G03-294	DIP16a
39▼	MC10211LDS	ECL	NOR	3		-1.1	-1.4		5.2		2.5n	150m†		3	8	2	G03-294	DIP16a
40♦	F95004DC	ECL	NOR	3		-1.1	-1.4	78g	5.2		3.1n	135mQ	140m*	0	7	2	G03-314	DIP16a
41♦	DM10111J	ECL	NOR	3		-1.1	-1.4		5.2		3.5n	197mQ		3	8	2	G03-263	DIP16a
42♦	F10111DC	ECL	NOR	3		-1.1	-1.4	80g	5.2		3.5n	198mQ	145m*	0	7	2	G03-313	DIP16a
43♦	F10511DM	ECL	NOR	3		-1.1	-1.4	40g	5.2		3.5n	198mQ	145m*	5	C	2	G03-313	DIP16a
44♦	F10511FM	ECL	NOR	3		-1.1	-1.4	40g	5.2		3.5n	198mQ	145m*	5	C	2	G03-313	FP103
45▼	MC10111FN	ECL	NOR	3		-1.1	-1.4		5.2		3.5n	160m†		3	8	2	G03-263	DIP16a
46♦	MC10111L	ECL	NOR	3		-1.1	-1.4		5.2		3.5n	160m†		3	8	2	G03-263	DIP16a
47▼	MC10111LD	ECL	NOR	3		-1.1	-1.4		5.2		3.5n	160m†		3	8	2	G03-263	DIP16a
48▼	MC10111LDS	ECL	NOR	3		-1.1	-1.4		5.2		3.5n	160m†		3	8	2	G03-263	DIP16a
49♦	MC10111P	ECL	NOR	3		-1.1	-1.4		5.2		3.5n	160m†		3	8	2	G03-263	DIP16b
50▼	MC10111PD	ECL	NOR	3		-1.1	-1.4		5.2		3.5n	160m†		3	8	2	G03-263	DIP16b
51▼	MC10111PDS	ECL	NOR	3		-1.1	-1.4		5.2		3.5n	160m†		3	8	2	G03-263	DIP16b
52♦	F95111DC	ECL	NOR	3		-1.1	-1.4	78g	5.2		3.8n	198mQ	145m*	0	7	2	G03-313	DIP16a
53♦	HD10111	ECL	NOR	3		-1.1	-1.4		5.2		3.8n	200m		3	8	2	G03-324	DIP16b
54♦	9915HC	RTL	NOR	3				16		3.6	15n	40m	250m	0	7	2	G03-77	TO-100
55♦	FCH221	DTL	NOR	3		2.3	0.8	16		5.0	93n	22m	1.2	0	7	2	G03-181	TO-116
56♦	MM480	TTL	NOR	3		-8.0	-1.0C	10	10		250n	24m		5	C	2	G03-202	TO-100
57♦	MM580	TTL	NOR	3		-8.0	-1.0C	10	10		250n	24m		0	7	2	G03-202	TO-100
58♦	54LS27DM	TTL	NOR	3		2.0	0.7			5.0		34mQ	300m	5	C	3	74-27N	TO-116
59♦	74LS27DC	TTL	NOR	3		2.0	0.8	5		5.0		34mQ	300m	0	7	3	74-27N	TO-116
60♦	74LS27PC	TTL	NOR	3		2.0	0.8	5		5.0		34mQ	300m	0	7	3	74-27N	TO-116
61♦	5427DM	TTL	NOR	3		2.0	0.8	20		5.0		130m		5	C	3	74-27N	TO-116
62♦	7427DC	TTL	NOR	3		2.0	0.8	20		5.0		130m		0	7	3	74-27N	TO-116
63♦	7427PC	TTL	NOR	3		2.0	0.8	20		5.0		130m		0	7	3	74-27N	DIP14a
64♦	DM54ALS27J	TTL	NOR	3		2.0	0.8	10		5.0		22n	0.4	5	C	3	74-27	DIP14a
65♦	DM54AS27J	TTL	NOR	3		2.0	0.8	50		5.0		6.5n	0.3	5	C	3	74-27	DIP14a
66♦	DM54LS27J	TTL	NOR	3		2.0	0.7	10		5.0		18n	0.3	5	C	3	74-27	DIP14a
67♦	DM74ALS27J	TTL	NOR	3		2.0	0.8	10		5.0		15n	0.3	0	7	3	74-27	DIP14a
68♦	DM74ALS27N	TTL	NOR	3		2.0	0.8	10		5.0		15n	0.3	0	7	3	74-27	DIP14a
69♦	DM74AS27J	TTL	NOR	3		2.0	0.8	50		5.0		5.5n	0.3	0	7	3	74-27	DIP14a
70♦	DM74AS27N	TTL	NOR	3		2.0	0.8	50		5.0		5.5n	0.3	0	7	3	74-27	DIP14a
71♦	DM74LS27N	TTL	NOR	3		2.0	0.8	10		5.0		18n	0.3	0	7	3	74-27	DIP14a
72♦	DM5427J	TTL	NOR	3		2.0	0.8			5.0		130m		5	C	3	74-27N	DIP16a
73♦	DM7427N	TTL	NOR	3		2.0	0.8			5.0		130m		0	7	3	74-27N	DIP16a
74♦	DN74LS27P1	TTL	NOR	3		2.0	0.8	20		5.0		400m	700m	2	7	3	74-27	DIP14a
75♦	DN74LS27P4	TTL	NOR	3		2.0	0.8	20		5.0		400m	700m	2	7	3	74-27	FP177
76♦	M54HC27F1(A)	CMS	NOR	3		3.15	1.35	10		5.0		500m	1.2	5	C	3	74-27	DIP14a
77♦	M74ALS27P	TTL	NOR	3		2.0	0.8			5.0		22m	0.4	2	7	3	74-27N	DIP14a
78♦	M74HC27B1(A)	CMS	NOR	3		3.15	1.35	10		5.0		500m	1.2	4	8	3	74-27	DIP14a
79♦	M74HC27F1(A)	CMS	NOR	3		3.15	1.35	10		5.0		500m	1.2	4	8	3	74-27	DIP14a
80♦	M74HC27P	CMS	NOR	3		4.2	1.8			5.0		15n		4	8	3	74-27	DIP14a
81♦	M74LS27P	TTL	NOR	3		2.0	0.8	20		5.0		13m†	0.4	2	7	3	74-27N	DIP14a
82♦	M53227P	TTL	NOR	3		2.0	0.8	20		5.0		137m		0	7	3	74-27N	DIP14a
83♦	MB74LS27	TTL	NOR	3		2.0	0.8	20		5.0		34m	1.0 *	2	7	3	74-27N	DIP14a
84♦	MB74LS27M	TTL	NOR	3		2.0	0.8	20		5.0		34m	1.0 *	2	7	3	74-27N	DIP14a
85♦	MC54HC27J(A)	CMS	NOR	3		3.15	0.9	10		5.0		500m	1.2	5	C	3	74-27N	DIP14a
86♦	MC74HC27J(A)	CMS	NOR	3		3.15	0.9	10		5.0		500m	1.2	4	8	3	74-27N	DIP14a
87♦	MC74HC27N(A)	CMS	NOR	3		3.15	0.9	10		5.0		500m	1.2	4	8	3	74-27N	DIP14a
88♦	N74LS27D	TTL	NOR	3		2.0	0.7			5.0		34m	0.3	0	7	3	74-27N	FP147
89♦	N74LS27F	TTL	NOR	3		2.0	0.8			5.0		34m		0	7	3	74-27N	DIP14b
90♦	N74LS27N	TTL	NOR	3		2.0	0.7	20		5.0		34m	0.3	0	7	3	74-27N	DIP14a
91♦	N7427F	TTL	NOR	3		2.0	0.8	10		5.0		130m		0	7	3	74-27N	DIP14b
92♦	N7427N	TTL	NOR	3		2.0	0.8	10		5.0		130m	0.4	0	7	3	74-27N	DIP14a
93♦	N8875A	TTL	NOR	3		2.6	0.4C	20		5		44m	600m	0	7	3	74-27N	TO-116
94♦	N8875F	TTL	NOR	3		2.6	0.4C	20		5.0		44m	600m	0	7	3	74-27N	DIP14a
95♦	PC54HC27D(A)	CMS	NOR	3		3.15	0.9	10		5.0		500m	0.8	5	C	3	74-27	DIP14b
96♦	PC54HCT27D(A)	CMS	NOR	3		2.0	0.8	10		5.0		500m	0.7	5	C	3	74-27	DIP14b
97♦	PC74HC27D(A)	CMS	NOR	3		3.15	0.9	10		5.0		500m	0.8	4	8	3	74-27	DIP14b
98♦	PC74HCT27D(A)	CMS	NOR	3		2.0	0.8	10		5.0		500m	0.7	4	8	3	74-27	DIP14b
99♦	PC74HCT27P	CMS	NOR	3		2.0	0.8	10		5.0		500m	0.7	4	8	3	74-27	DIP14b
100♦	PC74HCT27T	CMS	NOR	3		2.0	0.8	10		5.0		300m	0.7	4	8	3	74-27	FP147
101♦	S54LS27F	TTL	NOR	3		2.0	0.7			5.0		34m		5	C	3	74-27N	DIP14b
102♦	S5427F	TTL	NOR	3		2.0	0.8	10a		5.0		80m		5	C	3	74-27N	DIP14b
103♦	S8875A	TTL	NOR	3		2.6	0.4C	20		5		44m	600m	5	C	3	74-27N	TO-116
104♦	S8875F	TTL	NOR	3		2.6	0.4C	20		5.0		44m	600m	5	C	3	74-27N	DIP14a
105♦	SN54LS27J	TTL	NOR	3		2.0	0.7			5.0		15n	0.3	5	C	3	74-27N	DIP14a
106▼	SN54LS27N	TTL	NOR	3		2.0	0.7			5.0		15n	0.3	5	C	3	74-27N	DIP14a
107♦	SN74LS27D	TTL	NOR	3		2.0	0.8			5.0		15n	0.4	0	7	3	74-27	FP147
108♦	SN74LS27J	TTL	NOR	3		2.0	0.8			5.0		15n	0.4	0	7	3	74-27N	DIP14a
109♦	SN74LS27N	TTL	NOR	3		2.0	0.8			5.0		15n	0.4	0	7	3	74-27N	DIP14a
110♦	SN7427N	TTL	NOR	3		2.0	0.8	20		5.0		130m	0.4	0	7	3	74-27N	DIP14a

5. GATES - NOR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	T54LS27D2	TTL	NOR	3		2.0	0.7	20		5.0		17m†	300m	5	C	3	74-27N	DIP14b
2♦	T74LS27D1	TTL	NOR	3		2.0	0.8	20		5.0		17m†	300m	0	7	3	74-27N	DIP14b
3♦	TC40H027P	CMS	NOR	3		4.0	1.0	50		10		300m	.95	4	8	3	74-27N	MO001AA
4♦	US74HCT27N(A)	CMS	NOR	3		2.0	0.8	10		5.0		500m	750m	4	8	3	74-27N	DIP14 Ø
5▼	N74F27D	TTL	NOR	3		2.0	0.8			5.0	5.5n			0	7	3	74-27	DIP14a
6▼	N74F27N	TTL	NOR	3		2.0	0.8			5.0	5.5n			0	7	3	74-27	DIP14a
7▼	SN74AS27D	TTL	NOR	3		2.0	0.8			5.0	5.5n		0.3	0	7	3	74-27N	FP147
8♦	SN74AS27N	TTL	NOR	3		2.0	0.8			5.0	5.5n		0.3	0	7	3	74-27N	DIP14a
9♦	SN54AS27J	TTL	NOR	3		2.0	0.8			5.0	6.5n		0.3	5	C	3	74-27N	DIP14a
10♦	54LS27FM	TTL	NOR	3		2.0	0.7			5.0	8.0n	34mQ	300m	5	C	3	54-27W	TO-86
11♦	N8875J	TTL	NOR	3		2.6	0.4C	20		5	9.0n	44m	600m	0	7	3	54-27W	TO-88
12♦	S8875J	TTL	NOR	3		2.6	0.4C	20		5	9.0n	44m	600m	5	C	3	54-27W	TO-88
13▼	HD74HC27FP	CMS	NOR	3		3.15	1.35			5.0	10n	500m	1.2	4	8	3	74-27N	FP161
14▼	HD74HC27P	CMS	NOR	3		3.15	1.35			5.0	10n	500m	1.2	4	8	3	74-27N	DIP14a
15♦	UPD74HC27C(A)	CMS	NOR	3		4.2	1.2			5.0	12n	500m		4	8	3	74-27	MO001AA
16♦	5427FM	TTL	NOR	3		2.0	0.8	20		5.0	15n	130m		5	C	3	54-27W	FP52
17♦	DM5427W	TTL	NOR	3		2.0	0.8			5.0	15n	130m		5	C	3	54-27W	FP88a
18▼	HD74LS27G	TTL	NOR	3		2.0	0.8			5.0	15n	400m	300m	2	7	3	74-27N	DIP14a
19♦	HD74LS27P	TTL	NOR	3		2.0	0.8			5.0	15n	400m	300m	2	7	3	74-27N	DIP14a
20♦	M74HC27C1(A)	CMS	NOR	3		3.15	1.35	10		5.0	15n	500m	1.2	4	8	3	G03-330	LC33
21♦	S54LS27W	TTL	NOR	3		2.0	0.7			5.0	15n	34m		5	C	3	54-27W	FP39e
22♦	S5427W	TTL	NOR	3		2.0	0.8	10a		5.0	15n	130m		5	C	3	54-27W	FP39e
23▼	SN74ALS27D	TTL	NOR	3		2.0	0.8			5.0	15n		0.4	0	7	3	74-27N	FP147
24♦	SN74ALS27N	TTL	NOR	3		2.0	0.8			5.0	15n		0.4	0	7	3	74-27N	DIP14a
25	74HC27D	CMS	NOR	3		3.15	1.35	10		5.0	20n		1.2	4	8	3	74-27	FP147
26♦	74HC27N	CMS	NOR	3		3.15	1.35	10		5.0	20n		1.2	4	8	3	74-27	DIP14a
27♦	CD74HC27E	CMS	NOR	3		3.15	1.35	10		5.0	20n	500m	1.2	4	8	3	74-27N	MO001AB
28♦	CD74HCT27E	CMS	NOR	3		2.0	0.8	10		5.0	20n	500m	0.7	4	8	3	74-27N	MO001AB
29♦	CD74HCT27M	CMS	NOR	3		2.0	0.8	10		5.0	20n	400m	0.7	4	8	3	74-27N	FP147
30♦	LC74HC27	CMS	NOR	3		3.5	1.5	10		5.0	20n	0.3	1.1	4	8	3	74-27	DIP14a
31♦	SP370A	DTL	NOR	3		3.8	0.6	16		5.0	20n	22m†	1.2	0	7	3	None	DIP14a
32♦	PC74HC27P	CMS	NOR	3		3.15	1.35	10		5.0	22n	500m	0.8	4	C	3	74-27	DIP14b
33♦	PC74HC27T	CMS	NOR	3		3.15	1.35	10		5.0	22n	300m	0.8	4	C	3	74-27	FP147
34▼	SN74HC27D	CMS	NOR	3		3.15	0.9			5.0	23n			4	8	3	74-27N	FP147
35♦	SN74HC27N	CMS	NOR	3		3.15	0.9			5.0	23n			4	8	3	74-27N	MO001AA
36▼	TC74HC27F(A)	CMS	NOR	3		3.15	1.35	10d		5.0	23n	180m	1.4	4	8	3	74-27N	FP166
37♦	TC74HC27P(A)	CMS	NOR	3		3.15	1.35	10d		5.0	23n	500m	1.4	4	8	3	74-27N	MO001AA
38♦	CD54HC27F	CMS	NOR	3		3.15	1.35	10		5.0	25n	500m	1.2	5	C	3	74-27N	MO001AB
39♦	CD54HCT27F	CMS	NOR	3		2.0	0.8	10		5.0	25n	500m	0.7	5	C	3	74-27N	MO001AB
40♦	CD74HC27M	CMS	NOR	3		3.15	1.35	10		5.0	25n	400m	1.2	4	8	3	74-27N	FP147
41	74HCT27D	CMS	NOR	3		2.0	0.8	10		5.0	26n		0.7	4	8	3	74-27	FP147
42♦	74HCT27N	CMS	NOR	3		2.0	0.8	10		5.0	26n		0.7	4	8	3	74-27	DIP14a
43♦	SN54ALS27J	TTL	NOR	3		2.0	0.7			5.0	26n		0.3	5	C	3	74-27N	DIP14a
44♦	SN54HC27J	CMS	NOR	3		3.15	0.9			5.0	27n			5	C	3	74-27N	MO001AA
45♦	TC40H027F	CMS	NOR	3		4.0	1.0			10	30n	180m	.95	4	8	3	54-27W	FP166
46♦	FCH141	DTL	NOR	3		2.3	0.8	8		5.0	31n	21m	1.2	0	7	3	G03-180d	TO-116
47♦	FCH151	DTL	NOR	3		2.3	0.8	8		5.0	31n	21m	1.2	0	7	3	G03-180f	TO-116
48♦	FCH161	DTL	NOR	3		2.3	0.8	8		5.0	31n	33m	1.2	0	7	3	G03-180e	TO-116
49♦	FCH171	DTL	NOR	3		2.3	0.8	8		5.0	31n	33m	1.2	0	7	3	G03-180g	TO-116
50♦	MM4625AD	CMS	NOR	3		4.99	.01C			5.0	35n	500m	450m	5	C	3	40-25B	DIP14a
51♦	MM4625AF	CMS	NOR	3		4.99	.01C			5.0	35n	500m	450m	5	C	3	40-25B	FP98
52♦	MM5625AN	CMS	NOR	3		4.99	.01C			5.0	35n	500m	450m	4	8	3	40-25B	DIP14a
53♦	HEF4025	CMS	NOR	3		11	4.0	16e		15	40n	400m	6.7	4	8	3	40-25B	DL Ø
54♦	HEF4025BPN	CMS	NOR	3		11.0	4.0	16e		15	40n	400m	6.7	4	8	3	40-25B	DIP14b
55♦	HEF4025BTD	CMS	NOR	3		11.0	4.0	50e		15	40n	200m	6.7	4	8	3	40-25B	FP147
56♦	MC14025UBAL	CMS	NOR	3		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	3	40-25B	DIP14a
57▼	MC14025UBALD	CMS	NOR	3		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	3	40-25B	DIP14a
58▼	MC14025UBALDS	CMS	NOR	3		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	3	40-25B	DIP14a
59▼	MC14025UBALS	CMS	NOR	3		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	3	40-25B	DIP14a
60♦	MC14025UBCL	CMS	NOR	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-25B	DIP14a
61▼	MC14025UBCLD	CMS	NOR	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-25B	DIP14a
62▼	MC14025UBCLDS	CMS	NOR	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-25B	DIP14a
63▼	MC14025UBCLS	CMS	NOR	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-25B	DIP14a
64♦	MC14025UBCP	CMS	NOR	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-25B	DIP14a
65▼	MC14025UBCPD	CMS	NOR	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-25B	DIP14a
66▼	MC14025UBCPDS	CMS	NOR	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-25B	DIP14a
67▼	MC14025UBCPS	CMS	NOR	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-25B	DIP14a
68▼	MC14025UBD	CMS	NOR	3		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	3	40-25B	DIP14a
69♦	CD4025MJ	CMS	NOR	3		9.99	.01C			10	45n	15uQ	4.5	5	C	3	40-25B	DIP14a
70♦	CD4025MW	CMS	NOR	3		9.99	.01C			10	45n	15uQ	4.5	5	C	3	40-25B	FP97c
71♦	CM4025AD	CMS	NOR	3		7.0	3.0			10	45n	200m	4.5	5	C	3	40-25B	DIP14a
72♦	HBC4025AD	CMS	NOR	3		10	0C			10	45n	1.0uQ	4.5	5	C	3	40-25B	MO001AD
73♦	HBC4025AF	CMS	NOR	3		10	0C			10	45n	1.0uQ	4.5	5	C	3	40-25B	MO001AD
74♦	HBC4025AK	CMS	NOR	3		10	0C			10	45n	1.0uQ	4.5	5	C	3	40-25B	MO004AF
75♦	SFF24000AKM	CMS	NOR	3		9.99	.01C			10	45n	200m	3.0 *	5	C	3	40-00B	TO-116
76♦	SFF24025AKM	CMS	NOR	3		9.99	.01C			10	45n	200m	3.0 *	5	C	3	40-25B	TO-116
77♦	4025BDC	CMS	NOR	3		11	4.0	25e		15	48n	450uQ	6.7	4	8	3	40-25B	TO-116
78♦	4025BDM	CMS	NOR	3		11	4.0	25e		15	48n	450uQ	6.7	5	C	3	40-25B	TO-116
79♦	4025BFC	CMS	NOR	3		11	4.0	25e		15	48n	450uQ	6.7	4	8	3	40-25B	FP21h
80♦	4025BFM	CMS	NOR	3		11	4.0	25e		15	48n	450uQ	6.7	5	C	3	40-25B	FP21h
81♦	4025BPC	CMS	NOR	3		11	4.0	25e		15	48n	450uQ	6.7	4	8	3	40-25B	DIP14a
82♦	HEF4025BD	CMS	NOR	3		7.0	3.0			10	55n	500m		4	8	3	40-25B	DIP14a
83♦	HEF4025BP	CMS	NOR	3		7.0	3.0			10	55n	500m		4	8	3	40-25B	DIP14a
84♦	HEF4025BT	CMS	NOR	3		7.0	3.0			10	55n	400m		4	8	3	40-25B	FP147
85♦	SFF24000AEV	CMS	NOR	3		9.99	.01C			10	55n	200m	3.0 *	4	8	3	40-00B	TO-116
86♦	SFF24025AEV	CMS	NOR	3		9.99	.01C			10	55n	200m	3.0 *	4	8	3	40-25B	TO-116
87♦	CD4025AD	CMS	NOR	3		11.0	4.0			15	60n	200m	4.5	5	C	3	40-25B	MO001AD
88♦	CD4025AF	CMS	NOR	3		11.0	4.0			15	60n	200m	4.5	5	C	3	40-25B	MO001AB
89♦	HEF4025P	CMS	NOR	3		7.0	3.0			10	60n	50uQ	4.5	4	8	3	40-25B	TO-116
90♦	MN4025B	CMS	NOR	3		11.0	4.0			15	60n	400m	3.9	4	8	3	40-25B	DIP14a
91♦	CD4025CJ	CMS	NOR	3		9.99	.01C			10	65n	500m	4.5	4	8	3	40-25B	DIP14a
92♦	CD4025CN	CMS	NOR	3		9.99	.01C			10	65n	500m	4.5	4	8	3	40-25B	DIP14a
93♦	CM4025AE	CMS	NOR	3		10	0C			10	65n	200m	4.5	4	8	3	40-25B	DIP14a
94♦	HBF4025AE	CMS	NOR	3		10	0C			10	65n	50uQ	4.5	4	8	3	40-25B	MO001AB
95♦	HBF4025AF	CMS	NOR	3		10	0C			10	65n	50uQ	4.5	4	8	3	40-25B	MO001AD
96♦	CD4025BCJ	CMS	NOR	3		11	4.0	16e		15	70n	500m	6.7	4	8	3	40-25B	DIP14a
97♦	CD4025BCN	CMS	NOR	3		11	4.0	16e		15	70n	500m	6.7	4	8	3	40-25B	DIP14a
98♦	CD4025BMJ	CMS	NOR	3		11	4.0	19e		15	70n	15uQ	6.7	5	C	3	40-25B	DIP14a
99♦	CD4025BMW	CMS	NOR	3		11	4.0	19e		15	70n	15uQ	6.7	5	C	3	40-25B	FP97c
100♦	883C4025B	CMS	NOR	3		8.2	6.7			15	90n	300m		5	C	3	40-25B	MO001AA
101♦	BCL4025B	CMS	NOR	3		8.2	6.7			15	90n	300m		5	C	3	40-25B	MO001AA
102♦	HCC4025BD	CMS	NOR	3		11	4.0			15	90n	200m	2.5 *	5	C	3	40-25B	DIP14a
103♦	HCC4025BF	CMS	NOR	3		11	4.0			15	90n	200m	2.5 *	5	C	3	40-25B	DIP14a
104♦	HCC4025BK	CMS	NOR	3		11	4.0			15	90n	200m	2.5 *	5	C	3	40-25B	FP130
105♦	HCF4025BE	CMS	NOR	3		11	4.0			15	90n	200m	2.5 *	4	8	3	40-25B	DIP14a
106♦	HCF4025BF	CMS	NOR	3		11	4.0			15	90n	200m	2.5 *	4	8	3	40-25B	DIP14a
107♦	MB84025B	CMS	NOR	3		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	3	40-25B	DIP14b
108♦	MB84025BM	CMS	NOR	3		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	3	40-25B	DIP14a
109♦	UPD4025BG	CMS	NOR	3		11.0	4.0			15	90n	200m	3.9	4	8	3	40-25	FP161
110♦	MC14025BAL	CMS	NOR	3		11	4.0	50		15	100n	15uQ	2.5 *	5	C	3	40-25B	TO-116

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - NOR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	MC14025BALD	CMS	NOR	3		11	4.0	50		15	100n	15uQ	2.5 *	5	C	3	40-25B	TO-116
2▼	MC14025BALDS	CMS	NOR	3		11	4.0	50		15	100n	15uQ	2.5 *	5	C	3	40-25B	TO-116
3▼	MC14025BALS	CMS	NOR	3		11	4.0	50		15	100n	15uQ	2.5 *	5	C	3	40-25B	TO-116
4♦	MC14025BCL	CMS	NOR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-25B	TO-116
5▼	MC14025BCLD	CMS	NOR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-25B	TO-116
6▼	MC14025BCLDS	CMS	NOR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-25B	TO-116
7▼	MC14025BCLS	CMS	NOR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-25B	TO-116
8♦	MC14025BCP	CMS	NOR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-25B	TO-116
9▼	MC14025BCPD	CMS	NOR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-25B	TO-116
10▼	MC14025BCPDS	CMS	NOR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-25B	TO-116
11▼	MC14025BCPS	CMS	NOR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-25B	TO-116
12▼	MC14025BD	CMS	NOR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-25B	TO-116
13♦	CD4025BD	CMS	NOR	3		7.0	3.0			10	120n	500m	2.0	5	C	3	40-25B	MO001AD
14♦	CD4025BE	CMS	NOR	3		7.0	3.0			10	120n	500m	2.0	4	8	3	40-25B	MO001AB
15♦	CD4025BF	CMS	NOR	3		7.0	3.0			10	120n	500m	2.0	5	C	3	40-25B	MO001AB
16♦	SCL4025B	CMS	NOR	3		7.0	3.0	50		15	125n	300m	3.0	5	C	3	40-25B	MO001AA
17♦	4025A	CMS	NOR	3		7.1	2.9	2		10	130n	200m		4	8	3	40-25B	DIP14a
18♦	MSM4025	CMS	NOR	3		7.2	2.0	16e		10	150n	300uQ	2.0 *	2	7	3	40-25B	DIP14a
19♦	LC4025B	CMS	NOR	3		11.0	4.0			15	160n	300m	3.9	4	8	3	40-25B	DIP14a
20♦	TC4025BP	CMS	NOR	3		14.9	.05C	50		15	160n	300m	4.0	4	8	3	40-25B	DIP14a
21♦	MSM4025RS	CMS	NOR	3		3.6	1.0	40		5.0	300n		0.6	4	8	3	40-25B	DIP14 ☑
22♦	M4025BP	CMS	NOR	3		11	4.0			15	125m	500m	4.0	4	8	3	40-25B	DIP14a
23♦	10G000AF	ECL	NOR	3		-1.1	-1.4		5.2	1.0	320p	500m		0	8	4	GO3-350	FP172
24♦	10G000AL	ECL	NOR	3		-1.1	-1.4		5.2	1.0	320p	500m		0	8	4	GO3-350	LC31
25♦	10G000A4F	ECL	NOR	3		-1.1	-1.4		5.2	1.0	380p	500m		0	8	4	GO3-350	FP172
26♦	10G000A4L	ECL	NOR	3		-1.1	-1.4		5.2	1.0	380p	500m		0	8	4	GO3-350	LC31
27▼	MC10H100FN	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G03-293	DIP16a
28♦	MC10H100L	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G03-293	DIP16a
29▼	MC10H100LD	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G03-293	DIP16a
30▼	MC10H100LDS	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G03-293	DIP16a
31♦	MC10H100P	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G03-293	DIP16b
32▼	MC10H100PD	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G03-293	DIP16b
33▼	MC10H100PDS	ECL	NOR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G03-293	DIP16b
34♦	GXB10100	ECL	NOR	3		-1.1	-1.4		5.2		2.0n	100m†		0	7	4	G03-293	DIP16a
35♦	GXB10100D	ECL	NOR	3		-1.1	-1.4		5.2		2.0n			3	8	4	G03-293	DIP16b
36♦	GXB10100P	ECL	NOR	3		-1.1	-1.4		5.2		2.0n			3	8	4	G03-293	DIP16b
37♦	F10100DC	ECL	NOR	3		-1.1	-1.4	80g	5.2		2.9n	135mQ	145m*	0	7	4	G03-293	DIP16a
38♦	F10500DM	ECL	NOR	3		-1.1	-1.4	40g	5.2		2.9n	135mQ	145m*	5	C	4	G03-293	DIP16a
39♦	F10500FM	ECL	NOR	3		-1.1	-1.4	40g	5.2		2.9n	135mQ	145m*	5	C	4	G03-293	FP103
40▼	MC10100FN	ECL	NOR	3		-1.1	-1.4		5.2		2.9n	135m	150m	3	8	4	G03-293	DIP16a
41♦	MC10100L	ECL	NOR	3		-1.1	-1.4		5.2		2.9n	135m	150m	3	8	4	G03-293	DIP16a
42▼	MC10100LD	ECL	NOR	3		-1.1	-1.4		5.2		2.9n	135m	150m	3	8	4	G03-293	DIP16a
43▼	MC10100LDS	ECL	NOR	3		-1.1	-1.4		5.2		2.9n	135m	150m	3	8	4	G03-293	DIP16a
44♦	MC10100P	ECL	NOR	3		-1.1	-1.4		5.2		2.9n	135m	150m	3	8	4	G03-293	DIP16b
45▼	MC10100PD	ECL	NOR	3		-1.1	-1.4		5.2		2.9n	135m	150m	3	8	4	G03-293	DIP16b
46▼	MC10100PDS	ECL	NOR	3		-1.1	-1.4		5.2		2.9n	135m	150m	3	8	4	G03-293	DIP16b
47♦	MC10500F	ECL	NOR	3		-1.1	-1.4		5.2		2.9n	135m	125m*	5	C	4	G03-293	FP85
48♦	MC10500L	ECL	NOR	3		-1.1	-1.4		5.2		2.9n	135m	125m*	5	C	4	G03-293	DIP16a
49♦	10100F	ECL	NOR	3		-1.1	-1.4		5.2		3.3n	100m†		3	8	4	G03-293	DIP16a
50♦	10100N	ECL	NOR	3		-1.1	-1.4		5.2		3.3n	100m†		3	8	4	G03-293	DIP16a
51♦	FZH281	DTL	NOR	3		7.5	4.5	10		12	260n	288m	5.0	0	7	4	G03-280	DIP16a
52♦	FZH285B	DTL	NOR	3	TS	30	4.5	10		12	260n	288m	5.0	2	8	4	G03-280	DIP16a
53♦	GXB10123D	ECL	NOR	3/3/4		-1.1	-1.4	3	5.2			310m		3	8	3	G03-271	DIP16b
54♦	GXB10123P	ECL	NOR	3/3/4		-1.1	-1.4	3	5.2			310m		3	8	3	G03-271	DIP16a
55▼	MC10106FN	ECL	NOR	3/3/4		-1.1	-1.4		5.2			90m†	150m	3	8	3	G03-271	DIP16a
56♦	MC10106L	ECL	NOR	3/3/4		-1.1	-1.4		5.2			90m†	150m	3	8	3	G03-271	DIP16a
57▼	MC10106LD	ECL	NOR	3/3/4		-1.1	-1.4		5.2			90m†	150m	3	8	3	G03-271	DIP16a
58▼	MC10106LDS	ECL	NOR	3/3/4		-1.1	-1.4		5.2			90m†	150m	3	8	3	G03-271	DIP16a
59♦	MC10106P	ECL	NOR	3/3/4		-1.1	-1.4		5.2			90m†	150m	3	8	3	G03-271	DIP16b
60▼	MC10106PD	ECL	NOR	3/3/4		-1.1	-1.4		5.2			90m†	150m	3	8	3	G03-271	DIP16b
61▼	MC10106PDS	ECL	NOR	3/3/4		-1.1	-1.4		5.2			90m†	150m	3	8	3	G03-271	DIP16b
62♦	DM10106J	ECL	NOR	3/3/4		-1.1	-1.4		5.2		2.0n	109mQ		3	8	3	G03-265	DIP16a
63♦	GXB10106	ECL	NOR	3/3/4		-1.1	-1.4		5.2		2.0n	75m†		0	7	3	G03-265	DIP16b
64♦	MB10106	ECL	NOR	3/3/4		-1.1	-1.4	70	5.2		2.0n	90m†		3	8	3	G03-265	DIP16b
65♦	MB10106M	ECL	NOR	3/3/4		-1.1	-1.4	70	5.2		2.0n	90m†		3	8	3	G03-265	DIP16b
66♦	F10106DC	ECL	NOR	3/3/4		-1.1	-1.4	80g	5.2		2.9n	109mQ	145m*	0	7	3	G03-311	DIP16a
67♦	F10506DM	ECL	NOR	3/3/4		-1.1	-1.4	40g	5.2		2.9n	109mQ	145m*	5	C	3	G03-311	DIP16a
68♦	F10506FM	ECL	NOR	3/3/4		-1.1	-1.4	40g	5.2		2.9n	109mQ	145m*	5	C	3	G03-311	FP103
69♦	MC10506F	ECL	NOR	3/3/4		-1.1	-1.4		5.2		2.9n	90m†		5	C	3	G03-265	FP85
70♦	MC10506L	ECL	NOR	3/3/4		-1.1	-1.4		5.2		2.9n	90m†		5	C	3	G03-265	DIP16b
71♦	10106F	ECL	NOR	3/3/4		-1.1	-1.4		5.2		3.3n	88m†		3	8	3	G03-271	DIP16a
72♦	10106N	ECL	NOR	3/3/4		-1.1	-1.4		5.2		3.3n	88m†		3	8	3	G03-271	DIP16a
73♦	10123F	ECL	NOR	3/3/4		-1.1	-1.4		5.2		4.8n	370m†		3	8	3	G03-265	DIP16a
74♦	10123N	ECL	NOR	3/3/4		-1.1	-1.4		5.2		4.8n	370m†		3	8	3	G03-265	DIP16a
75▼	MC10H106FN	ECL	NOR	3/4/4		-1.1	-1.4		5.2		1.5n		150m	0	7	3	G03-328	DIP16a
76♦	MC10H106L	ECL	NOR	3/4/4		-1.1	-1.4		5.2		1.5n		150m	0	7	3	G03-328	DIP16a
77▼	MC10H106LD	ECL	NOR	3/4/4		-1.1	-1.4		5.2		1.5n		150m	0	7	3	G03-328	DIP16a
78▼	MC10H106LDS	ECL	NOR	3/4/4		-1.1	-1.4		5.2		1.5n		150m	0	7	3	G03-328	DIP16a
79♦	MC10H106P	ECL	NOR	3/4/4		-1.1	-1.4		5.2		1.5n		150m	0	7	3	G03-328	DIP16b
80▼	MC10H106PD	ECL	NOR	3/4/4		-1.1	-1.4		5.2		1.5n		150m	0	7	3	G03-328	DIP16b
81▼	MC10H106PDS	ECL	NOR	3/4/4		-1.1	-1.4		5.2		1.5n		150m	0	7	3	G03-328	DIP16b
82♦	907HM	RTL	NOR	4				16		3.6	15n	20m	250m	0	7	1	G03-80	TO-99
83♦	911HM	RTL	NOR	4				7		3.6	15n	20m	250m	0	7	1	G03-58	TO-99
84♦	9907HC	RTL	NOR	4				16		3.6	15n	20m	250m	0	7	1	G03-80	TO-99
85♦	5425DM	TTL	NOR	4		2.0	0.8			5.0		95m		5	C	2	74-25N	TO-116
86♦	7423PC	TTL	NOR	4	XI	2.0	0.8			5.0		100m		0	7	2	74-23N	None
87♦	7425DC	TTL	NOR	4		2.0	0.8			5.0		95m		0	7	2	74-25N	TO-116
88♦	7425PC	TTL	NOR	4		2.0	0.8			5.0		95m		0	7	2	74-25N	DIP14a
89♦	DM5423J	TTL	NOR	4	XI	2.0	0.8			5.0		95m		5	C	2	74-23N	DIP16a
90♦	DM5425J	TTL	NOR	4		2.0	0.8			5.0		95m		5	C	2	74-25N	DIP16a
91♦	DM7423N	TTL	NOR	4	XI	2.0	0.8			5.0		95m		0	7	2	74-23N	DIP16a
92♦	DM7425N	TTL	NOR	4		2.0	0.8			5.0		95m		0	7	2	74-25N	DIP16a
93♦	M53225P	TTL	NOR	4		2.0	0.8	10		5.0		100m		0	7	2	74-25N	DIP14a
94♦	N7423F	TTL	NOR	4	XI	2.0	0.8	10a		5.0		95m		0	7	2	74-23N	DIP16b
95♦	N7423N	TTL	NOR	4	XI	2.0	0.8	10a		5.0		95m		0	7	2	74-23N	DIP16a
96♦	N7425N	TTL	NOR	4		2.0	0.8	10a		5.0		95m	0.4	0	7	2	74-25N	DIP14a
97♦	N8815A	TTL	NOR	4		2.6	0.4C	20		5		50m	600m	0	7	2	74-25N	TO-116
98♦	N8815N	TTL	NOR	4		2.6	0.4C	20		5.0		50m	600m	0	7	2	74-25N	TO-88
99♦	S5423F	TTL	NOR	4	XI	2.0	0.8	10a		5.0		95m		5	C	2	74-23N	DIP16b
100♦	S5425F	TTL	NOR	4		2.0	0.8	10a		5.0		95m	0.4	5	C	2	74-25N	DIP14b
101♦	S8815A	TTL	NOR	4		2.6	0.4C	20		5		50m	600m	5	C	2	74-25N	TO-116
102♦	SN5423J	TTL	NOR	4	XI	2.0	0.8			5.0		95m	0.4	5	C	2	74-23N	DIP16a
103♦	SN5425J	TTL	NOR	4		2.0	0.8			5.0		95m	0.4	5	C	2	74-25N	DIP14a
104♦	SN7423N	TTL	NOR	4	XI	2.0	0.8			5.0		95m	0.4	0	7	2	74-23N	DIP16a
105♦	SN7425N	TTL	NOR	4		2.0	0.8			5.0		95m	0.4	0	7	2	74-25N	DIP14a
106♦	S8815J	TTL	NOR	4		2.6	0.4C	20		5	9.0n	50m	600m	5	C	2	54-25W	TO-88
107♦	UPD74HC4002C(A)	CMS	NOR	4		4.2	1.2			5.0	10n	500m		4	8	2	74LS4002	MO001AA
108♦	DM5423W	TTL	NOR	4	XI	2.0	0.8			5.0	15n	95m		5	C	2	54-23W	FP88a
109♦	DM5425W	TTL	NOR	4		2.0	0.8			5.0	15n	95m		5	C	2	54-25W	FP88a
110♦	SP317A	DTL	NOR	4		3.8	0.6	16		5.0	20n	22m†	1.2	0	7	2	None	DIP14a

5. GATES - NOR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	5 TYPE NUMBER	TECH	1 TYPE OF GATE	2 INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	4 tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	3 CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	74HC4002N	CMS	NOR	4		3.15	1.35	10		5.0	21n	500m	1.2	4	8	2	40-02B	MO001AB
2♦	74HCT4002N	CMS	NOR	4		2.0	0.8	10		5.0	21n	500m	0.7	4	8	2	40-02B	MO001AB
3♦	CD74HC4002E	CMS	NOR	4		3.15	1.35	10		5.0	21n	500m	1.2	4	8	2	40-02B	MO001AB
4♦	CD74HC4002M	CMS	NOR	4		3.15	1.35	10		5.0	21n	400m	1.2	4	8	2	40-02B	FP147
5♦	CD74HCT4002E	CMS	NOR	4		2.0	0.8	10		5.0	21n	500m	0.7	4	8	2	40-02B	MO001AB
6♦	CD74HCT4002M	CMS	NOR	4		2.0	0.8	10		5.0	21n	400m	0.7	4	8	2	40-02B	FP147
7♦	M54HC4002F1(A)	CMS	NOR	4		3.15	1.35	10		5.0	21n	500m	1.2	5	C	2	40-02	DIP14a
8♦	5423FM	TTL	NOR	4	XI	2.0	0.8			5.0	22n	95m		5	C	2	54-23W	FP103
9♦	5425FM	TTL	NOR	4		2.0	0.8			5.0	22n	95m		5	C	2	54-25W	FP21h
10♦	S5423W	TTL	NOR	4	XI	2.0	0.8	10a		5.0	22n	95m		5	C	2	54-23W	FP47g
11♦	S5425W	TTL	NOR	4		2.0	0.8	10a		5.0	22n	95m	0.4	5	C	2	54-25W	FP153
12♦	US74HCT4002N(A)	CMS	NOR	4		2.0	0.8	10		5.0	24n	500m	750m	4	8	2	40-02B	DIP14 ☑
13♦	MC54HC4002J	CMS	NOR	4		3.85	1.1			5.0	25n	500m	10	5	C	2	40-02B	DIP14 ☑
14♦	MC74HC4002J	CMS	NOR	4		3.85	1.1			5.0	25n	500m	10	4	8	2	40-02B	DIP14 ☑
15♦	MC74HC4002N	CMS	NOR	4		3.85	1.1			5.0	25n	500m	10	4	8	2	40-02B	DIP14 ☑
16♦	CD54HC4002F	CMS	NOR	4		3.15	1.35	10		5.0	26n	500m	1.2	5	C	2	40-02B	MO001AB
17♦	CD54HCT4002F	CMS	NOR	4		2.0	0.8	10		5.0	26n	500m	0.7	5	C	2	40-02B	MO001AB
18♦	M74HC4002B1(A)	CMS	NOR	4		3.15	1.35	10		5.0	26n	500m	1.2	4	8	2	40-02	DIP14a
19♦	M74HC4002C1(A)	CMS	NOR	4		3.15	1.35	10		5.0	26n	500m	1.2	4	8	2	G03-332	LC33
20♦	M74HC4002F1(A)	CMS	NOR	4		3.15	1.35	10		5.0	26n	500m	1.2	4	8	2	40-02	DIP14a
21♦	M74HC4002P	CMS	NOR	4		4.2	1.8			5.0	26n			4	8	2	G03-332	DIP14a
22♦	MM74HC4002J	CMS	NOR	4		4.2	1.2			5.0	26n	500m	1.7	4	8	2	40-02B	DIP14a
23♦	MM74HC4002N	CMS	NOR	4		4.2	1.2			5.0	26n	500m	1.7	4	8	2	40-02B	DIP14a
24▼	TC74HC4002F(A)	CMS	NOR	4		3.15	1.35	10d		5.0	26n	180m	0.8	4	8	2	40-02B	FP166
25▼	TC74HC4002P(A)	CMS	NOR	4		3.15	1.35	10d		5.0	26n	500m	0.8	4	8	2	40-02B	DIP14b
26▼	SN74HC4002D	CMS	NOR	4		3.85	0.9			5.0	28n		1.2	4	8	2	40-02B	FP147
27♦	SN74HC4002N	CMS	NOR	4		3.85	0.9			5.0	28n		1.2	4	8	2	40-02B	MO001AA
28♦	MM54HC4002J	CMS	NOR	4		4.2	1.2			5.0	30n	500m	1.7	5	C	2	40-02B	DIP14a
29♦	PC54HC4002D(A)	CMS	NOR	4		3.15	0.9	10		5.0	30n	500m	0.8	5	C	2	40-02	DIP14b
30♦	PC74HC4002P(A)	CMS	NOR	4		3.15	1.35	10		5.0	30n	500m	0.8	4	C	2	40-02	DIP14b
31♦	PC74HC4002T(A)	CMS	NOR	4		3.15	1.35	10		5.0	30n	300m	0.8	4	C	2	40-02	FP147
32♦	PC74HCT4002P(A)	CMS	NOR	4		2.0	0.8	10		5.0	33n	500m	0.7	4	C	2	40-02	DIP14b
33♦	PC74HCT4002T(A)	CMS	NOR	4		2.0	0.8	10		5.0	33n	300m	0.7	4	C	2	40-02	FP147
34♦	SN54HC4002J	CMS	NOR	4		3.15	0.9			5.0	33n		1.2	5	C	2	40-02B	MO001AA
35♦	74HC4002D(A)	CMS	NOR	4		3.15	1.35	10		5.0	34n	500m	1.2	4	8	2	40-02	DIP14b
36♦	74HCT4002D(A)	CMS	NOR	4		2.0	0.8	10		5.0	34n	500m	0.7	4	8	2	40-02	DIP14b
37♦	PC74HCT4002D(A)	CMS	NOR	4		2.0	0.8	10		5.0	34n	500m	0.7	4	8	2	40-02	DIP14b
38♦	MM4602AD	CMS	NOR	4		4.99	.01C			5.0	35n	500m	450m	5	C	2	40-02B	DIP14a
39♦	MM4602AF	CMS	NOR	4		4.99	.01C			5.0	35n	500m	450m	5	C	2	40-02B	DIP14a
40♦	MM5602AN	CMS	NOR	4		4.99	.01C			5.0	35n	500m	450m	4	8	2	40-02B	DIP14a
41♦	CD4002MJ	CMS	NOR	4		9.99	.01C			10	40n	500m	4.5	5	8	2	40-02B	DIP14a
42♦	CD4002MW	CMS	NOR	4		9.99	.01C			10	40n	500m	4.5	5	8	2	40-02B	FP97c
43♦	HEF4002	CMS	NOR	4		11	4.0	16e		15	40n	400m	6.7	4	8	2	40-02B	DL ☑
44♦	HEF4002BPN	CMS	NOR	4		11.0	4.0	16e		15	40n	400m	6.7	4	8	2	40-02B	DIP14b
45♦	HEF4002BTD	CMS	NOR	4		11.0	4.0	50e		15	40n	200m	6.7	4	8	2	40-02B	FP147
46♦	HEF4002P	CMS	NOR	4		7.0	3.0			10	40n	300uQ		4	8	2	40-02B	TO-116
47♦	MC14002UBAL	CMS	NOR	4		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	2	40-02B	DIP14a
48▼	MC14002UBALD	CMS	NOR	4		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	2	40-02B	DIP14a
49▼	MC14002UBALDS	CMS	NOR	4		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	2	40-02B	DIP14a
50▼	MC14002UBALS	CMS	NOR	4		12.5	2.5	18e		15	40n	15uQ	1.0 *	5	C	2	40-02B	DIP14a
51♦	MC14002UBCL	CMS	NOR	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-02B	DIP14a
52▼	MC14002UBCLD	CMS	NOR	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-02B	DIP14a
53▼	MC14002UBCLDS	CMS	NOR	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-02B	DIP14a
54▼	MC14002UBCLS	CMS	NOR	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-02B	DIP14a
55♦	MC14002UBCP	CMS	NOR	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-02B	DIP14a
56▼	MC14002UBCPD	CMS	NOR	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-02B	DIP14a
57▼	MC14002UBCPDS	CMS	NOR	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-02B	DIP14a
58▼	MC14002UBCPS	CMS	NOR	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-02B	DIP14a
59▼	MC14002UBD	CMS	NOR	4		12.5	2.5	16e		15	40n	60uQ	1.0 *	4	8	2	40-02B	DIP14a
60♦	PC54HCT4002D(A)	CMS	NOR	4		2.0	0.8	10		5.0	41n	500m	0.7	5	C	2	40-02	DIP14b
61♦	CM4002AD	CMS	NOR	4		10	0C			10	45n	200m	4.5	5	C	2	40-02B	DIP14a
62♦	HBC4002AD	CMS	NOR	4		10	0C			10	45n	1.0uQ	4.5	5	C	2	40-02B	MO001AD
63♦	HBC4002AF	CMS	NOR	4		10	0C			10	45n	1.0uQ	4.5	5	C	2	40-02B	MO001AD
64♦	HBC4002AK	CMS	NOR	4		10	0C			10	45n	1.0uQ	4.5	5	C	2	40-02B	MO004AF
65♦	SFF24002AKM	CMS	NOR	4		9.99	.01C			10	45n	200m	3.0 *	5	C	2	40-02B	TO-116
66♦	4002BDC	CMS	NOR	4		11	4.0	25e		15	48n	450uQ	6.7	4	8	2	40-02B	TO-116
67♦	4002BDM	CMS	NOR	4		11	4.0	25e		15	48n	450uQ	6.7	5	C	2	40-02B	TO-116
68♦	4002BFC	CMS	NOR	4		11	4.0	25e		15	48n	450uQ	6.7	4	8	2	40-02B	FP21h
69♦	4002BFM	CMS	NOR	4		11	4.0	25e		15	48n	450uQ	6.7	5	C	2	40-02B	FP21h
70♦	4002BPC	CMS	NOR	4		11	4.0	25e		15	48n	450uQ	6.7	4	8	2	40-02B	DIP14a
71♦	HEF4002BD	CMS	NOR	4		7.0	3.0			15	50n	500m		4	8	2	40-02B	DIP14a
72♦	HEF4002BP	CMS	NOR	4		7.0	3.0			10	50n	500m		4	8	2	40-02B	DIP14a
73♦	HEF4002BT	CMS	NOR	4		7.0	3.0			10	50n	400m		4	8	2	40-02	FP147
74♦	SFF24002AEV	CMS	NOR	4		9.99	.01C			10	55n	200m	3.0 *	4	8	2	40-02B	TO-116
75♦	CD4002AD	CMS	NOR	4		9.95	0.05C			15	60n	200m	4.5	5	C	2	40-02B	MO001AD
76♦	CD4002AE	CMS	NOR	4		9.95	0.05C			15	60n	200m	4.5	4	8	2	40-02B	MO001AB
77♦	CD4002AF	CMS	NOR	4		9.95	0.05C			15	60n	200m	4.5	5	C	2	40-02B	MO004AF
78♦	MN4002B	CMS	NOR	4		11.0	4.0			15	60n	400m	3.9	4	8	2	40-02B	DIP14a
79♦	CD4002CJ	CMS	NOR	4		9.99	.01C			10	65n	500m	4.5	4	8	2	40-02B	DIP14a
80♦	CD4002CN	CMS	NOR	4		9.99	.01C			10	65n	500m	4.5	4	8	2	40-02B	DIP14a
81♦	CM4002AE	CMS	NOR	4		10	0C			10	65n	200m	4.5	4	8	2	40-02B	DIP14a
82♦	HBF4002AE	CMS	NOR	4		10	0C			10	65n	50uQ	4.5	4	8	2	40-02B	MO001AB
83♦	HBF4002AF	CMS	NOR	4		10	0C			10	65n	50uQ	4.5	4	8	2	40-02B	MO001AD
84♦	883C4002B	CMS	NOR	4		8.2	6.7			15	90n	300m		5	C	2	40-02B	MO001AA
85♦	883C4402B	CMS	NOR	4		8.2	6.7			15	90n	300m		5	C	2	44-02B	MO001AA
86♦	BCL4002B	CMS	NOR	4		8.2	6.7			15	90n	300m		5	C	2	40-02B	MO001AA
87♦	BCL4402B	CMS	NOR	4		8.2	6.7			15	90n	300m		5	C	2	44-02B	MO001AA
88♦	HCC4002BD	CMS	NOR	4		11	4.0			15	90n	200m	2.5 *	5	C	2	40-02B	DIP14a
89♦	HCC4002BF	CMS	NOR	4		11	4.0			15	90n	200m	2.5 *	5	C	2	40-02B	DIP14a
90♦	HCC4002BK	CMS	NOR	4		11	4.0			15	90n	200m	2.5 *	5	C	2	40-02B	FP130
91♦	HCF4002BE	CMS	NOR	4		11	4.0			15	90n	200m	2.5 *	4	8	2	40-02B	DIP14a
92♦	HCF4002BF	CMS	NOR	4		11	4.0			15	90n	200m	2.5 *	4	8	2	40-02B	DIP14a
93♦	MB84002B	CMS	NOR	4		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	2	40-02B	DIP14b
94♦	MB84002BM	CMS	NOR	4		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	2	40-02B	DIP14a
95♦	MC14002BAL	CMS	NOR	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-02B	TO-116
96▼	MC14002BALD	CMS	NOR	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-02B	TO-116
97▼	MC14002BALDS	CMS	NOR	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-02B	TO-116
98▼	MC14002BALS	CMS	NOR	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-02B	TO-116
99♦	MC14002BCL	CMS	NOR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-02B	TO-116
100▼	MC14002BCLD	CMS	NOR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-02B	TO-116
101▼	MC14002BCLDS	CMS	NOR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-02B	TO-116
102▼	MC14002BCLS	CMS	NOR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-02B	TO-116
103♦	MC14002BCP	CMS	NOR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-02B	TO-116
104▼	MC14002BCPD	CMS	NOR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-02B	TO-116
105▼	MC14002BCPDS	CMS	NOR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-02B	TO-116
106▼	MC14002BCPS	CMS	NOR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-02B	TO-116
107▼	MC14002BD	CMS	NOR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-02B	TO-116
108♦	CD4002BD	CMS	NOR	4		7.0	3.0			15	120n	500m	2.0	5	C	2	40-02B	MO001AD
109♦	CD4002BE	CMS	NOR	4		7.0	3.0			15	120n	500m	2.0	4	8	2	40-02B	MO001AB
110♦	CD4002BF	CMS	NOR	4		7.0	3.0			15	120n	500m	2.0	5	C	2	40-02B	MO001AB

5. GATES - NOR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT
(3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	SCL4002B	CMS	NOR	4		7.0	3.0	50		15	125n	300m	3.0	5	C	2	40-02B	MO001AA
2♦	SCL4402B	CMS	NOR	4		7.0	3.0	50		15	125n	300m	3.0	5	C	2	44-02B	DIP16a
3♦	4002A	CMS	NOR	4		7.1	2.9	2		10	130n	200m		4	8	2	40-02B	DIP14a
4♦	MSM506RS	CMS	NOR	4		3.6	0.8	40e		5.0	150n		0.6	3	8	2	G03-303a	DIP14a
5♦	MSM4002	CMS	NOR	4		7.2	2.0	16e		10	150n	300uQ	2.0 *	2	7	2	40-02B	DIP14a
6♦	M4002BP	CMS	NOR	4		11	4.0			15	160n	500m	4.0	4	8	2	40-02B	DIP14a
7♦	TC4002BP	CMS	NOR	4		14.9	.05C	50		15	160n	300m	4.0	4	8	2	40-02B	DIP14a
8♦	MSM506	CMS	NOR	4		3.6	0.8	15		5.0	300n	25u		2	7	2	G03-303a	DIP14a
9♦	MSM4002RS	CMS	NOR	4		3.6	1.0	40		16	300n		0.6	4	8	2	40-02B	DIP14 Ø
10♦	F95106DC	ECL	NOR	4		-1.1	-1.4	78g	5.2		3.1n	109mQ	140m*	0	7	3	G03-311	DIP16a
11♦	9015DM	TTL	NOR	4		1.7	0.9	11		5.0	7.0n	80m†		5	C	4	G03-237	DIP16a
12♦	9015FM	TTL	NOR	4		1.7	0.9	11		5.0	7.0n	80m†		5	C	4	G03-237	FP47b
13♦	9015DC	TTL	NOR	4		1.8	0.85	11		5.0	8.0n	80m†		0	7	4	G03-237	DIP16a
14▼	N74F260D	TTL	NOR	5		2.0	0.8			5.0						2	74S260	FP147
15♦	54S260DM	TTL	NOR	5		2.0	0.8	25		5.0	6.0n	225m		5	C	2	74S260N	DIP14a
16♦	54S260FM	TTL	NOR	5		2.0	0.8	25		5.0	6.0n	225m		5	C	2	54S260W	FP52
17♦	N74S260D	TTL	NOR	5		2.0	0.8	10		5.0	6.0n	225m	0.3	0	7	2	74S260N	FP147
18♦	N74S260N	TTL	NOR	5		2.0	0.8	10		5.0	6.0n	225m	0.3	0	7	2	74S260N	DIP14a
19♦	S54S260F	TTL	NOR	5		2.0	0.8	10		5.0	6.0n	225m	0.3	5	C	2	74S260N	DIP14b
20♦	S54S260G	TTL	NOR	5		2.0	0.8	10		5.0	6.0n		0.3	5	C	2	G03-339	LC24
21♦	S54S260W	TTL	NOR	5		2.0	0.8	10		5.0	6.0n	225m	0.3	5	C	2	54S260W	FP153
22♦	SN54S260J	TTL	NOR	5		2.0	0.8	10		5.0	6.0n	225m	0.3	5	C	2	74S260N	DIP14a
23♦	SN74S260D	TTL	NOR	5		2.0	0.8			5.0	6.0n		0.3	0	7	2	74S260	FP147
24♦	SN74S260N	TTL	NOR	5		2.0	0.8	10		5.0	6.0n	225m	0.3	0	7	2	74S260N	DIP14a
25♦	N74F260N	TTL	NOR	5		2.0	0.8			5.0	6.5n			0	7	2	74S260	DIP14a
26♦	54LS260DM	TTL	NOR	5		2.0	0.7	11d		5.0	12n	28mQ	300m*	5	C	2	74S260N	TO-116
27♦	54LS260FM	TTL	NOR	5		2.0	0.7	11d		5.0	12n	28mQ	300m*	5	C	2	54S260W	FP21h
28♦	74LS260DC	TTL	NOR	5		2.0	0.8	22d		5.0	12n	28mQ	300m*	0	7	2	74S260N	TO-116
29♦	74LS260PC	TTL	NOR	5		2.0	0.8	22d		5.0	12n	28mQ	300m*	0	7	2	74S260N	DIP14a
30♦	DN74LS260P1	TTL	NOR	5		2.0	0.8	20		5.0	12n	400m	700m	2	7	2	74S260	DIP14a
31♦	DN74LS260P4	TTL	NOR	5		2.0	0.8	20		5.0	12n	400m	700m	2	7	2	74S260	FP177
32♦	N74LS260D	TTL	NOR	5		2.0	0.8	20		5.0	12n	27m	0.3	0	7	2	74S260N	FP147
33♦	N74LS260N	TTL	NOR	5		2.0	0.8	20		5.0	12n	27m	0.3	0	7	2	74S260N	DIP14a
34♦	S54LS260F	TTL	NOR	5		2.0	0.7			5.0	12n	27m	0.3	5	C	2	74S260N	DIP14b
35♦	S54LS260W	TTL	NOR	5		2.0	0.7			5.0	12n	27m	0.3	5	C	2	54S260W	FP153
36♦	SN54LS260J	TTL	NOR	5		2.0	0.7			5.0	15n	28m	300m	5	C	2	74S260N	DIP14a
37▼	SN54LS260N	TTL	NOR	5		2.0	0.7			5.0	15n	28m	300m	5	C	2	74S260N	DIP14a
38♦	SN74LS260J	TTL	NOR	5		2.0	0.8			5.0	15n	28m	300m	0	7	2	74S260N	DIP14a
39♦	SN74LS260N	TTL	NOR	5		2.0	0.8			5.0	15n	28m	300m	0	7	2	74S260N	DIP14a
40♦	FCH121	DTL	NOR	5		2.3	0.8	8		5.0	31n	14m	1.2	0	7	2	G03-180b	TO-116
41♦	FCH131	DTL	NOR	5		2.3	0.8	8		5.0	31n	22m	1.2	0	7	2	G03-180c	TO-116
42♦	K176LE10	MOS	NOR	6		8.2	0.3	50		9.0	250n		0.9	1	7	2	40-25	None
43♦	SP314A	DTL	NOR	7		3.8	0.6	16		5.0	20n	22m†	1.2	0	7	1	None	DIP14a
44♦	M74HC4078P	CMS	NOR	8		4.2	1.8			5.0	24n			4	8	1	40-78	DIP14a
45♦	M54HC4078F1(A)	CMS	NOR	8		3.15	1.35	10		5.0	30n	500m	1.2	5	C	1	40-78	DIP14a
46♦	MM74HC4078J	CMS	NOR	8		4.2	1.2			5.0	30n	500m	1.7	4	8	1	40-78B	DIP14a
47♦	MM74HC4078N	CMS	NOR	8		4.2	1.2			5.0	30n	500m	1.7	4	8	1	40-78B	DIP14a
48▼	SN74HC4078AD	CMS	NOR	8		3.15	0.9			5.0	33n		1.2	4	8	1	40-78B	FP147
49▼	SN74HC4078AN	CMS	NOR	8		3.15	0.9			5.0	33n		1.2	4	8	1	40-78B	DIP14a
50▼	TC74HC4078F	CMS	NOR	8		3.15	1.35	10d		5.0	33n	500m	1.2	4	8	1	40-78	FP166
51▼	TC74HC4078P(A)	CMS	NOR	8		3.15	1.35	10d		5.0	33n	500m	1.2	4	8	1	40-78	DIP14a
52♦	M74HC4078B1(A)	CMS	NOR	8		3.15	1.35	10		5.0	36n	500m	1.2	4	8	1	40-78	DIP14a
53♦	M74HC4078C1(A)	CMS	NOR	8		3.15	1.35	10		5.0	36n	500m	1.2	4	8	1	G03-340	LC33
54♦	M74HC4078F1(A)	CMS	NOR	8		3.15	1.35	10		5.0	36n	500m	1.2	4	8	1	40-78	DIP14a
55♦	MM54HC4078J	CMS	NOR	8		4.2	1.2			5.0	36n	500m	1.7	5	C	1	40-78B	DIP14a
56♦	HEF4078P	CMS	NOR	8		7.0	3.0			10	39n	300uQ		4	8	1	40-78B	TO-116
57♦	HEF4078	CMS	NOR	8		11	4.0	16e		15	50n	400m	6.7	4	8	1	40-78B	DL Ø
58♦	HEF4078BPN	CMS	NOR	8		11.0	4.0	16e		15	50n	400m	6.7	4	8	1	40-78B	DIP14b
59♦	HEF4078BTD	CMS	NOR	8		11.0	4.0	50e		15	50n	200m	6.7	4	8	1	40-78B	FP147
60♦	4078BDC	CMS	NOR	8		11	4.0	25e		15	68n	450uQ	6.7	4	8	1	40-78B	TO-116
61♦	4078BDM	CMS	NOR	8		11	4.0	25e		15	68n	450uQ	6.7	5	C	1	40-78B	TO-116
62♦	4078BFC	CMS	NOR	8		11	4.0	25e		15	68n	450uQ	6.7	4	8	1	40-78B	FP21h
63♦	4078BFM	CMS	NOR	8		11	4.0	25e		15	68n	450uQ	6.7	5	C	1	40-78B	FP21h
64♦	4078BPC	CMS	NOR	8		11	4.0	25e		15	68n	450uQ	6.7	4	8	1	40-78B	DIP14a
65♦	HEF4078BD	CMS	NOR	8		7.0	3.0			10	70n	400m		4	8	1	40-78B	DIP14a
66♦	HEF4078BP	CMS	NOR	8		7.0	3.0			10	70n	500m		4	8	1	40-78B	DIP14a
67♦	HEF4078BT	CMS	NOR	8		7.0	3.0			10	70n	400m		4	8	1	40-78B	FP147
68♦	MN4078B	CMS	NOR	8		11.0	4.0			15	75n	400m	3.9	4	8	1	40-78B	DIP14a
69♦	883C4078B	CMS	NOR	8		8.2	6.7			15	90n	300m		5	C	1	40-78B	MO001AA
70♦	BCL4078B	CMS	NOR	8		8.2	6.7			15	90n	300m		5	C	1	40-78B	MO001AA
71♦	MB84078B	CMS	NOR	8		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	1	40-78B	DIP14b
72♦	MB84078BM	CMS	NOR	8		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	1	40-78B	DIP14a
73♦	MC14078BAL	CMS	NOR	8		11	4.0	50		15	120n	15uQ	2.5 *	5	C	1	40-78B	TO-116
74▼	MC14078BALD	CMS	NOR	8		11	4.0	50		15	120n	15uQ	2.5 *	5	C	1	40-78B	TO-116
75▼	MC14078BALDS	CMS	NOR	8		11	4.0	50		15	120n	15uQ	2.5 *	5	C	1	40-78B	TO-116
76▼	MC14078BALS	CMS	NOR	8		11	4.0	50		15	120n	15uQ	2.5 *	5	C	1	40-78B	TO-116
77♦	MC14078BCL	CMS	NOR	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-78B	TO-116
78▼	MC14078BCLD	CMS	NOR	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-78B	TO-116
79▼	MC14078BCLDS	CMS	NOR	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-78B	TO-116
80▼	MC14078BCLS	CMS	NOR	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-78B	TO-116
81♦	MC14078BCP	CMS	NOR	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-78B	TO-116
82▼	MC14078BCPD	CMS	NOR	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-78B	TO-116
83▼	MC14078BCPDS	CMS	NOR	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-78B	TO-116
84▼	MC14078BCPS	CMS	NOR	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-78B	TO-116
85▼	MC14078BD	CMS	NOR	8		11	4.0	50		15	120n	60uQ	2.5 *	4	8	1	40-78B	TO-116
86♦	SCL4078B	CMS	NOR	8		7.0	3.0	50		15	125n	300m	3.0	5	C	1	40-78B	MO001AA
87♦	CD4078BD	CMS	NOR	8		7.0	3.0	18e		15	150n	500m	2.9	5	C	1	40-78B	MO001AD
88♦	CD4078BE	CMS	NOR	8		7.0	3.0	18e		15	150n	500m	2.9	4	8	1	40-78B	MO001AB
89♦	CD4078BF	CMS	NOR	8		7.0	3.0	18e		15	150n	500m	2.9	5	C	1	40-78B	MO001AB
90♦	MSM507RS	CMS	NOR	8		3.6	0.8	40e		5.0	150n		0.6	3	8	1	G03-303b	DIP14a
91♦	MSM4078	CMS	NOR	8		7.2	2.0	16e		10	150n	300uQ	2.0 *	2	7	1	40-78B	DIP14a
92♦	M4078BP	CMS	NOR	8		11.0	4.0	50		15	160n	0.5	4.0 *	4	8	1	40-78B	DIP14a
93♦	TC4078BP	CMS	NOR	8		14.9	.05C	50		15	160n	300m	4.0	4	8	1	40-78B	DIP14a
94♦	MSM507	CMS	NOR	8		3.6	0.8	15		5.0	300n	25u		2	7	1	G03-303b	DIP14a
95♦	MSM4078RS	CMS	NOR	8		3.6	1.0	40		5.0	300n		0.6	4	8	1	40-78B	DIP14 Ø
96♦	HCC4078BD	CMS	NOR	8		10	0	1		10	340n	200m	4.5	5	C	1	40-78B	MO001AD
97♦	HCC4078BF	CMS	NOR	8		10	0	1		10	340n	200m	4.5	5	C	1	40-78B	MO001AB
98♦	HCC4078BK	CMS	NOR	8		10	0	1		10	340n	200m	4.5	5	C	1	40-78B	MO004AF
99♦	HCF4078BE	CMS	NOR	8		10	0	1		10	340n	200m	4.5	4	8	1	40-78B	MO001AB
100♦	HCF4078BF	CMS	NOR	8		10	0	1		10	340n	200m	4.5	4	8	1	40-78B	MO001AB
101♦	K155LE2	TTL	NOR	8		2.4	0.4			5.0				1	7	2	None	None
102♦	K155LE3	TTL	NOR	8		2.4	0.4			5.0				1	7	2	None	None
103♦	UPD74HC4078C(A)	CMS	NOR	8		4.2	1.2			5.0	14n	500m		4	8	2	74LS4078	MO001AA
104♦	PC74HC4002D(A)	CMS	NOR	8		3.15	0.9	10		5.0	25n	500m	0.8	4	8	2	40-02	DIP14b
105♦	K176LE6	MOS	NOR	8		8.2	0.3	50		9.0	250n		0.9	1	7	2	40-02	None
106♦	K155LE1	TTL	NOR	8		2.4	0.4			5.0				1	7	4	None	None
107♦	K155LE6	TTL	NOR	8		2.4	0.4			5.0				1	7	4	None	None
108♦	K176LE5	MOS	NOR	8		8.2	0.3	50		9.0	250n		0.9	1	7	4	G03-212	None
109♦	FCH101	DTL	NOR	10		2.3	0.8	8		5.0	31n	7.0m	1.2	0	7	1	G03-180	TO-116
110♦	FCH111	DTL	NOR	10		2.3	0.8	8		5.0	31n	11m	1.2	0	7	1	G03-180a	TO-116

5. GATES - OR

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
GATE, OR																		
4♦	HD10105	ECL	OR		CO	-1.1	-1.4		5.2		3.3n	200m		3	8	3	G17-02	DIP16b
5▼	952DC	BIP	OR	2					2.0	4.5	12n			1	5	2	None	TO-116
6♦	54F32DM	TTL	OR	2		2.0	0.8	12		5.0		78m		5	C	4	74-32N	DIP14b
7♦	54LS32DM	TTL	OR	2		2.0	0.7			5.0		49mQ	300m	5	C	4	74-32N	TO-116
8♦	54S32DM	TTL	OR	2		2.0	0.8	25		5.0		15n		5	C	4	74-32N	DIP14a
9♦	74F32DC	TTL	OR	2		2.0	0.8	12		5.0		78m		0	7	4	74-32N	DIP14b
10♦	74F32PC	TTL	OR	2		2.0	0.8	12		5.0		78m		0	7	4	74-32N	DIP14a
11♦	74LS32DC	TTL	OR	2		2.0	0.8	5		5.0		49mQ	300m	0	7	4	74-32N	TO-116
12♦	74LS32PC	TTL	OR	2		2.0	0.8	5		5.0		49mQ	300m	0	7	4	74-32N	TO-116
13♦	74S32DC	TTL	OR	2		2.0	0.8	25		5.0		15n		0	7	4	74-32N	DIP14a
14♦	74S32PC	TTL	OR	2		2.0	0.8	25		5.0		15n		0	7	4	74-32N	DIP14a
15♦	5432DM	TTL	OR	2		2.0	0.8	10		5.0		190m	1.0	5	C	4	74-32N	TO-116
16♦	7432DC	TTL	OR	2		2.0	0.8	20		5.0		190m	1.0	0	7	4	74-32N	TO-116
17♦	7432PC	TTL	OR	2		2.0	0.8	20		5.0		190m	1.0	0	7	4	74-32N	DIP14a
18♦	DM54ALS32J	TTL	OR	2		2.0	0.8	10		5.0		16n	0.4	5	C	4	74-32	DIP14a
19♦	DM54AS32J	TTL	OR	2		2.0	0.8	50		5.0		7.5n	0.3	5	C	4	74-32	DIP14a
20♦	DM54LS32J	TTL	OR	2		2.0	0.7	10		5.0		15n	0.3	5	C	4	74-32	DIP14a
21♦	DM74ALS32J	TTL	OR	2		2.0	0.8	10		5.0		14n	0.3	0	7	4	74-32	DIP14a
22♦	DM74ALS32N	TTL	OR	2		2.0	0.8	10		5.0		14n	0.3	0	7	4	74-32	DIP14a
23♦	DM74AS32J	TTL	OR	2		2.0	0.8	50		5.0		5.8n	0.3	0	7	4	74-32	DIP14a
24♦	DM74AS32N	TTL	OR	2		2.0	0.8	50		5.0		5.8n	0.3	0	7	4	74-32	DIP14a
25♦	DM74LS32N	TTL	OR	2		2.0	0.8	10		5.0		15n	0.3	0	7	4	74-32	DIP14a
26♦	DM5432J	TTL	OR	2		2.0	0.8			5.0		176m		5	C	4	74-32N	DIP14a
27♦	DM7432N	TTL	OR	2		2.0	0.8			5.0		176m		0	7	4	74-32N	DIP14a
28♦	DM10101J	ECL	OR	2	CO	-1.1	-1.4		5.2			25m†		3	8	4	G02-162	DIP16a
29♦	DN74LS32P1	TTL	OR	2		2.0	0.8	20		5.0		400m	700m	2	7	4	74-32	DIP14a
30♦	DN74LS32P4	TTL	OR	2		2.0	0.8	20		5.0		400m	700m	2	7	4	74-32	FP177
31♦	GXB10101	ECL	OR	2	CO	-1.1	-1.4		5.2			100m†		0	7	4	G02-162	DIP16b
32♦	M54HC32F1(A)	CMS	OR	2		3.15	1.35	10		5.0		500m	1.2	5	C	4	74-32	DIP14a
33♦	M74ALS32P	TTL	OR	2		2.0	0.8			5.0		27m	0.4	2	7	4	74-32N	DIP14a
34♦	M74HC32B1(A)	CMS	OR	2		3.15	1.35	10		5.0		500m	1.2	4	8	4	74-32	DIP14a
35♦	M74HC32F1(A)	CMS	OR	2		3.15	1.35	10		5.0		500m	1.2	4	8	4	74-32	DIP14a
36♦	M74HC32P	CMS	OR	2		4.2	1.8			5.0		17n		4	8	4	74-32	DIP14a
37♦	M74LS32P	TTL	OR	2		2.0	0.8	20		5.0		20m†	0.4	2	7	4	74-32N	DIP14a
38♦	MB74LS32	TTL	OR	2		2.0	0.8	20		5.0		49m	1.0 *	2	7	4	74-32N	DIP14a
39♦	MB74LS32M	TTL	OR	2		2.0	0.8	20		5.0		49m	1.0 *	2	7	4	74-32N	DIP14a
40♦	MB10101	ECL	OR	2	CO	-1.1	-1.4	70	5.2			100m†		3	8	4	G02-162	DIP16b
41♦	MB10101M	ECL	OR	2	CO	-1.1	-1.4	70	5.2			100m†		3	8	4	G02-162	DIP16b
42♦	MC54F32J	TTL	OR	2		2.0	0.8	12a		5.0		5.6n	0.3	5	C	4	74-32	DIP14a
43▼	MC54F32N	TTL	OR	2		2.0	0.8	12a		5.0		5.6n	0.3	5	C	4	74-32	DIP14a
44♦	MC54HC32J	CMS	OR	2		3.15	0.9	10		5.0		500m	1.2	5	C	4	74-32	DIP14a
45♦	MC74F32J	TTL	OR	2		2.0	0.8	12a		5.0		5.6n	0.3	0	7	4	74-32	DIP14a
46♦	MC74F32N	TTL	OR	2		2.0	0.8	12a		5.0		5.6n	0.3	0	7	4	74-32	DIP14a
47♦	MC74HC32J(A)	CMS	OR	2		3.15	0.9	10		5.0		500m	1.3	4	8	4	74-32	DIP14a
48♦	MC74HC32N(A)	CMS	OR	2		3.15	0.9	10		5.0		500m	1.3	4	8	4	74-32	DIP14a
49♦	MC1808L,P	DTL	OR	2		2.6	.45C	8		5.0		97m†		0	7	4	74-32N	TO-116
50♦	MC1809L,P	DTL	OR	2		2.6	.45C	7		5.0		115m†		0	7	4	74-32N	TO-116
51♦	MC1908L	DTL	OR	2		2.6	0.4C	8		5.0		97m†		5	C	4	74-32N	TO-116
52♦	MC1909L	DTL	OR	2		2.6	0.4C	7		5.0		115m†		5	C	4	74-32N	TO-116
53▼	MC10101FN	ECL	OR	2	CO	-1.1	-1.4	10	5.2			100m†	150m	3	8	4	G02-162	DIP16a
54♦	MC10101L	ECL	OR	2	CO	-1.1	-1.4	10	5.2			100m†	150m	3	8	4	G02-162	DIP16a
55▼	MC10101LD	ECL	OR	2	CO	-1.1	-1.4	10	5.2			100m†	150m	3	8	4	G02-162	DIP16a
56▼	MC10101LDS	ECL	OR	2	CO	-1.1	-1.4	10	5.2			100m†	150m	3	8	4	G02-162	DIP16a
57♦	MC10101P	ECL	OR	2	CO	-1.1	-1.4	10	5.2			100m†	150m	3	8	4	G02-162	DIP16b
58▼	MC10101PD	ECL	OR	2	CO	-1.1	-1.4	10	5.2			100m†	150m	3	8	4	G02-162	DIP16b
59▼	MC10101PDS	ECL	OR	2	CO	-1.1	-1.4	10	5.2			100m†	150m	3	8	4	G02-162	DIP16b
60♦	MM54C32D	CMS	OR	2						15			450m	5	C	4	74-32N	DIP14a
61♦	MM54HC32J	CMS	OR	2		4.2	1.2			5.0		500m	1.7	5	C	4	74-32N	DIP14a
62♦	MM74C32N	CMS	OR	2						15			450m	0	7	4	74-32N	DIP14a
63♦	N74LS32D	TTL	OR	2		2.0	0.7	20		5.0		49m	0.3	0	7	4	74-32N	FP147
64♦	N74LS32N	TTL	OR	2		2.0	0.7	20		5.0		49m	0.3	0	7	4	74-32N	DIP14a
65♦	N74S32D	TTL	OR	2		2.0	0.8	20		5.0		49m	0.4	0	7	4	74-32N	FP147
66♦	N74S32N	TTL	OR	2		2.0	0.8	10		5.0		340m	0.4	0	7	4	74-32N	DIP14a
67♦	N7432F	TTL	OR	2		2.0	0.8	10		5.0		190m	1.0 †	0	7	4	74-32N	DIP14b
68♦	N7432N	TTL	OR	2		2.0	0.8	10		5.0		190m	0.4	0	7	4	74-32N	DIP14a
69♦	PC54HC32D(A)	CMS	OR	2		3.15	0.9	10		5.0		500m	0.8	5	C	4	74-32	DIP14b
70♦	PC54HCT32D(A)	CMS	OR	2		2.0	0.8	10		5.0		500m	0.7	5	C	4	74-32	DIP14b
71♦	PC74HC32D(A)	CMS	OR	2		3.15	0.9	10		5.0		500m	0.8	4	8	4	74-32	DIP14b
72♦	PC74HCT32D(A)	CMS	OR	2		2.0	0.8	10		5.0		500m	0.7	4	8	4	74-32	DIP14b
73♦	S54LS32F	TTL	OR	2		2.0	0.7			5.0		49m	0.3	5	C	4	74-32N	DIP14b
74♦	S54S32F	TTL	OR	2		2.0	0.8	10		5.0		340m		5	C	4	74-32N	DIP14b
75♦	S5432F	TTL	OR	2		2.0	0.8	20		5.0		190m	0.4	5	C	4	74-32N	DIP14b
76♦	SN54LS32J	TTL	OR	2		2.0	0.7			5.0		22n	0.3	5	C	4	74-32N	DIP14a
77▼	SN54LS32N	TTL	OR	2		2.0	0.7			5.0		22n	0.3	5	C	4	74-32N	DIP14a
78♦	SN54S32J	TTL	OR	2		2.0	0.8	10		5.0		340m	0.3	5	C	4	74-32N	DIP14a
79♦	SN74LS32D	TTL	OR	2		2.0	0.8			5.0		22n	0.4	0	7	4	74-32	FP147
80♦	SN74LS32J	TTL	OR	2		2.0	0.8			5.0		22n	0.4	0	7	4	74-32N	DIP14a
81♦	SN74LS32N	TTL	OR	2		2.0	0.8			5.0		22n	0.4	0	7	4	74-32N	DIP14a
82♦	SN74S32D	TTL	OR	2		2.0	0.8			5.0		7.0n	0.3	0	7	4	74-32	FP147
83♦	SN74S32N	TTL	OR	2		2.0	0.8	10		5.0		340m	0.3	0	7	4	74-32N	DIP14a
84♦	SN5432J	TTL	OR	2		2.0	0.8	20		5.0		190m	0.4	5	C	4	74-32N	DIP14a
85♦	SN7432N	TTL	OR	2		2.0	0.8	20		5.0		190m	0.4	0	7	4	74-32N	DIP14a
86♦	T54LS32D2	TTL	OR	2		2.0	0.7	11d		5.0		49mQ	300m	5	C	4	74-32N	DIP14b
87♦	T74LS32B1	TTL	OR	2		2.0	0.8	22d		5.0		49mQ	300m	0	7	4	74-32N	DIP14a
88♦	T74LS32D1	TTL	OR	2		2.0	0.8	22d		5.0		49mQ	300m	0	7	4	74-32N	DIP14b
89♦	TC40H032P	CMS	OR	2		4.0	1.0	50		10		300m	.95	4	8	4	74-32N	MO001AA
90♦	US74HCT32N(A)	CMS	OR	2		2.0	0.8	10		5.0		500m	750m	4	8	4	74-32N	DIP14 ☑
91♦	100112F	ECL	OR	2		-1.1	-1.4		4.5		1.2n	330m†		0	8	4	G02-230	DIP24d
92♦	100113Y	ECL	OR	2		-1.1	-1.4		4.5		1.2n	340m†		0	8	4	G02-230	FP173
93♦	HXA100112D	ECL	OR	2		-1.1	-1.4	16	4.5		1.3n	310m		0	8	4	G02-230	DL ☑
94♦	HXA100112F	ECL	OR	2		-1.1	-1.4	16	4.5		1.3n	310m		0	8	4	G02-230	FP ☑
95♦	100113F	ECL	OR	2		-1.1	-1.4		4.5		1.4n	340m†		0	8	4	G02-230	DIP24d
96▼	MC10H101FN	ECL	OR	2	CO	-1.1	-1.4		5.2		1.5n	25m	150m	0	7	4	G02-178	DIP16a
97♦	MC10H101L	ECL	OR	2	CO	-1.1	-1.4		5.2		1.5n	25m	150m	0	7	4	G02-178	DIP16a
98▼	MC10H101LD	ECL	OR	2	CO	-1.1	-1.4		5.2		1.5n	25m	150m	0	7	4	G02-178	DIP16a
99▼	MC10H101LDS	ECL	OR	2	CO	-1.1	-1.4		5.2		1.5n	25m	150m	0	7	4	G02-178	DIP16a
100♦	MC10H101P	ECL	OR	2	CO	-1.1	-1.4		5.2		1.5n	25m	150m	0	7	4	G02-178	DIP16b
101▼	MC10H101PD	ECL	OR	2	CO	-1.1	-1.4		5.2		1.5n	25m	150m	0	7	4	G02-178	DIP16b
102▼	MC10H101PDS	ECL	OR	2	CO	-1.1	-1.4		5.2		1.5n	25m	150m	0	7	4	G02-178	DIP16b
103▼	MC10H103FN	ECL	OR	2		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G02-199	DIP16a
104♦	MC10H103L	ECL	OR	2		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G02-199	DIP16a
105▼	MC10H103LD	ECL	OR	2		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G02-199	DIP16a
106▼	MC10H103LDS	ECL	OR	2		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G02-199	DIP16a
107♦	MC10H103P	ECL	OR	2		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G02-199	DIP16b
108▼	MC10H103PD	ECL	OR	2		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G02-199	DIP16b
109▼	MC10H103PDS	ECL	OR	2		-1.1	-1.4		5.2		1.5n		150m	0	7	4	G02-199	DIP16b
110♦	MC10H103J(A)	ECL	OR	2		-1.1	-1.4		5.2		1.7n		150m	0	7	4	G02-199	DIP16a

5. GATES - OR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	MC10H103N(A)	ECL	OR	2		-1.1	-1.4		5.2		1.7n		150m	0	7	4	G02-199	DIP16a
2♦	MC1664L	ECL	OR	2		-1.1	-1.4	70	5.2		1.7n	240m†		3	8	4	G02-169	DIP16a
3▼	MC1664LD	ECL	OR	2		-1.1	-1.4	70	5.2		1.7n	240m†		3	8	4	G02-169	DIP16a
4▼	MC1664LDS	ECL	OR	2		-1.1	-1.4	70	5.2		1.7n	240m†		3	8	4	G02-169	DIP16a
5♦	SP1664DG	ECL	OR	2		-1.1	-1.4		5.2		1.9n			0	7	4	G02-169	DIP16b
6♦	100112Y	ECL	OR	2		-1.1	-1.4		4.5		2.0n	330m†		0	8	4	G02-230	FP173
7♦	MC10501F	ECL	OR	2	CO	-1.1	-1.4	10	5.2		2.0n	100m†		5	C	4	G02-178	FP85
8♦	MC10501L	ECL	OR	2	CO	-1.1	-1.4	10	5.2		2.0n	100m†		5	C	4	G02-178	DIP16b
9♦	F10101DC	ECL	OR	2	CO	-1.1	-1.4	80g	5.2		2.9n	135mQ	145m*	0	7	4	G02-205	DIP16a
10♦	F10103DC	ECL	OR	2		-1.1	-1.4	80g	5.2		2.9n	135mQ	145m*	0	7	4	G03-310a	DIP16a
11♦	F10501DM	ECL	OR	2		-1.1	-1.4	40g	5.2		2.9n	135mQ	145m*	5	C	4	G02-205	DIP16a
12♦	F10501FM	ECL	OR	2		-1.1	-1.4	40g	5.2		2.9n	135mQ	145m*	5	C	4	G02-205	FP103
13♦	F10503DM	ECL	OR	2		-1.1	-1.4	40g	5.2		2.9n	135mQ	145m*	5	C	4	G03-310a	DIP16a
14♦	F10503FM	ECL	OR	2		-1.1	-1.4	40g	5.2		2.9n	135mQ	145m*	5	C	4	G03-310a	FP103
15▼	MC10103FN	ECL	OR	2		-1.1	-1.4		5.2		2.9n	135m	150m	3	8	4	G02-199	DIP16a
16♦	MC10103L	ECL	OR	2		-1.1	-1.4		5.2		2.9n	135m	150m	3	8	4	G02-199	DIP16a
17▼	MC10103LD	ECL	OR	2		-1.1	-1.4		5.2		2.9n	135m	150m	3	8	4	G02-199	DIP16a
18▼	MC10103LDS	ECL	OR	2		-1.1	-1.4		5.2		2.9n	135m	150m	3	8	4	G02-199	DIP16a
19♦	MC10103P	ECL	OR	2		-1.1	-1.4		5.2		2.9n	135m	150m	3	8	4	G02-199	DIP16b
20▼	MC10103PD	ECL	OR	2		-1.1	-1.4		5.2		2.9n	135m	150m	3	8	4	G02-199	DIP16b
21▼	MC10103PDS	ECL	OR	2		-1.1	-1.4		5.2		2.9n	135m	150m	3	8	4	G02-199	DIP16b
22♦	MC10503F	ECL	OR	2		-1.1	-1.4		5.2		2.9n	135m	125m*	5	C	4	G02-199	FP85
23♦	MC10503L	ECL	OR	2		-1.1	-1.4		5.2		2.9n	135m	125m*	5	C	4	G02-199	DIP16a
24♦	F95101DC	ECL	OR	2		-1.1	-1.4	78g	5.2		3.1n	135mQ	140m*	0	7	4	G02-205	DIP16a
25♦	F95103DC	ECL	OR	2		-1.1	-1.4	78g	5.2		3.1n	135mQ	140m*	0	7	4	G02-197	DIP16a
26♦	10101F	ECL	OR	2	CO	-1.1	-1.4		5.2		3.3n	100m†		3	8	4	G02-178	DIP16a
27♦	10101N	ECL	OR	2	CO	-1.1	-1.4		5.2		3.3n	100m†		3	8	4	G02-178	DIP16a
28♦	10103F	ECL	OR	2		-1.1	-1.4		5.2		3.3n	100m†		3	8	4	G02-197	DIP16a
29♦	10103N	ECL	OR	2		-1.1	-1.4		5.2		3.3n	100m†		3	8	4	G02-197	DIP16a
30♦	HD10101	ECL	OR	2	CO	-1.1	-1.4		5.2		3.3n	200m		3	8	4	G17-01	DIP16b
31	S54F32W	TTL	OR	2		2.0	0.8		-0.5	5.0	5.6n			5	C	4	54-32W	FP153
32▼	SN74AS32D	TTL	OR	2		2.0	0.8			5.0	5.8n		0.3	0	7	4	74-32N	FP147
33♦	SN74AS32N	TTL	OR	2		2.0	0.8			5.0	5.8n		0.3	0	7	4	74-32N	DIP14a
34♦	74F32L1C	TTL	OR	2		2.0	0.8			5.0	6.6n			0	7	4	G02-234	LC19
35♦	74F32QC	TTL	OR	2		2.0	0.8			5.0	6.6n			0	7	4	G02-234	LC26
36♦	74F32SC	TTL	OR	2		2.0	0.8			5.0	6.6n			0	7	4	54-32	FP147
37♦	N74F32D	TTL	OR	2		2.0	0.8			5.0	6.6n			0	7	4	74-32	FP147
38♦	N74F32N	TTL	OR	2		2.0	0.8			5.0	6.6n			0	7	4	74-32	DIP14a
39♦	54LS32FM	TTL	OR	2		2.0	0.7			5.0	7.0n	49mQ	300m	5	C	4	54-32W	TO-86
40♦	S54S32W	TTL	OR	2		2.0	0.8	10		5.0	7.0n	340m		5	C	4	54-32W	FP39e
41♦	54F32FM	TTL	OR	2		2.0	0.8	12		5.0	7.5n	78m		5	C	4	54-32W	FP115
42♦	54F32L1M	TTL	OR	2		2.0	0.8			5.0	7.5n			5	C	4	G02-234	LC19
43♦	S54F32F	TTL	OR	2		2.0	0.8			5.0	7.5n	350m	0.5	5	C	4	74-32	DIP14b
44♦	S54F32G	TTL	OR	2		2.0	0.8			5.0	7.5n		300m	5	C	4	G02-234	LC24
45♦	DM54S32J	TTL	OR	2		2.0	0.8	20		5.0	9.0n		0.3	5	C	4	54-32	DIP14a
46♦	DM74S32N	TTL	OR	2		2.0	0.8	20		5.0	9.0n		0.3	0	7	4	74-32	DIP14a
47▼	HD74HC32FP	CMS	OR	2		3.15	1.35			5.0	10n	500m	1.2	4	8	4	74-32N	FP161
48▼	HD74HC32P	CMS	OR	2		3.15	1.35			5.0	10n	500m	1.2	4	8	4	74-32N	DIP14a
49♦	UPD74HC32C(A)	CMS	OR	2		4.2	1.2			5.0	10n	500m		4	8	4	74-32	MO001AA
50▼	SN74ALS32D	TTL	OR	2		2.0	0.8			5.0	14n		0.4	0	7	4	74-32N	FP147
51♦	SN74ALS32N	TTL	OR	2		2.0	0.8			5.0	14n		0.4	0	7	4	74-32N	DIP14a
52♦	54S32FM	TTL	OR	2		2.0	0.8	25		5.0	15n			5	C	4	54-32W	FP52
53♦	M74HC32C1(A)	CMS	OR	2		3.15	1.35	10		5.0	15n	500m	1.2	4	8	4	G02-234	LC33
54♦	MM74PC32J	CMS	OR	2		4.0	1.0			5.0	16n	500m		0	7	4	74-32N	DIP14b
55♦	MM74PC32JI	CMS	OR	2		4.0	1.0			5.0	16n	500m		4	8	4	74-32N	DIP14b
56♦	MM74PC32N	CMS	OR	2		4.0	1.0			5.0	16n	500m		0	7	4	74-32N	DIP14a
57♦	MM74PC32NI	CMS	OR	2		4.0	1.0			5.0	16n	500m		4	8	4	74-32N	DIP14a
58♦	SN54ALS32J	TTL	OR	2		2.0	0.7			5.0	18n		0.3	5	C	4	74-32N	DIP14a
59	74HC32D	CMS	OR	2		3.15	1.35	10		5.0	20n		1.2	4	8	4	74-32	FP147
60♦	74HC32N	CMS	OR	2		3.15	1.35	10		5.0	20n		1.2	4	8	4	74-32	DIP14a
61♦	CD74HC32E(A)	CMS	OR	2		3.15	1.35	10		5.0	20n	500m	1.2	4	8	4	74-32N	MO001AB
62♦	CD74HC32M	CMS	OR	2		3.15	1.35	10		5.0	20n	400m	1.2	4	8	4	74-32N	FP147
63♦	CD74HCT32E	CMS	OR	2		2.0	0.8	10		5.0	20n	500m	0.7	4	8	4	74-32N	MO001AB
64♦	CD74HCT32M	CMS	OR	2		2.0	0.8	10		5.0	20n	400m	0.7	4	8	4	74-32N	FP147
65♦	LC74HC32	CMS	OR	2		3.5	1.5	10		5.0	20n	0.3	1.1	4	8	4	74-32	DIP14a
66♦	MB10103	ECL	OR	2		-1.1	-1.4	70	5.2		20n	100m†		3	8	4	G02-199	DIP16b
67♦	MB10103M	ECL	OR	2		-1.1	-1.4	70	5.2		20n	100m†		3	8	4	G02-199	DIP16b
68♦	5432FM	TTL	OR	2		2.0	0.8	10		5.0	22n	190m	1.0	5	C	4	54-32W	FP21h
69♦	DM5432W	TTL	OR	2		2.0	0.8			5.0	22n	176m		5	C	4	54-32W	FP97a
70▼	HD74LS32G	TTL	OR	2		2.0	0.8			5.0	22n	400m	300m	2	7	4	74-32N	DIP14a
71♦	HD74LS32P	TTL	OR	2		2.0	0.8			5.0	22n	400m	300m	2	7	4	74-32N	DIP14a
72♦	S54LS32G	TTL	OR	2		2.0	0.7			5.0	22n	49m	0.3	5	C	4	G02-234	LC24
73♦	S54LS32W	TTL	OR	2		2.0	0.7			5.0	22n	49m	0.3	5	C	4	54-32W	FP153
74♦	S5432W	TTL	OR	2		2.0	0.8	20		5.0	22n	190m	0.4	5	C	4	54-32W	FP153
75♦	CD54HC32F	CMS	OR	2		3.15	1.35	10		5.0	23n	500m	1.2	5	C	4	74-32N	MO001AB
76♦	CD54HCT32F	CMS	OR	2		2.0	0.8	10		5.0	23n	500m	0.7	5	C	4	74-32N	MO001AB
77▼	TC74HC32F(A)	CMS	OR	2		3.15	1.35	10d		5.0	23n	180m	1.4	4	8	4	74-32N	FP166
78♦	TC74HC32P(A)	CMS	OR	2		3.15	1.35	10d		5.0	23n	500m	1.4	4	8	4	74-32N	MO001AA
79▼	SN74HC32D	CMS	OR	2		3.15	0.9			5.0	25n			4	8	4	74-32N	FP147
80♦	SN74HC32N	CMS	OR	2		3.15	0.9			5.0	25n			4	8	4	74-32N	MO001AA
81♦	PC74HC32P	CMS	OR	2		3.15	1.35	10		5.0	27n	500m	0.8	4	C	4	74-32	DIP14b
82♦	PC74HC32T	CMS	OR	2		3.15	1.35	10		5.0	27n	300m	0.8	4	C	4	74-32	FP147
83♦	TC40H032F	CMS	OR	2		4.0	1.0			10	27n	180m	.95	4	8	4	54-32W	FP166
84	74HCT32D	CMS	OR	2		2.0	0.8	10		5.0	30n		0.7	4	8	4	74-32	FP147
85♦	74HCT32N	CMS	OR	2		2.0	0.8	10		5.0	30n		0.7	4	8	4	74-32	DIP14a
86♦	MC1909F	DTL	OR	2		2.6	0.4C	7		5.0	30n	115m†		5	C	4	54-32W	TO-86
87♦	SN54HC32J	CMS	OR	2		3.15	0.9			5.0	30n			5	C	4	74-32N	MO001AA
88♦	4071BDC	CMS	OR	2		11	4.0	25e		15	32n	450uQ	6.7	4	8	4	40-71B	TO-116
89♦	4071BDM	CMS	OR	2		11	4.0	25e		15	32n	450uQ	6.7	5	C	4	40-71B	TO-116
90♦	4071BFC	CMS	OR	2		11	4.0	25e		15	32n	450uQ	6.7	4	8	4	40-71B	FP21h
91♦	4071BFM	CMS	OR	2		11	4.0	25e		15	32n	450uQ	6.7	5	C	4	40-71B	FP21h
92♦	4071BPC	CMS	OR	2		11	4.0	25e		15	32n	450uQ	6.7	4	8	4	40-71B	DIP14a
93♦	HEF4071	CMS	OR	2		11	4.0	16e		15	35n	400m	6.7	4	8	4	40-71B	DL ☑
94♦	HEF4071BPN	CMS	OR	2		11.0	4.0	16e		15	35n	400m	6.7	4	8	4	40-71B	DIP14b
95♦	HEF4071BTD	CMS	OR	2		11.0	4.0	50e		15	35n	200m	6.7	4	8	4	40-71B	FP147
96♦	MC1908F	DTL	OR	2		2.6	0.4C	8		5.0	35n	97m†		5	C	4	54-32W	TO-86
97♦	SP384A	TTL	OR	2		3.8	.6C	11		5.0	35n	44m†	1.7	0	7	4	G02-78e	TO-116
98♦	PC74HCT32P	CMS	OR	2		2.0	0.8	10		5.0	36n	500m	0.7	4	C	4	74-32	DIP14b
99♦	PC74HCT32T	CMS	OR	2		2.0	0.8	10		5.0	36n	300m	0.7	4	C	4	74-32	FP147
100♦	HEF4071P	CMS	OR	2		7.0	3.0			10	40n	50uQ	4.5	4	8	4	40-71B	TO-116
101♦	HEF4071BD	CMS	OR	2		7.0	3.0			10	50n	500m		4	8	4	40-71B	DIP14a
102♦	HEF4071BP	CMS	OR	2		7.0	3.0			10	50n	500m		4	8	4	40-71B	DIP14a
103♦	HEF4071BT	CMS	OR	2		7.0	3.0			10	50n	400m		4	8	4	40-71B	FP147
104♦	MN4071B	CMS	OR	2		11.0	4.0			15	60n	400m	3.9	4	8	4	40-71B	DIP14a
105♦	CD4071BCJ	CMS	OR	2		11	4.0	16e		15	70n	60uQ	6.7	4	8	4	40-71B	DIP14a
106♦	CD4071BCN	CMS	OR	2		11	4.0	16e		15	70n	60uQ	6.7	4	8	4	40-71B	DIP14a
107♦	CD4071BMJ	CMS	OR	2		11	4.0	19e		15	70n	15uQ	6.7	5	C	4	40-71B	DIP14a
108♦	CD4071BMW	CMS	OR	2		11	4.0	19e		15	70n	15uQ	6.7	5	C	4	40-71B	FP97c
109♦	883C4071B	CMS	OR	2		8.2	6.7			15	80n	300m		5	C	4	40-71B	MO001AA
110♦	BCL4071B	CMS	OR	2		11.0	4.0			15	80n	300m		5	C	4	40-71B	MO001AA

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - OR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	MB84071B	CMS	OR	2		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	4	40-71B	DIP14b
2♦	MB84071BM	CMS	OR	2		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	4	40-71B	DIP14a
3♦	MC14071BAL	CMS	OR	2		11	4.0	50		15	100n	15uQ	2.5 *	5	C	4	40-71B	TO-116
4▼	MC14071BALD	CMS	OR	2		11	4.0	50		15	100n	15uQ	2.5 *	5	C	4	40-71B	TO-116
5▼	MC14071BALDS	CMS	OR	2		11	4.0	50		15	100n	15uQ	2.5 *	5	C	4	40-71B	TO-116
6▼	MC14071BALS	CMS	OR	2		11	4.0	50		15	100n	15uQ	2.5 *	5	C	4	40-71B	TO-116
7♦	MC14071BCL	CMS	OR	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-71B	TO-116
8▼	MC14071BCLD	CMS	OR	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-71B	TO-116
9▼	MC14071BCLDS	CMS	OR	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-71B	TO-116
10▼	MC14071BCLS	CMS	OR	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-71B	TO-116
11♦	MC14071BCP	CMS	OR	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-71B	TO-116
12▼	MC14071BCPD	CMS	OR	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-71B	TO-116
13▼	MC14071BCPDS	CMS	OR	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-71B	TO-116
14▼	MC14071BCPS	CMS	OR	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-71B	TO-116
15▼	MC14071BD	CMS	OR	2		11	4.0	50		15	100n	60uQ	2.5 *	4	8	4	40-71B	TO-116
16♦	SCL4071B	CMS	OR	2		7.0	3.0	50		15	100n	300m	3.0	5	C	4	40-71B	MO001AA
17♦	CD4071BD	CMS	OR	2		7.0	3.0	18e		15	120n	500m	2.9	5	C	4	40-71B	MO001AD
18♦	CD4071BE	CMS	OR	2		7.0	3.0	18e		15	120n	500m	2.9	4	8	4	40-71B	MO001AB
19♦	CD4071BF	CMS	OR	2		7.0	3.0	18e		15	120n	500m	2.9	5	C	4	40-71B	MO001AB
20♦	LC4071B	CMS	OR	2		2.5	1.5			8.0	125n	300m		4	8	4	40-71B	DIP14a
21♦	M4071BP	CMS	OR	2		11	4.0			15	130n	500m	4.0	4	8	4	40-71	DIP14a
22♦	TC4071BP	CMS	OR	2		14.9	.05C	50		15	130n	300m	4.0	4	8	4	40-71B	DIP14a
23♦	MSM4071	CMS	OR	2		7.2	2.0	16e		10	150n	300uQ	2.0 *	2	7	4	40-71B	DIP14a
24♦	UPD4071BG	CMS	OR	2		11.0	4.0			15	150n	200m	3.9	4	8	4	40-71B	FP161
25♦	HCC4071BD	CMS	OR	2		10	0	4		10	200n	200m	4.5	5	C	4	40-71B	MO001AD
26♦	HCC4071BF	CMS	OR	2		7.0	3.0	4		10	200n	200m	4.5	5	C	4	40-71	MO001AB
27♦	HCC4071BK	CMS	OR	2		10	0	4		10	200n	200m	4.5	5	C	4	40-71B	MO004AF
28♦	HCF4071BE	CMS	OR	2		10	0	4		10	200n	200m	4.5	4	8	4	40-71B	MO001AB
29♦	HCF4071BF	CMS	OR	2		10	0	4		10	200n	200m	4.5	4	8	4	40-71B	MO001AB
30♦	MSM4071RS	CMS	OR	2		3.6	1.0	40		5.0	300n		0.6	4	8	4	40-71B	DIP14 ☑
31♦	DM10105J	ECL	OR	2/2/3	CO	-1.1	-1.4		5.2			109mQ		3	8	3	G02-163	DIP16a
32♦	GXB10105	ECL	OR	2/2/3	CO	-1.1	-1.4		5.2			75m†		0	7	3	G02-163	DIP16b
33♦	MB10105	ECL	OR	2/2/3	CO	-1.1	-1.4	70	5.2			90m†		3	8	3	G02-163	DIP16b
34♦	MB10105M	ECL	OR	2/2/3	CO	-1.1	-1.4	70	5.2			90m†		3	8	3	G02-163	DIP16b
35▼	MC10H105FN	ECL	OR	2/2/3	CO	-1.1	-1.4		5.2		1.5n	25m	150m	0	7	3	G02-179	DIP16a
36♦	MC10H105L	ECL	OR	2/2/3	CO	-1.1	-1.4		5.2		1.5n	25m	150m	0	7	3	G02-179	DIP16a
37▼	MC10H105LD	ECL	OR	2/2/3	CO	-1.1	-1.4		5.2		1.5n	25m	150m	0	7	3	G02-179	DIP16a
38▼	MC10H105LDS	ECL	OR	2/2/3	CO	-1.1	-1.4		5.2		1.5n	25m	150m	0	7	3	G02-179	DIP16a
39♦	MC10H105P	ECL	OR	2/2/3	CO	-1.1	-1.4		5.2		1.5n	25m	150m	0	7	3	G02-179	DIP16b
40▼	MC10H105PD	ECL	OR	2/2/3	CO	-1.1	-1.4		5.2		1.5n	25m	150m	0	7	3	G02-179	DIP16b
41▼	MC10H105PDS	ECL	OR	2/2/3	CO	-1.1	-1.4		5.2		1.5n	25m	150m	0	7	3	G02-179	DIP16b
42♦	MC10H105J(A)	ECL	OR	2/2/3	CO	-1.1	-1.4		5.2		1.7n		150m	0	7	3	G02-179	DIP16a
43♦	MC10H105N(A)	ECL	OR	2/2/3	CO	-1.1	-1.4		5.2		1.7n		150m	0	7	3	G02-179	DIP16a
44♦	F10105DC	ECL	OR	2/2/3	CO	-1.1	-1.4	80g	5.2		2.9n	109mQ	145m*	0	7	3	G02-204	DIP16a
45▼	MC10105FN	ECL	OR	2/2/3	CO	-1.1	-1.4	90	5.2		2.9n	90m†	150m	3	8	3	G02-179	DIP16a
46♦	MC10105L	ECL	OR	2/2/3	CO	-1.1	-1.4	90	5.2		2.9n	90m†	150m	3	8	3	G02-179	DIP16a
47▼	MC10105LD	ECL	OR	2/2/3	CO	-1.1	-1.4	90	5.2		2.9n	90m†	150m	3	8	3	G02-179	DIP16a
48▼	MC10105LDS	ECL	OR	2/2/3	CO	-1.1	-1.4	90	5.2		2.9n	90m†	150m	3	8	3	G02-179	DIP16a
49♦	MC10105P	ECL	OR	2/2/3	CO	-1.1	-1.4	90	5.2		2.9n	90m†	150m	3	8	3	G02-179	DIP16b
50▼	MC10105PD	ECL	OR	2/2/3	CO	-1.1	-1.4	90	5.2		2.9n	90m†	150m	3	8	3	G02-179	DIP16b
51▼	MC10105PDS	ECL	OR	2/2/3	CO	-1.1	-1.4	90	5.2		2.9n	90m†	150m	3	8	3	G02-179	DIP16b
52♦	10105F	ECL	OR	2/2/3	CO	-1.1	-1.4		5.2		3.3n	88m†		3	8	3	G02-179	DIP16a
53♦	10105N	ECL	OR	2/2/3	CO	-1.1	-1.4		5.2		3.3n	88m†		3	8	3	G02-179	DIP16a
54♦	F10505DM	ECL	OR	2/3/2	CO	-1.1	-1.4	40g	5.2		2.9n	109mQ	145m*	5	C	3	G02-204	DIP16a
55♦	F10505FM	ECL	OR	2/3/2	CO	-1.1	-1.4	40g	5.2		2.9n	109mQ	145m*	5	C	3	G02-204	FP103
56♦	MC10505F	ECL	OR	2/3/2	CO	-1.1	-1.4		5.2		2.9n	90m†		5	C	3	G03-279	FP85
57♦	MC10505L	ECL	OR	2/3/2	CO	-1.1	-1.4		5.2		2.9n	90m†		5	C	3	G03-279	DIP16b
58▼	MC10H210FN	ECL	OR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	2	G03-334	DIP16a
59♦	MC10H210J	ECL	OR	3		-1.1	-1.4		5.2		1.5n		.15	0	7	2	G02-237	DIP16a
60♦	MC10H210L	ECL	OR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	2	G03-334	DIP16a
61▼	MC10H210LD	ECL	OR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	2	G03-334	DIP16a
62▼	MC10H210LDS	ECL	OR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	2	G03-334	DIP16a
63♦	MC10H210N	ECL	OR	3		-1.1	-1.4		5.2		1.5n		.15	0	7	2	G02-237	DIP16
64♦	MC10H210P	ECL	OR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	2	G03-334	DIP16b
65▼	MC10H210PD	ECL	OR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	2	G03-334	DIP16b
66▼	MC10H210PDS	ECL	OR	3		-1.1	-1.4		5.2		1.5n		150m	0	7	2	G03-334	DIP16b
67▼	MC10212FN	ECL	OR	3		-1.1	-1.4		5.2		1.5n	160m†		3	8	2	G02-196	DIP16a
68♦	MC10212L	ECL	OR	3		-1.1	-1.4		5.2		1.5n	160m†		3	8	2	G02-196	DIP16a
69▼	MC10212LD	ECL	OR	3		-1.1	-1.4		5.2		1.5n	160m†		3	8	2	G02-196	DIP16a
70▼	MC10212LDS	ECL	OR	3		-1.1	-1.4		5.2		1.5n	160m†		3	8	2	G02-196	DIP16a
71♦	MC10212P	ECL	OR	3		-1.1	-1.4		5.2		1.5n	160m†		3	8	2	G02-196	DIP16b
72▼	MC10212PD	ECL	OR	3		-1.1	-1.4		5.2		1.5n	160m†		3	8	2	G02-196	DIP16b
73▼	MC10212PDS	ECL	OR	3		-1.1	-1.4		5.2		1.5n	160m†		3	8	2	G02-196	DIP16b
74♦	10212B	ECL	OR	3					5.2		1.7n	150m†		3	8	2	G02-196	DIP16a
75♦	10212F	ECL	OR	3					5.2		1.7n	150m†		3	8	2	G02-196	DIP16a
76♦	10112F	ECL	OR	3		-1.1	-1.4		5.2		2.4n	150mQ		3	8	2	G02-196	DIP16a
77♦	10112N	ECL	OR	3		-1.1	-1.4		5.2		2.4n	150mQ		3	8	2	G02-196	DIP16a
78♦	GXB10110	ECL	OR	3		-1.1	-1.4		5.2		2.4n	150m†		0	7	2	G02-165	DIP16b
79♦	F10210DC	ECL	OR	3		-1.1	-1.4	80g	5.2		2.5n	198mQ	145m*	0	7	2	G02-195	DIP16a
80♦	F10610DM	ECL	OR	3		-1.1	-1.4	40g	5.2		2.5n	198mQ	145m*	5	C	2	G02-212	DIP16a
81♦	F10610FM	ECL	OR	3		-1.1	-1.4	40g	5.2		2.5n	198mQ	145m*	5	C	2	G02-212	FP103
82♦	HD10210	ECL	OR	3		-1.1	-1.4		5.2		2.5n	200m		3	8	2	G02-195	DIP16b
83▼	MC10210FN	ECL	OR	3		-1.1	-1.4		5.2		2.5n	150m†		3	8	2	G02-195	DIP16a
84♦	MC10210L	ECL	OR	3		-1.1	-1.4		5.2		2.5n	150m†		3	8	2	G02-195	DIP16a
85▼	MC10210LD	ECL	OR	3		-1.1	-1.4		5.2		2.5n	150m†		3	8	2	G02-195	DIP16a
86▼	MC10210LDS	ECL	OR	3		-1.1	-1.4		5.2		2.5n	150m†		3	8	2	G02-195	DIP16a
87♦	MC10210P	ECL	OR	3		-1.1	-1.4		5.2		2.5n	150m†		3	8	2	G02-195	DIP16b
88▼	MC10210PD	ECL	OR	3		-1.1	-1.4		5.2		2.5n	150m†		3	8	2	G02-195	DIP16b
89▼	MC10210PDS	ECL	OR	3		-1.1	-1.4		5.2		2.5n	150m†		3	8	2	G02-195	DIP16b
90♦	DM10110J	ECL	OR	3		-1.1	-1.4		5.2		3.5n	197mQ		3	8	2	G02-165	DIP16a
91♦	DM10112J	ECL	OR	3		-1.1	-1.4		5.2		3.5n	197mQ		3	8	2	G02-196	DIP16a
92♦	F10110DC	ECL	OR	3		-1.1	-1.4	80g	5.2		3.5n	198mQ	145m*	0	7	2	G02-207	DIP16a
93♦	F10510DM	ECL	OR	3		-1.1	-1.4	40g	5.2		3.5n	198mQ	145m*	5	C	2	G02-207	DIP16a
94♦	F10510FM	ECL	OR	3		-1.1	-1.4	40g	5.2		3.5n	198mQ	145m*	5	C	2	G02-207	FP103
95▼	MC10110FN	ECL	OR	3		-1.1	-1.4		5.2		3.5n	160m†		3	8	2	G02-165	DIP16a
96♦	MC10110L	ECL	OR	3		-1.1	-1.4		5.2		3.5n	160m†		3	8	2	G02-165	DIP16a
97▼	MC10110LD	ECL	OR	3		-1.1	-1.4		5.2		3.5n	160m†		3	8	2	G02-165	DIP16a
98▼	MC10110LDS	ECL	OR	3		-1.1	-1.4		5.2		3.5n	160m†		3	8	2	G02-165	DIP16a
99♦	MC10110P	ECL	OR	3		-1.1	-1.4		5.2		3.5n	160m†		3	8	2	G02-165	DIP16b
100▼	MC10110PD	ECL	OR	3		-1.1	-1.4		5.2		3.5n	160m†		3	8	2	G02-165	DIP16b
101▼	MC10110PDS	ECL	OR	3		-1.1	-1.4		5.2		3.5n	160m†		3	8	2	G02-165	DIP16b
102♦	F95110DC	ECL	OR	3		-1.1	-1.4	78g	5.2		3.8n	182mQ	145m*	0	7	2	G02-207	DIP16a
103♦	HD10110	ECL	OR	3		-1.1	-1.4		5.2		3.8n	200m		3	8	2	G02-165	DIP16b
104♦	MB10110	ECL	OR	3		-1.1	-1.4	70	5.2		24n	160m†		3	8	2	G02-165	DIP16b
105♦	MB10110M	ECL	OR	3		-1.1	-1.4	70	5.2		24n	160m†		3	8	2	G02-165	DIP16b
106♦	SP333A	DTL	OR	3		3.8	0.6	16		5.0	35n	44m†	1.2	0	7	2	None	DIP14a
107♦	9504DC	ECL	OR	3		-.90	-1.7	10	5.2		2.5n	350m	300m	0	7	3	40-75	DIP16b
108♦	F95003DC	ECL	OR	3		-1.1	-1.4	78g	5.2		3.1n	109mQ	140m*	0	7	3	G02-213	DIP16a
109♦	F95105DC	ECL	OR	3		-1.1	-1.4	78g	5.2		3.1n	109mQ	140m*	0	7	3	G02-204	DIP16a
110♦	M54HC4075F1(A)	CMS	OR	3		3.15	1.35	10		5.0	20n	500m	1.2	5	C	3	40-75	DIP14a

5. GATES - OR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	74HC4075D	CMS	OR	3		4.2	1.8	10		5.0	21n		2.4	4	8	3	40-75	FP142
2♦	74HC4075N	CMS	OR	3		4.2	1.8	10		5.0	21n		2.4	4	8	3	40-75	DIP14a
3♦	CD74HC4075E	CMS	OR	3		3.15	1.35	10		5.0	21n	500m	1.2	4	8	3	40-75B	MO001AB
4♦	CD74HC4075M	CMS	OR	3		3.15	1.35	10		5.0	21n	400m	1.2	4	8	3	40-75B	FP147
5♦	CD74HCT4075E	CMS	OR	3		2.0	0.8	10		5.0	21n	500m	0.7	4	8	3	40-75B	MO001AB
6♦	CD74HCT4075M	CMS	OR	3		2.0	0.8	10		5.0	21n	400m	0.7	4	8	3	40-75B	FP147
7♦	M74HC4075B1(A)	CMS	OR	3		3.15	1.35	10		5.0	24n	500m	1.2	4	8	3	40-75	DIP14a
8♦	M74HC4075C1(A)	CMS	OR	3		3.15	1.35	10		5.0	24n	500m	1.2	4	8	3	G02-236	LC33
9♦	M74HC4075F1(A)	CMS	OR	3		3.15	1.35	10		5.0	24n	500m	1.2	4	8	3	40-75	DIP14a
10♦	HEF4075B	CMS	OR	3		9.95	.05C			10	25n	15uQ		4	8	3	40-75B	TO-116
11♦	MC54HC4075J	CMS	OR	3		3.85	1.1			5.0	25n	500m	10	5	C	3	40-75B	DIP14 ☑
12♦	MC74HC4075J	CMS	OR	3		3.15	0.9			4.5	25n	500m	10	4	8	3	40-75B	DIP14 ☑
13♦	MC74HC4075N	CMS	OR	3		3.85	1.1			5.0	25n	500m	10	4	8	3	40-75B	DIP14 ☑
14♦	MM74HC4075J	CMS	OR	3		3.15	0.9			4.5	25n	500m	1.7	4	8	3	40-75B	DIP14a
15♦	MM74HC4075N	CMS	OR	3		3.15	0.9			4.5	25n	500m	1.7	4	8	3	40-75B	DIP14a
16♦	PC74HC4075D(A)	CMS	OR	3		3.15	0.9	10		5.0	25n	500m	0.8	4	8	3	40-75	DIP14b
17▼	SN74HC4075D	CMS	OR	3		3.15	0.9			5.0	25n		1.2	4	8	3	40-75B	FP147
18♦	SN74HC4075N	CMS	OR	3		3.15	0.9			5.0	25n		1.2	4	8	3	40-75B	MO001AA
19▼	TC74HC4075F(A)	CMS	OR	3		3.15	1.35	10d		5.0	25n	180m	0.8	4	8	3	40-75	FP166
20▼	TC74HC4075P(A)	CMS	OR	3		3.15	1.35	10d		5.0	25n	500m	0.8	4	8	3	40-75	DIP14b
21♦	CD54HC4075F	CMS	OR	3		3.15	1.35	10		5.0	26n	500m	1.2	5	C	3	40-75B	MO001AB
22♦	CD54HCT4075F	CMS	OR	3		2.0	0.8	10		5.0	26n	500m	0.7	5	C	3	40-75B	MO001AB
23♦	MM54HC4075J	CMS	OR	3		4.2	1.2			5.0	29n	500m	1.7	5	C	3	40-75B	DIP14a
24♦	74HCT4075D	CMS	OR	3		2.0	0.8	10		5.0	30n		1.2	4	8	3	40-75	FP142
25♦	74HCT4075N	CMS	OR	3		2.0	0.8	10		5.0	30n		1.2	4	8	3	40-75	DIP14a
26♦	PC54HC4075D(A)	CMS	OR	3		3.15	0.9	10		5.0	30n	500m	0.8	5	C	3	40-75	DIP14b
27♦	PC74HC4075P	CMS	OR	3		3.15	1.35	10		5.0	30n	500m	0.8	4	C	3	40-75	DIP14b
28♦	PC74HC4075T	CMS	OR	3		3.15	1.35	10		5.0	30n	300m	0.8	4	C	3	40-75	FP147
29♦	PC74HCT4075D(A)	CMS	OR	3		2.0	0.8	10		5.0	30n	500m	0.7	4	8	3	40-75	DIP14b
30♦	SP374A	TTL	OR	3		3.8	.6C	11		5.0	35n	44m†	1.7	0	7	3	G02-78c	TO-116
31♦	SP375A	TTL	OR	3		3.8	.6C	11		5.0	35n	44m†	1.7	0	7	3	G02-78d	TO-116
32♦	PC54HCT4075D(A)	CMS	OR	3		2.0	0.8	10		5.0	36n	500m	0.7	5	C	3	40-75	DIP14b
33♦	PC74HCT4075P	CMS	OR	3		2.0	0.8	10		5.0	36n	500m	0.7	4	C	3	40-75	DIP14b
34♦	PC74HCT4075T	CMS	OR	3		2.0	0.8	10		5.0	36n	300m	0.7	4	C	3	40-75	FP147
35♦	4075BDC	CMS	OR	3		11	4.0	25e		15	50n	450uQ	6.7	4	8	3	40-75B	TO-116
36♦	4075BDM	CMS	OR	3		11	4.0	25e		15	50n	450uQ	6.7	5	C	3	40-75B	TO-116
37♦	4075BFC	CMS	OR	3		11	4.0	25e		15	50n	450uQ	6.7	4	8	3	40-75B	FP21h
38♦	4075BFM	CMS	OR	3		11	4.0	25e		15	50n	450uQ	6.7	5	C	3	40-75B	FP21h
39♦	4075BPC	CMS	OR	3		11	4.0	25e		15	50n	450uQ	6.7	4	8	3	40-75B	DIP14a
40♦	HEF4075	CMS	OR	3		11	4.0	16e		15	50n	400m	6.7	4	8	3	40-75B	DL ☑
41♦	HEF4075BPN	CMS	OR	3		11.0	4.0	16e		15	50n	400m	6.7	4	8	3	40-75B	DIP14b
42♦	HEF4075BTD	CMS	OR	3		11.0	4.0	50e		15	50n	200m	6.7	4	8	3	40-75B	FP147
43♦	HEF4075BD	CMS	OR	3		7.0	3.0			10	60n	500m		4	8	3	40-75B	DIP14a
44♦	HEF4075BP	CMS	OR	3		7.0	3.0			10	60n	500m		4	8	3	40-75B	DIP14a
45♦	HEF4075BT	CMS	OR	3		7.0	3.0			10	60n	400m		4	8	3	40-75B	FP147
46♦	CD4075BCJ	CMS	OR	3		11	4.0	16e		15	70n	60uQ	6.7	4	8	3	40-75B	DIP14a
47♦	CD4075BCN	CMS	OR	3		11	4.0	16e		15	70n	60uQ	6.7	4	8	3	40-75B	DIP14a
48♦	CD4075BMJ	CMS	OR	3		11	4.0	19e		15	70n	15uQ	6.7	5	C	3	40-75B	DIP14a
49♦	CD4075BMW	CMS	OR	3		11	4.0	19e		15	70n	15uQ	6.7	5	C	3	40-75B	FP97c
50♦	MN4075B	CMS	OR	3		11.0	4.0			15	75n	400m	3.9	4	8	3	40-75B	DIP14a
51♦	883C4075B	CMS	OR	3		8.2	6.7			15	80n	300m		5	C	3	40-75B	MO001AA
52♦	BCL4075B	CMS	OR	3		8.2	6.7			15	80n	300m		5	C	3	40-75B	MO001AA
53♦	MB84075B	CMS	OR	3		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	3	40-75B	DIP14b
54♦	MB84075BM	CMS	OR	3		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	3	40-75B	DIP14a
55♦	MC14075BAL	CMS	OR	3		11	4.0	50		15	100n	15uQ	2.5 *	5	C	3	40-75B	TO-116
56▼	MC14075BALD	CMS	OR	3		11	4.0	50		15	100n	15uQ	2.5 *	5	C	3	40-75B	TO-116
57▼	MC14075BALDS	CMS	OR	3		11	4.0	50		15	100n	15uQ	2.5 *	5	C	3	40-75B	TO-116
58▼	MC14075BALS	CMS	OR	3		11	4.0	50		15	100n	15uQ	2.5 *	5	C	3	40-75B	TO-116
59♦	MC14075BCL	CMS	OR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-75B	TO-116
60▼	MC14075BCLD	CMS	OR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-75B	TO-116
61▼	MC14075BCLDS	CMS	OR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-75B	TO-116
62▼	MC14075BCLS	CMS	OR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-75B	TO-116
63♦	MC14075BCP	CMS	OR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-75B	TO-116
64▼	MC14075BCPD	CMS	OR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-75B	TO-116
65▼	MC14075BCPDS	CMS	OR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-75B	TO-116
66▼	MC14075BCPS	CMS	OR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-75B	TO-116
67▼	MC14075BD	CMS	OR	3		11	4.0	50		15	100n	60uQ	2.5 *	4	8	3	40-75B	TO-116
68♦	SCL4075B	CMS	OR	3		7.0	3.0	50		15	100n	300m	3.0	5	C	3	40-75B	DIP14a
69♦	UPD4075BG	CMS	OR	3		11.0	4.0			15	100n	200m	3.9	4	8	3	40-75B	FP161
70♦	CD4075BD	CMS	OR	3		7.0	3.0	18e		15	120n	500m	2.9	5	C	3	40-75B	MO001AD
71♦	CD4075BE	CMS	OR	3		7.0	3.0	18e		15	120n	500m	2.9	4	8	3	40-75B	MO001AB
72♦	CD4075BF	CMS	OR	3		7.0	3.0	18e		15	120n	500m	2.9	5	C	3	40-75B	MO001AB
73♦	LC4075B	CMS	OR	3		11.0	4.0			15	130n	300m	3.9	4	8	3	40-75B	DIP14a
74♦	M4075BP	CMS	OR	3		11.0	4.0	50		15	130n	0.5	4.0 *	4	8	3	40-75B	DIP14a
75♦	TC4075BP	CMS	OR	3		14.9	.05C	50		15	130n	300m	4.0	4	8	3	40-75B	DIP14a
76♦	HCC4075BD	CMS	OR	3		10	0	3		10	200n	200m	4.5	5	C	3	40-75B	MO001AD
77♦	HCC4075BF	CMS	OR	3		10	0	3		10	200n	200m	4.5	5	C	3	40-75B	MO001AB
78♦	HCC4075BK	CMS	OR	3		10	0	3		10	200n	200m	4.5	5	C	3	40-75B	MO004AF
79♦	HCF4075BE	CMS	OR	3		10	0	3		10	200n	200m	4.5	4	8	3	40-75B	MO001AB
80♦	HCF4075BF	CMS	OR	3		10	0	3		10	200n	200m	4.5	4	8	3	40-75B	MO001AB
81♦	MSM4075	CMS	OR	3		7.2	1.0	16e		10	300n	300uQ	0.6	2	7	3	40-75B	DIP14a
82♦	FZH291	DTL	OR	3		7.5	4.5	10		12	260n	228m	5.0	0	7	4	G02-188	DIP16a
83♦	FZH295B	DTL	OR	3	TS	30	4.5	10		12	260n	288m	5.0	2	8	4	G02-188	DIP16a
84♦	HXA100102D	ECL	OR	3	CO	-1.1	-1.4	10	4.5		0.8n	248m		0	8	5	G17-05	DL ☑
85♦	HXA100102F	ECL	OR	3	CO	-1.1	-1.4	10	4.5		0.8n	248m		0	8	5	G17-05	FP ☑
86♦	HD100102	ECL	OR	3	CO	-1.1	-1.4		4.5		950p	40m†	145m	0	8	5	G17-05	DIP24d
87♦	HD100102F	ECL	OR	3	CO	-1.1	-1.4		4.5		950p	40m†	145m	0	8	5	G17-05	FP146
88♦	100102F	ECL	OR	3	CO	-1.1	-1.4		4.5		1.2n	248m†		0	8	5	G02-215	DIP24d
89♦	100102Y	ECL	OR	3	CO	-1.1	-1.4		4.5		1.2n	248m†		0	8	5	G02-215	FP173
90♦	F100102FC	ECL	OR	3	CO	-1.1	-1.4	2	4.5		2.0n	360mQ	130m	0	8	5	G02-215	FP126
91♦	F100102DC	ECL	OR	3	CO	-1.1	-1.4	2	4.5		2.2n	360mQ	130m	0	8	5	G02-215	DIP24c
92♦	K155LD1	TTL	OR	4						5.0				1	7	2	None	None
93♦	RG270CJ	TTL	OR	4		3.5	0.2			5.0	1.0n	28m†	1.0	5	C	2	4-10P	FP52j
94♦	RG270CK	TTL	OR	4		3.5	0.2			5.0	1.0n	28m†	1.0	5	C	2	4-10P	FP52k
95♦	RG270DC	TTL	OR	4		3.5	0.2			5.0	1.0n	28m†	1.0	5	C	2	4-10P	DIP14e
96♦	RG271CJ	TTL	OR	4		3.5	0.2			5.0	1.0n	28m†	1.0	5	C	2	4-10P	FP52j
97♦	RG271CK	TTL	OR	4		3.5	0.2			5.0	1.0n	28m†	1.0	5	C	2	4-10P	FP52k
98♦	RG271DC	TTL	OR	4		3.5	0.2			5.0	1.0n	28m†	1.0	5	C	2	4-10P	DIP14e
99♦	RG272CJ	TTL	OR	4		3.5	0.2			5.0	1.0n	28m†	1.0	0	7	2	4-10P	FP52j
100♦	RG272CK	TTL	OR	4		3.5	0.2			5.0	1.0n	28m†	1.0	0	7	2	4-10P	FP52k
101♦	RG272DC	TTL	OR	4		3.5	0.2			5.0	1.0n	28m†	1.0	0	7	2	4-10P	DIP14e
102♦	RG273CJ	TTL	OR	4		3.5	0.2			5.0	1.0n	28m†	1.0	0	7	2	4-10P	FP52j
103♦	RG273CK	TTL	OR	4		3.5	0.2			5.0	1.0n	28m†	1.0	0	7	2	4-10P	FP52k
104♦	RG273DC	TTL	OR	4		3.5	0.2			5.0	1.0n	28m†	1.0	0	7	2	4-10P	DIP14e
105▼	SP16F60DG	ECL	OR	4		-.88	-1.8*	70	5.2		1.1n	120m†	0.2	3	8	2	G02-194	DIP16a
106▼	SP16F60LC	ECL	OR	4		-.88	-1.8*	70	5.2		1.1n	120m†	0.2	3	8	2	G02-194	LC24
107♦	MC1660L	ECL	OR	4		-1.1	-1.4	70	5.2		1.7n	120m†		3	8	2	G02-161	DIP16a
108▼	MC1660LD	ECL	OR	4		-1.1	-1.4	70	5.2		1.7n	120m†		3	8	2	G02-161	DIP16a
109▼	MC1660LDS	ECL	OR	4		-1.1	-1.4	70	5.2		1.7n	120m†		3	8	2	G02-161	DIP16a
110♦	4072BDC	CMS	OR	4		11	4.0	25e		15	20n	450uQ	6.7	4	8	2	40-72B	TO-116

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. GATES - OR (Cont'd)

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS (V)	[4] tpd MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	4072BDM	CMS	OR	4		11	4.0	25e		15	20n	450uQ	6.7	5	C	2	40-72B	TO-116
2♦	4072BFC	CMS	OR	4		11	4.0	25e		15	20n	450uQ	6.7	4	8	2	40-72B	FP21h
3♦	4072BFM	CMS	OR	4		11	4.0	25e		15	20n	450uQ	6.7	5	C	2	40-72B	FP21h
4♦	4072BPC	CMS	OR	4		11	4.0	25e		15	20n	450uQ	6.7	4	8	2	40-72B	DIP14a
5♦	M54HC4072F1(A)	CMS	OR	4		3.15	1.35	10		5.0	22n	500m	1.2	5	C	2	40-72	DIP14a
6♦	M74HC4072B1(A)	CMS	OR	4		3.15	1.35	10		5.0	26n	500m	1.2	4	8	2	40-72	DIP14a
7♦	M74HC4072C1(A)	CMS	OR	4		3.15	1.35	10		5.0	26n	500m	1.2	4	8	2	G03-332	LC33
8♦	M74HC4072F1(A)	CMS	OR	4		3.15	1.35	10		5.0	26n	500m	1.2	4	8	2	40-72	DIP14a
9▼	TC74HC4072F(A)	CMS	OR	4		3.15	1.35	10d		5.0	28n	180m	1.2	4	8	2	40-72	FP166
10▼	TC74HC4072P(A)	CMS	OR	4		3.15	1.35	10d		5.0	28n	500m	1.2	4	8	2	40-72	DIP14a
11♦	HEF4072P	CMS	OR	4		7.0	3.0			10	30n	100uQ	4.5	4	8	2	40-72B	TO-116
12♦	HEF4072	CMS	OR	4		11	4.0	16e		15	55n	400m	6.7	4	8	2	40-72B	DL ☑
13♦	HEF4072BPN	CMS	OR	4		11.0	4.0	16e		15	55n	400m	6.7	4	8	2	40-72B	DIP14b
14♦	HEF4072BTD	CMS	OR	4		11.0	4.0	50e		15	55n	200m	6.7	4	8	2	40-72B	FP147
15♦	HEF4072BD	CMS	OR	4		7.0	3.0			10	70n	500m		4	8	2	40-72B	DIP14a
16♦	HEF4072BP	CMS	OR	4		7.0	3.0			10	70n	500m		4	8	2	40-72B	DIP14a
17♦	HEF4072BT	CMS	OR	4		7.0	3.0			10	70n	400m		4	8	2	40-72B	FP147
18♦	MN4072B	CMS	OR	4		11.0	4.0			15	75n	400m	3.9	4	8	2	40-72B	DIP14a
19♦	883C4072B	CMS	OR	4		8.2	6.7			15	80n	300m		5	C	2	40-72B	MO001AA
20♦	BCL4072B	CMS	OR	4		11.0	4.0			15	80n	300m		5	C	2	40-72B	MO001AA
21♦	MB84072B	CMS	OR	4		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	2	40-72B	DIP14b
22♦	MB84072BM	CMS	OR	4		10.5	4.5	16e		15	90n	60uQ	4.5 *	4	8	2	40-72B	DIP14a
23♦	MC14072BAL	CMS	OR	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-72B	TO-116
24▼	MC14072BALD	CMS	OR	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-72B	TO-116
25▼	MC14072BALDS	CMS	OR	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-72B	TO-116
26▼	MC14072BALS	CMS	OR	4		11	4.0	50		15	100n	15uQ	2.5 *	5	C	2	40-72B	TO-116
27♦	MC14072BCL	CMS	OR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-72B	TO-116
28▼	MC14072BCLD	CMS	OR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-72B	TO-116
29▼	MC14072BCLDS	CMS	OR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-72B	TO-116
30▼	MC14072BCLS	CMS	OR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-72B	TO-116
31♦	MC14072BCP	CMS	OR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-72B	TO-116
32▼	MC14072BCPD	CMS	OR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-72B	TO-116
33▼	MC14072BCPDS	CMS	OR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-72B	TO-116
34▼	MC14072BCPS	CMS	OR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-72B	TO-116
35▼	MC14072BD	CMS	OR	4		11	4.0	50		15	100n	60uQ	2.5 *	4	8	2	40-72B	TO-116
36♦	SCL4072B	CMS	OR	4		7.0	3.0	50		15	100n	300m	3.0	5	C	2	40-72B	MO001AA
37♦	CD4072BD	CMS	OR	4		7.0	3.0	18e		15	120n	500m	2.9	5	C	2	40-72B	MO001AD
38♦	CD4072BE	CMS	OR	4		7.0	3.0	18e		15	120n	500m	2.9	4	8	2	40-72B	MO001AB
39♦	CD4072BF	CMS	OR	4		7.0	3.0	18e		15	120n	500m	2.9	5	C	2	40-72B	MO001AB
40♦	M4072BP	CMS	OR	4		11.0	4.0	50		15	130n	0.5	4.0 *	4	8	2	40-72B	DIP14a
41♦	TC4072BP	CMS	OR	4		14.9	.05C	50		15	130n	300m	4.0	4	8	2	40-72B	DIP14a
42♦	MSM4072	CMS	OR	4		7.2	2.0	16e		10	150n	300uQ	2.0 *	2	7	2	40-72B	DIP14a
43♦	HCC4072BD	CMS	OR	4		10	0	2		10	200n	200m	4.5	5	C	2	40-72B	MO001AD
44♦	HCC4072BF	CMS	OR	4		10	0	2		10	200n	200m	4.5	5	C	2	40-72B	MO001AB
45♦	HCC4072BK	CMS	OR	4		10	0	2		10	200n	200m	4.5	5	C	2	40-72B	MO004AF
46♦	HCF4072BE	CMS	OR	4		10	0	2		10	200n	200m	4.5	4	8	2	40-72B	MO001AB
47♦	HCF4072BF	CMS	OR	4		10	0	2		10	200n	200m	4.5	4	8	2	40-72B	MO001AB
48♦	MSM4072RS	CMS	OR	4		3.6	1.0	40		5.0	300n		0.6	4	8	2	40-72B	DIP14 ☑
49♦	F11C01FC	ECL	OR	4-5		-1.1	-1.4	83g	5.2			156mQ	145m*	0	7	2	G02-194	FP103
50♦	MC1688F	ECL	OR	4-5		-1.1	-1.4	70	5.2		1.3n	156m	115m*	3	8	2	G02-206	FP85
51♦	MC1688L	ECL	OR	4-5		-1.1	-1.4	70	5.2		2.3n	156m	115m*	3	8	2	G02-206	DIP16a
52▼	MC1688LD	ECL	OR	4-5		-1.1	-1.4	70	5.2		2.3n	156m	115m*	3	8	2	G02-206	DIP16a
53▼	MC1688LDS	ECL	OR	4-5		-1.1	-1.4	70	5.2		2.3n	156m	115m*	3	8	2	G02-206	DIP16a
54♦	MB10109	ECL	OR	4/5	CO	-1.1	-1.4	70	5.2			60m†		3	8	2	G02-164	DIP16b
55♦	MB10109M	ECL	OR	4/5	CO	-1.1	-1.4	70	5.2			60m†		3	8	2	G02-164	DIP16b
56▼	MC10H109FN	ECL	OR	4/5	CO	-1.1	-1.4		5.2			35m	150m	0	7	2	G02-194	DIP16a
57♦	MC10H109J	ECL	OR	4/5	CO	-1.1	-1.4		5.2			1.7n	150m	0	7	2	G02-194	DIP16a
58♦	MC10H109L	ECL	OR	4/5	CO	-1.1	-1.4		5.2			35m	150m	0	7	2	G02-194	DIP16a
59▼	MC10H109LD	ECL	OR	4/5	CO	-1.1	-1.4		5.2			35m	150m	0	7	2	G02-194	DIP16a
60▼	MC10H109LDS	ECL	OR	4/5	CO	-1.1	-1.4		5.2			35m	150m	0	7	2	G02-194	DIP16a
61♦	MC10H109N	ECL	OR	4/5	CO	-1.1	-1.4		5.2			1.7n	150m	0	7	2	G02-194	DIP16a
62♦	MC10H109P	ECL	OR	4/5	CO	-1.1	-1.4		5.2			35m	150m	0	7	2	G02-194	DIP16b
63▼	MC10H109PD	ECL	OR	4/5	CO	-1.1	-1.4		5.2			35m	150m	0	7	2	G02-194	DIP16b
64▼	MC10H109PDS	ECL	OR	4/5	CO	-1.1	-1.4		5.2			35m	150m	0	7	2	G02-194	DIP16b
65▼	MC10H209FN	ECL	OR	4/5	CO	-1.1	-1.4		5.2		1.0n	125m	150m	0	7	2	G17-07	DIP16a
66♦	MC10H209L	ECL	OR	4/5	CO	-1.1	-1.4		5.2		1.0n	125m	150m	0	7	2	G17-07	DIP16a
67▼	MC10H209LD	ECL	OR	4/5	CO	-1.1	-1.4		5.2		1.0n	125m	150m	0	7	2	G17-07	DIP16a
68▼	MC10H209LDS	ECL	OR	4/5	CO	-1.1	-1.4		5.2		1.0n	125m	150m	0	7	2	G17-07	DIP16a
69♦	MC10H209P	ECL	OR	4/5	CO	-1.1	-1.4		5.2		1.0n	125m	150m	0	7	2	G17-07	DIP16b
70▼	MC10H209PD	ECL	OR	4/5	CO	-1.1	-1.4		5.2		1.0n	125m	150m	0	7	2	G17-07	DIP16b
71▼	MC10H209PDS	ECL	OR	4/5	CO	-1.1	-1.4		5.2		1.0n	125m	150m	0	7	2	G17-07	DIP16b
72♦	HD10209	ECL	OR	4/5	CO	-1.1	-1.4		5.2		1.5n	200m		3	8	2	G17-03	DIP16b
73♦	GXB10109	ECL	OR	4/5	CO	-1.1	-1.4		5.2		2.0n	50m†		0	7	2	G02-164	DIP16b
74♦	DM10109J	ECL	OR	4/5	CO	-1.1	-1.4		5.2		2.9n	72mQ		3	8	2	G02-164	DIP16a
75♦	F10109DC	ECL	OR	4/5	CO	-1.1	-1.4	80g	5.2		2.9n	73mQ	145m*	0	7	2	G02-206	DIP16a
76♦	F10509DM	ECL	OR	4/5	CO	-1.1	-1.4	40g	5.2		2.9n	73mQ	145m*	5	C	2	G02-206	DIP16a
77♦	F10509FM	ECL	OR	4/5	CO	-1.1	-1.4	40g	5.2		2.9n	73mQ	145m*	5	C	2	G02-206	FP103
78▼	MC10109FN	ECL	OR	4/5	CO	-1.1	-1.4	90	5.2		2.9n	60m†		3	8	2	G02-164	DIP16a
79♦	MC10109L	ECL	OR	4/5	CO	-1.1	-1.4	90	5.2		2.9n	60m†		3	8	2	G02-164	DIP16a
80▼	MC10109LD	ECL	OR	4/5	CO	-1.1	-1.4	90	5.2		2.9n	60m†		3	8	2	G02-164	DIP16a
81▼	MC10109LDS	ECL	OR	4/5	CO	-1.1	-1.4	90	5.2		2.9n	60m†		3	8	2	G02-164	DIP16a
82♦	MC10109P	ECL	OR	4/5	CO	-1.1	-1.4	90	5.2		2.9n	60m†		3	8	2	G02-164	DIP16b
83▼	MC10109PD	ECL	OR	4/5	CO	-1.1	-1.4	90	5.2		2.9n	60m†		3	8	2	G02-164	DIP16b
84▼	MC10109PDS	ECL	OR	4/5	CO	-1.1	-1.4	90	5.2		2.9n	60m†		3	8	2	G02-164	DIP16b
85♦	MC10509F	ECL	OR	4/5	CO	-1.1	-1.4		5.2		2.9n	60m†		5	C	2	G02-164	FP85
86♦	MC10509L	ECL	OR	4/5	CO	-1.1	-1.4		5.2		2.9n	60m†		5	C	2	G02-164	DIP16b
87♦	10109F	ECL	OR	4/5	CO	-1.1	-1.4		5.2		3.3n			3	8	2	G02-194	DIP16a
88♦	10109N	ECL	OR	4/5	CO	-1.1	-1.4		5.2		3.3n			3	8	2	G02-194	DIP16a
89♦	HD10109	ECL	OR	4/5	CO	-1.1	-1.4		5.2		3.3n	200m		3	8	2	G17-03	DIP16b
90♦	HMD11101-2	GA	OR	5	CO				3.0	5.0	500p	1.8		5	8	1	G17-19	FP184
91♦	F95002DC	ECL	OR	5		-1.1	-1.4	78g	5.2		3.1n	73mQ	140m*	0	7	2	G02-212	DIP16a
92♦	F95109DC	ECL	OR	5		-1.1	-1.4	78g	5.2		3.1n	73mQ	140m*	0	7	2	G02-206	DIP16a
93♦	SP334A	TTL	OR	5		3.8	.6C	11		5.0	35n	44m†	1.7	0	7	2	G02-78b	TO-116
94♦	HXA100101D	ECL	OR	5	CO	-1.1	-1.4	6	4.5		0.8n	120m		0	8	3	G17-04	DL ☑
95♦	HXA100101F	ECL	OR	5	CO	-1.1	-1.4	6	4.5		0.8n	120m		0	8	3	G17-04	FP ☑
96♦	HD100101	ECL	OR	5	CO	-1.1	-1.4		4.5		950p	40m†	145m	0	8	3	G17-04	DIP24d
97♦	HD100101F	ECL	OR	5	CO	-1.1	-1.4		4.5		950p	40m†	145m	0	8	3	G17-04	FP146
98♦	F100101FC	ECL	OR	5	CO	-1.1	-1.4	2	4.5		1.1n	171mQ	0.1	0	8	3	G02-214	FP126
99♦	100101F	ECL	MULT	5	CO	-1.1	-1.4		4.5		1.3n	121m†		0	8	3	G17-04	DIP24d
100♦	100101Y	ECL	MULT	5	CO	-1.1	-1.4		4.5		1.3n	120m†		0	8	3	G17-04	FP173
101♦	F100101DC	ECL	OR	5	CO	-1.1	-1.4	2	4.5		1.3n	171mQ	0.1	0	8	3	G02-214	DIP24c
102♦	9503DC	CML	OR	7		-.90	-1.7	10	5.2		2.5n	310m	300m	0	7	3	G02-139a	DIP16b
103♦	K155LD3	TTL	OR	8						5.0				1	7	1	None	None
104♦	K155LL1	TTL	OR	8		2.4	0.4			5.0				1	7	2	None	None
105♦	9502DC	ECL	OR	9		-.90	-1.7	10	5.2		2.5n	230m	300m	0	7	2	G02-139	DIP16b

6. DECODERS - Binary

IN ORDER OF: (1) DECODES FROM (2) DECODES TO (4) CKTS PER PKG & (5) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	DECODES 1 FROM	DECODES 2 TO	INPT LOGIC LEVELS VIH MIN (V)	INPT LOGIC LEVELS VIL MAX (V)	NUMBER OF LINES IN	NUMBER OF LINES OUT	SUPPLY VOLTAGE RATED NEG (V)	SUPPLY VOLTAGE RATED POS (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	3 CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
DECODER, BINARY																				
4♦	MC4001P	TTL	1	2	2.5Δ	.45C	6		0	5.0	45n			300m†		0	7	1	4-001P	DIP16a
5♦	NE5046N	MON	1	2	2.7	0.5	1	2	0	5.0				72m		2	7	1	F01-70	None
6♦	N8T01B	TTL	1	5	68	2.7C	4	10	5	5				60m†		0	7	1	F01-19	DIP16a
7♦	N8T01E	TTL	1	5	68	2.7C	4	10	5.0	5.0				60m†		0	7	1	F01-19	DIP16a
8♦	S8T01B	TTL	1	5	68	2.7C	4	10	5	5				60m†		2	8	1	F01-19	DIP16a
9♦	S8T01E	TTL	1	5	68	2.7C	4	10	5.0	5.0				60m†		5	C	1	F01-19	DIP16a
10	883C4428B	CMS	1	8	8.2	6.7	4	8	0	15	80n			300m		5	C	1	44-28B	MO001AA
11	BCL4428B	CMS	1	8	8.2	6.7	4	8	0	15	80n			300m		5	C	1	44-28B	MO001AA
12♦	CD74HCT238E(2)	CMS	1	8	2.00	0.8	3	8	0	7.0	17n	6.0n	6.0n	500m	2.4	4	8	1	74SC238	DIP16b
13♦	D3205	TTL	1	8	2.0	.85	6	8	0	5.0	18n			350m		6	C	1	74S138N	DIP16b
14♦	DN852	DTL	1	8					0	5.0				135mQ		2	7	1	F01-50	DIP16b
15♦	F100170DC(2)	ECL	1	8	-0.9Δ	-2*			4.5	0	1.8n				0.1	0	8	1	F19-1	DIP24c
16	F100170FC(2)	ECL	1	8	-0.9Δ	-2*			4.5	0	1.7n				0.1	0	8	1	F19-1	FP126
17♦	M74HC138P	CMS	1	8	4.2	1.8	3	8	0	6.0	43n					4	8	1	74S138	DIP16b
18♦	M53354P(2)	TTL	1	8	2.0	0.8	6	10	0	5.0				170m†		0	7	1	74-154N	DIP24b
19♦	M53355P(2)	TTL	1	8	2.0	0.8	6	10	0	5.0				125m†		0	7	1	74-155N	DIP16a
20♦	M54402P	TTL	1	8	2.0	0.8	4	80	0	7.0	30n			113m†	1.0 †	0	7	1	74-402	DIP14a
21♦	MB10161	ECT	1	8	-.96	1.6C	5	8	5.2	0				315m†		3	8	1	F01-66	DIP16b
22♦	MB10161M	ECT	1	8	-.96	1.6C	5	8	5.2	0				315m†		3	8	1	F01-66	DIP16b
23♦	MB10162	ECT	1	8	-.96	1.6C	5	8	5.2	0				315m†		3	8	1	F01-66a	DIP16b
24♦	MB10162M	ECT	1	8	-.96	1.6C	5	8	5.2	0				315m†		3	8	1	F01-66a	DIP16b
25♦	MC54F138J(2A)	SCH	1	8	2.0	0.8	3	8	0	5.0					0.3	5	C	1	74S138N	DIP16a
26♦	MC54HC138J(2A)	CMS	1	8	3.2	1.1	3	8	0	7.0		500n	500n	500m	1.1	5	C	1	74S138N	DIP16 ☑
27♦	MC74F138J(2A)	SCH	1	8	2.0	0.8	3	8	0	5.2					0.3	0	7	1	74S138N	DIP16a
28♦	MC74F138N(2A)	SCH	1	8	2.0	0.8	3	8	0	5.2					0.3	0	7	1	74S138N	DIP16b
29♦	MC4038P	TTL	1	8	2.0	.90	3	8	0	5.0				240m†		0	7	1	4-038P	DIP16a
30♦	MC4048P	TTL	1	8	2.5	.45C	6	8	0	5.0				240m†		0	7	1	4-048P	DIP16a
31♦	MC4306F	TTL	1	8	2.4	0.4C	3	8	0	5.0	14n			100m†		5	C	1	54-406	TO-86
32♦	N74S138F(2)	TTL	1	8	2.0	0.8	3	8	0	5.0	2.5n				0.4	0	7	1	74S138N	DIP16a
33♦	N74S138N(2)	TTL	1	8	2.0	0.8	3	8	0	5.0	2.5n				0.4	0	7	1	74S138N	DIP16b
34♦	N82S50F	TTL	1	8	2.7	.50C	4	8	0	5.0	16n			360m		0	7	1	74-406	DIP14b
35♦	N82S50N	TTL	1	8	2.7	.50C	4	8	0	5.0	16n			360m		0	7	1	74-406	DIP14a
36♦	N8250F	TTL	1	8	2.6	0.4C	4	8	0	5.0	35n			119m		0	7	1	74-406	DIP14b
37♦	N8250N	TTL	1	8	2.6	0.4C	4	8	0	5.0	35n			119m		0	7	1	74-406	DIP14a
38	NE5045D		1	8	2.7	0.5C	1	7	0	5.0				112m		2	7	1	F01-69	None
39	NE5045N		1	8	2.7	0.5C	1	7	0	5.0				112m		2	7	1	F01-69	None
40♦	P3205	TTL	1	8	2.0	.85	6	8	0	5.0	18n			350m		6	7	1	74S138N	DIP16a
41♦	S54LS138F(2)	TTL	1	8	2.0	0.7	3	8	0	5.0	15n				0.4	5	C	1	74S138N	DIP16a
42	S54LS138W(2)	TTL	1	8	2.0	0.7	3	8	0	5.0	15n				0.4	5	C	1	54S138W	FP153
43♦	S54S138F(2)	TTL	1	8	2.0	0.8	3	8	0	5.0	2.5n				0.4	5	C	1	74S138N	DIP16a
44	S54S138W(2)	TTL	1	8	2.0	0.8	3	8	0	5.0	2.5n				0.4	5	C	1	54S138W	FP153
45♦	S8250A(1)	TTL	1	8	2.6	0.4C	4	8	0	5.0		5.0n	5.0n	125m		5	C	1	74-406	DIP14a
46♦	S8250F	TTL	1	8	2.6	0.4C	4	8	0	5.0	35n			119m		5	C	1	74-406	DIP14b
47	S8250W	TTL	1	8	2.6	0.4C	4	8	0	5.0	35n			119m		5	C	1	54-406	FP39e
48	SCL4428B	CMS	1	8	3.5Δ	1.0*	4	10	0	18	100n			100uQ	3.0	5	C	1	44-28B	MO001AA
49♦	SN74S138J(2)	TTL	1	8	2.0	0.8	3		0	5.0	8.0n			245m†		5	C	1	74S138N	DIP16a
50♦	SN74S138N(2)	TTL	1	8	2.0	0.8	3		0	5.0	8.0n			245m†		5	C	1	74S138N	DIP16a
51♦	SN74155N(2)	TTL	1	8	2.0	0.8	6	8	0	5.0	32n			125m†	400m	0	7	1	74-155N	DIP16a
52	74HC42D	CMS	1	10	3.15	1.3	4	10		5.0		6.0n	6.0n		1.2	4	8	1	74-42	FP162
53♦	74HC42N	CMS	1	10	3.15	1.3	4	10		5.0		6.0n	6.0n		1.2	4	8	1	74-42	DIP16b
54	74HCT42D	CMS	1	10	2.0	0.8	4	10		5.0		6.0n	6.0n		0.7	4	8	1	74-42	FP162
55♦	74HCT42N	CMS	1	10	2.0	0.8	4	10	0.5	7.0		6.0n	6.0n		0.7	4	8	1	74-42	DIP16b
56	MC4032F	TTL	1	10	1.9	1.0	10	2	0	5.0				20m	4.5	0	7	1	4-032P	None
57	MC4032L	TTL	1	10	1.9	1.0	10	2	0	5.0				20m	4.5	0	7	1	4-032P	None
58	MC4032P	TTL	1	10	1.9	1.0	10	2	0	5.0				20m	4.5	0	7	1	4-032P	None
59	MC4332F	TTL	1	10	2.0	0.8	10	2	0	5.0				20m	4.7	5	C	1	4-032P	None
60	MC4332L	TTL	1	10	2.0	0.8	10	2	0	5.0				20m	4.7	5	C	1	4-032P	None
61♦	SL471(A)		1	10	1.7	0.4	4	10	0	36					0.6	1	6	1	F01-70	DIP16a
62♦	MM54HC4514J(A)	CMS	1	16	4.2	1.2	4	16	0.5	7.0	65n	6.0n†	6.0n†	500m	1.7	5	C		45-14B	DIP24a
63♦	MM74HC4514J(A)	CMS	1	16	4.2	1.2	4	16	0.5	7.0	53n	6.0n†	6.0n†	500m	1.7	4	8		45-14B	DIP24a
64♦	MM74HC4514N(A)	CMS	1	16	4.2	1.2	4	16	0.5	7.0	53n	6.0n†	6.0n†	500m	1.7	4	8		45-14B	DIP24e
65	883C4514B	CMS	1	16	8.2	6.7	4	16	0	15	80n			300m		5	C	1	45-14B	MO015AA
66	883C4515B	CMS	1	16	8.2	6.7	4	16	0	15	80n			300m		5	C	1	45-15B	MO015AA
67♦	54154DM(2)	TTL	1	16	2.0	0.8	6	10	0	5.0	36n			269mQ		5	C	1	74-154N	DIP24b
68	54154FM(2)	TTL	1	16	2.0	0.8	6	10	0	5.0	36n			269mQ		5	C	1	54-154W	FP66a
69♦	74154DC(2)	TTL	1	16	2.0	0.8	6	10	0	5.0	36n			170m†		0	7	1	74-154N	DIP24b
70	BCL4514B	CMS	1	16	8.2	6.7	4	16	0	15	80n			300m		5	C	1	45-14B	MO015AA
71	BCL4515B	CMS	1	16	8.2	6.7	4	16	0	15	80n			300m		5	C	1	45-15B	MO015AA
72♦	CD54HCT154F(2)	CMS	1	16	2.00	0.8	4	16	0	7.0	17n	6.0n	6.0n	500m	2.4	5	C	1	74-154N	DIP24a
73	CD4514BC	CMS	1V	16	7.0	3.0	4	16	0	15	50n	20n	20n	500m	4.5 †	4	8	1	45-14B	DL ☑
74	CD4514BD(2)	CMS	1V	16	9.95	.05C	6	16	0	10	100n			20uQ	2.0	5	C	1	45-14B	MO015AG
75	CD4514BE(2)	CMS	1V	16	9.95	.05C	6	16	0	10	100n			20uQ	2.0	4	8	1	45-14B	MO015AA
76	CD4514BF(2)	CMS	1	16	9.95	.05C	6	16	0	10	100n			20uQ	2.0	5	C	1	45-14B	MO015AG
77	CD4514BM	CMS	1V	16	7.0	3.0	4	16	0	15	50n	20n	20n	500m	4.5 †	5	C	1	45-14B	DL ☑
78	CD4515BC	CMS	1V	16	7.0	3.0	4	16	0	15	50n	20n	20n	500m	4.5 †	4	8	1	45-15B	DL ☑
79	CD4515BD(2)	CMS	1	16	9.95	.05C	6	16	0	10	100n			20uQ	2.0	5	C	1	45-15B	MO015AG
80	CD4515BE(2)	CMS	1	16	9.95	.05C	6	16	0	10	100n			20uQ	2.0	4	8	1	45-15B	MO015AA
81	CD4515BF(2)	CMS	1	16	.05Δ	9.9*	6	16	0	10	100n			20uQ	2.0	5	C	1	45-15B	MO015AG
82	CD4515BH	CMS	1	16	.05Δ	9.9*	6	16	0	10	100n			20uQ	2.0	5	C	1	F01-46	CH128
83	CD4515BM	CMS	1V	16	7.0	3.0	4	16	0	15	50n	20n	20n	500m	4.5 †	5	C	1	45-15B	DL ☑
84	DM54L154AF	TTL	1	16	2.0	0.7	6	16	0	5.0	150n			20m†		5	C	1	54-154W	FP107a
85♦	DM54L154AJ	TTL	1	16	2.0	0.7			0	8.0	55n			24m	0.4	5	C	1	74-154N	DIP24a
86♦	DM74L154AN	TTL	1	16	2.0	0.7	6	16	0	5.0	150n			20m†		0	7	1	74-154N	DIP24a
87♦	HCC4514BD	CMS	1V	16	10	0C	6	16	0	10	200n			200m	4.5 †	5	C	1	45-14B	DIP24a
88♦	HCC4515BD	CMS	1V	16	10	0C	6	16	0	10	200n			200m	4.5 †	5	C	1	45-15B	DIP24a
89♦	HCF4514BD	CMS	1V	16	10	0C	6	16	0	10	200n			200m	4.5 †	5	C	1	45-14B	DIP24a
90♦	HCF4514BE	CMS	1V	16	10	0C	6	16	0	10	200n			200m	4.5 †	4	8	1	45-14B	DIP24a
91♦	HCF4515BD	CMS	1V	16	10	0C	6	16	0	10	200n			200m	4.5 †	5	C	1	45-15B	DIP24a
92♦	HCF4515BE	CMS	1V	16	10	0C	6	16	0	10	200n			200m	4.5 †	4	8	1	45-15B	DIP24a
93▼	HD74HC4514FP	CMS	4V	16	3.15	1.3	4	16	0	5.0	20n	6.0n	6.0n	500m	1.2	4	8	1	45-14B	FP ☑
94▼	HD74HC4514P	CMS	4V	16	3.15	1.3	4	16	0	5.0	20n	6.0n	6.0n	500m	1.2	4	8	1	45-14B	DIP24
95▼	HD74HC4515FP	CMS	4V	16	3.15	1.3	4	16	0	5.0	20n	6.0n	6.0n	500m	1.2	4	8	1	45-15B	FP ☑
96▼	HD74HC4515P	CMS	4V	16	3.15	1.3	4	16	0	5.0	20n	6.0n	6.0n	500m	1.2	4	8	1	45-15B	DIP24
97♦	M4514BP(2)	CMS	1	16	11.0	4.0	4	16	0	18	300n	160n	80n	0.5	4.0 *	4	8	1	45-14B	DIP24a
98♦	M4515BP(2)	CMS	1	16	11.0	4.0	4	16	0	18	300n	160n	80n	0.5	4.0 *	4	8	1	45-15B	DIP24a
99♦	SFC4154E(2)	TTL	1	16	2.0	0.8	6	16	0	5.0	36n			294mQ		0	7	1	74-154N	DIP24a
100♦	SFC4154EM(2)	TTL	1	16	2.0	0.8	6	16	0	5.0	36n			294mQ		5	C	1	74-154N	DIP24a
101♦	SFC4154ET(2)	TTL	1	16	2.0	0.8	6	16	0	5.0	36n			294mQ		2	8	1	74-154N	DIP24a
102♦	SFC4155E(2)	TTL	1	16	2.0	0.8	6	10	0	5.0				125m†		0	7	1	74-155N	DIP16a
103♦	SFC4155EM(2)	TTL	1	16	2.0	0.8	6	10	0	5.0				125m†		5	C	1	74-155N	DIP16a
104♦	SFC4155ET(2)	TTL	1	16	2.0	0.8	6	10	0	5.0				125m†		2	8	1	74-155N	DIP16a
105	SN54154J(2)	TTL	1	16	2.0	0.8	6	10	0	5.0	36n			269mQ		5	C	1	74-154N	MO015AA
106♦	SN74154N(2)	TTL	1	16	2.0	0.8	6	10	0	5.0	36n			170m†		0	7	1	74-154N	DIP24b
107♦	M054B1	NCH	1	21	18	15	6	16	0	19				1.0		0	7	1	F01-60	DIP24a
108♦	M055B1	NCH	1	21	18	15	6	16	0	19				1.0		0	7	1	F01-60	DIP24a
109	MC4000L	TTL	1	21	2.0	1.1	4	1	0	5.0				150m		0	7	1	4-000P	None
110	MC4000P	TTL	1	21	2.0	1.1	4	1	0	5.0				150m		0	7	1	4-000P	None

6. DECODERS - Binary (Cont'd)

IN ORDER OF: (1) DECODES FROM (2) DECODES TO (4) CKTS PER PKG & (5) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	DECODES [1] F ROM	[2] T O	INPT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	NUMBER OF LINES IN	OUT	SUPPLY VOLTAGE RATED NEG (V)	POS (V)	tpd MAX (s)	OUTPUT tr MAX (s)	tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1	MC4002L	TTL	1	21	1.8	0.9	1	4	0	5.0				175m		0	7	1	4-002P	None
2	MC4002P	TTL	1	21	1.8	0.9	1	4	0	5.0				175m		0	7	1	4-002P	None
3	MC4300F	TTL	1	21	2.0	1.1	4	1	0	5.0				150m		5	C	1	4-000P	None
4	MC4300L	TTL	1	21	2.0	1.1	4	1	0	5.0				150m		5	C	1	4-000P	None
5▼	MC7250L	TTL	1	21	2.8	0.4C	4	8	0	5.0				75m†		0	7	1	F01-37	TO-116
6▼	MC7250P	TTL	1	21	2.8	0.4C	4	8	0	5.0				75m†		0	7	1	F01-37	DIP14a
7	TC40H138F	CMS	1	21	4.0	1.0	3	8	0	10	60n	35n	30n	180m	.95	4	8	1	54S138W	FP167
8	883C4556B	CMS	1	21	8.2	6.7	2	4	0	15	80n			300m		5	C	2	74S139N	MO001AG
9	BCL4556B	CMS	1	21	8.2	6.7	2	4	0	15	80n			300m		5	C	2	74S139N	MO001AG
10	HCC4556BK	CMS	1	21	15	.05C	2	4	0	15	200n			200m	4.5 †	5	C	2	54S139W	MO004AG
11♦	MC4007L	TTL	1	21	2.5	0.4C	3	10	0	5.0	29n			125m†		0	7	2	4-007P	DIP16b
12♦	MC4007P	TTL	1	21	2.5	0.4C	3	4	0	5.0	14n			125m†		0	7	2	4-007P	DIP16a
13♦	MC4307L	TTL	1	21	2.4	0.4C	3	4	0	5.0	14n			125m†		5	C	2	4-007P	DIP16b
14♦	S54LS156F(2)	TTL	1	21	2.0	0.7	2	4	0	5.0	15n				0.4	5	C	2	74-156N	DIP16a
15	S54LS156W(2)	TTL	1	21	2.0	0.7	2	4	0	5.0	15n				0.4	5	C	2	54-156W	FP153
16♦	SCL4555B(2)	CMS	1	21	9.95	.05C	2	4	0	10	130n			100uQ	3.0	5	C	2	45-55B	DIP16a
17	TC40H139F	CMS	1	21	4.0	1.0	2	4	0	10	48n	35n	30n	180m	.95	4	8	2	54S139W	FP167
18♦	TC40H155P(2)	CMS	1	21	4.0	1.0			0	5.0	48n	35n	30n	300m	1.0	4	8	2	74-155N	DIP16a
19♦	MC4040P	TTL	1	22	2.0	.90	4	8	0	5.0	45n			200m†		0	7	1	4-040P	DIP16a
20♦	SN54155J(2)	TTL	1	22	2.0	0.8	6	8	0	5.0	32n			125m†	400m	5	C	1	74-155N	DIP16a
21♦	SN54156J(2)	TTL	1	22	2.0	0.8	6	8	0	5.0	34n			125m†		5	C	1	74-156N	DIP16a
22♦	SN74156N(2)	TTL	1	22	2.0	0.8	6	8	0	5.0	34n			125m†		0	7	1	74-156N	DIP16a
23	BCL4555B	CMS	1	22	8.2	6.7	2	4	0	15	80n			300m		5	C	2	45-55B	MO001AG

DECODER, BCD-TO-DECIMAL

27♦	54LS42DM	TTL	2	10	2.0	0.7	4	10	0	5.0	19n			60mQ		5	C	1	74-42N	DIP16b
28	54LS42FM	TTL	2	10	2.0	0.7	4	10	0	5.0	19n			60mQ		5	C	1	54LS42W	FP47b
29♦	74LS42DC	TTL	2	10	2.0	0.8	4	10	0	5.0	19n			60mQ		0	7	1	74-42N	DIP16b
30♦	74LS42PC	TTL	2	10	2.0	0.8	4	10	0	5.0	19n			60mQ		0	7	1	74-42N	DIP16a
31♦	93L01DC	TTL	2	10	2.0	0.7	4	10	0	5.0	70n			45m†	400m	0	7	1	F01-20b	DIP16a
32♦	93L01DM	TTL	2	10	2.0	0.7	4	10	0	5.0	70n			45m†	400m	5	C	1	F01-20b	DIP16a
33	93L01FM	TTL	2	10	2.0	0.7	4	10	0	5.0	70n			45m†	400m	5	C	1	F01-20b	FP79b
34	883C4028B	CMS	2	10	8.2	6.7	4	10	0	15	80n			300m		5	C	1	40-28B	MO001AG
35♦	960DC	TTL	2	10	1.0	0.4	4	10	0	6.0				45m		0	7	1	F17-6	DIP16a
36♦	4028BDC	CMS	2	10	11	4.0	4	10	0	15	70n			9.0mQ	6.7 †	4	8	1	40-28B	DIP16a
37♦	4028BDM	CMS	2	10	11	4.0	4	10	0	15	70n			9.0mQ	6.7 †	5	C	1	40-28B	DIP16a
38	4028BFC	CMS	2	10	11	4.0	4	10	0	15	70n			9.0mQ	6.7 †	4	8	1	40-28B	FP103
39	4028BFM	CMS	2	10	11	4.0	4	10	0	15	70n			9.0mQ	6.7 †	5	C	1	40-28B	FP103
40	4028BPC	CMS	2	10	11	4.0	4	10	0	15	70n			9.0mQ	6.7 †	4	8	1	40-28B	None
41♦	5442ADM	TTL	2	10	2.0	0.8	4	10	0	5.0		25n	25n			5	C	1	74-42N	DIP16a
42	5442AFM	TTL	2	10	2.0	0.8	4	10	0	5.0		25n	25n			5	C	1	54LS42W	FP93c
43♦	7442ADC	TTL	2	10	2.0	0.8	4	10	0	5.0		25n	25n			0	7	1	74-42N	DIP16a
44	7442APC	TTL	2	10	2.0	0.8	4	10	0	5.0		25n	25n			0	7	1	74-42N	None
45♦	9301DC	TTL	2	10	2.0	0.8	4	10	0	5.0	35n			210mQ	400m	0	7	1	F01-20b	DIP16a
46♦	9301DM	TTL	2	10	2.0	0.8	4	10	0	5.0	35n			220mQ	400m	5	C	1	F01-20b	DIP16a
47	9301FM	TTL	2	10	2.0	0.8	4	10	0	5.0	35n			220mQ	400m	5	C	1	F01-20b	FP79b
48♦	9301PC	TTL	2	10	2.0	0.8	4	10	0	5.0	35n			210mQ		0	7	1	F01-20b	DIP16a
49	9302FM	TTL	2	10	2.0	0.8	4	10	0	5.0				145m†		5	C	1	F01-20b	FP47b
50	9352FM	TTL	2	10	2.0	0.8	4	10	0	5.0	35n			280m		5	C	1	54LS42W	FP47b
51	54145FM(2)	TTL	2	10	2.0	0.8	4	10	0	5.0	50n			215m†		5	C	1	54-45W	FP93c
52	BCL4028B	CMS	2	10	8.2	6.7	4	10	0	15	80n			300m		5	C	1	40-28B	MO001AG
53▼	BU4028B	CMS	2	10	7.0	3.0	4	10	0	10		90n†	50n†	550m	2.9	4	8	1	40-28B	DIP16c
54▼	BU4028BF	CMS	2	10	7.0	3.0	4	10	0	10		90n†	50n†	550m	2.9	4	8	1	40-28B	FP162
55	CD54HC42F	CMS	2	10	3.15	1.3	4	10	0	7.0	22n	6.0n	6.0n	500m	1.7	5	C	1	74-42	MS001a
56	CD54HCT42F	CMS	2	10	2.0	0.8	4	10	0	7.0	22n	6.0n	6.0n	500m	2.4	5	C	1	74-42	MS001a
57	CD74HC42E	CMS	2	10	3.15	1.3	4	10	0	7.0	19n	6.0n	6.0n	500m	1.7	4	8	1	74-42	MS001a
58	CD74HC42M	CMS	2	10	3.15	1.3	4	10	0	7.0	19n	6.0n	6.0n	300m	1.7	4	8	1	54LS42	FP148
59	CD74HCT42E	CMS	2	10	2.0	0.8	4	10	0	7.0	19n	6.0n	6.0n	500m	2.4	4	8	1	74-42	MS001a
60	CD74HCT42M	CMS	2	10	2.0	0.8	4	10	0	7.0	19n	6.0n	6.0n	300m	2.4	4	8	1	54LS42	FP148
61	CD4028AD	CMS	2	10	9.95	.05C	4	10	0	15	75n	20n	20n	500m		5	C	1	40-28B	MO001AE
62	CD4028AE	CMS	2	10	9.95	.05C	4	10	0	15	150n	20n	20n	500m		4	8	1	40-28B	MO001AC
63	CD4028AF	CMS	2	10	9.95	.05C	4	10	0	15	75n	20n	20n	500m		5	C	1	40-28B	MO001AC
64♦	CD4028BCJ(2)	CMS	2	10	11	4.0	4	10	0	15	110n			1.2mQ	6.7 †	4	8	1	40-28B	DIP16a
65♦	CD4028BCN(2)	CMS	2	10	11	4.0	4	10	0	15	110n			1.2mQ	6.7 †	4	8	1	40-28B	DIP16a
66	CD4028BD	CMS	2	10	7.0	3.0	4	10	0	20	100n	20n	20n	500m	2.9	5	C	1	40-28B	MO001AE
67	CD4028BE	CMS	2	10	7.0	3.0	4	10	0	20	100n	20n	20n	500m	2.9	4	8	1	40-28B	MO001AC
68	CD4028BF	CMS	2	10	7.0	3.0	4	10	0	20	100n	20n	20n	500m	2.9	5	C	1	40-28B	MO001AC
69♦	CD4028BMJ(2)	CMS	2	10	11	4.0	4	10	0	15	110n			300uQ	6.7 †	5	C	1	40-28B	DIP16a
70	CD4028BMW(2)	CMS	2	10	11	4.0	4	10	0	15	110n			300uQ	6.7 †	5	C	1	40-28B	FP88c
71♦	CM4028AD	CMS	2	10	10	0C	4	10	0	10	75n			200m	4.5 †	5	C	1	40-28B	DIP16a
72♦	CM4028AE	CMS	2	10	10	0C	4	10	0	10	150n			200m	4.5 †	4	8	1	40-28B	DIP16a
73♦	DM54L42AJ	TTL	2	10	2.0	0.7	4	10	0	5.0	140n			15m†		5	C	1	74-42N	DIP16b
74♦	DM54L42AW	TTL	2	10	2.0	0.7	4	10	0	8.0	60n			15m	0.4	5	C	1	54LS42W	FP98b
75♦	DM54LS42AJ	TTL	2	10	2.0	0.7	4	10	0	7.0	35n			35m†	0.4	5	C	1	74-42	DIP16a
76♦	DM74L42AN	TTL	2	10	2.0	0.7	4	10	0	5.0	140n			15m†		0	7	1	74-42N	DIP16a
77♦	DM74LS42AN	TTL	2	10	2.0	0.8	4	10	0	7.0	35n			35m†	0.3	0	7	1	74-42	DIP16a
78♦	FCH301	DTL	2	10	6.0	0	4	10	0	6.0	70n			250m	1.0	0	7	1	74-42	DIP16a
79♦	FJH261-7442	TTL	2	10	2.0	0.8	4	10	0	5.0	20n			140m†		0	7	1	74-42N	DIP16a
80♦	FZL101(2)	DTL	2	10	8.0	5.0	4	10	0	12	110n			300m	5.0 †	0	7	1	74-42N	DIP16a
81♦	FZL105(2)	DTL	2	10	8.0	5.0	4	10	0	12	110n			300m	5.0 †	2	8	1	74-42N	DIP16a
82♦	H158D1	DTL	2	10	8.0	6.0	4	10	0	20				600m	5.0 †	0	7	1	None	DIP16a
83♦	H158D2	DTL	2	10	8.0	6.0	4	10	0	16				600m	5.0 †	5	C	1	None	DIP16a
84♦	H158D6	DTL	2	10	8.0	6.0	4	10	0	20				600m	5.0 †	4	8	1	None	DIP16a
85♦	H258B1	DTL	2	10	8.0	6.0	4	10	0	16				600mQ	5.0 †	0	7	1	None	DIP16a
86	HBC4028AD	CMS	2	10	10	0C	4	10	0	10	75n			100uQ	4.5 †	5	C	1	40-28B	MO001AE
87	HBC4028AF	CMS	2	10	10	0C	4	10	0	10	75n			100uQ	4.5 †	5	C	1	40-28B	MO001AE
88	HBC4028AK	CMS	2	10	10	0C	4	10	0	10	75n			100uQ	4.5 †	5	C	1	40-28B	MO004AG
89	HBF4028AE	CMS	2	10	10	0C	4	10	0	10	150n			1.0mQ	4.5 †	4	8	1	40-28B	MO001AC
90	HBF4028AF	CMS	2	10	10	0C	4	10	0	10	150n			1.0mQ	4.5 †	4	8	1	40-28B	MO001AE
91♦	HCC4028BD	CMS	2	10	11	4.0	4	10	0	15	80n			500m	4.0 *	5	C	1	40-28B	DIP16a
92♦	HCC4028BF	CMS	2	10	11	4.0	4	10	0	15	80n			500m	4.0 *	5	C	1	40-28B	DIP16a
93	HCC4028BK	CMS	2	10	11	4.0	4	10	0	15	80n			500m	4.0 *	5	C	1	40-28B	FP131
94♦	HCF4028BE	CMS	2	10	11	4.0	4	10	0	15	80n			500m	4.0 *	4	8	1	40-28B	DIP16a
95♦	HCF4028BF	CMS	2	10	11	4.0	4	10	0	15	80n			500m	4.0 *	4	8	1	40-28B	DIP16a
96▼	HD74HC42FP	CMS	2	10	3.15	1.3	4	10	0	5.0	13n	6.0n	6.0n	500m	1.2	4	8	1	74-42	FP162
97▼	HD74HC42P	CMS	2	10	3.15	1.3	4	10	0	5.0	13n	6.0n	6.0n	500m	1.2	4	8	1	74-42	DIP16a
98▼	HD74LS42G	TTL	2	10	2.0	0.8			0	5.0	30n			400m	300m	2	7	1	74-42N	DIP16a
99♦	HD74LS42P	TTL	2	10	2.0	0.8	4	10	0	5.0	20n			400m	300m	2	7	1	74-42N	DIP16a
100♦	HD14028B	CMS	2	10	11	4.0	4	10	0	15	90n	65n	50n	300m	3.9	4	8	1	40-28	DIP16a
101	HEF4028	CMS	2	10	11	4.0	4	10	0	15	70n			400m	6.7 †	4	8	1	40-28B	DL Ø
102♦	HEF4028B	CMS	2	10	9.95	.05C	4	10	0	10	145n			100uQ		4	8	1	40-28B	DIP16b
103♦	HEF4028BD	CMS	4	10	12.5	2.5	4	10	0	15	80n	60n	60n	500m		4	8	1	40-28B	DIP16b
104♦	HEF4028BP	CMS	4	10	12.5	2.5	4	10	0	15	80n	60n	60n	500m		4	8	1	40-28B	DIP16b
105♦	HEF4028BPN	CMS	2	10	11.0	4.0	4	10	0	15	70n			400m	6.7 †	4	8	1	40-28	DIP16b
106♦	HEF4028BT	CMS	2	10	12.5	2.5	4	10	0	15	80n	60n	60n	400m		4	8	1	40-28	FP148
107♦	HEF4028BTD	CMS	2	10	11.0	4.0	4	10	0	15	40n			200m	6.7 †	4	8	1	40-28	FP148
108♦	HEF4028P	CMS	2	10	7.0	3.0	4	10	0	10	40n			600uQ	4.5 †	4	8	1	40-28B	DIP16a
109	K155ID3	TTL	2	10	2.4	0.4	4	16	0	5.0		27n	30n			1	7	1	None	None
110	K176ID1	MOS	2	10	8.2	0.3	4	10	0	9.0		350n	350n			1	7	1	40-27	None

6. DECODERS - BCD-TO-Decimal (Cont'd)

IN ORDER OF: (1) DECODES FROM (2) DECODES TO (4) CKTS PER PKG & (5) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	DECODES [1] F ROM	[2] T O	INPT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	NUMBER OF LINES IN	OUT	SUPPLY VOLTAGE RATED NEG (V)	POS (V)	tpd MAX (s)	OUTPUT tr MAX (s)	tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[3] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	LC4028B	CMS	2	10	3.5	1.5	4	10	0	20	90n	50n	40n	300m		4	8	1	40-28	DIP16a
2♦	M54HC42F1(A)	CMS	2	10	3.15	1.3	4	10	0	7.0	8.0n	6.0n	6.0n	500m	1.2	5	C	1	74-42	DIP16b
3♦	M54HC4028F1(A)	CMS	2	10	3.15	1.3	4	10	0	7.0	15n	6.0n	6.0n	500m	1.2	5	C	1	40-28	DIP16b
4♦	M74HC42B1(A)	CMS	2	10	3.15	1.3	4	10	0	7.0	8.0n	6.0n	6.0n	500m	1.2	4	8	1	74-42	DIP16a
5	M74HC42C1(A)	CMS	2	10	3.15	1.3	4	10	0	7.0	8.0n	6.0n	6.0n	500m	1.2	4	8	1	F02-125	LC33
6♦	M74HC42F1(A)	CMS	2	10	3.15	1.3	4	10	0	7.0	8.0n	6.0n	6.0n	500m	1.2	4	8	1	74-42	DIP16b
7♦	M74HC42P	CMS	2	10	4.2	1.8	4	10	0	6.0	32n					4	8	1	74-42	DIP16b
8♦	M74HC4028B1(A)	CMS	2	10	3.15	1.3	4	10	0	7.0	18n	6.0n	6.0n	500m	1.2	4	8	1	40-28	DIP16a
9	M74HC4028C1(A)	CMS	2	10	3.15	1.3	4	10	0	7.0	18n	6.0n	6.0n	500m	1.2	4	8	1	F02-126	LC33
10♦	M74HC4028F1(A)	CMS	2	10	3.15	1.3	4	10	0	7.0	18n	6.0n	6.0n	500m	1.2	4	8	1	40-28	DIP16b
11♦	M74LS42P	TTL	2	10	2.0	0.8	4	10	0.5	7.0	30n			35m†	0.4	2	7	1	74-42N	DIP16b
12♦	M4028BP(2)	CMS	2	10	11.0	4.0	4	10	0	18	200n	160n	80n	0.5	4.0 *	4	8	1	40-28	DIP16b
13♦	M53242P	TTL	2	10	2.0	0.8	4	10	0	7.0	30n			140m†	1.0 †	0	7	1	74-42N	DIP16a
14♦	MB74LS42	TTL	2	10	2.0	0.8	4	10	0	5.0	30n			35m†		2	7	1	74-42N	DIP16a
15♦	MB74LS42M	TTL	2	10	2.0	0.8	4	10	0	5.0	30n			35m†		2	7	1	74-42N	DIP16b
16♦	MB442	TTL	2	10	2.0	0.8	4	10	0	5.0				140m†		0	7	1	74-42N	DIP16b
17♦	MB442M	TTL	2	10	2.0	0.8	4	10	0	5.0				140m†		0	7	1	74-42N	DIP16b
18♦	MB84028B	CMS	2	10	10.5	4.5	4	10	0	15	130n	80n	80n	1.2mQ	4.5 *	4	8	1	40-28	DIP16a
19♦	MB84028BM	CMS	2	10	10.5	4.5	4	10	0	15	130n	80n	80n	1.2mQ	4.5 *	4	8	1	40-28	DIP16b
20♦	MC676L	DTL	2	10		1.5C	4	10	0	15	500n	20n†	20n†	380m†		3	7	1	6-76P	DIP16b
21♦	MC676P	DTL	2	10		1.5C	4	10	0	15	500n	20n†	20n†	380m†		3	7	1	6-76P	DIP16a
22♦	MC14028BCL	CMS	2	10	11	4.0	4	10	0	15		130n	80n		2.5 *	4	8	1	40-28B	DIP16a
23▼	MC14028BCLD	CMS	2	10	11	4.0	4	10	0	15		130n	80n		2.5 *	4	8	1	40-28B	DIP16a
24▼	MC14028BCLDS	CMS	2	10	11	4.0	4	10	0	15		130n	80n		2.5 *	4	8	1	40-28B	DIP16a
25▼	MC14028BCLS	CMS	2	10	11	4.0	4	10	0	15		130n	80n		2.5 *	4	8	1	40-28B	DIP16a
26♦	MC14028BCP	CMS	2	10	11	4.0	4	10	0	15		130n	80n		2.5 *	4	8	1	40-28B	DIP16a
27▼	MC14028BCPD	CMS	2	10	11	4.0	4	10	0	15		130n	80n		2.5 *	4	8	1	40-28B	DIP16a
28▼	MC14028BCPDS	CMS	2	10	11	4.0	4	10	0	15		130n	80n		2.5 *	4	8	1	40-28B	DIP16a
29▼	MC14028BCPS	CMS	2	10	11	4.0	4	10	0	15		130n	80n		2.5 *	4	8	1	40-28B	DIP16a
30▼	MC14028BD	CMS	2	10	11	4.0	4	10	0	15		130n	80n		2.5 *	4	8	1	40-28B	DIP16a
31♦	MM54C42D	CMS	2	10	3.5	1.5	4	10		15	250n			500m	450m†	5	C	1	40-28B	DIP16b
32♦	MM54HC42J	CMS	2	10	4.2	1.2	4	10	0	7.0	19n	6.0n†	6.0n†	500m	1.7	5	C	1	74-42N	DIP16a
33♦	MM74C42N(2)	CMS	2	10	3.5	1.5	4	10		15	250n			500m	450m†	0	7	1	40-28B	DIP16a
34♦	MM74HC42J	CMS	2	10	4.2	1.2	4	10	0.5	7.0	16n	6.0n†	6.0n†	500m	1.7	4	8	1	74-42N	DIP16a
35♦	MM74HC42N	CMS	2	10	4.2	1.2	4	10	0.5	7.0	16n	6.0n†	6.0n†	500m	1.7	4	8	1	74-42N	DIP16a
36♦	MN4028B	CMS	2	10	11.0	4.0	4	10	0	18	105n	60n	60n	400m	3.9	4	8	1	40-28	DIP16a
37♦	MSM564RS(2)	CMS	2	10	3.6	0.8	4	4	0	7.0	300n				0.6	3	8	1	F02-122	DIP16a
38♦	MSM4028	CMS	2	10	7.2	2.0	4	10	0	10	290n	120n	120n	1.4mQ	2.0 *	2	7	1	40-28B	DIP16a
39♦	MSM4028RS	CMS	2	10	3.6	1.0	4	10	0.3	16	200n	200n	200n	200m	0.6	4	8	1	None	DIP16 ☑
40	N74LS42D	TTL	2	10	2.0	0.8	4	10	0.5	7.0	30n	15n	6.0n	65m	0.4	0	7	1	74-42N	FP148
41♦	N74LS42N(2)	TTL	2	10	2.0	0.8	4	10	0.5	7.0	30n	15n	6.0n	65m	0.4	0	7	1	74-42N	DIP16a
42♦	N82S52F	TTL	2	10	2.7	.50C	4	10	0	5.0	16n			425m		0	7	1	F01-20b	DIP16b
43♦	N82S52N	TTL	2	10	2.7	.50C	4	10	0	5.0	16n			425m		0	7	1	F01-20b	DIP16a
44▼	N7442F	TTL	2	10	2.0	0.8	4	10	0	5.0	30n			280m		0	7	1	74-42N	DIP16b
45▼	N7442N	TTL	2	10	2.0	0.8	4	10	0.5	7.0	30n	7.0n	7.0n	280m	0.4	0	7	1	74-42N	DIP16a
46♦	N7443N	TTL	2	10	2.0	0.8	4	10	0	5.0	35n			280m		0	7	1	74-43N	DIP16a
47♦	N8251F	TTL	2	10	2.6	0.4C	4	10	0	5.0	35n			128m		0	7	1	F01-20g	DIP16b
48♦	N8251N	TTL	2	10	2.6	0.4C	4	10	0	5.0	35n			128m		0	7	1	F01-20g	DIP16a
49♦	N8252F	TTL	2	10	2.6	0.4C	4	10	0	5.0	35n			128m		0	7	1	F01-20b	DIP16b
50♦	N8252N	TTL	2	10	2.6	0.4C	4	10	0	5.0	35n			128m		0	7	1	F01-20b	DIP16a
51♦	PC54HC42D(A)	CMS	2	10	3.15	0.9	4	10	0	7.0	14n	6.0n	6.0n	500m	0.8	5	C	1	74-42	DIP16b
52♦	PC54HCT42D(A)	CMS	2	10	2.0	0.8	4	10	0	7.0	16n	6.0n	6.0n	500m	0.7	5	C	1	74-42	DIP16b
53♦	PC74HC42D(A)	CMS	2	10	3.15	0.9	4	10	0	7.0	14n	6.0n	6.0n	500m	0.8	4	8	1	74-42	DIP16b
54♦	PC74HC42P	CMS	2	10	3.15	1.3	4	10	0	5.0	14n	6.0n	6.0n	500m	0.8	4	C	1	74-42	DIP16b
55	PC74HC42T	CMS	2	10	3.15	1.3	4	10	0	5.0	14n	6.0n	6.0n	300m	0.8	4	C	1	74-42	FP148
56♦	PC74HCT42D(A)	CMS	2	10	2.0	0.8	4	10	0	7.0	16n	6.0n	6.0n	500m	0.7	4	8	1	74-42	DIP16b
57♦	PC74HCT42P	CMS	2	10	2.0	0.8	4	10	0	5.0	16n	6.0n	6.0n	500m	0.7	4	C	1	74-42	DIP16b
58	PC74HCT42T	CMS	2	10	2.0	0.8	4	10	0	5.0	16n	6.0n	6.0n	300m	0.7	4	C	1	74-42	FP148
59♦	S54LS42F(2)	TTL	2	10	2.0	0.7	4	10	0.5	7.0	30n	15n	6.0n	65m	0.3	5	C	1	74-42N	DIP16b
60	S54LS42G	TTL	2	10	2.0	0.7	4	10	0.5	7.0	30n	15n	6.0n	65m	0.3	5	C	1	54LS42	LC24
61	S54LS42W(2)	TTL	2	10	2.0	0.7	4	10	0.5	7.0	30n	15n	6.0n	65m	0.3	5	C	1	54LS42W	FP154
62♦	S5442F(2)	TTL	2	10	2.0	0.8	4	10	0.5	7.0	35n	7.0n	7.0n	205m	0.4	5	C	1	74-42N	DIP16b
63	S5442W(2)	TTL	2	10	2.0	0.8	4	10	0.5	7.0	35n	7.0n	7.0n	205m	0.4	5	C	1	54LS42W	FP154
64♦	S8251F	TTL	2	10	2.6	0.4C	4	10	0	5.0	35n			128m		5	C	1	F01-20g	DIP16b
65	S8251W	TTL	2	10	2.6	0.4C	4	10	0	5.0	35n			128m		5	C	1	F01-20g	FP47g
66♦	S8252F	TTL	2	10	2.6	0.4C	4	10	0	5.0	35n			128m		5	C	1	F01-20b	DIP16b
67	S8252W	TTL	2	10	2.6	0.4C	4	10	0	5.0	35n			128m		5	C	1	F01-20b	FP47g
68	S54145R	TTL	2	10	2.0	0.8	4		0	5.0	60n					5	C	1	54-45W	FP79a
69	S54145W(2)	TTL	2	10	2.0	0.8	4	10	0	5.0	50n			310m	1.0 †	5	C	1	54-45W	FP47g
70♦	SCL4028B	CMS	2	10	3.5Δ	1.0*	4	10	0	18	90n			100uQ	3.0	5	C	1	40-28B	DIP16a
71♦	SFC442E	TTL	2	10	2.0	0.8	4	10	0	5.0	35n			140m†		0	7	1	74-42N	DIP16a
72♦	SFC442EM	TTL	2	10	2.0	0.8	4	10	0	5.0	35n			140m†		5	C	1	74-42N	DIP16a
73♦	SFC442ET	TTL	2	10	2.0	0.8	4	10	0	5.0	35n			140m†		2	8	1	74-42N	DIP16a
74♦	SN5442AJ	TTL	2	10	2.0	0.8	4	10	0	5.0	30n			140m†	1.0 †	5	C	1	74-42N	DIP16a
75♦	SN7442AN	TTL	2	10	2.0	0.8	4	10	0	5.0	30n			140m†	1.0 †	0	7	1	74-42N	DIP16a
76	TC40H042P(2)	CMS	2	10	4.0	1.0	4	10	0	10	54n	35n	30n	300m	.95	4	8	1	74-42N	MO001AC
77▼	TC74HC42F(A)	CMS	2	10	3.15	1.3	4	10	0	5.0	36n	6.0n	6.0n	180m	1.2	4	8	1	74-42	FP167
78▼	TC74HC42P(A)	CMS	2	10	3.15	1.3	4	10	0	5.0	36n	6.0n	6.0n	500m	1.2	4	8	1	74-42	DIP16a
79▼	TC74HC4028F(A)	CMS	4	10	3.15	1.3	4	10	0	5.0	56n	19n	19n	180m	1.2	4	8	1	F02-126	FP167
80▼	TC74HC4028P(A)	CMS	4	10	3.15	1.3	4	10	0	5.0	56n	19n	19n	500m	1.2	4	8	1	F02-126	DIP16b
81♦	TC4028BP	CMS	2	10	14.9	.05C	3	10	0	15	200n	160n	80n	300m	4.0	4	8	1	40-28B	DIP16a
82♦	UPD74HC42C(A)	CMS	2	10	4.2	1.2	4	10	0	6.0	12n	500n	500n	500m		4	8	1	74-42	MO001A
83	UPD4028BG	CMS	2	10	11.0	4.0	4	10	0	20	80n			200m	3.9	4	8	1	40-28B	FP162
84♦	DN74LS42P2	TTL	2	10	2.0	0.8	4	10	0.5	7.0	30n			400m	700m	2	7	10	74-42	DIP16a
85	DN74LS42P5	TTL	2	10	2.0	0.8	4	10	0.5	7.0	30n			400m	700m	2	7	10	74-42	FP178

DECODER, EXCESS-3-TO-DECIMAL

89	5443AFM	TTL	3	10	2.0	0.8	4	10	0	5.0		25n	25n			5	C	1	54-43W	FP93c
90♦	N7443F	TTL	3	10	2.0	0.8	4	10	0	5.0	35n			280m		0	7	1	74-43N	DIP16b
91♦	S5443F	TTL	3	10	2.0	0.8	4	10	0	5.0	35n			205m	1.0 †	5	C	1	74-43N	DIP16b
92	S5443W	TTL	3	10	2.0	0.8	4	10	0	5.0	35n			205m	1.0 †	5	C	1	54-43W	FP47g

DECODER, EXCESS-3-GRAY-TO-DECIMAL

96	5444AFM	TTL	4	10	2.0	0.8	4	10	0	5.0		25n	25n			5	C	1	54-44W	FP ☑
97♦	N7444F	TTL	4	10	2.0	0.8	4	10	0	5.0	35n			280m	1.0 †	0	7	1	74-44N	DIP16b
98♦	N7444N	TTL	4	10	2.0	0.8	4	10	0	5.0	35n			280m		0	7	1	74-44N	DIP16a
99♦	S5444F	TTL	4	10	2.0	0.8	4	10	0	5.0	35n			205m		5	C	1	74-44N	DIP16b
100	S5444W	TTL	4	10	2.0	0.8	4	10	0	5.0	35n			205m	1.0 †	5	C	1	54-44W	FP47g

10. TIME DELAYS - Fixed Delay Line

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] TYPE DELAY	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
DELAY LINE, FIXED																			
4♦	FECL5	ECL	FIX	-.98		1	70	5.2		5.0n	5.0n				0	7	1	J01-42	DIP16d
5♦	FECL10	ECL	FIX	-.98		1	70	5.2		10n	5.0n				0	7	1	J01-42	DIP16d
6♦	FECL15	ECL	FIX	-.98		1	70	5.2		15n	5.0n				0	7	1	J01-42	DIP16d
7♦	FECL20	ECL	FIX	-.98		1	70	5.2		20n	5.0n				0	7	1	J01-42	DIP16d
8♦	FECL25	ECL	FIX	-.98		1	70	5.2		25n	5.0n				0	7	1	J01-42	DIP16d
9♦	FECL30	ECL	FIX	-.98		1	70	5.2		30n	5.0n				0	7	1	J01-42	DIP16d
10♦	FECL35	ECL	FIX	-.98		1	70	5.2		35n	5.0n				0	7	1	J01-42	DIP16d
11♦	FECL40	ECL	FIX	-.98		1	70	5.2		40n	5.0n				0	7	1	J01-42	DIP16d
12♦	FECL45	ECL	FIX	-.98		1	70	5.2		45n	5.0n				0	7	1	J01-42	DIP16d
13♦	FECL50	ECL	FIX	-.98		1	70	5.2		50n	5.0n				0	7	1	J01-42	DIP16d
14♦	FECL75	ECL	FIX	-.98		1	70	5.2		75n	5.0n				0	7	1	J01-42	DIP16d
15♦	FECL100	ECL	FIX	-.98		1	70	5.2		100n	5.0n				0	7	1	J01-42	DIP16d
16♦	FECL150	ECL	FIX	-.98		1	70	5.2		150n	5.0n				0	7	1	J01-42	DIP16d
17♦	FECL200	ECL	FIX	-.98		1	70	5.2		200n	5.0n				0	7	1	J01-42	DIP16d
18	33A010	TTL	FIX	3.2		1	20	0	5.0	10n	4.0n		450m		0	7	1	J02-10	MD25A
19	33A020	TTL	FIX	3.2		1	20	0	5.0	20n	4.0n		450m		0	7	1	J02-10	MD25A
20	33A030	TTL	FIX	3.2		1	20	0	5.0	30n	4.0n		450m		0	7	1	J02-10	MD25A
21	33A040	TTL	FIX	3.2		1	20	0	5.0	40n	4.0n		450m		0	7	1	J02-10	MD25A
22	33A050	TTL	FIX	3.2		1	20	0	5.0	50n	4.0n		450m		0	7	1	J02-10	MD25A
23	33A060	TTL	FIX	3.2		1	20	0	5.0	60n	4.0n		450m		0	7	1	J02-10	MD25A
24	33A070	TTL	FIX	3.2		1	20	0	5.0	70n	4.0n		450m		0	7	1	J02-10	MD25A
25	33A080	TTL	FIX	3.2		1	20	0	5.0	80n	4.0n		450m		0	7	1	J02-10	MD25A
26	33A090	TTL	FIX	3.2		1	20	0	5.0	90n	4.0n		450m		0	7	1	J02-10	MD25A
27	33A100	TTL	FIX	3.2		1	20	0	5.0	100n	4.0n		450m		0	7	1	J02-10	MD25A
28	33A125	TTL	FIX	3.2		1		0	5.0	125n	4.0n		450m		0	7	1	02-10	MD25A
29	33A150	TTL	FIX	3.2		1		0	5.0	150n	4.0n		450m		0	7	1	J02-10	MD25A
30	33A175	TTL	FIX	3.2		1		0	5.0	175n	4.0n		450m		0	7	1	J02-10	MD25A
31	33A200	TTL	FIX	3.2		1		0	5.0	200n	4.0n		450m		0	7	1	J02-10	MD25A
32	33A250	TTL	FIX	3.2		1			5.0	250n	4.0m		450m		0	7	1	J02-10	MD25A
33	33A300	TTL	FIX	3.2		1		0	5.0	300n	4.0n		450m		0	7	1	J02-10	MD25A
34	33A350	TTL	FIX	3.2		1		0	5.0	350n	4.0n		450m		0	7	1	J02-10	MD25A
35	33A400	TTL	FIX	3.2		1		0	5.0	400n	4.0n		450m		0	7	1	J02-10	MD25A
36	33A450	TTL	FIX	3.2		1		0	5.0	450n	4.0n		450m		0	7	1	J02-10	MD25A
37	33A500	TTL	FIX	3.2		1		0	5.0	500n	4.0n		450m		0	7	1	J02-10	MD25A
38♦	DDU3J1010	TTL	FIX			1	20	0	5.5	10n	4.0n		375m		0	7	1	J02-2	MD30a
39♦	DDU3J1020	TTL	FIX			1	20	0	5.5	20n	4.0n		375m		0	7	1	J02-2	MD30a
40♦	DDU3J1030	TTL	FIX			1	20	0	5.5	30n	4.0n		375m		0	7	1	J02-2	MD30a
41♦	DDU3J1040	TTL	FIX			1	20	0	5.5	40n	4.0n		375m		0	7	1	J02-2	MD30a
42♦	DDU3J1050	TTL	FIX			1	20	0	5.5	50n	4.0n		375m		0	7	1	J02-2	MD30a
43♦	DDU3J1060	TTL	FIX			1	20	0	5.5	60n	4.0n		375m		0	7	1	J02-2	MD30a
44♦	DDU3J1080	TTL	FIX			1	20	0	5.5	80n	4.0n		375m		0	7	1	J02-2	MD30a
45♦	DDU3J1100	TTL	FIX			1	20	0	5.5	100n	4.0n		375m		0	7	1	J02-2	MD30a
46♦	DDU3J1150	TTL	FIX			1	20	0	5.5	150n	4.0n		375m		0	7	1	J02-2	MD30a
47♦	DDU3J1200	TTL	FIX			1	20	0	5.5	200n	4.0n		375m		0	7	1	J02-2	MD30a
48♦	DDU3J1300	TTL	FIX			1	20	0	5.5	300n	4.0n		375m		0	7	1	J02-2	MD30a
49♦	DDU3J1400	TTL	FIX			1	20	0	5.5	400n	4.0n		375m		0	7	1	J02-2	MD30a
50♦	DDU3J1500	TTL	FIX			1	20	0	5.5	500n	4.0n		375m		0	7	1	J02-2	MD30a
51	DDU4-1010	TTL	FIX			1	20	0	5.5	10n	4.0n		375m		0	7	1	J02-10	MD30b
52	DDU4-1020	TTL	FIX			1	20	0	5.5	20n	4.0n		375m		0	7	1	J02-10	MD30b
53	DDU4-1030	TTL	FIX			1	20	0	5.5	30n	4.0n		375m		0	7	1	J02-10	MD30b
54	DDU4-1040	TTL	FIX			1	20	0	5.5	40n	4.0n		375m		0	7	1	J02-10	MD30b
55	DDU4-1050	TTL	FIX			1	20	0	5.5	50n	4.0n		375m		0	7	1	J02-10	MD30b
56	DDU4-1060	TTL	FIX			1	20	0	5.5	60n	4.0n		375m		0	7	1	J02-10	MD30b
57	DDU4-1080	TTL	FIX			1	20	0	5.5	80n	4.0n		375m		0	7	1	J02-10	MD30b
58	DDU4-1100	TTL	FIX			1	20	0	5.5	100n	4.0n		375m		0	7	1	J02-10	MD30b
59	DDU4-1150	TTL	FIX			1	20	0	5.5	150n	4.0n		375m		0	7	1	J02-10	MD30b
60	DDU4-1200	TTL	FIX			1	20	0	5.5	200n	4.0n		375m		0	7	1	J02-10	MD30b
61	DDU4-1300	TTL	FIX			1	20	0	5.5	300n	4.0n		375m		0	7	1	J02-10	MD30b
62	DDU4-1400	TTL	FIX			1	20	0	5.5	400n	4.0n		375m		0	7	1	J02-10	MD30b
63	DDU4-1500	TTL	FIX			1	20	0	5.5	500n	4.0n		375m		0	7	1	J02-10	MD30b
64	DDU4F1010	TTL	FIX			1	25	0	5.0	10n	2.0n		168m		0	7	1	J02-15	MD30b
65	DDU4F1020	TTL	FIX			1	25	0	5.0	20n	2.0n		168m		0	7	1	J02-15	MD30b
66	DDU4F1030	TTL	FIX			1	25	0	5.0	30n	2.0n		168m		0	7	1	J02-15	MD30b
67	DDU4F1040	TTL	FIX			1	25	0	5.0	40n	2.0n		168m		0	7	1	J02-15	MD30b
68	DDU4F1050	TTL	FIX			1	25	0	5.0	50n	2.0n		168m		0	7	1	J02-15	MD30b
69	DDU4F1060	TTL	FIX			1	25	0	5.0	60n	2.0n		168m		0	7	1	J02-15	MD30b
70	DDU4F1080	TTL	FIX			1	25	0	5.0	80n	2.0n		168m		0	7	1	J02-15	MD30b
71	DDU4F1100	TTL	FIX			1	25	0	5.0	100n	2.0n		168m		0	7	1	J02-15	MD30b
72	DDU4F1150	TTL	FIX			1	25	0	5.0	150n	2.0n		168m		0	7	1	J02-15	MD30b
73	DDU4F1200	TTL	FIX			1	25	0	5.0	200n	2.0n		168m		0	7	1	J02-15	MD30b
74	DDU4F1300	TTL	FIX			1	25	0	5.0	300n	2.0n		168m		0	7	1	J02-15	MD30b
75	DDU4F1400	TTL	FIX			1	25	0	5.0	400n	2.0n		168m		0	7	1	J02-15	MD30b
76	DDU4F1500	TTL	FIX			1	25	0	5.0	500n	2.0n		168m		0	7	1	J02-15	MD30b
77♦	FDM5	TTL	FIX	2.0	0.8	1			5.0	5.0n	4.0n			0.4			1	J01-30	DIP8d
78♦	FDM10	TTL	FIX	2.0	0.8	1			5.0	10n	4.0n			0.4			1	J01-30	DIP8d
79♦	FDM25	TTL	FIX	2.0	0.8	1			5.0	25n	4.0n			0.4			1	J01-30	DIP8d
80♦	FDM50	TTL	FIX	2.0	0.8	1			5.0	50n	4.0n			0.4			1	J01-30	DIP8d
81♦	FDM100	TTL	FIX	2.0	0.8	1			5.0	100n	4.0n			0.4			1	J01-30	DIP8d
82♦	FDM150	TTL	FIX	2.0	0.8	1			5.0	150n	4.0n			0.4			1	J01-30	DIP8d
83♦	FDM200	TTL	FIX	2.0	0.8	1			5.0	200n	4.0n			0.4			1	J01-30	DIP8d
84♦	FDM250	TTL	FIX	2.0	0.8	1			5.0	250n	4.0n			0.4			1	J01-30	DIP8d
85♦	FDM300	TTL	FIX	2.0	0.8	1			5.0	300n	4.0n			0.4			1	J01-30	DIP8d
86♦	FDM350	TTL	FIX	2.0	0.8	1			5.0	350n	4.0n			0.4			1	J01-30	DIP8d
87♦	FDM400	TTL	FIX	2.0	0.8	1			5.0	400n	4.0n			0.4			1	J01-30	DIP8d
88♦	FDM450	TTL	FIX	2.0	0.8	1			5.0	450n	4.0n			0.4			1	J01-30	DIP8d
89♦	FDM500	TTL	FIX	2.0	0.8	1			5.0	500n	4.0n			0.4			1	J01-30	DIP8d
90♦	FDM-5	TTL	FIX	2.0	0.8	1		0	5.0	5.0n	4.0n						1	J01-30	DIP8d
91♦	FDM-10	TTL	FIX	2.0	0.8	1		0	5.0	10n	4.0n						1	J01-30	DIP8d
92♦	FDM-25	TTL	FIX	2.0	0.8	1		0	5.0	25n	4.0n						1	J01-30	DIP8d
93♦	FDM-50	TTL	FIX	2.0	0.8	1		0	5.0	50n	4.0n						1	J01-30	DIP8d
94♦	FDM-100	TTL	FIX	2.0	0.8	1		0	5.0	100n	4.0n						1	J01-30	DIP8d
95♦	FDM-150	TTL	FIX	2.0	0.8	1		0	5.0	150n	4.0n						1	J01-30	DIP8d
96♦	FDM-200	TTL	FIX	2.0	0.8	1		0	5.0	200n	4.0n						1	J01-30	DIP8d
97♦	FDM-250	TTL	FIX	2.0	0.8	1		0	5.0	250n	4.0n						1	J01-30	DIP8d
98♦	FDM-300	TTL	FIX	2.0	0.8	1		0	5.0	300n	4.0n						1	J01-30	DIP8d
99♦	FDM-350	TTL	FIX	2.0	0.8	1		0	5.0	350n	4.0n						1	J01-30	DIP8d
100♦	FDM-400	TTL	FIX	2.0	0.8	1		0	5.0	350n	4.0n						1	J01-30	DIP8d
101♦	FDM-450	TTL	FIX	2.0	0.8	1		0	5.0	450n	4.0n						1	J01-30	DIP8d
102♦	FDM-500	TTL	FIX	2.0	0.8	1		0	5.0	500n	4.0n						1	J01-30	DIP8d
103♦	FSDM5	TTL	FIX	2.0	0.8	1			5.0	5.0n	4.0n			0.3			1	J01-31	DIP14e
104♦	FSDM10	TTL	FIX	2.0	0.8	1			5.0	10n	4.0n			0.3			1	J01-31	DIP14e
105♦	FSDM25	TTL	FIX	2.0	0.8	1			5.0	25n	4.0n			0.3			1	J01-31	DIP14e
106♦	FSDM50	TTL	FIX	2.0	0.8	1			5.0	50n	4.0n			0.3			1	J01-31	DIP14e
107♦	FSDM100	TTL	FIX	2.0	0.8	1			5.0	100n	4.0n			0.3			1	J01-31	DIP14e
108♦	FSDM150	TTL	FIX	2.0	0.8	1			5.0	150n	4.0n			0.3			1	J01-31	DIP14e
109♦	FSDM200	TTL	FIX	2.0	0.8	1			5.0	200n	4.0n			0.3			1	J01-31	DIP14e
110♦	FSDM250	TTL	FIX	2.0	0.8	1			5.0	250n	4.0n			0.3			1	J01-31	DIP14e

10. TIME DELAYS - Fixed Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] D T E Y L P A E Y	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1♦	FSDM300	TTL	FIX	2.0	0.8	1			5.0	300n	4.0n			0.3			1	J01-31	DIP14e	
2♦	FSDM350	TTL	FIX	2.0	0.8	1			5.0	350n	4.0n			0.3			1	J01-31	DIP14e	
3♦	FSDM400	TTL	FIX	2.0	0.8	1			5.0	400n	4.0n			0.3			1	J01-31	DIP14e	
4♦	FSDM450	TTL	FIX	2.0	0.8	1			5.0	450n	4.0n			0.3			1	J01-31	DIP14e	
5♦	FSDM500	TTL	FIX	2.0	0.8	1			5.0	500n	4.0n			0.3			1	J01-31	DIP14e	
6♦	FSDM1000	TTL	FIX	2.0	0.8	1			5.0	1.0u	4.0n			0.3			1	J01-31	DIP14e	
7♦	MDU12-5	ECL	FIX	-.96	1.6-	1		5.2		5.0n	2.0n†				3	8	2	J01-68	DIP16	☑
8♦	MDU12-10	ECL	FIX	-.96	1.6-	1		5.2		10n	2.0n†				3	8	2	J01-68	DIP16	☑
9♦	MDU12-15	ECL	FIX	-.96	1.6-	1		5.2		15n	2.0n†				3	8	2	J01-68	DIP16	☑
10♦	MDU12-20	ECL	FIX	-.96	1.6-	1		5.2		20n	2.0n†				3	8	2	J01-68	DIP16	☑
11♦	MDU12-25	ECL	FIX	-.96	1.6-	1		5.2		25n	2.0n†				3	8	2	J01-68	DIP16	☑
12♦	MDU12-30	ECL	FIX	-.96	1.6-	1		5.2		30n	2.0n†				3	8	2	J01-68	DIP16	☑
13♦	MDU12-35	ECL	FIX	-.96	1.6-	1		5.2		35n	2.0n†				3	8	2	J01-68	DIP16	☑
14♦	MDU12-40	ECL	FIX	-.96	1.6-	1		5.2		40n	2.0n†				3	8	2	J01-68	DIP16	☑
15♦	MDU12-45	ECL	FIX	-.96	1.6-	1		5.2		45n	2.0n†				3	8	2	J01-68	DIP16	☑
16♦	MDU12-50	ECL	FIX	-.96	1.6-	1		5.2		50n	2.0n†				3	8	2	J01-68	DIP16	☑
17♦	MDU12-60	ECL	FIX	-.96	1.6-	1		5.2		60n	2.0n†				3	8	2	J01-68	DIP16	☑
18♦	MDU12-75	ECL	FIX	-.96	1.6-	1		5.2		75n	2.0n†				3	8	2	J01-68	DIP16	☑
19♦	MDU12-100	ECL	FIX	-.96	1.6-	1		5.2		100n	2.0n†				3	8	2	J01-68	DIP16	☑
20♦	MDU12-125	ECL	FIX	-.96	1.6-	1		5.2		125n	2.0n†				3	8	2	J01-68	DIP16	☑
21♦	MDU12-150	ECL	FIX	-.96	1.6-	1		5.2		150n	2.0n†				3	8	2	J01-68	DIP16	☑
22♦	MDU12-200	ECL	FIX	-.96	1.6-	1		5.2		200n	2.0n†				3	8	2	J01-68	DIP16	☑
23♦	MDU12-250	ECL	FIX	-.96	1.6-	1		5.2		250n	2.0n†				3	8	2	J01-68	DIP16	☑
24♦	MDU28-8	ITL	FIX	2.0	0.8	1			5.0	8.0n	4.0n†		0.5		0	7	2	J01-65	DIP8	
25♦	MDU28-10	ITL	FIX	2.0	0.8	1			5.0	10n	4.0n†		0.5		0	7	2	J01-65	DIP8	
26♦	MDU28-12	ITL	FIX	2.0	0.8	1			5.0	12n	4.0n†		0.5		0	7	2	J01-65	DIP8	
27♦	MDU28-16	ITL	FIX	2.0	0.8	1			5.0	16n	4.0n†		0.5		0	7	2	J01-65	DIP8	
28♦	MDU28-20	ITL	FIX	2.0	0.8	1			5.0	20n	4.0n†		0.5		0	7	2	J01-65	DIP8	
29♦	MDU28-30	ITL	FIX	2.0	0.8	1			5.0	30n	4.0n†		0.5		0	7	2	J01-65	DIP8	
30♦	MDU28-35	ITL	FIX	2.0	0.8	1			5.0	35n	4.0n†		0.5		0	7	2	J01-65	DIP8	
31♦	MDU28-40	ITL	FIX	2.0	0.8	1			5.0	40n	4.0n†		0.5		0	7	2	J01-65	DIP8	
32♦	MDU28-45	ITL	FIX	2.0	0.8	1			5.0	45n	4.0n†		0.5		0	7	2	J01-65	DIP8	
33♦	MDU28-50	ITL	FIX	2.0	0.8	1			5.0	50n	4.0n†		0.5		0	7	2	J01-65	DIP8	
34♦	MDU28-60	ITL	FIX	2.0	0.8	1			5.0	60n	4.0n†		0.5		0	7	2	J01-65	DIP8	
35♦	MDU28-75	ITL	FIX	2.0	0.8	1			5.0	75n	4.0n†		0.5		0	7	2	J01-65	DIP8	
36♦	MDU28-100	ITL	FIX	2.0	0.8	1			5.0	100n	4.0n†		0.5		0	7	2	J01-65	DIP8	
37♦	MDU28-125	ITL	FIX	2.0	0.8	1			5.0	125n	4.0n†		0.5		0	7	2	J01-65	DIP8	
38♦	MDU28-150	ITL	FIX	2.0	0.8	1			5.0	150n	4.0n†		0.5		0	7	2	J01-65	DIP8	
39♦	MDU28-175	ITL	FIX	2.0	0.8	1			5.0	175n	4.0n†		0.5		0	7	2	J01-65	DIP8	
40♦	MDU28-200	ITL	FIX	2.0	0.8	1			5.0	200n	4.0n†		0.5		0	7	2	J01-65	DIP8	
41♦	MDU28-250	ITL	FIX	2.0	0.8	1			5.0	250n	4.0n†		0.5		0	7	2	J01-65	DIP8	
42	MDU2-5	TTL	FIX			1		0	5.0	5.0n	4.0n		500m		0	7	2	J02-18	MD30b	
43	MDU2-10	TTL	FIX			1		0	5.0	10n	4.0n		500m		0	7	2	J02-18	MD30b	
44	MDU2-15	TTL	FIX			1		0	5.0	15n	4.0n		500m		0	7	2	J02-18	MD30b	
45	MDU2-20	TTL	FIX			1		0	5.0	20n	4.0n		500m		0	7	2	J02-18	MD30b	
46	MDU2-25	TTL	FIX			1		0	5.0	25n	4.0n		500m		0	7	2	J02-18	MD30b	
47	MDU2-30	TTL	FIX			1		0	5.0	30n	4.0n		500m		0	7	2	J02-18	MD30b	
48	MDU2-35	TTL	FIX			1		0	5.0	35n	4.0n		500m		0	7	2	J02-18	MD30b	
49	MDU2-40	TTL	FIX			1		0	5.0	40n	4.0n		500m		0	7	2	J02-18	MD30b	
50	MDU2-45	TTL	FIX			1		0	5.0	45n	4.0n		500m		0	7	2	J02-18	MD30b	
51	MDU2-50	TTL	FIX			1		0	5.0	50n	4.0n		500m		0	7	2	J02-18	MD30b	
52	MDU2-60	TTL	FIX			1		0	5.0	60n	4.0n		500m		0	7	2	J02-18	MD30b	
53	MDU2-75	TTL	FIX			1		0	5.0	75n	4.0n		500m		0	7	2	J02-18	MD30b	
54	MDU2-100	TTL	FIX			1		0	5.0	100n	4.0n		500m		0	7	2	J02-18	MD30b	
55	MDU2-125	TTL	FIX			1		0	5.0	125n	4.0n		500m		0	7	2	J02-18	MD30b	
56	MDU2-150	TTL	FIX			1		0	5.0	150n	4.0n		500m		0	7	2	J02-18	MD30b	
57	MDU2-200	TTL	FIX			1		0	5.0	200n	4.0n		500m		0	7	2	J02-18	MD30b	
58	MDU2-250	TTL	FIX			1		0	5.0	250n	4.0n		500m		0	7	2	J02-18	MD30b	
59	MDU2F5	TTL	FIX	2.0	0.8	1			5.0	5.0n	2.0n†				0	7	2	J02-18	MD14M	
60♦	MDU2F6	TTL	FIX	2.0	0.8	1			5.0	6.0n	2.0n†				0	7	2	J02-18	DIP14	☑
61♦	MDU2F8	TTL	FIX	2.0	0.8	1			5.0	8.0n	2.0n†				0	7	2	J02-18	DIP14	☑
62	MDU2F10	TTL	FIX	2.0	0.8	1			5.0	10n	2.0n†				0	7	2	J02-18	MD14M	
63♦	MDU2F12	TTL	FIX	2.0	0.8	1			5.0	12n	2.0n†				0	7	2	J02-18	DIP14	☑
64	MDU2F15	TTL	FIX	2.0	0.8	1			5.0	15n	2.0n†				0	7	2	J02-18	MD14M	
65♦	MDU2F16	TTL	FIX	2.0	0.8	1			5.0	16n	2.0n†				0	7	2	J02-18	DIP14	☑
66	MDU2F20	TTL	FIX	2.0	0.8	1			5.0	20n	2.0n†				0	7	2	J02-18	MD14M	
67	MDU2F25	TTL	FIX	2.0	0.8	1			5.0	25n	2.0n†				0	7	2	J02-18	MD14M	
68	MDU2F30	TTL	FIX	2.0	0.8	1			5.0	30n	2.0n†				0	7	2	J02-18	MD14M	
69	MDU2F35	TTL	FIX	2.0	0.8	1			5.0	35n	2.0n†				0	7	2	J02-18	MD14M	
70	MDU2F40	TTL	FIX	2.0	0.8	1			5.0	40n	2.0n†				0	7	2	J02-18	MD14M	
71	MDU2F45	TTL	FIX	2.0	0.8	1			5.0	45n	2.0n†				0	7	2	J02-18	MD14M	
72	MDU2F50	TTL	FIX	2.0	0.8	1			5.0	50n	2.0n†				0	7	2	J02-18	MD14M	
73	MDU2F60	TTL	FIX	2.0	0.8	1			5.0	60n	2.0n†				0	7	2	J02-18	MD14M	
74	MDU2F75	TTL	FIX	2.0	0.8	1			5.0	75n	2.0n†				0	7	2	J02-18	MD14M	
75	MDU2F100	TTL	FIX	2.0	0.8	1			5.0	100n	2.0n†				0	7	2	J02-18	MD14M	
76	MDU2F125	TTL	FIX	2.0	0.8	1			5.0	125n	2.0n†				0	7	2	J02-18	MD14M	
77	MDU2F150	TTL	FIX	2.0	0.8	1			5.0	150n	2.0n†				0	7	2	J02-18	MD14M	
78♦	MDU2F175	TTL	FIX	2.0	0.8	1			5.0	175n	2.0n†				0	7	2	J02-18	DIP14	☑
79	MDU2F200	TTL	FIX	2.0	0.8	1			5.0	200n	2.0n†				0	7	2	J02-18	MD14M	
80	MDU2F250	TTL	FIX	2.0	0.8	1			5.0	250n	2.0n†				0	7	2	J02-18	MD14M	
81♦	MDU28-6	TTL	FIX	2.0	0.8	1			5.0	6.0n	4.0n†		0.5		0	7	2	J01-65	DIP8	
82♦	MDU28F5	TTL	FIX	2.0	0.8	1			5.0	5.0n	2.0n†				0	7	2	J01-65	DIP8	☑
83♦	MDU28F6	TTL	FIX	2.0	0.8	1			5.0	6.0n	2.0n†				0	7	2	J01-55	DIP8b	
84♦	MDU28F8	TTL	FIX	2.0	0.8	1			5.0	8.0n	2.0n†				0	7	2	J01-55	DIP8b	
85♦	MDU28F10	TTL	FIX	2.0	0.8	1			5.0	10n	2.0n†				0	7	2	J01-55	DIP8b	
86♦	MDU28F12	TTL	FIX	2.0	0.8	1			5.0	12n	2.0n†				0	7	2	J01-55	DIP8b	
87♦	MDU28F16	TTL	FIX	2.0	0.8	1			5.0	13n	2.0n†				0	7	2	J01-55	DIP8b	
88♦	MDU28F20	TTL	FIX	2.0	0.8	1			5.0	20n	2.0n†				0	7	2	J01-55	DIP8b	
89♦	MDU28F25	TTL	FIX	2.0	0.8	1			5.0	25n	2.0n†				0	7	2	J01-65	DIP8	☑
90♦	MDU28F30	TTL	FIX	2.0	0.8	1			5.0	30n	2.0n†				0	7	2	J01-55	DIP8b	
91♦	MDU28F35	TTL	FIX	2.0	0.8	1			5.0	35n	2.0n†				0	7	2	J01-55	DIP8b	
92♦	MDU28F40	TTL	FIX	2.0	0.8	1			5.0	40n	2.0n†				0	7	2	J01-55	DIP8b	
93♦	MDU28F45	TTL	FIX	2.0	0.8	1			5.0	45n	2.0n†				0	7	2	J01-55	DIP8b	
94♦	MDU28F50	TTL	FIX	2.0	0.8	1			5.0	50n	2.0n†				0	7	2	J01-55	DIP8b	
95♦	MDU28F60	TTL	FIX	2.0	0.8	1			5.0	60n	2.0n†				0	7	2	J01-55	DIP8b	
96♦	MDU28F75	TTL	FIX	2.0	0.8	1			5.0	75n	2.0n†				0	7	2	J01-55	DIP8b	
97♦	MDU28F100	TTL	FIX	2.0	0.8	1			5.0	100n	2.0n†				0	7	2	J01-55	DIP8b	
98♦	MDU28F125	TTL	FIX	2.0	0.8	1			5.0	125n	2.0n†				0	7	2	J01-55	DIP8b	
99♦	MDU28F150	TTL	FIX	2.0	0.8	1			5.0	150n	2.0n†				0	7	2	J01-55	DIP8b	
100♦	MDU28F175	TTL	FIX	2.0	0.8	1			5.0	175n	2.0n†				0	7	2	J01-55	DIP8b	
101♦	MDU28F200	TTL	FIX	2.0	0.8	1			5.0	200n	2.0n†				0	7	2	J01-55	DIP8b	
102♦	MDU28F250	TTL	FIX	2.0	0.8	1			5.0	250n	2.0n†				0	7	2	J01-55	DIP8b	
103♦	MDU13-5	ECL	FIX	-.96	1.6-	1		5.2		5.0n	2.0n†				3	8	3	J01-69	DIP16	☑
104♦	MDU13-10	ECL	FIX	-.96	1.6-	1		5.2		10n	2.0n†				3	8	3	J01-69	DIP16	☑
105♦	MDU13-15	ECL	FIX	-.96	1.6-	1		5.2		15n	2.0n†				3	8	3	J01-69	DIP16	☑
106♦	MDU13-20	ECL	FIX	-.96	1.6-	1		5.2		20n	2.0n†				3	8	3	J01-69	DIP16	☑
107♦	MDU13-25	ECL	FIX	-.96	1.6-	1		5.2		25n	2.0n†				3	8	3	J01-69	DIP16	☑
108♦	MDU13-30	ECL	FIX	-.96	1.6-	1		5.2		30n	2.0n†				3	8	3	J01-69	DIP16	☑
109♦	MDU13-35	ECL	FIX	-.96	1.6-	1		5.2		35n	2.0n†				3	8	3	J01-69	DIP16	☑
110♦	MDU13-40	ECL	FIX	-.96	1.6-	1		5.2		40n	2.0n†				3	8	3	J01-69	DIP16	☑

10. TIME DELAYS - Fixed Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] DELAY TYPE	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	MDU13-45	ECL	FIX	-.96	1.6-	1		5.2		45n	2.0n†				3	8	3	J01-69	DIP16 ☑
2♦	MDU13-50	ECL	FIX	-.96	1.6-	1		5.2		50n	2.0n†				3	8	3	J01-69	DIP16 ☑
3♦	MECL5	ECL	FIX	-.98		1	70	5.2		5.0n	5.0n				0	7	3	J01-43	DIP16d
4♦	MECL10	ECL	FIX	-.98		1	70	5.2		10n	5.0n				0	7	3	J01-43	DIP16d
5♦	MECL15	ECL	FIX	-.98		1	70	5.2		15n	5.0n				0	7	3	J01-43	DIP16d
6♦	MECL20	ECL	FIX	-.98		1	70	5.2		20n	5.0n				0	7	3	J01-43	DIP16d
7♦	MECL25	ECL	FIX	-.98		1	70	5.2		25n	5.0n				0	7	3	J01-43	DIP16d
8♦	MECL30	ECL	FIX	-.98		1	70	5.2		30n	5.0n				0	7	3	J01-43	DIP16d
9♦	MECL35	ECL	FIX	-.98		1	70	5.2		35n	5.0n				0	7	3	J01-43	DIP16d
10♦	MECL40	ECL	FIX	-.98		1	70	5.2		40n	5.0n				0	7	3	J01-43	DIP16d
11♦	MECL45	ECL	FIX	-.98		1	70	5.2		45n	5.0n				0	7	3	J01-43	DIP16d
12♦	MECL50	ECL	FIX	-.98		1	70	5.2		50n	5.0n				0	7	3	J01-43	DIP16d
13♦	MECL75	ECL	FIX	-.98		1	70	5.2		75n	5.0n				0	7	3	J01-43	DIP16d
14♦	MECL100	ECL	FIX	-.98		1	70	5.2		100n	5.0n				0	7	3	J01-43	DIP16d
15♦	MECL150	ECL	FIX	-.98		1	70	5.2		150n	5.0n				0	7	3	J01-43	DIP16d
16♦	MECL200	ECL	FIX	-.98		1	70	5.2		200n	5.0n				0	7	3	J01-43	DIP16d
17	34A010	TTL	FIX	3.2		1		0	5.0	10n	4.0n		450m		0	7	3	J02-11	MD28
18	34A020	TTL	FIX	3.2		1		0	5.0	20n	4.0n		450m		0	7	3	J02-11	MD28
19	34A030	TTL	FIX	3.2		1		0	5.0	30n	4.0n		450m		0	7	3	J02-11	MD28
20	34A040	TTL	FIX	3.2		1		0	5.0	40n	4.0n		450m		0	7	3	J02-11	MD28
21	34A050	TTL	FIX	3.2		1		0	5.0	50n	4.0n		450m		0	7	3	J02-11	MD28
22	34A060	TTL	FIX	3.2		1		0	5.0	60n	4.0n		450m		0	7	3	J02-11	MD28
23	34A070	TTL	FIX	3.2		1		0	5.0	70n	4.0n		450m		0	7	3	J02-11	MD28
24	34A080	TTL	FIX	3.2		1		0	5.0	80n	4.0n		450m		0	7	3	J02-11	MD28
25	34A090	TTL	FIX	3.2		1		0	5.0	90n	4.0n		450m		0	7	3	J02-11	MD28
26	34A100	TTL	FIX	3.2		1		0	5.0	100n	4.0n		450m		0	7	3	J02-11	MD28
27	21260	TTL	FIX	5.5Δ	0*	3	20	0	7.0	7.0n	3.0n				0	7	3	J01-7	MD25
28	21261	TTL	FIX	5.5Δ	0*	3	20	0	7.0	12n	3.0n				0	7	3	J01-7	MD25
29	21262	TTL	FIX	5.5Δ	0*	3	20	0	7.0	22n	3.0n				0	7	3	J01-7	MD25
30	21263	TTL	FIX	5.5Δ	0*	3	20	0	7.0	32n	3.0n				0	7	3	J01-7	MD25
31	21264	TTL	FIX	5.5Δ	0*	3	20	0	7.0	42n	3.0n				0	7	3	J01-7	MD25
32	21265	TTL	FIX	5.5Δ	0*	3	20	0	7.0	53n	3.0n				0	7	3	J01-7	MD25
33	21266	TTL	FIX	5.5Δ	0*	3	20	0	7.0	63n	3.0n				0	7	3	J01-7	MD25
34	21267	TTL	FIX	5.5Δ	0*	3	20	0	7.0	74n	4.0n				0	7	3	J01-7	MD25
35	21268	TTL	FIX	5.5Δ	0*	3	20	0	7.0	84n	4.0n				0	7	3	J01-7	MD25
36	21269	TTL	FIX	5.5Δ	0*	3	20	0	7.0	95n	4.0n				0	7	3	J01-7	MD25
37	21270	TTL	FIX	5.5Δ	0*	3	20	0	7.0	105n	4.0n				0	7	3	J01-7	MD25
38	HY5100-010M	TTL	FIX	2.0	0.8	1	20		5.0	10n	4.0n			0.3	5	C	3	J01-51	MD14I
39	HY5100-010R	TTL	FIX	2.0	0.8	1	20		5.0	10n	4.0n			0.3	0	7	3	J01-51	MD14I
40	HY5100-012M	TTL	FIX	2.0	0.8	1	20		5.0	12n	4.0n			0.3	5	C	3	J01-51	MD14I
41	HY5100-012R	TTL	FIX	2.0	0.8	1	20		5.0	12n	4.0n			0.3	0	7	3	J01-51	MD14I
42	HY5100-014M	TTL	FIX	2.0	0.8	1	20		5.0	14n	4.0n			0.3	5	C	3	J01-51	MD14I
43	HY5100-014R	TTL	FIX	2.0	0.8	1	20		5.0	14n	4.0n			0.3	0	7	3	J01-51	MD14I
44	HY5100-016M	TTL	FIX	2.0	0.8	1	20		5.0	16n	4.0n			0.3	5	C	3	J01-51	MD14I
45	HY5100-016R	TTL	FIX	2.0	0.8	1	20		5.0	16n	4.0n			0.3	0	7	3	J01-51	MD14I
46	HY5100-018M	TTL	FIX	2.0	0.8	1	20		5.0	18n	4.0n			0.3	5	C	3	J01-51	MD14I
47	HY5100-018R	TTL	FIX	2.0	0.8	1	20		5.0	18n	4.0n			0.3	0	7	3	J01-51	MD14I
48	HY5100-020M	TTL	FIX	2.0	0.8	1	20		5.0	20n	4.0n			0.3	5	C	3	J01-51	MD14I
49	HY5100-020R	TTL	FIX	2.0	0.8	1	20		5.0	20n	4.0n			0.3	0	7	3	J01-51	MD14I
50	HY5100-025M	TTL	FIX	2.0	0.8	1	20		5.0	25n	4.0n			0.3	5	C	3	J01-51	MD14I
51	HY5100-025R	TTL	FIX	2.0	0.8	1	20		5.0	25n	4.0n			0.3	0	7	3	J01-51	MD14I
52	HY5100-030M	TTL	FIX	2.0	0.8	1	20		5.0	30n	4.0n			0.3	5	C	3	J01-51	MD14I
53	HY5100-030R	TTL	FIX	2.0	0.8	1	20		5.0	30n	4.0n			0.3	0	7	3	J01-51	MD14I
54	HY5100-035M	TTL	FIX	2.0	0.8	1	20		5.0	35n	4.0n			0.3	5	C	3	J01-51	MD14I
55	HY5100-035R	TTL	FIX	2.0	0.8	1	20		5.0	35n	4.0n			0.3	0	7	3	J01-51	MD14I
56	HY5100-040M	TTL	FIX	2.0	0.8	1	20		5.0	40n	4.0n			0.3	5	C	3	J01-51	MD14I
57	HY5100-040R	TTL	FIX	2.0	0.8	1	20		5.0	40n	4.0n			0.3	0	7	3	J01-51	MD14I
58	HY5100-045M	TTL	FIX	2.0	0.8	1	20		5.0	45n	4.0n			0.3	5	C	3	J01-51	MD14I
59	HY5100-045R	TTL	FIX	2.0	0.8	1	20		5.0	45n	4.0n			0.3	0	7	3	J01-51	MD14I
60	HY5100-050M	TTL	FIX	2.0	0.8	1	20		5.0	50n	4.0n			0.3	5	C	3	J01-51	MD14I
61	HY5100-050R	TTL	FIX	2.0	0.8	1	20		5.0	50n	4.0n			0.3	0	7	3	J01-51	MD14I
62♦	MDM5	TTL	FIX	2.0	0.8	1			5.0	5.0n	4.0n			0.3			3	J01-32	DIP8d
63♦	MDM10	TTL	FIX	2.0	0.8	1			5.0	10n	4.0n			0.3			3	J01-32	DIP8d
64♦	MDM25	TTL	FIX	2.0	0.8	1			5.0	25n	4.0n			0.3			3	J01-32	DIP8d
65♦	MDM50	TTL	FIX	2.0	0.8	1			5.0	50n	4.0n			0.3			3	J01-32	DIP8d
66♦	MDM100	TTL	FIX	2.0	0.8	1			5.0	100n	4.0n			0.3			3	J01-32	DIP8d
67	MDU3-5	TTL	FIX			1		0	5.0	5.0n	4.0n		500m		0	7	3	J02-7	MD30b
68	MDU3-10	TTL	FIX			1		0	5.0	10n	4.0n		500m		0	7	3	J02-7	MD30b
69	MDU3-15	TTL	FIX			1		0	5.0	15n	4.0n		500m		0	7	3	J02-7	MD30b
70	MDU3-20	TTL	FIX			1		0	5.0	20n	4.0n		500m		0	7	3	J02-7	MD30b
71	MDU3-25	TTL	FIX			1		0	5.0	25n	4.0n		500m		0	7	3	J02-7	MD30b
72	MDU3-30	TTL	FIX			1		0	5.0	30n	4.0n		500m		0	7	3	J02-7	MD30b
73	MDU3-35	TTL	FIX			1		0	5.0	35n	4.0n		500m		0	7	3	J02-7	MD30b
74	MDU3-40	TTL	FIX			1		0	5.0	40n	4.0n		500m		0	7	3	J02-7	MD30b
75	MDU3-45	TTL	FIX			1		0	5.0	45n	4.0n		500m		0	7	3	J02-7	MD30b
76	MDU3-50	TTL	FIX			1		0	5.0	50n	4.0n		500m		0	7	3	J02-7	MD30b
77	MDU3-60	TTL	FIX			1		0	5.0	60n	4.0n		500m		0	7	3	J02-7	MD30b
78	MDU3-75	TTL	FIX			1		0	5.0	75n	4.0n		500m		0	7	3	J02-7	MD30b
79	MDU3-100	TTL	FIX			1		0	5.0	100n	4.0n		500m		0	7	3	J02-7	MD30b
80	MDU3F5	TTL	FIX	2.0	0.8	1			5.0	5.0n	2.0n				0	7	3	J02-7	MD14N
81♦	MDU3F6	TTL	FIX	2.0	0.8				5.0	6.0n	2.0n†				0	7	3	J02-7	DIP8 ☑
82♦	MDU3F8	TTL	FIX	2.0	0.8				5.0	8.0n	2.0n†				0	7	3	J02-7	DIP8 ☑
83♦	MDU3F10	TTL	FIX	2.0	0.8				5.0	10n	2.0n†				0	7	3	J02-7	DIP8 ☑
84	MDU3F15	TTL	FIX	2.0	0.8	1			5.0	15n	2.0n				0	7	3	J02-7	MD14N
85♦	MDU3F16	TTL	FIX	2.0	0.8				5.0	16n	2.0n†				0	7	3	J02-7	DIP8 ☑
86	MDU3F20	TTL	FIX	2.0	0.8	1			5.0	20n	2.0n				0	7	3	J02-7	MD14N
87	MDU3F25	TTL	FIX	2.0	0.8	1			5.0	25n	2.0n				0	7	3	J02-7	MD14N
88	MDU3F30	TTL	FIX	2.0	0.8	1			5.0	30n	2.0n				0	7	3	J02-7	MD14N
89	MDU3F35	TTL	FIX	2.0	0.8	1			5.0	35n	2.0n				0	7	3	J02-7	MD14N
90	MDU3F40	TTL	FIX	2.0	0.8	1			5.0	40n	2.0n				0	7	3	J02-7	MD14N
91	MDU3F45	TTL	FIX	2.0	0.8	1			5.0	45n	2.0n				0	7	3	J02-7	MD14N
92	MDU3F50	TTL	FIX	2.0	0.8	1			5.0	50n	2.0n				0	7	3	J02-7	MD14N
93	MDU3F60	TTL	FIX	2.0	0.8	1			5.0	60n	2.0n				0	7	3	J02-7	MD14N
94	MDU3F75	TTL	FIX	2.0	0.8	1			5.0	75n	2.0n				0	7	3	J02-7	MD14N
95	MDU3F100	TTL	FIX	2.0	0.8	1			5.0	100n	2.0n				0	7	3	J02-7	MD14N
96♦	MSDM5	TTL	FIX	2.0	0.8	1			5.0	5.0n	4.0n			0.3			3	J01-33	DIP14e
97♦	MSDM10	TTL	FIX	2.0	0.8	1			5.0	10n	4.0n			0.3			3	J01-33	DIP14e
98♦	MSDM25	TTL	FIX	2.0	0.8	1			5.0	25n	4.0n			0.3			3	J01-33	DIP14e
99♦	MSDM50	TTL	FIX	2.0	0.8	1			5.0	50n	4.0n			0.3			3	J01-33	DIP14e
100♦	MSDM100	TTL	FIX	2.0	0.8	1			5.0	100n	4.0n			0.3			3	J01-33	DIP14e
101♦	MSDM150	TTL	FIX	2.0	0.8	1			5.0	150n	4.0n			0.3			3	J01-33	DIP14e
102♦	MSDM200	TTL	FIX	2.0	0.8	1			5.0	200n	4.0n			0.3			3	J01-33	DIP14e
103♦	MDU14-2	ECL	FIX	-.96	1.6-	1		5.2		2.0n	2.0n†				3	8	4	J01-70	DIP24 ☑
104♦	MDU14-2.5	ECL	FIX	-.96	1.6-	1		5.2		2.5n	2.0n†				3	8	4	J01-70	DIP24 ☑
105♦	MDU14-3	ECL	FIX	-.96	1.6-	1		5.2		3.0n	2.0n†				3	8	4	J01-70	DIP24 ☑
106♦	MDU14-4	ECL	FIX	-.96	1.6-	1		5.2		4.0n	2.0n†				3	8	4	J01-70	DIP24 ☑
107♦	MDU14-5	ECL	FIX	-.96	1.6-	1		5.2		5.0n	2.0n†				3	8	4	J01-70	DIP24 ☑
108♦	MDU14-6	ECL	FIX	-.96	1.6-	1		5.2		6.0n	2.0n†				3	8	4	J01-70	DIP24 ☑
109♦	MDU14-7	ECL	FIX	-.96	1.6-	1		5.2		7.0n	2.0n†				3	8	4	J01-70	DIP24 ☑
110♦	MDU14-8	ECL	FIX	-.96	1.6-	1		5.2		8.0n	2.0n†				3	8	4	J01-70	DIP24 ☑

10. TIME DELAYS - Fixed Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] TYPE DELAY	D A Y	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	MDU14-9	ECL	FIX		-.96	1.6-	1		5.2		9.0n	2.0n†				3	8	4	J01-70	DIP24 ☑
2♦	MDU14-10	ECL	FIX		-.96	1.6-	1		5.2		10n	2.0n†				3	8	4	J01-70	DIP24 ☑
3♦	MDU14-12.5	ECL	FIX		-.96	1.6-	1		5.2		12n	2.0n†				3	8	4	J01-70	DIP24 ☑
4♦	MDU14-15	ECL	FIX		-.96	1.6-	1		5.2		15n	2.0n†				3	8	4	J01-70	DIP24 ☑
5♦	MDU14-20	ECL	FIX		-.96	1.6-	1		5.2		20n	2.0n†				3	8	4	J01-70	DIP24 ☑
6	MDU4-5	TTL	FIX				1		0	5.0	5.0n	4.0n		740m		0	7	4	J02-19	MD30b
7	MDU4-10	TTL	FIX				1		0	5.0	10n	4.0n		740m		0	7	4	J02-19	MD30b
8	MDU4-15	TTL	FIX				1		0	5.0	15n	4.0n		740m		0	7	4	J02-19	MD30b
9	MDU4-20	TTL	FIX				1		0	5.0	20n	4.0n		740m		0	7	4	J02-19	MD30b
10	MDU4-25	TTL	FIX				1		0	5.0	25n	4.0n		740m		0	7	4	J02-19	MD30b
11	MDU4-30	TTL	FIX				1		0	5.0	30n	4.0n		740m		0	7	4	J02-19	MD30b
12	MDU4-35	TTL	FIX				1		0	5.0	35n	4.0n		740m		0	7	4	J02-19	MD30b
13	MDU4-40	TTL	FIX				1		0	5.0	40n	4.0n		740m		0	7	4	J02-19	MD30b
14	MDU4-45	TTL	FIX				1		0	5.0	45n	4.0n		740m		0	7	4	J02-19	MD30b
15	MDU4-50	TTL	FIX				1		0	5.0	50n	4.0n		740m		0	7	4	J02-19	MD30b

DELAY LINE, VARIABLE

19♦	MN3007(2)	PCH	VAR						15	0	51m	500n	500n			2	6		J03-8	DIP8a
20	DDU37-25	TTL	VAR			1	20	0	5.0	25n	4.0n			375m		0	7		J02-17	MD30e
21	DDU37-30	TTL	VAR			1	20	0	5.0	30n	4.0n			375m		0	7		J02-17	MD30e
22	DDU37-40	TTL	VAR			1	20	0	5.0	40n	4.0n			375m		0	7		J02-17	MD30e
23	DDU37-50	TTL	VAR			1	20	0	5.0	50n	4.0n			375m		0	7		J02-17	MD30e
24	DDU37-60	TTL	VAR			1	20	0	5.0	60n	4.0n			375m		0	7		J02-17	MD30e
25	DDU37-70	TTL	VAR			1	20	0	5.0	70n	4.0n			375m		0	7		J02-17	MD30e
26	DDU37-80	TTL	VAR			1	20	0	5.0	80n	4.0n			375m		0	7		J02-17	MD30e
27	DDU37-100	TTL	VAR			1	20	0	5.0	100n	4.0n			375m		0	7		J02-17	MD30e
28	DDU37-120	TTL	VAR			1	20	0	5.0	110n	4.0n			375m		0	7		J02-17	MD30e
29	DDU37-150	TTL	VAR			1	20	0	5.0	150n	4.0n			375m		0	7		J02-17	MD30e
30	DDU37-200	TTL	VAR			1	20	0	5.0	190n	4.0n			375m		0	7		J02-17	MD30e
31	DDU39	TTL	VAR			1	20	0	5.0	28n	4.0n			375m		0	7		J02-17	MD30f
32♦	MN3307	MOS	VAR					0.3	6.0	51m	500n	500n				2	6	1	J03-16	DIP8a
33♦	MN3204	NCH	VAR					0	5.0	25m						2	6	1	J03-12	DIP8a
34♦	MN3206	NCH	VAR					0	5.0	6.4m						2	7	1	J03-7	DIP8a
35♦	MN3207	NCH	VAR					0	5.0	51m						2	6	1	J03-8	DIP8a
36♦	MN3209	NCH	VAR					0	5.0	12m						2	6	1	J03-8	DIP8a
37♦	MN3004(2)	PCH	VAR					15	0	25m	500n	500n				2	6	1	J03-5	DIP14a
38♦	MN3005(2)	PCH	VAR					15	0	204m	500n	500n				2	6	1	J03-6	DIP8
39♦	MN3006(2)	PCH	VAR					15	0	6.4m	500n	500n				2	6	1	J03-7	DIP8a
40♦	MN3008(2)	PCH	VAR					15	0	102m	500n	500n				2	6	1	J03-9	DIP8
41♦	MN3009(2)	PCH	VAR					15	0	12m	500n	500m				2	6	1	J03-8a	DIP8a
42	60A014	TTL	VAR	3.2		1		0	5.0	14n	4.0n			450m		0	7	1	J02-11	MD27
43	60A021	TTL	VAR	3.2		1		0	5.0	21n	4.0n			450m		0	7	1	J02-11	MD27
44	60A028	TTL	VAR	3.2		1		0	5.0	28n	4.0n			450m		0	7	1	J02-11	MD27
45	60A035	TTL	VAR	3.2		1		0	5.0	35n	4.0n			450m		0	7	1	J02-11	MD27
46	60A042	TTL	VAR	3.2		1		0	5.0	42n	4.0n			450m		0	7	1	J02-11	MD27
47	60A049	TTL	VAR	3.2		1		0	5.0	49n	4.0n			450m		0	7	1	J02-11	MD27
48	60A056	TTL	VAR	3.2		1		0	5.0	56n	4.0n			450m		0	7	1	J02-11	MD27
49	60A063	TTL	VAR	3.2		1		0	5.0	63n	4.0n			450m		0	7	1	J02-11	MD27
50	60A070	TTL	VAR	3.2		1		0	5.0	70n	4.0n			450m		0	7	1	J02-11	MD27
51	60A077	TTL	VAR	3.2		1		0	5.0	77n	4.0n			450m		0	7	1	J02-11	MD27
52	60A084	TTL	VAR	3.2		1		0	5.0	84n	4.0n			450m		0	7	1	J02-11	MD27
53	60A091	TTL	VAR	3.2		1		0	5.0	91n	4.0n			450m		0	7	1	J02-11	MD27
54	DDU4F2020	TTL	VAR			1	25	0	5.0	20n	2.0n			168		0	7	1	J02-13	MD30b
55	DDU4F2040	TTL	VAR			1	25	0	5.0	40n	2.0n			168		0	7	1	J02-13	MD30b
56	DDU4F2050	TTL	VAR			1	25	0	5.0	50n	2.0n			168		0	7	1	J02-13	MD30b
57	DDU4F2060	TTL	VAR			1	25	0	5.0	60n	2.0n			168		0	7	1	J02-13	MD30b
58	DDU4F2080	TTL	VAR			1	25	0	5.0	80n	2.0n			168		0	7	1	J02-13	MD30b
59	DDU4F2100	TTL	VAR			1	25	0	5.0	100n	2.0n			168		0	7	1	J02-13	MD30b
60	DDU4F2150	TTL	VAR			1	25	0	5.0	150n	2.0n			168		0	7	1	J02-13	MD30b
61	DDU4F2200	TTL	VAR			1	25	0	5.0	200n	2.0n			168		0	7	1	J02-13	MD30b
62	DDU4F2300	TTL	VAR			1	25	0	5.0	300n	2.0n			168		0	7	1	J02-13	MD30b
63	DDU4F2400	TTL	VAR			1	25	0	5.0	400n	2.0n			168		0	7	1	J02-13	MD30b
64	DDU4F2500	TTL	VAR			1	25	0	5.0	500n	2.0n			168m		0	7	1	J02-13	MD30b
65	DDU4F7690A	TTL	VAR			1	25	0	5.0	110n	2.0n			168m		0	7	1	J02-13	MD30b
66♦	DDU8F5125	TTL	TAP			1		0	5.0	125n	2.0n			168m		0	7	1	J02-6	MD30d
67	DDU37F25	TTL	VAR	2.0	0.8	1			5.0	25n	4.0n†				230m	0	7	1	J02-17	MD30e
68	DDU37F30	TTL	VAR	2.0	0.8	1			5.0	30n	4.0n†				230m	0	7	1	J02-17	MD30e
69	DDU37F40	TTL	VAR	2.0	0.8	1			5.0	40n	4.0n†				230m	0	7	1	J02-17	MD30e
70	DDU37F50	TTL	VAR	2.0	0.8	1			5.0	50n	4.0n†				230m	0	7	1	J02-17	MD30e
71	DDU37F60	TTL	VAR	2.0	0.8	1			5.0	60n	4.0n†				230m	0	7	1	J02-17	MD30e
72	DDU37F70	TTL	VAR	2.0	0.8	1			5.0	70n	4.0n†				230m	0	7	1	J02-17	MD30e
73	DDU37F80	TTL	VAR	2.0	0.8	1			5.0	80n	4.0n†				230m	0	7	1	J02-17	MD30e
74	DDU37F100	TTL	VAR	2.0	0.8	1			5.0	100n	4.0n†				230m	0	7	1	J02-17	MD30e
75	DDU37F120	TTL	VAR	2.0	0.8	1			5.0	110n	4.0n†				230m	0	7	1	J02-17	MD30e
76	DDU37F150	TTL	VAR	2.0	0.8	1			5.0	150n	4.0n†				230m	0	7	1	J02-17	MD30e
77	DDU37F200	TTL	VAR	2.0	0.8	1			5.0	200n	4.0n†				230m	0	7	1	J02-17	MD30e
78♦	DDU39F	TTL	VAR	2.0	0.8	1			5.0	132n	4.0n†				230m	0	7	1	J02-17	DIP16 ☑
79♦	TDB2608DP	TTL	VAR	8.0	7.0			0	35					600m		0	7	1	J03-15	DIP14b
80♦	TDE2608DP	TTL	VAR	8.0	7.0			0	40					600m		2	8	1	J03-15	DIP14b
81♦	MN3210(1)	NCH	VAR					0	5.0	51m						2	6	2	J03-14	DIP14a
82♦	MN3003(2)	PCH	VAR					9.0	0	6.4m						2	6	2	J03-4	DIP14a
83♦	MN3010(1)	PCH	VAR					15	0	2.5m	500n	500n				2	6	2	J03-10	DIP14 ☑
84♦	MN3012	PCH	VAR					18	0	.47m	500n	500n				2	6	3	J03-12	DIP14a

DELAY LINE, DIGITALLY PROGRAMMABLE

88♦	SAB0529	BIP	PTD							5.0						0	7		K07-46	DIP18a
89▼	SAB0529G	BIP	PTD		0.3					5.0						0	7		K07-46	FP169
90	PDU138-15	TTL	PTD			1		0	5.0	105n	4.0n			200m		0	7		J02-20	MD30a
91	PDU138-20	TTL	PTD			1		0	5.0	140n	4.0n			200m		0	7		J02-20	MD30a
92	PDU138-40	TTL	PTD			1		0	5.0	280n	4.0n			200m		0	7		J02-20	MD30a
93	PDU138-50	TTL	PTD			1		0	5.0	350n	4.0n			200m		0	7		J02-20	MD30a
94	PDU713-1	TTL	PTD			1		0	5.0	7.0n	4.0n			740m		0	7		J02-21	MD30b
95	PDU713-2	TTL	PTD			1		0	5.0	14n	4.0n			740m		0	7		J02-21	MD30b
96	PDU713-3	TTL	PTD			1		0	5.0	21n	4.0n			740m		0	7		J02-21	MD30b
97	PDU713-5	TTL	PTD			1		0	5.0	35n	4.0n			740m		0	7		J02-21	MD30b
98	PDU713-10	TTL	PTD			1		0	5.0	70n	4.0n			740m		0	7		J02-21	MD30b
99	PDU713-15	TTL	PTD			1		0	5.0	105n	4.0n			740m		0	7		J02-21	MD30b
100	PDU713-20	TTL	PTD			1		0	5.0	140n	4.0n			740m		0	7		J02-21	MD30b
101	PDU713-40	TTL	PTD			1		0	5.0	280n	4.0n			740m		0	7		J02-21	MD30b
102	PDU713-50	TTL	PTD			1		0	5.0	350n	4.0n			740m		0	7		J02-21	MD30b
103	PDU713.5	TTL	PTD			1		0	5.0	3.5n	4.0n			740m		0	7		J02-21	MD30b
104	PDU1316-1	TTL	PTD			1		0	5.0	15n	4.0n			740m		0	7		J02-22	MD30g
105	PDU1316-2	TTL	PTD			1		0	5.0	30n	4.0n			740m		0	7		J02-22	MD30g
106	PDU1316-3	TTL	PTD			1		0	5.0	45n	4.0n			740m		0	7		J02-22	MD30g
107	PDU1316-4	TTL	PTD			1		0	5.0	60n	4.0n			740m		0	7		J02-22	MD30g
108	PDU1316-5	TTL	PTD			1		0	5.0	75n	4.0n			740m		0	7		J02-22	MD30g
109	PDU1316-6	TTL	PTD			1		0	5.0	90n	4.0n			740m		0	7		J02-22	MD30g
110	PDU1316-8	TTL	PTD			1		0	5.0	120n	4.0n			740m		0	7		J02-22	MD30g

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Digitally Programmable Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] DELAY TYPE	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1	PDU1316-10	TTL	PTD			1		0	5.0	150n	4.0n		740m		0	7		J02-22	MD30g
2	PDU1316-12	TTL	PTD			1		0	5.0	180n	4.0n		740m		0	7		J02-22	MD30g
3	ECLPG301	ECL	PTD			1	70	5.2	0	11n					0	7	1	J01-23	MD47
4	ECLPG301M	ECL	PTD			1	70	5.2	0	11n					5	C	1	J01-23	MD47
5	ECLPG302	ECL	PTD			1	70	5.2	0	17n					0	7	1	J01-23	MD47
6	ECLPG302M	ECL	PTD			1	70	5.2	0	17n					5	C	1	J01-23	MD47
7	ECLPG303	ECL	PTD			1	70	5.2	0	24n					0	7	1	J01-23	MD47
8	ECLPG303M	ECL	PTD			1	70	5.2	0	24n					5	C	1	J01-23	MD47
9	ECLPG304	ECL	PTD			1	70	5.2	0	31n					0	7	1	J01-23	MD47
10	ECLPG304M	ECL	PTD			1	70	5.2	0	31n					5	C	1	J01-23	MD47
11	ECLPG305	ECL	PTD			1	70	5.2	0	38n					0	7	1	J01-23	MD47
12	ECLPG305M	ECL	PTD			1	70	5.2	0	38n					5	C	1	J01-23	MD47
13	ECLPG306	ECL	PTD			1	70	5.2	0	45n					0	7	1	J01-23	MD47
14	ECLPG306M	ECL	PTD			1	70	5.2	0	45n					5	C	1	J01-23	MD47
15	ECLPG307	ECL	PTD			1	70	5.2	0	52n					0	7	1	J01-23	MD47
16	ECLPG307M	ECL	PTD			1	70	5.2	0	52n					5	C	1	J01-23	MD47
17	ECLPG308	ECL	PTD			1	70	5.2	0	59n					0	7	1	J01-23	MD47
18	ECLPG308M	ECL	PTD			1	70	5.2	0	59n					5	C	1	J01-23	MD47
19	ECLPG309	ECL	PTD			1	70	5.2	0	66n					0	7	1	J01-23	MD47
20	ECLPG309M	ECL	PTD			1	70	5.2	0	66n					5	C	1	J01-23	MD47
21	ECLPG310	ECL	PTD			1	70	5.2	0	73n					0	7	1	J01-23	MD47
22	ECLPG310M	ECL	PTD			1	70	5.2	0	73n					5	C	1	J01-23	MD47
23	ECLPG315	ECL	PTD			1	70	5.2	0	108n					0	7	1	J01-23	MD47
24	ECLPG315M	ECL	PTD			1	70	5.2	0	108n					5	C	1	J01-23	MD47
25	ECLPG320	ECL	PTD			1	70	5.2	0	143n					0	7	1	J01-23	MD47
26	ECLPG320M	ECL	PTD			1	70	5.2	0	143n					5	C	1	J01-23	MD47
27	ECLPG325	ECL	PTD			1	70	5.2	0	178n					0	7	1	J01-23	MD47
28	ECLPG325M	ECL	PTD			1	70	5.2	0	178n					5	C	1	J01-23	MD47
29	ECLPG330	ECL	PTD			1	70	5.2	0	213n					0	7	1	J01-23	MD47
30	ECLPG330M	ECL	PTD			1	70	5.2	0	213n					5	C	1	J01-23	MD47
31	ECLPG335	ECL	PTD			1	70	5.2	0	248n					0	7	1	J01-23	MD47
32	ECLPG335M	ECL	PTD			1	70	5.2	0	248n					5	C	1	J01-23	MD47
33	ECLPG340	ECL	PTD			1	70	5.2	0	283n					0	7	1	J01-23	MD47
34	ECLPG340M	ECL	PTD			1	70	5.2	0	283n					5	C	1	J01-23	MD47
35	ECLPG345	ECL	PTD			1	70	5.2	0	318n					0	7	1	J01-23	MD47
36	ECLPG345M	ECL	PTD			1	70	5.2	0	318n					5	C	1	J01-23	MD47
37	ECLPG350	ECL	PTD			1	70	5.2	0	353n					0	7	1	J01-23	MD47
38	ECLPG350M	ECL	PTD			1	70	5.2	0	353n					5	C	1	J01-23	MD47
39	EKLPG010	ECL	PTD			1	70	4.5	0	17n					0	8	1	J01-22	MD46
40	EKLPG015	ECL	PTD			1	70	4.5	0	24n					0	8	1	J01-22	MD46
41	EKLPG020	ECL	PTD			1	70	4.5	0	32n					0	8	1	J01-22	MD46
42	EKLPG025	ECL	PTD			1	70	4.5	0	39n					0	8	1	J01-22	MD46
43	EKLPG030	ECL	PTD			1	70	4.5	0	47n					0	8	1	J01-22	MD46
44	EKLPG035	ECL	PTD			1	70	4.5	0	54n					0	8	1	J01-22	MD46
45	EKLPG040	ECL	PTD			1	70	4.5	0	62n					0	8	1	J01-22	MD46
46	EKLPG045	ECL	PTD			1	70	4.5	0	69n					0	8	1	J01-22	MD46
47	EKLPG050	ECL	PTD			1	70	4.5	0	77n					0	8	1	J01-22	MD46
48	EKLPG060	ECL	PTD			1	70	4.5	0	92n					0	8	1	J01-22	MD46
49	EKLPG070	ECL	PTD			1	70	4.5	0	107n					0	8	1	J01-22	MD46
50	EKLPG080	ECL	PTD			1	70	4.5	0	122n					0	8	1	J01-22	MD46
51	EKLPG090	ECL	PTD			1	70	4.5	0	137n					0	8	1	J01-22	MD46
52	EKLPG100	ECL	PTD			1	70	4.5	0	152n					0	8	1	J01-22	MD46
53	EKLPGR10	ECL	PTD			1	70	4.5	0	3.5n					0	8	1	J01-22	MD46
54	EKLPGR25	ECL	PTD			1	70	4.5	0	5.7n					0	8	1	J01-22	MD46
55	EKLPGR50	ECL	PTD			1	70	4.5	0	9.5n					0	8	1	J01-22	MD46
56	EKLPGR75	ECL	PTD			1	70	4.5	0	13n					0	8	1	J01-22	MD46
57	PDU108-1	ECL	PTD			1		-5.2	0	3.5n			290m		0	7	1	J02-27	MD30a
58	PDU108-2	ECL	PTD			1		-5.2	0	3.5n			290m		0	7	1	J02-27	MD30a
59	PDU108-3	ECL	PTD			1		-5.2	0	3.5n			290m		0	7	1	J02-27	MD30a
60	PDU108-5	ECL	PTD			1		-5.2	0	3.5n			290m		0	7	1	J02-27	MD30a
61	PDU108-10	ECL	PTD			1		-5.2	0	3.5n			290m		0	7	1	J02-27	MD30a
62	PDU108-20	ECL	PTD			1		-5.2	0	3.5n			290m		0	7	1	J02-27	MD30a
63	PDU108-40	ECL	PTD			1		-5.2	0	3.5n			290m		0	7	1	J02-27	MD30a
64	PDU108-50	ECL	PTD			1		-5.2	0	3.5n			290m		0	7	1	J02-27	MD30a
65	PDU108H1	ECL	PTD	-.98	1.6-	1		-5.0	0	7n	2.8n		290m		0	7	1	J02-27	MD30a
66	PDU108H2	ECL	PTD	-.98	1.6-	1		-5.0	0	14n	2.8n		290m		0	7	1	J02-27	MD30a
67	PDU108H3	ECL	PTD	-.98	1.6-	1		-5.0	0	21n	2.8n		290m		0	7	1	J02-27	MD30a
68	PDU108H4	ECL	PTD			1		5.0		30n				290m	0	7	1	J02-27	MD30a
69	PDU108H5	ECL	PTD	-.98	1.6-	1		-5.0	0	35n	2.8n		290m		0	7	1	J02-27	MD30a
70	PDU108H6	ECL	PTD			1		5.0		44n				290m	0	7	1	J02-27	MD30a
71	PDU108H7	ECL	PTD			1		5.0		51n				290m	0	7	1	J02-27	MD30a
72	PDU108H8	ECL	PTD			1		5.0		58n				290m	0	7	1	J02-27	MD30a
73	PDU108H9	ECL	PTD			1		5.0		65n				290m	0	7	1	J02-27	MD30a
74	PDU108H10	ECL	PTD	-.98	1.6-	1		-5.0	0	70n	2.8n		290m		0	7	1	J02-27	MD30a
75	PDU108H12	ECL	PTD			1		5.0		86n				290m	0	7	1	J02-27	MD30a
76	PDU108H20	ECL	PTD	-.98	1.6-	1		-5.0	0	140n	2.8n		290m		0	7	1	J02-27	MD30a
77	PDU108H25	ECL	PTD			1		5.0		177n				290m	0	7	1	J02-27	MD30a
78	PDU108H30	ECL	PTD			1		5.0		212n				290m	0	7	1	J02-27	MD30a
79	PDU108H35	ECL	PTD			1		5.0		247n				290m	0	7	1	J02-27	MD30a
80	PDU108H40	ECL	PTD	-.98	1.6-	1		-5.0	0	280n	2.8n		290m		0	7	1	J02-27	MD30a
81	PDU108H45	ECL	PTD			1		5.0		317n				290m	0	7	1	J02-27	MD30a
82	PDU108H50	ECL	PTD	-.98	1.6-	1		-5.0	0	350n	2.8n		290m		0	7	1	J02-27	MD30a
83	PDU108H.5	ECL	PTD	-.98	1.6-	1		-5.0	0	3.5n	2.8n		290m		0	7	1	J02-27	MD30a
84	PDU108.5	ECL	PTD			1		-5.2	0	3.5n			290m		0	7	1	J02-27	MD30a
85	PDU1016-1	ECL	PTD			1		-5.0	0	15n			615m		0	7	1	J02-28	MD30g
86	PDU1016-2	ECL	PTD			1		-5.0	0	30n			615m		0	7	1	J02-28	MD30g
87	PDU1016-3	ECL	PTD			1		-5.0	0	45n			615m		0	7	1	J02-28	MD30g
88	PDU1016-4	ECL	PTD			1		-5.0	0	60n			615m		0	7	1	J02-28	MD30g
89	PDU1016-6	ECL	PTD			1		-5.0	0	90n			615m		0	7	1	J02-28	MD30g
90	PDU1016-8	ECL	PTD			1		-5.0	0	120n			615m		0	7	1	J02-28	MD30g
91	PDU1016-10	ECL	PTD			1		-5.0	0	150n			615m		0	7	1	J02-28	MD30g
92	PDU1016-12	ECL	PTD			1		-5.0	0	180n			615m		0	7	1	J02-28	MD30g
93	PDU1016-15	ECL	PTD			1		-5.0	0	225n			615m		0	7	1	J02-28	MD30g
94	PDU1016-20	ECL	PTD			1		-5.0	0	300n			615m		0	7	1	J02-28	MD30g
95	PDU1016-25	ECL	PTD			1		-5.0	0	375n			615m		0	7	1	J02-28	MD30g
96	PDU1016-30	ECL	PTD			1		-5.0	0	450n			615m		0	7	1	J02-28	MD30g
97	PDU1016-35	ECL	PTD			1		-5.0	0	525n			615m		0	7	1	J02-28	MD30g
98	PDU1016-40	ECL	PTD			1		-5.0	0	600n			615m		0	7	1	J02-28	MD30g
99	PDU1016-45	ECL	PTD			1		-5.0	0	675n			615m		0	7	1	J02-28	MD30g
100	PDU1016-50	ECL	PTD			1		-5.0	0	750n			615m		0	7	1	J02-28	MD30g
101	PDU1016-60	ECL	PTD			1		-5.0	0	900n			615m		0	7	1	J02-28	MD30g
102	PDU1016-80	ECL	PTD			1		-5.0	0	1.2m			615m		0	7	1	J02-28	MD30g
103	PDU1016-100	ECL	PTD			1		-5.0	0	1.5m			615m		0	7	1	J02-28	MD30g
104	PDU1016H1	ECL	PTD			1		-5.0	0	15n	3.6n		615m		0	7	1	J02-28	MD30g
105	PDU1016H2	ECL	PTD			1		-5.0	0	30n	3.6n		615m		0	7	1	J02-28	MD30g
106	PDU1016H3	ECL	PTD			1		-5.0	0	45n	3.6n		615m		0	7	1	J02-28	MD30g
107	PDU1016H4	ECL	PTD			1		-5.0	0	60n	3.6n		615m		0	7	1	J02-28	MD30g
108	PDU1016H5	ECL	PTD			1		-5.0	0	75n	3.6n		615m		0	7	1	J02-28	MD30g
109	PDU1016H6	ECL	PTD			1		-5.0	0	90n	3.6n		615m		0	7	1	J02-28	MD30g
110	PDU1016H7	ECL	PTD			1		5.0		110n				615m	0	7	1	J02-28	MD30g

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Digitally Programmable Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	3 TECH	1 TYPE	D E L A Y	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN IN	OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	2 CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1	PDU1016H8	ECL	PTD				1		-5.0	0	120n	3.6n		615m		0	7	1	J02-28	MD30g
2	PDU1016H9	ECL	PTD				1		5.0		140n				615m	0	7	1	J02-28	MD30g
3	PDU1016H10	ECL	PTD				1		-5.0	0	150n	3.6n		615m		0	7	1	J02-28	MD30g
4	PDU1016H12	ECL	PTD				1		-5.0	0	180n	3.6n		615m		0	7	1	J02-28	MD30g
5	PDU1016H15	ECL	PTD				1		-5.0	0	215n	3.6n		615m		0	7	1	J02-28	MD30g
6	PDU1016H20	ECL	PTD				1		-5.0	0	300n	3.6n		615m		0	7	1	J02-28	MD30g
7	PDU1016H25	ECL	PTD				1		-5.0	0	375n	3.6n		615m		0	7	1	J02-28	MD30g
8	PDU1016H30	ECL	PTD				1		-5.0	0	450n	3.6n		615m		0	7	1	J02-28	MD30g
9	PDU1016H35	ECL	PTD				1		-5.0	0	525n	3.6n		615m		0	7	1	J02-28	MD30g
10	PDU1016H40	ECL	PTD				1		-5.0	0	600n	3.6n		615m		0	7	1	J02-28	MD30g
11	PDU1016H45	ECL	PTD				1		-5.0	0	675n	3.6n		615m		0	7	1	J02-28	MD30g
12	PDU1016H50	ECL	PTD				1		-5.0	0	750n	3.6n		615m		0	7	1	J02-28	MD30g
13	PDU1016H60	ECL	PTD				1		-5.0	0	900n	3.6n		615m		0	7	1	J02-28	MD30g
14	PDU1016H80	ECL	PTD				1		-5.0	0	1.2u	3.6n		615m		0	7	1	J02-28	MD30g
15	PDU1016H100	ECL	PTD				1		-5.0	0	1.5u	3.6n		615m		0	7	1	J02-28	MD30g
16	PDU1016H.5	ECL	PTD				1		-5.0	0	7.5n	3.6n		615m		0	7	1	J02-28	MD30g
17	PDU1016.5	ECL	PTD				1		-5.0	0	75n			615m		0	7	1	J02-28	MD30g
18	PDU1032H1	ECL	PTD				1		-5.0	0	31n	3.6n		615m		0	7	1	J02-30	MD30g
19	PDU1032H2	ECL	PTD				1		-5.0	0	62n	3.6n		615m		0	7	1	J02-30	MD30g
20	PDU1032H3	ECL	PTD				1		-5.0	0	93n	3.6n		615m		0	7	1	J02-30	MD30g
21	PDU1032H4	ECL	PTD				1		-5.0	0	124n	3.6n		615m		0	7	1	J02-30	MD30g
22	PDU1032H5	ECL	PTD				1		-5.0	0	155n	3.6n		615m		0	7	1	J02-30	MD30g
23	PDU1032H6	ECL	PTD				1		-5.0	0	186n	3.6n		615m		0	7	1	J02-30	MD30g
24	PDU1032H8	ECL	PTD				1		-5.0	0	248n	3.6n		615m		0	7	1	J02-30	MD30g
25	PDU1032H10	ECL	PTD				1		-5.0	0	310n	3.6n		615m		0	7	1	J02-30	MD30g
26	PDU1032H12	ECL	PTD				1		-5.0	0	371n	3.6n		615m		0	7	1	J02-30	MD30g
27	PDU1032H15	ECL	PTD				1		-5.0	0	465n	3.6n		615m		0	7	1	J02-30	MD30g
28	PDU1032H20	ECL	PTD				1		-5.0	0	620n	3.6n		615m		0	7	1	J02-30	MD30g
29	PDU1032H.5	ECL	PTD				1		-5.0	0	16n	3.6n		615m		0	7	1	J02-30	MD30g
30	PDU1064H0.5	ECL	PTD				1		5.0		43n			925m		0	7	1	J01-61	MD48A
31	PDU1064H1	ECL	PTD				1		5.0		75n			925m		0	7	1	J01-61	MD48A
32	PDU1064H2	ECL	PTD				1		5.0		138n			925m		0	7	1	J01-61	MD48A
33	PDU1064H3	ECL	PTD				1		5.0		201n			925m		0	7	1	J01-61	MD48A
34	PDU1064H4	ECL	PTD				1		5.0		264n			925m		0	7	1	J01-61	MD48A
35	PDU1064H5	ECL	PTD				1		5.0		327n			925m		0	7	1	J01-61	MD48A
36	PDU1064H6	ECL	PTD				1		5.0		390n			925m		0	7	1	J01-61	MD48A
37	PDU1064H8	ECL	PTD				1		5.0		516n			925m		0	7	1	J01-61	MD48A
38	PDU1064H10	ECL	PTD				1		5.0		642n			925m		0	7	1	J01-61	MD48A
39	PDU10256-1	ECL	PTD				1		-5.0	0	255n			925m		0	7	1	J02-29	MD30h
40	PDU10256-2	ECL	PTD				1		-5.0	0	510n			925m		0	7	1	J02-29	MD30h
41	PDU10256-3	ECL	PTD				1		-5.0	0	765n			925m		0	7	1	J02-29	MD30h
42	PDU10256-4	ECL	PTD				1		-5.0	0	1.0u			925m		0	7	1	J02-29	MD30h
43	PDU10256-5	ECL	PTD				1		-5.0	0	1.2u			925m		0	7	1	J02-29	MD30h
44	PDU10256-6	ECL	PTD				1		-5.0	0	1.5u			925m		0	7	1	J02-29	MD30h
45	PDU10256-7	ECL	PTD				1		-5.0	0	1.7u			925m		0	7	1	J02-29	MD30h
46	PDU10256-8	ECL	PTD				1		-5.0	0	2.0u			925m		0	7	1	J02-29	MD30h
47	PDU10256-9	ECL	PTD				1		-5.0	0	2.2u			925m		0	7	1	J02-29	MD30h
48	PDU10256-10	ECL	PTD				1		-5.0	0	2.5u			925m		0	7	1	J02-29	MD30h
49	PDU10256H1	ECL	PTD				1		5.0		267n			925m		0	7	1	J01-62	MD48B
50	PDU10256H2	ECL	PTD				1		5.0		522n			925m		0	7	1	J01-62	MD48B
51	PDU10256H3	ECL	PTD				1		5.0		777n			925m		0	7	1	J01-62	MD48B
52	PDU10256H4	ECL	PTD				1		5.0		1.0u			925m		0	7	1	J01-62	MD48B
53	PDU10256H5	ECL	PTD				1		5.0		1.2u			925m		0	7	1	J01-62	MD48B
54	PDU10256H6	ECL	PTD				1		5.0		1.5u			925m		0	7	1	J01-62	MD48B
55	PDU10256H7	ECL	PTD				1		5.0		1.7u			925m		0	7	1	J01-62	MD48B
56	PDU10256H8	ECL	PTD				1		5.0		2.0u			925m		0	7	1	J01-62	MD48B
57	PDU10256H9	ECL	PTD				1		5.0		2.3u			925m		0	7	1	J01-62	MD48B
58	PDU10256H10	ECL	PTD				1		5.0		2.5u			925m		0	7	1	J01-62	MD48B
59	PDU10256H.5	ECL	PTD				1		5.0		139n			925m		0	7	1	J01-62	MD48B
60♦	PECL3-1	ECL	PTD	-.98			1		5.2		10	4.0n†				0	7	1	J01-47	DIP16d
61♦	PECL3-2	ECL	PTD	-.98			1		5.2		17	4.0n†				0	7	1	J01-47	DIP16d
62♦	PECL3-3	ECL	PTD	-.98			1		5.2		24	4.0n†				0	7	1	J01-47	DIP16d
63♦	PECL3-4	ECL	PTD	-.98			1		5.2		31	4.0n†				0	7	1	J01-47	DIP16d
64♦	PECL3-5	ECL	PTD	-.98			1		5.2		38	4.0n†				0	7	1	J01-47	DIP16d
65♦	PECL3-10	ECL	PTD	-.98			1		5.2		73	4.0n†				0	7	1	J01-47	DIP16d
66♦	PECL6-1	ECL	PTD	-.98			1		5.2		21	4.0n†				0	7	1	J01-46	DIP32e
67♦	PECL15-1	ECL	PTD	-.98			1		5.2		30	4.0n†				0	7	1	J01-46	DIP32e
68♦	PECL15-2	ECL	PTD	-.98			1		5.2		45	4.0n†				0	7	1	J01-46	DIP32e
69♦	PECL15-3	ECL	PTD	-.98			1		5.2		60	4.0n†				0	7	1	J01-46	DIP32e
70♦	PECL15-5	ECL	PTD	-.98			1		5.2		90	4.0n†				0	7	1	J01-46	DIP32e
71♦	PECL15-10	ECL	PTD	-.98			1		5.2		165	4.0n†				0	7	1	J01-46	DIP32e
72♦	PECL15-16	ECL	PTD	-.98			1		5.2		255	4.0n†				0	7	1	J01-46	DIP32e
73♦	PECL30-1	ECL	PTD	-.98			1		5.2		45	4.0n†				0	7	1	J01-46	DIP32e
74♦	PECL45-1	ECL	PTD	-.98			1		5.2		60	4.0n†				0	7	1	J01-46	DIP32e
75♦	PECL60-1	ECL	PTD	-.98			1		5.2		75	4.0n†				0	7	1	J01-46	DIP32e
76♦	PECL75-1	ECL	PTD	-.98			1		5.2		90	4.0n†				0	7	1	J01-46	DIP32e
77♦	PECL90-1	ECL	PTD	-.98			1		5.2		105	4.0n†				0	7	1	J01-46	DIP32e
78	63Z16P007	TTL	PTD	2.0	0.8	1	20			5.0	7n	4.0n			0.4	0	7	1	J01-27	MD16C
79	63Z16P014	TTL	PTD	2.0	0.8	1	20			5.0	14n	4.0n			0.4	0	7	1	J01-27	MD16C
80	63Z16P021	TTL	PTD	2.0	0.8	1	20			5.0	21n	4.0n			0.4	0	7	1	J01-27	MD16C
81	63Z16P035	TTL	PTD	2.0	0.8	1	20			5.0	35n	4.0n			0.4	0	7	1	J01-27	MD16C
82	63Z16P070	TTL	PTD	2.0	0.8	1	20			5.0	70n	4.0n			0.4	0	7	1	J01-27	MD16C
83	63Z16P105	TTL	PTD	2.0	0.8	1	20			5.0	105n	4.0n			0.4	0	7	1	J01-27	MD16C
84	63Z16P140	TTL	PTD	2.0	0.8	1	20			5.0	140n	4.0n			0.4	0	7	1	J01-27	MD16C
85	63Z16P280	TTL	PTD	2.0	0.8	1	20			5.0	280n	4.0n			0.4	0	7	1	J01-27	MD16C
86	63Z16P350	TTL	PTD	2.0	0.8	1	20			5.0	350n	4.0n			0.4	0	7	1	J01-27	MD16C
87	DL1850	TTL	PTD	2.0	0.7	1	10		0	5.0	77n				0.2	0	7	1	J01-14	MD39
88	DL1851	TTL	PTD	2.0	0.7	1	10		0	5.0	112n				0.2	0	7	1	J01-14	MD39
89	DL1852	TTL	PTD	2.0	0.7	1	10		0	5.0	147n				0.2	0	7	1	J01-14	MD39
90	DL1853	TTL	PTD	2.0	0.7	1	10		0	5.0	182n				0.2	0	7	1	J01-14	MD39
91	DL1854	TTL	PTD	2.0	0.7	1	10		0	5.0	217n				0.2	0	7	1	J01-14	MD39
92	DL1855	TTL	PTD	2.0	0.7	1	10		0	5.0	252n				0.2	0	7	1	J01-14	MD39
93	DL1856	TTL	PTD	2.0	0.7	1	10		0	5.0	287n				0.2	0	7	1	J01-14	MD39
94♦	PDU13F1	TTL	PTD	2.0	0.8	1				5.0	12n					0	7	1	J02-21	DIP14b
95♦	PDU13F2	TTL	PTD	2.0	0.8	1				5.0	19n					0	7	1	J02-21	DIP14b
96♦	PDU13F3	TTL	PTD	2.0	0.8	1				5.0	26n					0	7	1	J02-21	DIP14b
97♦	PDU13F4	TTL	PTD	2.0	0.8					5.0	32n					0	7	1	J02-21	DIP14 ☑
98♦	PDU13F5	TTL	PTD	2.0	0.8	1				5.0	40n					0	7	1	J02-21	DIP14b
99♦	PDU13F6	TTL	PTD	2.0	0.8					5.0	46n					0	7	1	J02-21	DIP14 ☑
100♦	PDU13F7	TTL	PTD	2.0	0.8					5.0	53n					0	7	1	J02-21	DIP14 ☑
101♦	PDU13F8	TTL	PTD	2.0	0.8					5.0	60n					0	7	1	J02-21	DIP14 ☑
102♦	PDU13F9	TTL	PTD	2.0	0.8					5.0	67n					0	7	1	J02-21	DIP14 ☑
103♦	PDU13F10	TTL	PTD	2.0	0.8	1				5.0	75n					0	7	1	J02-21	DIP14b
104♦	PDU13F12	TTL	PTD	2.0	0.8					5.0	88n					0	7	1	J02-21	DIP14 ☑
105♦	PDU13F15	TTL	PTD	2.0	0.8	1				5.0	110n					0	7	1	J02-21	DIP14b
106♦	PDU13F20	TTL	PTD	2.0	0.8	1				5.0	145n					0	7	1	J02-21	DIP14b
107♦	PDU13F25	TTL	PTD	2.0	0.8					5.0	179n					0	7	1	J02-21	DIP14 ☑
108♦	PDU13F30	TTL	PTD	2.0	0.8					5.0	214n					0	7	1	J02-21	DIP14 ☑
109♦	PDU13F35	TTL	PTD	2.0	0.8					5.0	249n					0	7	1	J02-21	DIP14 ☑
110♦	PDU13F40	TTL	PTD	2.0	0.8	1				5.0	285n					0	7	1	J02-21	DIP14b

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Digitally Programmable Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] TYPE	[D] DELAY	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	PDU13F45	TTL	PTD	2.0	0.8					5.0	319n					0	7	1	J02-21	DIP14 ☑
2♦	PDU13F50	TTL	PTD	2.0	0.8	1				5.0	350n					0	7	1	J02-21	DIP14b
3♦	PDU13F.5	TTL	PTD	2.0	0.8	1				5.0	9.0n					0	7	1	J02-21	DIP14b
4♦	PDU14F1	TTL	PTD	2.0	0.8	1				5.0	26n					0	7	1	J01-56	DIP24e
5♦	PDU14F2	TTL	PTD	2.0	0.8	1				5.0	41n					0	7	1	J01-56	DIP24e
6♦	PDU14F3	TTL	PTD	2.0	0.8	1				5.0	56n					0	7	1	J01-56	DIP24e
7♦	PDU14F4	TTL	PTD	2.0	0.8	1				5.0	71n					0	7	1	J01-56	DIP24e
8♦	PDU14F5	TTL	PTD	2.0	0.8	1				5.0	86n					0	7	1	J01-56	DIP24e
9♦	PDU14F6	TTL	PTD	2.0	0.8	1				5.0	101n					0	7	1	J01-56	DIP24e
10♦	PDU14F7	TTL	PTD	2.0	0.8					5.0	114n					0	7	1	J01-56	DIP24 ☑
11♦	PDU14F8	TTL	PTD	2.0	0.8	1				5.0	131n					0	7	1	J01-56	DIP24e
12♦	PDU14F9	TTL	PTD	2.0	0.8					5.0	144n					0	7	1	J01-56	DIP24 ☑
13♦	PDU14F10	TTL	PTD	2.0	0.8	1				5.0	161n					0	7	1	J01-56	DIP24e
14♦	PDU14F12	TTL	PTD	2.0	0.8	1				5.0	191n					0	7	1	J01-56	DIP24e
15♦	PDU14F15	TTL	PTD	2.0	0.8	1				5.0	236n					0	7	1	J01-56	DIP24e
16♦	PDU14F20	TTL	PTD	2.0	0.8	1				5.0	311n					0	7	1	J01-56	DIP24e
17♦	PDU14F25	TTL	PTD	2.0	0.8	1				5.0	386n					0	7	1	J01-56	DIP24e
18♦	PDU14F30	TTL	PTD	2.0	0.8	1				5.0	461n					0	7	1	J01-56	DIP24e
19♦	PDU14F35	TTL	PTD	2.0	0.8	1				5.0	536n					0	7	1	J01-56	DIP24e
20♦	PDU14F40	TTL	PTD	2.0	0.8	1				5.0	611n					0	7	1	J01-56	DIP24e
21♦	PDU14F45	TTL	PTD	2.0	0.8	1				5.0	686n					0	7	1	J01-56	DIP24e
22♦	PDU14F50	TTL	PTD	2.0	0.8	1				5.0	761n					0	7	1	J01-56	DIP24e
23♦	PDU14F60	TTL	PTD	2.0	0.8	1				5.0	911n					0	7	1	J01-56	DIP24e
24♦	PDU14F80	TTL	PTD	2.0	0.8	1				5.0	1.2u					0	7	1	J01-56	DIP24e
25♦	PDU14F100	TTL	PTD	2.0	0.8	1				5.0	1.5u					0	7	1	J01-56	DIP24e
26♦	PDU14F.5	TTL	PTD	2.0	0.8	1				5.0	19n					0	7	1	J01-56	DIP24e
27♦	PDU15F0.5	TTL	PTD	2.0	0.8	1				5.0	30n					0	7	1	J01-57	DIP24e
28♦	PDU15F1	TTL	PTD	2.0	0.8	1				5.0	46n					0	7	1	J01-57	DIP24e
29♦	PDU15F2	TTL	PTD	2.0	0.8	1				5.0	77n					0	7	1	J01-57	DIP24e
30♦	PDU15F3	TTL	PTD	2.0	0.8	1				5.0	108n					0	7	1	J01-57	DIP24e
31♦	PDU15F4	TTL	PTD	2.0	0.8	1				5.0	139n					0	7	1	J01-57	DIP24e
32♦	PDU15F5	TTL	PTD	2.0	0.8	1				5.0	170n					0	7	1	J01-57	DIP24e
33♦	PDU15F6	TTL	PTD	2.0	0.8	1				5.0	201n					0	7	1	J01-57	DIP24e
34♦	PDU15F7	TTL	PTD	2.0	0.8					5.0	230n					0	7	1	J01-57	DIP24 ☑
35♦	PDU15F8	TTL	PTD	2.0	0.8	1				5.0	263n					0	7	1	J01-57	DIP24e
36♦	PDU15F9	TTL	PTD	2.0	0.8					5.0	292n					0	7	1	J01-57	DIP24 ☑
37♦	PDU15F10	TTL	PTD	2.0	0.8	1				5.0	325n					0	7	1	J01-57	DIP24e
38♦	PDU15F12	TTL	PTD	2.0	0.8	1				5.0	387n					0	7	1	J01-57	DIP24e
39♦	PDU15F15	TTL	PTD	2.0	0.8	1				5.0	480n					0	7	1	J01-57	DIP24e
40♦	PDU15F20	TTL	PTD	2.0	0.8	1				5.0	635n					0	7	1	J01-57	DIP24e
41♦	PDU16F0.5	TTL	PTD	2.0	0.8	1				5.0	47n					0	7	1	J01-58	DIP24e
42♦	PDU16F1	TTL	PTD	2.0	0.8	1				5.0	79n					0	7	1	J01-58	DIP24e
43♦	PDU16F2	TTL	PTD	2.0	0.8	1				5.0	142n					0	7	1	J01-58	DIP24e
44♦	PDU16F3	TTL	PTD	2.0	0.8	1				5.0	205n					0	7	1	J01-58	DIP24e
45♦	PDU16F4	TTL	PTD	2.0	0.8	1				5.0	268n					0	7	1	J01-58	DIP24e
46♦	PDU16F5	TTL	PTD	2.0	0.8	1				5.0	331n					0	7	1	J01-58	DIP24e
47♦	PDU16F6	TTL	PTD	2.0	0.8	1				5.0	394n					0	7	1	J01-58	DIP24e
48♦	PDU16F7	TTL	PTD	2.0	0.8					5.0	454n					0	7	1	J01-58	DIP24 ☑
49♦	PDU16F8	TTL	PTD	2.0	0.8	1				5.0	520n					0	7	1	J01-58	DIP24e
50♦	PDU16F9	TTL	PTD	2.0	0.8					5.0	580n					0	7	1	J01-58	DIP24 ☑
51♦	PDU16F10	TTL	PTD	2.0	0.8	1				5.0	646n					0	7	1	J01-58	DIP24e
52♦	PDU17F1	TTL	PTD	2.0	0.8	1				5.0	146n					0	7	1	J01-59	DIP40a
53♦	PDU17F2	TTL	PTD	2.0	0.8	1				5.0	273n					0	7	1	J01-59	DIP40a
54♦	PDU17F3	TTL	PTD	2.0	0.8	1				5.0	400n					0	7	1	J01-59	DIP40a
55♦	PDU17F4	TTL	PTD	2.0	0.8	1				5.0	527n					0	7	1	J01-59	DIP40a
56♦	PDU17F5	TTL	PTD	2.0	0.8	1				5.0	654n					0	7	1	J01-59	DIP40a
57♦	PDU17F6	TTL	PTD	2.0	0.8	1				5.0	781n					0	7	1	J01-59	DIP40a
58♦	PDU17F7	TTL	PTD	2.0	0.8	1				5.0	908n					0	7	1	J01-59	DIP40a
59♦	PDU17F8	TTL	PTD	2.0	0.8	1				5.0	1.0u					0	7	1	J01-59	DIP40a
60♦	PDU17F9	TTL	PTD	2.0	0.8	1				5.0	1.1u					0	7	1	J01-59	DIP40a
61♦	PDU17F10	TTL	PTD	2.0	0.8	1				5.0	1.2u					0	7	1	J01-59	DIP40a
62♦	PDU17F.5	TTL	PTD	2.0	0.8	1				5.0	82n					0	7	1	J01-59	DIP40a
63♦	PDU18F1	TTL	PTD	2.0	0.8	1				5.0	270n					0	7	1	J01-60	DIP40a
64♦	PDU18F2	TTL	PTD	2.0	0.8	1				5.0	525n					0	7	1	J01-60	DIP40a
65♦	PDU18F3	TTL	PTD	2.0	0.8	1				5.0	780n					0	7	1	J01-60	DIP40a
66♦	PDU18F4	TTL	PTD	2.0	0.8	1				5.0	1.0u					0	7	1	J01-60	DIP40a
67♦	PDU18F5	TTL	PTD	2.0	0.8	1				5.0	1.2u					0	7	1	J01-60	DIP40a
68♦	PDU18F6	TTL	PTD	2.0	0.8	1				5.0	1.5u					0	7	1	J01-60	DIP40a
69♦	PDU18F7	TTL	PTD	2.0	0.8	1				5.0	1.7u					0	7	1	J01-60	DIP40a
70♦	PDU18F8	TTL	PTD	2.0	0.8	1				5.0	2.0u					0	7	1	J01-60	DIP40a
71♦	PDU18F9	TTL	PTD	2.0	0.8	1				5.0	2.3u					0	7	1	J01-60	DIP40a
72♦	PDU18F10	TTL	PTD	2.0	0.8	1				5.0	2.5u					0	7	1	J01-60	DIP40a
73♦	PDU18F.5	TTL	PTD	2.0	0.8	1				5.0	128n					0	7	1	J01-60	DIP40a
74	PDU138-1	TTL	PTD			1			0	5.0	7.0n	4.0n		200m		0	7	1	J02-20	MD30a
75	PDU138-2	TTL	PTD			1			0	5.0	14n	4.0n		200m		0	7	1	J02-20	MD30a
76	PDU138-3	TTL	PTD			1			0	5.0	21n	4.0n		200m		0	7	1	J02-20	MD30a
77	PDU138-5	TTL	PTD			1			0	5.0	35n	4.0n		200m		0	7	1	J02-20	MD30a
78	PDU138-10	TTL	PTD			1			0	5.0	70n	4.0n		200m		0	7	1	J02-20	MD30a
79	PDU138.5	TTL	PTD			1			0	5.0	3.5n	4.0n		200m		0	7	1	J02-20	MD30a
80	PDU1316-15	TTL	PTD			1			0	5.0	225n			740m		0	7	1	J02-22	MD30g
81	PDU1316-20	TTL	PTD			1			0	5.0	300n			740m		0	7	1	J02-22	MD30g
82	PDU1316-25	TTL	PTD			1			0	5.0	375n			740m		0	7	1	J02-22	MD30g
83	PDU1316-30	TTL	PTD			1			0	5.0	450n			740m		0	7	1	J02-22	MD30g
84	PDU1316-35	TTL	PTD			1			0	5.0	525n			740m		0	7	1	J02-22	MD30g
85	PDU1316-40	TTL	PTD			1			0	5.0	600n			740m		0	7	1	J02-22	MD30g
86	PDU1316-45	TTL	PTD			1			0	5.0	675n			740m		0	7	1	J02-22	MD30g
87	PDU1316-50	TTL	PTD			1			0	5.0	750n			740m		0	7	1	J02-22	MD30g
88	PDU1316-60	TTL	PTD			1			0	5.0	900n			740m		0	7	1	J02-22	MD30g
89	PDU1316-80	TTL	PTD			1			0	5.0	1.2u			740m		0	7	1	J02-22	MD30g
90	PDU1316-100	TTL	PTD			1			0	5.0	1.5u			740m		0	7	1	J02-22	MD30g
91	PDU1332-0.5	TTL	PTD			1			0	5.0	15n			740m		0	7	1	J02-23	MD30g
92	PDU1332-1	TTL	PTD			1			0	5.0	31n			740m		0	7	1	J02-23	MD30g
93	PDU1332-2	TTL	PTD			1			0	5.0	62n			740m		0	7	1	J02-23	MD30g
94	PDU1332-3	TTL	PTD			1			0	5.0	93n			740m		0	7	1	J02-23	MD30g
95	PDU1332-4	TTL	PTD			1			0	5.0	124n			740m		0	7	1	J02-23	MD30g
96	PDU1332-5	TTL	PTD			1			0	5.0	155n			740m		0	7	1	J02-23	MD30g
97	PDU1332-6	TTL	PTD			1			0	5.0	186n			740m		0	7	1	J02-23	MD30g
98	PDU1332-8	TTL	PTD			1			0	5.0	248n			740m		0	7	1	J02-23	MD30g
99	PDU1332-10	TTL	PTD			1			0	5.0	310n			740m		0	7	1	J02-23	MD30g
100	PDU1332-12	TTL	PTD			1			0	5.0	372n			740m		0	7	1	J02-23	MD30g
101	PDU1332-15	TTL	PTD			1			0	5.0	465n			740m		0	7	1	J02-23	MD30g
102	PDU1332-20	TTL	PTD			1			0	5.0	620n			740m		0	7	1	J02-23	MD30g
103	PDU1364-0.5	TTL	PTD			1			0	5.0	31n			950m		0	7	1	J02-24	MD30g
104	PDU1364-1	TTL	PTD			1			0	5.0	63n			950m		0	7	1	J02-24	MD30g
105	PDU1364-2	TTL	PTD			1			0	5.0	126n			950m		0	7	1	J02-24	MD30g
106	PDU1364-3	TTL	PTD			1			0	5.0	189n			950m		0	7	1	J02-24	MD30g
107	PDU1364-4	TTL	PTD			1			0	5.0	252n			950m		0	7	1	J02-24	MD30g
108	PDU1364-5	TTL	PTD			1			0	5.0	315n			950m		0	7	1	J02-24	MD30g
109	PDU1364-6	TTL	PTD			1			0	5.0	378n			950m		0	7	1	J02-24	MD30g
110	PDU1364-8	TTL	PTD			1			0	5.0	504n			950m		0	7	1	J02-24	MD30g

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Digitally Programmable Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	3 TECH	1 D T E Y L P A E Y	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	2 CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1	PDU1364-10	TTL	PTD			1		0	5.0	630n			950m		0	7	1	J02-24	MD30g
2	PDU13256-1	TTL	PTD			1		0	5.0	255n			1.1		0	7	1	J02-25	MD30h
3	PDU13256-2	TTL	PTD			1		0	5.0	510n			1.1		0	7	1	J02-25	MD30h
4	PDU13256-3	TTL	PTD			1		0	5.0	765n			1.1		0	7	1	J02-25	MD30h
5	PDU13256-4	TTL	PTD			1		0	5.0	1.0u			1.1		0	7	1	J02-25	MD30h
6	PDU13256-5	TTL	PTD			1		0	5.0	1.3u			1.1		0	7	1	J02-25	MD30h
7	PDU13256-6	TTL	PTD			1		0	5.0	1.5u			1.1		0	7	1	J02-25	MD30h
8	PDU13256-7	TTL	PTD			1		0	5.0	1.8u			1.1		0	7	1	J02-25	MD30h
9	PDU13256-8	TTL	PTD			1		0	5.0	2u			1.1		0	7	1	J02-25	MD30h
10	PDU13256-9	TTL	PTD			1		0	5.0	2.3u			1.1		0	7	1	J02-25	MD30h
11	PDU13256-10	TTL	PTD			1		0	5.0	2.6u			1.1		0	7	1	J02-25	MD30h
12♦	PLDM7-1	TTL	PTD	2.0	0.8	1	10		5.0	14n	4.0n			0.4	0	7	1	J01-40	DIP16d
13♦	PLDM7-2	TTL	PTD	2.0	0.8	1	10		5.0	21n	4.0n			0.4	0	7	1	J01-40	DIP16d
14♦	PLDM7-3	TTL	PTD	2.0	0.8	1	10		5.0	28n	4.0n			0.4	0	7	1	J01-40	DIP16d
15♦	PLDM7-4	TTL	PTD	2.0	0.8	1	10		5.0	35n	4.0n			0.4	0	7	1	J01-40	DIP16d
16♦	PLDM7-5	TTL	PTD	2.0	0.8	1	10		5.0	42n	4.0n			0.4	0	7	1	J01-40	DIP16d
17♦	PLDM7-10	TTL	PTD	2.0	0.8	1	10		5.0	77n	4.0n			0.4	0	7	1	J01-40	DIP16d
18♦	PLDM15-1	TTL	PTD	2.0	0.8	1	10		5.0	30n	4.0n			0.4	0	7	1	J01-39	DIP32e
19♦	PLDM15-2	TTL	PTD	2.0	0.8	1	10		5.0	45n	4.0n			0.4	0	7	1	J01-39	DIP32e
20♦	PLDM15-3	TTL	PTD	2.0	0.8	1	10		5.0	60n	4.0n			0.4	0	7	1	J01-39	DIP32e
21♦	PLDM15-5	TTL	PTD	2.0	0.8	1	10		5.0	90n	4.0n			0.4	0	7	1	J01-39	DIP32e
22♦	PLDM15-10	TTL	PTD	2.0	0.8	1	10		5.0	165n	4.0n			0.4	0	7	1	J01-39	DIP32e
23♦	PLDM15-16	TTL	PTD	2.0	0.8	1	10		5.0	255n	4.0n			0.4	0	7	1	J01-39	DIP32e
24♦	PLDM30-1	TTL	PTD	2.0	0.8	1	10		5.0	45n	4.0n			0.4	0	7	1	J01-39	DIP32e
25♦	PLDM45-1	TTL	PTD	2.0	0.8	1	10		5.0	60n	4.0n			0.4	0	7	1	J01-39	DIP32e
26♦	PLDM60-1	TTL	PTD	2.0	0.8	1	10		5.0	75n	4.0n			0.4	0	7	1	J01-39	DIP32e
27♦	PLDM75-1	TTL	PTD	2.0	0.8	1	10		5.0	90n	4.0n			0.4	0	7	1	J01-39	DIP32e
28♦	PLDM90-1	TTL	PTD	2.0	0.8	1	10		5.0	105n	4.0n			0.4	0	7	1	J01-39	DIP32e
29	SMD99-5004	TTL	PTD			1		0	5.0	4.0n			1.1		0	7	1	J02-1	LC46
30	SMD99-5006	TTL	PTD			1		0	5.0	6.0n			1.1		0	7	1	J02-1	LC46
31	SMD99-5008	TTL	PTD			1		0	5.0	8.0n			1.1		0	7	1	J02-1	LC46
32	SMD99-5010	TTL	PTD			1		0	5.0	10n			1.1		0	7	1	J02-1	LC46
33	HY5203-015M	TTL	PTD	2.0	0.8	1	20		5.0	15n	4.0n			0.3	5	C	3	J01-52	MD16D
34	HY5203-015R	TTL	PTD	2.0	0.8	1	20		5.0	15n	4.0n			0.3	0	7	3	J01-52	MD16D
35	HY5203-022M	TTL	PTD	2.0	0.8	1	20		5.0	22n	4.0n			0.3	5	C	3	J01-52	MD16D
36	HY5203-022R	TTL	PTD	2.0	0.8	1	20		5.0	22n	4.0n			0.3	0	7	3	J01-52	MD16D
37	HY5203-029M	TTL	PTD	2.0	0.8	1	20		5.0	29n	4.0n			0.3	5	C	3	J01-52	MD16D
38	HY5203-029R	TTL	PTD	2.0	0.8	1	20		5.0	29n	4.0n			0.3	0	7	3	J01-52	MD16D
39	HY5203-043M	TTL	PTD	2.0	0.8	1	20		5.0	43n	4.0n			0.3	5	C	3	J01-52	MD16D
40	HY5203-043R	TTL	PTD	2.0	0.8	1	20		5.0	43n	4.0n			0.3	0	7	3	J01-52	MD16D

DELAY LINE, TAPPED

44	76Z14A010F		TAP			1				10n	2.5n				0	7		J02-36	MS014
45	76Z14A010H		TAP			1				10n	2.5n				0	7		J02-36	MS014
46	76Z14A010T		TAP			1				10n	2.5n				0	7		J02-36	MS014
47	76Z14A020F		TAP			1				20n	4.0n				0	7		J02-36	MS014
48	76Z14A020H		TAP			1				20n	4.0n				0	7		J02-36	MS014
49	76Z14A020T		TAP			1				10n	2.5n				0	7		J02-36	MS014
50	76Z14A030F		TAP			1				30n	6.0n				0	7		J02-36	MS014
51	76Z14A030H		TAP			1				30n	6.0n				0	7		J02-36	MS014
52	76Z14A030T		TAP			1				30n	6.0n				0	7		J02-36	MS014
53	76Z14A040F		TAP			1				40n	8.0n				0	7		J02-36	MS014
54	76Z14A040H		TAP			1				40n	8.0n				0	7		J02-36	MS014
55	76Z14A040T		TAP			1				40n	8.0n				0	7		J02-36	MS014
56	76Z14A050F		TAP			1				50n	10n				0	7		J02-36	MS014
57	76Z14A050H		TAP			1				50n	10n				0	7		J02-36	MS014
58	76Z14A050T		TAP			1				50n	10n				0	7		J02-36	MS014
59	76Z14A075F		TAP			1				75n	15n				0	7		J02-36	MS014
60	76Z14A075H		TAP			1				75n	15n				0	7		J02-36	MS014
61	76Z14A075T		TAP			1				75n	15n				0	7		J02-36	MS014
62	76Z14A0100F		TAP			1				100n	20n				0	7		J02-36	MS014
63	76Z14A0100H		TAP			1				100n	20n				0	7		J02-36	MS014
64	76Z14A100F		TAP			1				100n	20n				0	7		J02-36	MS014
65	76Z14A100H		TAP			1				100n	20n				0	7		J02-36	MS014
66	76Z14A100T		TAP			1				100n	20n				0	7		J02-36	MS014
67	76Z14A0125F		TAP			1				125n	25n				0	7		J02-36	MS014
68	76Z14A0125H		TAP			1				125n	25n				0	7		J02-36	MS014
69	76Z14A125F		TAP			1				125n	25n				0	7		J02-36	MS014
70	76Z14A125H		TAP			1				125n	25n				0	7		J02-36	MS014
71	76Z14A0150F		TAP			1				150n	30n				0	7		J02-36	MS014
72	76Z14A0150H		TAP			1				150n	30n				0	7		J02-36	MS014
73	76Z14A150F		TAP			1				150n	30n				0	7		J02-36	MS014
74	76Z14A150H		TAP			1				150n	30n				0	7		J02-36	MS014
75	76Z14A0200F		TAP			1				200n	40n				0	7		J02-36	MS014
76	76Z14A0200H		TAP			1				200n	40n				0	7		J02-36	MS014
77	76Z14A200F		TAP			1				200n	40n				0	7		J02-36	MS014
78	76Z14A200H		TAP			1				200n	40n				0	7		J02-36	MS014
79	76Z16A010F		TAP			1				10n	2.5n				0	7		J02-36	MS016
80	76Z16A010H		TAP			1				10n	2.5n				0	7		J02-36	MS016
81	76Z16A010T		TAP			1				10n	2.5n				0	7		J02-36	MS016
82	76Z16A020F		TAP			1				20n	4.0n				0	7		J02-36	MS016
83	76Z16A020H		TAP			1				20n	4.0n				0	7		J02-36	MS016
84	76Z16A020T		TAP			1				20n	4.0n				0	7		J02-36	MS016
85	76Z16A030F		TAP			1				30n	6.0n				0	7		J02-36	MS016
86	76Z16A030H		TAP			1				30n	6.0n				0	7		J02-36	MS016
87	76Z16A030T		TAP			1				30n	6.0n				0	7		J02-36	MS016
88	76Z16A040F		TAP			1				40n	8.0n				0	7		J02-36	MS016
89	76Z16A040H		TAP			1				40n	8.0n				0	7		J02-36	MS016
90	76Z16A040T		TAP			1				40n	8.0n				0	7		J02-36	MS016
91	76Z16A050F		TAP			1				50n	10n				0	7		J02-36	MS016
92	76Z16A050H		TAP			1				50n	10n				0	7		J02-36	MS016
93	76Z16A050T		TAP			1				50n	10n				0	7		J02-36	MS016
94	76Z16A075F		TAP			1				75n	15n				0	7		J02-36	MS016
95	76Z16A075H		TAP			1				75n	15n				0	7		J02-36	MS016
96	76Z16A075T		TAP			1				75n	15n				0	7		J02-36	MS016
97	76Z16A100F		TAP			1				100n	20n				0	7		J02-36	MS016
98	76Z16A100H		TAP			1				100n	20n				0	7		J02-36	MS016
99	76Z16A100T		TAP			1				100n	20n				0	7		J02-36	MS016
100	76Z16A125F		TAP			1				125n	25n				0	7		J02-36	MS016
101	76Z16A125H		TAP			1				125n	25n				0	7		J02-36	MS016
102	76Z16A150F		TAP			1				150n	30n				0	7		J02-36	MS016
103	76Z16A150H		TAP			1				150n	30n				0	7		J02-36	MS016
104	76Z16A200F		TAP			1				200n	40n				0	7		J02-36	MS016
105	76Z16A200H		TAP			1				200n	40n				0	7		J02-36	MS016
106	76ZQDA010F		TAP			1				10n	2.5				0	7		J02-36	LC58
107	76ZQDA010H		TAP			1				10n	2.5				0	7		J02-36	LC58
108	76ZQDA010T		TAP			1				10n	2.5				0	7		J02-36	LC58
109	76ZQDA020F		TAP			1				20n	4.0n				0	7		J02-36	LC58
110	76ZQDA020H		TAP			1				20n	4.0n				0	7		J02-36	LC58

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] D TYPE DELAY	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1	76ZQDA020T		TAP			1				20n	4.0n				0	7		J02-36	LC58
2	76ZQDA030F		TAP			1				30n	6.0n				0	7		J02-36	LC58
3	76ZQDA030H		TAP			1				30n	6.0n				0	7		J02-36	LC58
4	76ZQDA030T		TAP			1				30n	6.0n				0	7		J02-36	LC58
5	76ZQDA040F		TAP			1				40n	8.0n				0	7		J02-36	LC58
6	76ZQDA040H		TAP			1				40n	8.0n				0	7		J02-36	LC58
7	76ZQDA040T		TAP			1				40n	8.0n				0	7		J02-36	LC58
8	76ZQDA050F		TAP			1				50n	10n				0	7		J02-36	LC58
9	76ZQDA050H		TAP			1				50n	10n				0	7		J02-36	LC58
10	76ZQDA050T		TAP			1				50n	10n				0	7		J02-36	LC58
11	76ZQDA075F		TAP			1				75n	15n				0	7		J02-36	LC58
12	76ZQDA075H		TAP			1				75n	15n				0	7		J02-36	LC58
13	76ZQDA075T		TAP			1				75n	15n				0	7		J02-36	LC58
14	76ZQDA100F		TAP			1				100n	20n				0	7		J02-36	LC58
15	76ZQDA100H		TAP			1				100n	20n				0	7		J02-36	LC58
16	76ZQDA100T		TAP			1				100n	20n				0	7		J02-36	LC58
17	76ZQDA125F		TAP			1				125n	25n				0	7		J02-36	LC58
18	76ZQDA125H		TAP			1				125n	25n				0	7		J02-36	LC58
19	76ZQDA150F		TAP			1				150n	30n				0	7		J02-36	LC58
20	76ZQDA150H		TAP			1				150n	30n				0	7		J02-36	LC58
21	76ZQDA200F		TAP			1				200n	40n				0	7		J02-36	LC58
22	76ZQDA200H		TAP			1				200n	40n				0	7		J02-36	LC58
23	77Z14A025		TAP			1				25n					0	7		J02-37	MS014
24	77Z14A030		TAP			1				30n					0	7		J02-37	MS014
25	77Z14A035		TAP			1				35n					0	7		J02-37	MS014
26	77Z14A040		TAP			1				40n					0	7		J02-37	MS014
27	77Z14A045		TAP			1				45n					0	7		J02-37	MS014
28	77Z14A050		TAP			1				50n					0	7		J02-37	MS014
29	77Z14A060		TAP			1				60n					0	7		J02-37	MS014
30	77Z14A070		TAP			1				70n					0	7		J02-37	MS014
31	77Z14A075		TAP			1				75n					0	7		J02-37	MS014
32	77Z14A100		TAP			1				100n					0	7		J02-37	MS014
33	77Z14A150		TAP			1				150n					0	7		J02-37	MS014
34	77Z14A200		TAP			1				200n					0	7		J02-37	MS014
35	77Z14A250		TAP			1				250n					0	7		J02-37	MS014
36	77Z16A025		TAP			1				25n					0	7		J02-37	MS016
37	77Z16A030		TAP			1				30n					0	7		J02-37	MS016
38	77Z16A035		TAP			1				35n					0	7		J02-37	MS016
39	77Z16A040		TAP			1				40n					0	7		J02-37	MS016
40	77Z16A045		TAP			1				45n					0	7		J02-37	MS016
41	77Z16A050		TAP			1				50n					0	7		J02-37	MS016
42	77Z16A055		TAP			1				55n					0	7		J02-37	MS016
43	77Z16A060		TAP			1				60n					0	7		J02-37	MS016
44	77Z16A070		TAP			1				70n					0	7		J02-37	MS016
45	77Z16A075		TAP			1				75n					0	7		J02-37	MS016
46	77Z16A100		TAP			1				100n					0	7		J02-37	MS016
47	77Z16A150		TAP			1				150n					0	7		J02-37	MS016
48	77Z16A155		TAP			1				150n					0	7		J02-37	MS016
49	77Z16A200		TAP			1				200n					0	7		J02-37	MS016
50	77Z16A250		TAP			1				250n					0	7		J02-37	MS016
51	77ZQDA025		TAP			1				25n					0	7		J02-37	LC58
52	77ZQDA030		TAP			1				30n					0	7		J02-37	LC58
53	77ZQDA035		TAP			1				35n					0	7		J02-37	LC58
54	77ZQDA040		TAP			1				40n					0	7		J02-37	LC58
55	77ZQDA045		TAP			1				45n					0	7		J02-37	LC58
56	77ZQDA050		TAP			1				50n					0	7		J02-37	LC58
57	77ZQDA060		TAP			1				60n					0	7		J02-37	LC58
58	77ZQDA070		TAP			1				70n					0	7		J02-37	LC58
59	77ZQDA075		TAP			1				75n					0	7		J02-37	LC58
60	77ZQDA100		TAP			1				100n					0	7		J02-37	LC58
61	77ZQDA150		TAP			1				150n					0	7		J02-37	LC58
62	77ZQDA200		TAP			1				200n					0	7		J02-37	LC58
63	77ZQDA250		TAP			1				250n					0	7		J02-37	LC58
64▼	DS1000-50	CMS	TAP	2.0	0.8	1	10	0	5.25	50n	3.0n	3.0n	375m		0	7		J01-35	DIP14a
65▼	DS1030-100(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	100n	3.0n	3.0n	375m		0	7		J01-35	DIP14a
66▼	DS1030-125(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	125n	3.0n	3.0n	375m		0	7		J01-35	DIP14a
67▼	DS1030-150(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	150n	3.0n	3.0n	375m		0	7		J01-35	DIP14a
68▼	DS1030-175(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	175n	3.0n	3.0n	375m		0	7		J01-35	DIP14a
69▼	DS1030-200(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	200n	3.0n	3.0n	375m		0	7		J01-35	DIP14a
70▼	DS1030-250(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	250n	3.0n	3.0n	375m		0	7		J01-35	DIP14a
71▼	DS1030-500(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	500n	3.0n	3.0n	375m		0	7		J01-35	DIP14a
72▼	DS1031-100(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	100n	3.0n	3.0n	375m		0	7		J01-17	DIP8a
73▼	DS1031-125(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	125n	3.0n	3.0n	375m		0	7		J01-17	DIP8a
74▼	DS1031-150	CMS	TAP	2.0	0.8	1	10	0	5.50	150n	3.0n	3.0n	375m		0	7		J01-17	DIP8a
75▼	DS1031-175(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	175n	3.0n	3.0n	375m		0	7		J01-17	DIP8a
76▼	DS1031-200(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	200n	3.0n	3.0n	375m		0	7		J01-17	DIP8a
77▼	DS1031-250(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	250n	3.0n	3.0n	375m		0	7		J01-17	DIP8a
78▼	DS1031-500(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	500n	3.0n	3.0n	375m		0	7		J01-17	DIP8a
79▼	DS1031S-100(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	100n	3.0n	3.0n	375m		0	7		J01-17	FP8
80▼	DS1031S-125	CMS	TAP	2.0	0.8	1	10	0	5.50	125n	3.0n	3.0n	375m		0	7		J01-17	FP8
81▼	DS1031S-150(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	150n	3.0n	3.0n	375m		0	7		J01-17	FP8
82▼	DS1031S-175(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	175n	3.0n	3.0n	375m		0	7		J01-17	FP8
83▼	DS1031S-200(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	200n	3.0n	3.0n	375m		0	7		J01-17	FP8
84▼	DS1031S-250(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	250n	3.0n	3.0n	375m		0	7		J01-17	FP8
85▼	DS1031S-500(A)	CMS	TAP	2.0	0.8	1	10	0	5.50	500n	3.0n	3.0n	375m		0	7		J01-17	FP8
86▼	EP9604-32	CMS	TAP	2.0	0.8	1	10		5.0	32n	4.0n			0.3	0	7		J02-38	DIP14b
87▼	EP9604-36	CMS	TAP	2.0	0.8	1	10		5.0	36n	4.0n			0.3	0	7		J02-38	DIP14b
88▼	EP9604-40	CMS	TAP	2.0	0.8	1	10		5.0	40n	4.0n			0.3	0	7		J02-38	DIP14b
89▼	EP9604-44	CMS	TAP	2.0	0.8	1	10		5.0	44n	4.0n			0.3	0	7		J02-38	DIP14b
90▼	EP9604-48	CMS	TAP	2.0	0.8	1	10		5.0	48n	4.0n			0.3	0	7		J02-38	DIP14b
91▼	EP9604-52	CMS	TAP	2.0	0.8	1	10		5.0	52n	4.0n			0.3	0	7		J02-38	DIP14b
92▼	EP9604-60	CMS	TAP	2.0	0.8	1	10		5.0	60n	4.0n			0.3	0	7		J02-38	DIP14b
93▼	EP9604-75	CMS	TAP	2.0	0.8	1	10		5.0	75n	4.0n			0.3	0	7		J02-38	DIP14b
94▼	EP9604-100	CMS	TAP	2.0	0.8	1	10		5.0	100n	4.0n			0.3	0	7		J02-38	DIP14b
95▼	EP9604-125	CMS	TAP	2.0	0.8	1	10		5.0	125n	4.0n			0.3	0	7		J02-38	DIP14b
96▼	EP9604-150	CMS	TAP	2.0	0.8	1	10		5.0	150n	4.0n			0.3	0	7		J02-38	DIP14b
97▼	EP9604-175	CMS	TAP	2.0	0.8	1	10		5.0	175n	4.0n			0.3	0	7		J02-38	DIP14b
98▼	EP9604-200	CMS	TAP	2.0	0.8	1	10		5.0	200n	4.0n			0.3	0	7		J02-38	DIP14b
99▼	EP9604-250	CMS	TAP	2.0	0.8	1	10		5.0	250n	4.0n			0.3	0	7		J02-38	DIP14b
100▼	EP9604-300	CMS	TAP	2.0	0.8	1	10		5.0	300n	4.0n			0.3	0	7		J02-38	DIP14b
101▼	EP9604-350	CMS	TAP	2.0	0.8	1	10		5.0	350n	4.0n			0.3	0	7		J02-38	DIP14b
102▼	EP9604-400	CMS	TAP	2.0	0.8	1	10		5.0	400n	4.0n			0.3	0	7		J02-38	DIP14b
103▼	EP9604-420	CMS	TAP	2.0	0.8	1	10		5.0	420n	4.0n			0.3	0	7		J02-38	DIP14b
104▼	EP9604-440	CMS	TAP	2.0	0.8	1	10		5.0	440n	4.0n			0.3	0	7		J02-38	DIP14b
105▼	EP9604-450	CMS	TAP	2.0	0.8	1	10		5.0	450n	4.0n			0.3	0	7		J02-38	DIP14b
106▼	EP9604-500	CMS	TAP	2.0	0.8	1	10		5.0	500n	4.0n			0.3	0	7		J02-38	DIP14b
107▼	EP9604-550	CMS	TAP	2.0	0.8	1	10		5.0	550n	4.0n			0.3	0	7		J02-38	DIP14b
108▼	EP9604-600	CMS	TAP	2.0	0.8	1	10		5.0	600n	4.0n			0.3	0	7		J02-38	DIP14b
109▼	EP9604-650	CMS	TAP	2.0	0.8	1	10		5.0	650n	4.0n			0.3	0	7		J02-38	DIP14b
110▼	EP9604-700	CMS	TAP	2.0	0.8	1	10		5.0	700n	4.0n			0.3	0	7		J02-38	DIP14b

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	3 TECH	1 DELAY TYPE	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	2 CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1▼	EP9604-750	CMS	TAP	2.0	0.8	1	10		5.0	750n	4.0n			0.3	0	7		J02-38	DIP14b
2▼	EP9604-800	CMS	TAP	2.0	0.8	1	10		5.0	800n	4.0n			0.3	0	7		J02-38	DIP14b
3▼	EP9604-850	CMS	TAP	2.0	0.8	1	10		5.0	850n	4.0n			0.3	0	7		J02-38	DIP14b
4▼	EP9604-900	CMS	TAP	2.0	0.8	1	10		5.0	900n	4.0n			0.3	0	7		J02-38	DIP14b
5▼	EP9604-950	CMS	TAP	2.0	0.8	1	10		5.0	950n	4.0n			0.3	0	7		J02-38	DIP14b
6▼	EP9604-1000	CMS	TAP	2.0	0.8	1	10		5.0	1.0u	4.0n			0.3	0	7		J02-38	DIP14b
7▼	EP9445-7	ECL	TAP	-.98	1.6-			5.2		7.0n	4.0n			0.2	3	8		J02-43	MD14o
8▼	EP9445-11	ECL	TAP	-.98	1.6-			5.2		11n	4.0n			0.2	3	8		J02-43	MD14o
9▼	EP9445-15	ECL	TAP	-.98	1.6-			5.2		15n	4.0n			0.2	3	8		J02-43	MD14o
10▼	EP9445-20	ECL	TAP	-.98	1.6-			5.2		20n	4.0n			0.2	3	8		J02-43	MD14o
11▼	EP9445-30	ECL	TAP	-.98	1.6-			5.2		30n	4.0n			0.2	3	8		J02-43	MD14o
12▼	EP9445-40	ECL	TAP	-.98	1.6-			5.2		40n	5.0n			0.2	3	8		J02-43	MD14o
13▼	EP9445-50	ECL	TAP	-.98	1.6-			5.2		50n	5.0n			0.2	3	8		J02-43	MD14o
14▼	EP9445-75	ECL	TAP	-.98	1.6-			5.2		75n	8.0n			0.2	3	8		J02-43	MD14o
15▼	EP9445-100	ECL	TAP	-.98	1.6-			5.2		100n	10n			0.2	3	8		J02-43	MD14o
16▼	EP9445-150	ECL	TAP	-.98	1.6-			5.2		150n	15n			0.2	3	8		J02-43	MD14o
17▼	EP9445-200	ECL	TAP	-.98	1.6-			5.2		200n	20n			0.2	3	8		J02-43	MD14o
18▼	EP9445-250	ECL	TAP	-.98	1.6-			5.2		250n	25n			0.2	3	8		J02-43	MD14o
19▼	EP9445-300	ECL	TAP	-.98	1.6-			5.2		300n	30n			0.2	3	8		J02-43	MD14o
20▼	EP9445-350	ECL	TAP	-.98	1.6-			5.2		350n	35n			0.2	3	8		J02-43	MD14o
21▼	EP9445-400	ECL	TAP	-.98	1.6-			5.2		400n	40n			0.2	3	8		J02-43	MD14o
22▼	EP9445-450	ECL	TAP	-.98	1.6-			5.2		450n	45n			0.2	3	8		J02-43	MD14o
23▼	EP9445-500	ECL	TAP	-.98	1.6-			5.2		500n	50n			0.2	3	8		J02-43	MD14o
24▼	EP9445-600	ECL	TAP	-.98	1.6-			5.2		600n	50n			0.2	3	8		J02-43	MD14o
25▼	EP9445-700	ECL	TAP	-.98	1.6-			5.2		700n	50n			0.2	3	8		J02-43	MD14o
26▼	EP9445-800	ECL	TAP	-.98	1.6-			5.2		800n	50n			0.2	3	8		J02-43	MD14o
27▼	EP9445-900	ECL	TAP	-.98	1.6-			5.2		900n	50n			0.2	3	8		J02-43	MD14o
28▼	EP9445-1000	ECL	TAP	-.98	1.6-			5.2		1.0u	50n			0.2	3	8		J02-43	MD14o
29	DDU4-2040	TTL	TAP			1	20	0	5.5	40n	4.0n		375m		0			J02-15	MD30b
30	DDU4-2050	TTL	TAP			1	20	0	5.5	50n	4.0n		375m		0			J02-15	MD30b
31	DDU4-2060	TTL	TAP			1	20	0	5.5	60n	4.0n		375m		0			J02-15	MD30b
32	DDU4-2080	TTL	TAP			1	20	0	5.5	80n	4.0n		375m		0			J02-15	MD30b
33	DDU4-2100	TTL	TAP			1	20	0	5.5	100n	4.0n		375m		0			J02-15	MD30b
34	DDU4-2150	TTL	TAP			1	20	0	5.5	150n	4.0n		375m		0			J02-15	MD30b
35	DDU4-2200	TTL	TAP			1	20	0	5.5	200n	4.0n		375m		0			J02-15	MD30b
36	DDU4-2300	TTL	TAP			1	20	0	5.5	300n	4.0n		375m		0			J02-15	MD30b
37	DDU4-2400	TTL	TAP			1	20	0	5.5	400n	4.0n		375m		0			J02-15	MD30b
38	DDU4-2500	TTL	TAP			1	20	0	5.5	500n	4.0n		375m		0			J02-15	MD30b
39▼	DDU4-5025	TTL	TAP			1	20	0	5.5	25n	4.0n		375m		0	7		J02-1	MD30b
40▼	DDU4-5050	TTL	TAP			1	20	0	5.5	50n	4.0n		375m		0	7		J02-1	MD30b
41▼	DDU4-5075	TTL	TAP			1	20	0	5.5	75n	4.0n		375m		0	7		J02-1	MD30b
42▼	DDU4-5100	TTL	TAP			1	20	0	5.5	100n	4.0n		375m		0	7		J02-1	MD30b
43▼	DDU4-5125	TTL	TAP			1	20	0	5.5	125n	4.0n		375m		0	7		J02-1	MD30b
44▼	DDU4-5150	TTL	TAP			1	20	0	5.5	150n	4.0n		375m		0	7		J02-1	MD30b
45▼	DDU4-5200	TTL	TAP			1	20	0	5.5	200n	4.0n		375m		0	7		J02-1	MD30b
46▼	DDU4-5250	TTL	TAP			1	20	0	5.5	250n	4.0n		375m		0	7		J02-1	MD30b
47▼	DDU4-5300	TTL	TAP			1	20	0	5.5	300n	4.0n		375m		0	7		J02-1	MD30b
48▼	DDU4-5400	TTL	TAP			1	20	0	5.5	400n	4.0n		375m		0	7		J02-1	MD30b
49▼	DDU4-5500	TTL	TAP			1	20	0	5.5	500n	4.0n		375m		0	7		J02-1	MD30b
50	DDU4-7690A	TTL	TAP			1	20	0	5.5	110n	4.0n		375m		0			J02-15	MD30b
51	DDU5J10050	TTL	TAP			1	20	0	5.5	50n	4.0n		780M		0	7		J02-16	MD30c
52	DDU5J10100	TTL	TAP			1	20	0	5.5	100n	4.0n		780M		0	7		J02-16	MD30c
53	DDU5J101000	TTL	TAP			1	20	0	5.5	10u	4.0n		780M		0	7		J02-16	MD30c
54	DDU5J10150	TTL	TAP			1	20	0	5.5	150n	4.0n		780M		0	7		J02-16	MD30c
55	DDU5J101500	TTL	TAP			1	20	0	5.5	1.5u	4.0n		780M		0	7		J02-16	MD30c
56	DDU5J10200	TTL	TAP			1	20	0	5.5	200n	4.0n		780M		0	7		J02-16	MD30c
57	DDU5J102000	TTL	TAP			1	20	0	5.5	2.0u	4.0n		780M		0	7		J02-16	MD30c
58	DDU5J10250	TTL	TAP			1	20	0	5.5	250n	4.0n		780M		0	7		J02-16	MD30c
59	DDU5J10300	TTL	TAP			1	20	0	5.5	300n	4.0n		780M		0	7		J02-16	MD30c
60	DDU5J10400	TTL	TAP			1	20	0	5.5	400n	4.0n		780M		0	7		J02-16	MD30c
61	DDU5J10500	TTL	TAP			1	20	0	5.5	500n	4.0n		780M		0	7		J02-16	MD30c
62	DDU6-4	TTL	TAP			1	20	0	5.5	4n	4.0n		780M		0	7		J02-1	MD30b
63	DDU6-6	TTL	TAP			1	20	0	5.5	6n	4.0n		780M		0	7		J02-1	MD30b
64	DDU6-8	TTL	TAP			1	20	0	5.5	8n	4.0n		780M		0	7		J02-1	MD30b
65	DDU6-10	TTL	TAP			1	20	0	5.5	10n	4.0n		780M		0	7		J02-1	MD30b
66	DDU6-12	TTL	TAP			1	20	0	5.5	12n	4.0n		780M		0	7		J02-1	MD30b
67	DDU6-16	TTL	TAP			1	20	0	5.5	16n	4.0n		780M		0	7		J02-1	MD30b
68	DDU6-20	TTL	TAP			1	20	0	5.5	20n	4.0n		780M		0	7		J02-1	MD30b
69	DDU6-30	TTL	TAP			1	20	0	5.5	30n	4.0n		780M		0	7		J02-1	MD30b
70	DDU6-35	TTL	TAP			1	20	0	5.5	30n	4.0n		780M		0	7		J02-1	MD30b
71	DDU6-40	TTL	TAP			1	20	0	5.5	40n	4.0n		780M		0	7		J02-1	MD30b
72	DDU6-45	TTL	TAP			1	20	0	5.5	45n	4.0n		780m		0	7		J02-1	MD30b
73	DDU6-50	TTL	TAP			1	20	0	5.5	50n	4.0n		780m		0	7		J02-1	MD30b
74	DDU6-60	TTL	TAP			1	20	0	5.5	60n	4.0n		780m		0	7		J02-1	MD30b
75	DDU6-75	TTL	TAP			1	20	0	5.5	75n	4.0n		780m		0	7		J02-1	MD30b
76	DDU6-100	TTL	TAP			1	20	0	5.5	100n	4.0n		780m		0	7		J02-1	MD30b
77	DDU6-125	TTL	TAP			1	20	0	5.5	125n	4.0n		780m		0	7		J02-1	MD30b
78	DDU6-150	TTL	TAP			1	20	0	5.5	150n	4.0n		780m		0	7		J02-1	MD30b
79	DDU6-175	TTL	TAP			1	20	0	5.5	175n	4.0n		780m		0	7		J02-1	MD30b
80	DDU6-200	TTL	TAP			1	20	0	5.5	200n	4.0n		780m		0	7		J02-1	MD30b
81	DDU6-250	TTL	TAP			1	20	0	5.5	250n	4.0n		780m		0	7		J02-1	MD30b
82	DDU7-10	TTL	TAP			1	20	0	5.5	9.0n	4.0n		740m		5	C		J02-16	MD30b
83	DDU7-20	TTL	TAP			1	20	0	5.5	18n	4.0n		740m		5	C		J02-16	MD30b
84	DDU7-25	TTL	TAP			1	20	0	5.5	22n	4.0n		740m		5	C		J02-16	MD30b
85	DDU7-50	TTL	TAP			1	20	0	5.5	45n	4.0n		740m		5	C		J02-16	MD30b
86	DDU7-100	TTL	TAP			1	20	0	5.5	100n	4.0n		740m		5	C		J02-16	MD30b
87	DDU7-150	TTL	TAP			1	20	0	5.5	150n	4.0n		740m		5	C		J02-16	MD30b
88	DDU7-200	TTL	TAP			1	20	0	5.5	200n	4.0n		740m		5	C		J02-16	MD30b
89	DDU7-250	TTL	TAP			1	20	0	5.5	250n	4.0n		740m		5	C		J02-16	MD30b
90	DDU7-300	TTL	TAP			1	20	0	5.5	300n	4.0n		740m		5	C		J02-16	MD30b
91	DDU7-400	TTL	TAP			1	20	0	5.5	400n	4.0n		740m		5	C		J02-16	MD30b
92	DDU7-500	TTL	TAP			1	20	0	5.5	500n	4.0n		740m		5	C		J02-16	MD30b
93▼	DMT301-1	TTL	TAP	2.0	0.8	1	10		5.0		140n	190n	740m		0	7		J02-37	DIP14e
94▼	DMT301-2	TTL	TAP	2.0	0.8	1	10		5.0		115n	215n	740m		0	7		J02-37	DIP14e
95▼	DMT301-3	TTL	TAP	2.0	0.8	1	10		5.0		190n	240n	740m		0	7		J02-37	DIP14e
96▼	DMT301-4	TTL	TAP	2.0	0.8	1	10		5.0		165n	265n	740m		0	7		J02-37	DIP14e
97▼	DMT301-5	TTL	TAP	2.0	0.8	1	10		5.0		215n	315n	740m		0	7		J02-37	DIP14e
98▼	DMT301-6	TTL	TAP	2.0	0.8	1	10		5.0		165n	335n	740m		0	7		J02-37	DIP14e
99▼	DMT301-7	TTL	TAP	2.0	0.8	1	10		5.0		115n	265n	740m		0	7		J02-37	DIP14e
100▼	DMT301-8	TTL	TAP	2.0	0.8	1	10		5.0		85n	235n	740m		0	7		J02-37	DIP14e
101▼	DMT301-9	TTL	TAP	2.0	0.8	1	10		5.0		220n	370n	740m		0	7		J02-37	DIP14e
102▼	DMT302-1	TTL	TAP	2.0	0.8	1	10		5.0		215n	315n	740m		0	7		J02-37	DIP14e
103▼	DMT302-2	TTL	TAP	2.0	0.8	1	10		5.0		240n	340n	740m		0	7		J02-37	DIP14e
104▼	DMT302-3	TTL	TAP	2.0	0.8	1	10		5.0		265n	365n	740m		0	7		J02-37	DIP14e
105▼	DMT303-1	TTL	TAP	2.0	0.8	1	10		5.0		250n	350n	740m		0	7		J02-37	DIP14e
106♦	DTZM1-25	TTL	TAP	2.0	0.8	1	20		5.0	25n	4.0n			0.3				J01-35	DIP14e
107♦	DTZM1-50	TTL	TAP	2.0	0.8	1	20		5.0	50n	4.0n			0.3				J01-35	DIP14e
108♦	DTZM1-100	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3				J01-35	DIP14e
109♦	DTZM1-150	TTL	TAP	2.0	0.8	1	20		5.0	150n	4.0n			0.3				J01-35	DIP14e
110♦	DTZM1-200	TTL	TAP	2.0	0.8	1	20		5.0	200n	4.0n			0.3				J01-35	DIP14e

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] D T E Y L P A E Y	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	DTZM1-250	TTL	TAP	2.0	0.8	1	20		5.0	250n	4.0n			0.3				J01-35	DIP14e
2♦	DTZM1-300	TTL	TAP	2.0	0.8	1	20		5.0	300n	4.0n			0.3				J01-35	DIP14e
3♦	DTZM1-350	TTL	TAP	2.0	0.8	1	20		5.0	350n	4.0n			0.3				J01-35	DIP14e
4♦	DTZM1-400	TTL	TAP	2.0	0.8	1	20		5.0	400n	4.0n			0.3				J01-35	DIP14e
5♦	DTZM1-450	TTL	TAP	2.0	0.8	1	20		5.0	450n	4.0n			0.3				J01-35	DIP14e
6♦	DTZM1-500	TTL	TAP	2.0	0.8	1	20		5.0	500n	4.0n			0.3				J01-35	DIP14e
7♦	DTZM1-1000	TTL	TAP	2.0	0.8	1	20		5.0	1.0u	4.0n			0.3				J01-35	DIP14e
8▼	EP8200	TTL	TAP	2.0	0.8	1	10		5.0	25n	4.0n			0.3	0	7		J02-38	MD14n
9▼	EP8201	TTL	TAP	2.0	0.8	1	10		5.0	50n	4.0n			0.3	0	7		J02-38	MD14n
10▼	EP8202	TTL	TAP	2.0	0.8	1	10		5.0	100n	4.0n			0.3	0	7		J02-38	MD14n
11▼	EP8203	TTL	TAP	2.0	0.8	1	10		5.0	150n	4.0n			0.3	0	7		J02-38	MD14n
12▼	EP8204	TTL	TAP	2.0	0.8	1	10		5.0	200n	4.0n			0.3	0	7		J02-38	MD14n
13▼	EP8205	TTL	TAP	2.0	0.8	1	10		5.0	250n	4.0n			0.3	0	7		J02-38	MD14n
14▼	EP8206	TTL	TAP	2.0	0.8	1	10		5.0	300n	4.0n			0.3	0	7		J02-38	MD14n
15▼	EP8207	TTL	TAP	2.0	0.8	1	10		5.0	350n	4.0n			0.3	0	7		J02-38	MD14n
16▼	EP8208	TTL	TAP	2.0	0.8	1	10		5.0	400n	4.0n			0.3	0	7		J02-38	MD14n
17▼	EP8209	TTL	TAP	2.0	0.8	1	10		5.0	450n	4.0n			0.3	0	7		J02-38	MD14n
18▼	EP8210	TTL	TAP	2.0	0.8	1	10		5.0	500n	5.0n			0.3	0	7		J02-38	MD14n
19▼	EP8211	TTL	TAP	2.0	0.8	1	10		5.0	60n	4.0n			0.3	0	7		J02-38	MD14n
20▼	EP8213	TTL	TAP	2.0	0.8	1	10		5.0	30n	4.0n			0.3	0	7		J02-38	MD14n
21▼	EP8214	TTL	TAP	2.0	0.8	1	10		5.0	35n	4.0n			0.3	0	7		J02-38	MD14n
22▼	EP8215	TTL	TAP	2.0	0.8	1	10		5.0	40n	4.0n			0.3	0	7		J02-38	MD14n
23▼	EP8216	TTL	TAP	2.0	0.8	1	10		5.0	45n	4.0n			0.3	0	7		J02-38	MD14n
24▼	EP8217	TTL	TAP	2.0	0.8	1	10		5.0	75n	4.0n			0.3	0	7		J02-38	MD14n
25▼	EP8218	TTL	TAP	2.0	0.8	1	10		5.0	420n	4.0n			0.3	0	7		J02-38	MD14n
26▼	EP8219	TTL	TAP	2.0	0.8	1	10		5.0	125n	4.0n			0.3	0	7		J02-38	MD14n
27▼	EP8220	TTL	TAP	2.0	0.8	1	10		5.0	175n	4.0n			0.3	0	7		J02-38	MD14n
28▼	EP8221	TTL	TAP	2.0	0.8	1	10		5.0	225n	4.0n			0.3	0	7		J02-38	MD14n
29▼	EP8222	TTL	TAP	2.0	0.8	1	10		5.0	440n	4.0n			0.3	0	7		J02-38	MD14n
30▼	EP8223	TTL	TAP	2.0	0.8	1	10		5.0	470n	4.0n			0.3	0	7		J02-38	MD14n
31▼	EP8224	TTL	TAP	2.0	0.8	1	10		5.0	600n	5.0n			0.3	0	7		J02-38	MD14n
32▼	EP8225	TTL	TAP	2.0	0.8	1	10		5.0	700n	5.0n			0.3	0	7		J02-38	MD14n
33▼	EP8226	TTL	TAP	2.0	0.8	1	10		5.0	800n	5.0n			0.3	0	7		J02-38	MD14n
34▼	EP8227	TTL	TAP	2.0	0.8	1	10		5.0	900n	5.0n			0.3	0	7		J02-38	MD14n
35▼	EP8228	TTL	TAP	2.0	0.8	1	10		5.0	1.0u	5.0n			0.3	0	7		J02-38	MD14n
36▼	EP8229	TTL	TAP	2.0	0.8	1	10		5.0	750n	5.0n			0.3	0	7		J02-38	MD14n
37▼	EP8230	TTL	TAP	2.0	0.8	1	10		5.0	550n	5.0n			0.3	0	7		J02-38	MD14n
38▼	EP8231	TTL	TAP	2.0	0.8	1	10		5.0	650n	5.0n			0.3	0	7		J02-38	MD14n
39▼	EP8232	TTL	TAP	2.0	0.8	1	10		5.0	850n	5.0n			0.3	0	7		J02-38	MD14n
40▼	EP8233	TTL	TAP	2.0	0.8	1	10		5.0	950n	5.0n			0.3	0	7		J02-38	MD14n
41▼	EP8270	TTL	TAP	2.0	0.8	1	10		5.0	50n	8.0			0.3	0	7		J02-38	MD14n
42▼	EP8271	TTL	TAP	2.0	0.8	1	10		5.0	55n	8.0			0.3	0	7		J02-38	MD14n
43▼	EP8272	TTL	TAP	2.0	0.8	1	10		5.0	60n	8.0			0.3	0	7		J02-38	MD14n
44▼	EP8273	TTL	TAP	2.0	0.8	1	10		5.0	65n	8.0			0.3	0	7		J02-38	MD14n
45▼	EP8274	TTL	TAP	2.0	0.8	1	10		5.0	70n	8.0			0.3	0	7		J02-38	MD14n
46▼	EP8275	TTL	TAP	2.0	0.8	1	10		5.0	75n	8.0			0.3	0	7		J02-38	MD14n
47▼	EP8276	TTL	TAP	2.0	0.8	1	10		5.0	80n	8.0			0.3	0	7		J02-38	MD14n
48▼	EP8277	TTL	TAP	2.0	0.8	1	10		5.0	85n	8.0			0.3	0	7		J02-38	MD14n
49▼	EP8278	TTL	TAP	2.0	0.8	1	10		5.0	90n	8.0			0.3	0	7		J02-38	MD14n
50▼	EP8279	TTL	TAP	2.0	0.8	1	10		5.0	95n	8.0			0.3	0	7		J02-38	MD14n
51▼	EP8280	TTL	TAP	2.0	0.8	1	10		5.0	100n	8.0			0.3	0	7		J02-38	MD14n
52▼	EP8281	TTL	TAP	2.0	0.8	1	10		5.0	125n	8.0			0.3	0	7		J02-38	MD14n
53▼	EP8282	TTL	TAP	2.0	0.8	1	10		5.0	150n	8.0			0.3	0	7		J02-38	MD14n
54▼	EP8283	TTL	TAP	2.0	0.8	1	10		5.0	175n	8.0			0.3	0	7		J02-38	MD14n
55▼	EP8284	TTL	TAP	2.0	0.8	1	10		5.0	200n	8.0			0.3	0	7		J02-38	MD14n
56▼	EP8285	TTL	TAP	2.0	0.8	1	10		5.0	225n	8.0			0.3	0	7		J02-38	MD14n
57▼	EP8286	TTL	TAP	2.0	0.8	1	10		5.0	250n	8.0			0.3	0	7		J02-38	MD14n
58▼	EP8287	TTL	TAP	2.0	0.8	1	10		5.0	275n	8.0			0.3	0	7		J02-38	MD14n
59▼	EP8288	TTL	TAP	2.0	0.8	1	10		5.0	300n	8.0			0.3	0	7		J02-38	MD14n
60▼	EP8289	TTL	TAP	2.0	0.8	1	10		5.0	350n	8.0			0.3	0	7		J02-38	MD14n
61▼	EP8290	TTL	TAP	2.0	0.8	1	10		5.0	400n	8.0			0.3	0	7		J02-38	MD14n
62▼	EP8291	TTL	TAP	2.0	0.8	1	10		5.0	450n	8.0			0.3	0	7		J02-38	MD14n
63▼	EP8292	TTL	TAP	2.0	0.8	1	10		5.0	500n	8.0			0.3	0	7		J02-38	MD14n
64▼	EP9100	TTL	TAP	2.0	0.8	1	10		5.0	25n	4.0n			0.3	0	7		J02-39	LC28b
65▼	EP9101	TTL	TAP	2.0	0.8	1	10		5.0	30n	4.0n			0.3	0	7		J02-39	LC28b
66▼	EP9102	TTL	TAP	2.0	0.8	1	10		5.0	35n	4.0n			0.3	0	7		J02-39	LC28b
67▼	EP9103	TTL	TAP	2.0	0.8	1	10		5.0	40n	4.0n			0.3	0	7		J02-39	LC28b
68▼	EP9104	TTL	TAP	2.0	0.8	1	10		5.0	45n	4.0n			0.3	0	7		J02-39	LC28b
69▼	EP9105	TTL	TAP	2.0	0.8	1	10		5.0	50n	4.0n			0.3	0	7		J02-39	LC28b
70▼	EP9106	TTL	TAP	2.0	0.8	1	10		5.0	60n	4.0n			0.3	0	7		J02-39	LC28b
71▼	EP9107	TTL	TAP	2.0	0.8	1	10		5.0	75n	4.0n			0.3	0	7		J02-39	LC28b
72▼	EP9108	TTL	TAP	2.0	0.8	1	10		5.0	100n	4.0n			0.3	0	7		J02-39	LC28b
73▼	EP9109	TTL	TAP	2.0	0.8	1	10		5.0	125n	4.0n			0.3	0	7		J02-39	LC28b
74▼	EP9110	TTL	TAP	2.0	0.8	1	10		5.0	150n	4.0n			0.3	0	7		J02-39	LC28b
75▼	EP9111	TTL	TAP	2.0	0.8	1	10		5.0	175n	4.0n			0.3	0	7		J02-39	LC28b
76▼	EP9112	TTL	TAP	2.0	0.8	1	10		5.0	200n	4.0n			0.3	0	7		J02-39	LC28b
77▼	EP9113	TTL	TAP	2.0	0.8	1	10		5.0	225n	4.0n			0.3	0	7		J02-39	LC28b
78▼	EP9114	TTL	TAP	2.0	0.8	1	10		5.0	250n	4.0n			0.3	0	7		J02-39	LC28b
79▼	EP9115	TTL	TAP	2.0	0.8	1	10		5.0	25n	4.0n			0.3	0	7		J02-39	MD28a
80▼	EP9116	TTL	TAP	2.0	0.8	1	10		5.0	30n	4.0n			0.3	0	7		J02-39	MD28a
81▼	EP9117	TTL	TAP	2.0	0.8	1	10		5.0	35n	4.0n			0.3	0	7		J02-39	MD28a
82▼	EP9118	TTL	TAP	2.0	0.8	1	10		5.0	40n	4.0n			0.3	0	7		J02-39	MD28a
83▼	EP9119	TTL	TAP	2.0	0.8	1	10		5.0	45n	4.0n			0.3	0	7		J02-39	MD28a
84▼	EP9120	TTL	TAP	2.0	0.8	1	10		5.0	50n	4.0n			0.3	0	7		J02-39	MD28a
85▼	EP9121	TTL	TAP	2.0	0.8	1	10		5.0	60n	4.0n			0.3	0	7		J02-39	MD28a
86▼	EP9122	TTL	TAP	2.0	0.8	1	10		5.0	75n	4.0n			0.3	0	7		J02-39	MD28a
87▼	EP9123	TTL	TAP	2.0	0.8	1	10		5.0	100n	4.0n			0.3	0	7		J02-39	MD28a
88▼	EP9124	TTL	TAP	2.0	0.8	1	10		5.0	125n	4.0n			0.3	0	7		J02-39	MD28a
89▼	EP9125	TTL	TAP	2.0	0.8	1	10		5.0	150n	4.0n			0.3	0	7		J02-39	MD28a
90▼	EP9126	TTL	TAP	2.0	0.8	1	10		5.0	175n	4.0n			0.3	0	7		J02-39	MD28a
91▼	EP9127	TTL	TAP	2.0	0.8	1	10		5.0	200n	4.0n			0.3	0	7		J02-39	MD28a
92▼	EP9128	TTL	TAP	2.0	0.8	1	10		5.0	225n	4.0n			0.3	0	7		J02-39	MD28a
93▼	EP9129	TTL	TAP	2.0	0.8	1	10		5.0	250n	4.0n			0.3	0	7		J02-39	MD28a
94▼	EP9300	TTL	TAP	2.0	0.8	1	10		5.0	25n	4.0n			0.3	0	7		J02-38	DIP14a
95▼	EP9301	TTL	TAP	2.0	0.8	1	10		5.0	50n	4.0n			0.3	0	7		J02-38	DIP14a
96▼	EP9302	TTL	TAP	2.0	0.8	1	10		5.0	100n	4.0n			0.3	0	7		J02-38	DIP14a
97▼	EP9303	TTL	TAP	2.0	0.8	1	10		5.0	150n	4.0n			0.3	0	7		J02-38	DIP14a
98▼	EP9304	TTL	TAP	2.0	0.8	1	10		5.0	200n	4.0n			0.3	0	7		J02-38	DIP14a
99▼	EP9305	TTL	TAP	2.0	0.8	1	10		5.0	250n	4.0n			0.3	0	7		J02-38	DIP14a
100▼	EP9306	TTL	TAP	2.0	0.8	1	10		5.0	300n	4.0n			0.3	0	7		J02-38	DIP14a
101▼	EP9307	TTL	TAP	2.0	0.8	1	10		5.0	350n	4.0n			0.3	0	7		J02-38	DIP14a
102▼	EP9308	TTL	TAP	2.0	0.8	1	10		5.0	400n	4.0n			0.3	0	7		J02-38	DIP14a
103▼	EP9309	TTL	TAP	2.0	0.8	1	10		5.0	450n	4.0n			0.3	0	7		J02-38	DIP14a
104▼	EP9310	TTL	TAP	2.0	0.8	1	10		5.0	500n	4.0n			0.3	0	7		J02-38	DIP14a
105▼	EP9311	TTL	TAP	2.0	0.8	1	10		5.0	60n	4.0n			0.3	0	7		J02-38	DIP14a
106▼	EP9313	TTL	TAP	2.0	0.8	1	10		5.0	30n	4.0n			0.3	0	7		J02-38	DIP14a
107▼	EP9314	TTL	TAP	2.0	0.8	1	10		5.0	35n	4.0n			0.3	0	7		J02-38	DIP14a
108▼	EP9315	TTL	TAP	2.0	0.8	1	10		5.0	40n	4.0n			0.3	0	7		J02-38	DIP14a
109▼	EP9316	TTL	TAP	2.0	0.8	1	10		5.0	45n	4.0n			0.3	0	7		J02-38	DIP14a
110▼	EP9317	TTL	TAP	2.0	0.8	1	10		5.0	75n	4.0n			0.3	0	7		J02-38	DIP14a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] TYPE DELAY	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1▼	EP9318	TTL	TAP	2.0	0.8	1	10		5.0	420n	4.0n			0.3	0	7		J02-38	DIP14a
2▼	EP9319	TTL	TAP	2.0	0.8	1	10		5.0	125n	4.0n			0.3	0	7		J02-38	DIP14a
3▼	EP9320	TTL	TAP	2.0	0.8	1	10		5.0	175n	4.0n			0.3	0	7		J02-38	DIP14a
4▼	EP9321	TTL	TAP	2.0	0.8	1	10		5.0	225n	4.0n			0.3	0	7		J02-38	DIP14a
5▼	EP9322	TTL	TAP	2.0	0.8	1	10		5.0	440n	4.0n			0.3	0	7		J02-38	DIP14a
6▼	EP9323	TTL	TAP	2.0	0.8	1	10		5.0	470n	4.0n			0.3	0	7		J02-38	DIP14a
7▼	EP9324	TTL	TAP	2.0	0.8	1	10		5.0	600n	5.0n			0.3	0	7		J02-38	DIP14a
8▼	EP9325	TTL	TAP	2.0	0.8	1	10		5.0	700n	5.0n			0.3	0	7		J02-38	DIP14a
9▼	EP9326	TTL	TAP	2.0	0.8	1	10		5.0	800n	5.0n			0.3	0	7		J02-38	DIP14a
10▼	EP9327	TTL	TAP	2.0	0.8	1	10		5.0	900n	5.0n			0.3	0	7		J02-38	DIP14a
11▼	EP9328	TTL	TAP	2.0	0.8	1	10		5.0	1.0u	5.0n			0.3	0	7		J02-38	DIP14a
12▼	EP9329	TTL	TAP	2.0	0.8	1	10		5.0	750n	5.0n			0.3	0	7		J02-38	DIP14a
13▼	EP9330	TTL	TAP	2.0	0.8	1	10		5.0	550n	5.0n			0.3	0	7		J02-38	DIP14a
14▼	EP9331	TTL	TAP	2.0	0.8	1	10		5.0	650n	5.0n			0.3	0	7		J02-38	DIP14a
15▼	EP9332	TTL	TAP	2.0	0.8	1	10		5.0	850n	5.0n			0.3	0	7		J02-38	DIP14a
16▼	EP9333	TTL	TAP	2.0	0.8	1	10		5.0	950n	5.0n			0.3	0	7		J02-38	DIP14a
17▼	EP9458-25	TTL	TAP	2.0	0.8	1	10		5.0	25n	4.0n			0.3	0	7		J02-40	DIP8b
18▼	EP9458-30	TTL	TAP	2.0	0.8	1	10		5.0	30n	4.0n			0.3	0	7		J02-40	DIP8b
19▼	EP9458-35	TTL	TAP	2.0	0.8	1	10		5.0	35n	4.0n			0.3	0	7		J02-40	DIP8b
20▼	EP9458-40	TTL	TAP	2.0	0.8	1	10		5.0	40n	4.0n			0.3	0	7		J02-40	DIP8b
21▼	EP9458-45	TTL	TAP	2.0	0.8	1	10		5.0	45n	4.0n			0.3	0	7		J02-40	DIP8b
22▼	EP9458-50	TTL	TAP	2.0	0.8	1	10		5.0	50n	4.0n			0.3	0	7		J02-40	DIP8b
23▼	EP9458-60	TTL	TAP	2.0	0.8	1	10		5.0	60n	4.0n			0.3	0	7		J02-40	DIP8b
24▼	EP9458-75	TTL	TAP	2.0	0.8	1	10		5.0	75n	4.0n			0.3	0	7		J02-40	DIP8b
25▼	EP9458-100	TTL	TAP	2.0	0.8	1	10		5.0	100n	4.0n			0.3	0	7		J02-40	DIP8b
26▼	EP9458-125	TTL	TAP	2.0	0.8	1	10		5.0	125n	4.0n			0.3	0	7		J02-40	DIP8b
27▼	EP9458-150	TTL	TAP	2.0	0.8	1	10		5.0	150n	4.0n			0.3	0	7		J02-40	DIP8b
28▼	EP9458-175	TTL	TAP	2.0	0.8	1	10		5.0	175n	4.0n			0.3	0	7		J02-40	DIP8b
29▼	EP9458-200	TTL	TAP	2.0	0.8	1	10		5.0	200n	4.0n			0.3	0	7		J02-40	DIP8b
30▼	EP9458-225	TTL	TAP	2.0	0.8	1	10		5.0	225n	4.0n			0.3	0	7		J02-40	DIP8b
31▼	EP9458-250	TTL	TAP	2.0	0.8	1	10		5.0	250n	4.0n			0.3	0	7		J02-40	DIP8b
32▼	EP9590-25	TTL	TAP	2.0	0.8	1	10		5.0	25n	4.0			0.3	5	C		J02-38	MD14o
33▼	EP9590-30	TTL	TAP	2.0	0.8	1	10		5.0	30n	4.0			0.3	5	C		J02-38	MD14o
34▼	EP9590-35	TTL	TAP	2.0	0.8	1	10		5.0	35n	4.0			0.3	5	C		J02-38	MD14o
35▼	EP9590-40	TTL	TAP	2.0	0.8	1	10		5.0	40n	4.0			0.3	5	C		J02-38	MD14o
36▼	EP9590-45	TTL	TAP	2.0	0.8	1	10		5.0	45n	4.0			0.3	5	C		J02-38	MD14o
37▼	EP9590-50	TTL	TAP	2.0	0.8	1	10		5.0	50n	4.0			0.3	5	C		J02-38	MD14o
38▼	EP9590-60	TTL	TAP	2.0	0.8	1	10		5.0	60n	4.0			0.3	5	C		J02-38	MD14o
39▼	EP9590-75	TTL	TAP	2.0	0.8	1	10		5.0	75n	4.0			0.3	5	C		J02-38	MD14o
40▼	EP9590-100	TTL	TAP	2.0	0.8	1	10		5.0	100n	4.0			0.3	5	C		J02-38	MD14o
41▼	EP9590-125	TTL	TAP	2.0	0.8	1	10		5.0	125n	4.0			0.3	5	C		J02-38	MD14o
42▼	EP9590-150	TTL	TAP	2.0	0.8	1	10		5.0	150n	4.0			0.3	5	C		J02-38	MD14o
43▼	EP9590-175	TTL	TAP	2.0	0.8	1	10		5.0	175n	4.0			0.3	5	C		J02-38	MD14o
44▼	EP9590-200	TTL	TAP	2.0	0.8	1	10		5.0	200n	4.0			0.3	5	C		J02-38	MD14o
45▼	EP9590-225	TTL	TAP	2.0	0.8	1	10		5.0	225n	4.0			0.3	5	C		J02-38	MD14o
46▼	EP9590-250	TTL	TAP	2.0	0.8	1	10		5.0	250n	4.0			0.3	5	C		J02-38	MD14o
47▼	EP9677-4	TTL	TAP	2.0	0.8	1	10		5.0	11n	4.0n			0.3	0	7		J02-41	SL8E
48▼	EP9677-6	TTL	TAP	2.0	0.8	1	10		5.0	13n	4.0n			0.3	0	7		J02-41	SL8E
49▼	EP9677-8	TTL	TAP	2.0	0.8	1	10		5.0	15n	4.0n			0.3	0	7		J02-41	SL8E
50▼	EP9677-10	TTL	TAP	2.0	0.8	1	10		5.0	17n	4.0n			0.3	0	7		J02-41	SL8E
51▼	EP9677-12	TTL	TAP	2.0	0.8	1	10		5.0	19n	4.0n			0.3	0	7		J02-41	SL8E
52▼	EP9677-16	TTL	TAP	2.0	0.8	1	10		5.0	23n	4.0n			0.3	0	7		J02-41	SL8E
53▼	EP9677-20	TTL	TAP	2.0	0.8	1	10		5.0	27n	4.0n			0.3	0	7		J02-41	SL8E
54▼	EP9677-30	TTL	TAP	2.0	0.8	1	10		5.0	30n	4.0n			0.3	0	7		J02-41	SL8E
55▼	EP9677-35	TTL	TAP	2.0	0.8	1	10		5.0	35n	4.0n			0.3	0	7		J02-41	SL8E
56▼	EP9677-40	TTL	TAP	2.0	0.8	1	10		5.0	40n	4.0n			0.3	0	7		J02-41	SL8E
57▼	EP9677-45	TTL	TAP	2.0	0.8	1	10		5.0	45n	4.0n			0.3	0	7		J02-41	SL8E
58▼	EP9677-50	TTL	TAP	2.0	0.8	1	10		5.0	50n	4.0n			0.3	0	7		J02-41	SL8E
59▼	EP9677-60	TTL	TAP	2.0	0.8	1	10		5.0	60n	4.0n			0.3	0	7		J02-41	SL8E
60▼	EP9677-75	TTL	TAP	2.0	0.8	1	10		5.0	75n	4.0n			0.3	0	7		J02-41	SL8E
61▼	EP9677-100	TTL	TAP	2.0	0.8	1	10		5.0	100n	4.0n			0.3	0	7		J02-41	SL8E
62▼	EP9677-125	TTL	TAP	2.0	0.8	1	10		5.0	125n	4.0n			0.3	0	7		J02-41	SL8E
63▼	EP9677-150	TTL	TAP	2.0	0.8	1	10		5.0	150n	4.0n			0.3	0	7		J02-41	SL8E
64▼	EP9677-175	TTL	TAP	2.0	0.8	1	10		5.0	175n	4.0n			0.3	0	7		J02-41	SL8E
65▼	EP9677-200	TTL	TAP	2.0	0.8	1	10		5.0	200n	4.0n			0.3	0	7		J02-41	SL8E
66▼	EP9677-250	TTL	TAP	2.0	0.8	1	10		5.0	250n	4.0n			0.3	0	7		J02-41	SL8E
67▼	EP9677-300	TTL	TAP	2.0	0.8	1	10		5.0	300n	4.0n			0.3	0	7		J02-41	SL8E
68▼	EP9677-350	TTL	TAP	2.0	0.8	1	10		5.0	350n	4.0n			0.3	0	7		J02-41	SL8E
69▼	EP9677-400	TTL	TAP	2.0	0.8	1	10		5.0	400n	4.0n			0.3	0	7		J02-41	SL8E
70▼	EP9677-450	TTL	TAP	2.0	0.8	1	10		5.0	450n	4.0n			0.3	0	7		J02-41	SL8E
71▼	EP9677-500	TTL	TAP	2.0	0.8	1	10		5.0	500n	4.0n			0.3	0	7		J02-41	SL8E
72▼	EP9810-25	TTL	TAP	2.0	0.8	1	10		5.0	25n	4.0n			0.3	0	7		J02-38	MD14o
73▼	EP9810-30	TTL	TAP	2.0	0.8	1	10		5.0	30n	4.0n			0.3	0	7		J02-38	MD14o
74▼	EP9810-35	TTL	TAP	2.0	0.8	1	10		5.0	35n	4.0n			0.3	0	7		J02-38	MD14o
75▼	EP9810-40	TTL	TAP	2.0	0.8	1	10		5.0	40n	4.0n			0.3	0	7		J02-38	MD14o
76▼	EP9810-45	TTL	TAP	2.0	0.8	1	10		5.0	45n	4.0n			0.3	0	7		J02-38	MD14o
77▼	EP9810-50	TTL	TAP	2.0	0.8	1	10		5.0	50n	4.0n			0.3	0	7		J02-38	MD14o
78▼	EP9810-60	TTL	TAP	2.0	0.8	1	10		5.0	60n	4.0n			0.3	0	7		J02-38	MD14o
79▼	EP9810-75	TTL	TAP	2.0	0.8	1	10		5.0	75n	4.0n			0.3	0	7		J02-38	MD14o
80▼	EP9810-100	TTL	TAP	2.0	0.8	1	10		5.0	100n	4.0n			0.3	0	7		J02-38	MD14o
81▼	EP9810-125	TTL	TAP	2.0	0.8	1	10		5.0	125n	4.0n			0.3	0	7		J02-38	MD14o
82▼	EP9810-150	TTL	TAP	2.0	0.8	1	10		5.0	150n	4.0n			0.3	0	7		J02-38	MD14o
83▼	EP9810-175	TTL	TAP	2.0	0.8	1	10		5.0	175n	4.0n			0.3	0	7		J02-38	MD14o
84▼	EP9810-200	TTL	TAP	2.0	0.8	1	10		5.0	200n	4.0n			0.3	0	7		J02-38	MD14o
85▼	EP9810-225	TTL	TAP	2.0	0.8	1	10		5.0	225n	4.0n			0.3	0	7		J02-38	MD14o
86▼	EP9810-250	TTL	TAP	2.0	0.8	1	10		5.0	250n	4.0n			0.3	0	7		J02-38	MD14o
87▼	EP9810-300	TTL	TAP	2.0	0.8	1	10		5.0	300n	4.0n			0.3	0	7		J02-38	MD14o
88▼	EP9810-350	TTL	TAP	2.0	0.8	1	10		5.0	350n	4.0n			0.3	0	7		J02-38	MD14o
89▼	EP9810-400	TTL	TAP	2.0	0.8	1	10		5.0	400n	4.0n			0.3	0	7		J02-38	MD14o
90▼	EP9810-420	TTL	TAP	2.0	0.8	1	10		5.0	420n	4.0n			0.3	0	7		J02-38	MD14o
91▼	EP9810-440	TTL	TAP	2.0	0.8	1	10		5.0	440n	4.0n			0.3	0	7		J02-38	MD14o
92▼	EP9810-450	TTL	TAP	2.0	0.8	1	10		5.0	450n	4.0n			0.3	0	7		J02-38	MD14o
93▼	EP9810-470	TTL	TAP	2.0	0.8	1	10		5.0	470n	4.0n			0.3	0	7		J02-38	MD14o
94▼	EP9810-500	TTL	TAP	2.0	0.8	1	10		5.0	500n	4.0n			0.3	0	7		J02-38	MD14o
95▼	EP9810-550	TTL	TAP	2.0	0.8	1	10		5.0	550n	5.0n			0.3	0	7		J02-38	MD14o
96▼	EP9810-600	TTL	TAP	2.0	0.8	1	10		5.0	600n	5.0n			0.3	0	7		J02-38	MD14o
97▼	EP9810-650	TTL	TAP	2.0	0.8	1	10		5.0	650n	5.0n			0.3	0	7		J02-38	MD14o
98▼	EP9810-700	TTL	TAP	2.0	0.8	1	10		5.0	700n	5.0n			0.3	0	7		J02-38	MD14o
99▼	EP9810-750	TTL	TAP	2.0	0.8	1	10		5.0	750n	5.0n			0.3	0	7		J02-38	MD14o
100▼	EP9810-800	TTL	TAP	2.0	0.8	1	10		5.0	800n	5.0n			0.3	0	7		J02-38	MD14o
101▼	EP9810-850	TTL	TAP	2.0	0.8	1	10		5.0	850n	5.0n			0.3	0	7		J02-38	MD14o
102▼	EP9810-900	TTL	TAP	2.0	0.8	1	10		5.0	900n	5.0n			0.3	0	7		J02-38	MD14o
103▼	EP9810-950	TTL	TAP	2.0	0.8	1	10		5.0	950n	5.0n			0.3	0	7		J02-38	MD14o
104▼	EP9810-1000	TTL	TAP	2.0	0.8	1	10		5.0	1.0u	5.0n			0.3	0	7		J02-38	MD14o
105▼	EPA054-25	TTL	TAP	2.0	0.8	1	10		5.0	25n	4.0n			0.3	0	7		J02-42	DIP16b
106▼	EPA054-30	TTL	TAP	2.0	0.8	1	10		5.0	30n	4.0n			0.3	0	7		J02-42	DIP16b
107▼	EPA054-35	TTL	TAP	2.0	0.8	1	10		5.0	35n	4.0n			0.3	0	7		J02-42	DIP16b
108▼	EPA054-40	TTL	TAP	2.0	0.8	1	10		5.0	40n	4.0n			0.3	0	7		J02-42	DIP16b
109▼	EPA054-45	TTL	TAP	2.0	0.8	1	10		5.0	45n	4.0n			0.3	0	7		J02-42	DIP16b
110▼	EPA054-50	TTL	TAP	2.0	0.8	1	10		5.0	50n	4.0n			0.3	0	7		J02-42	DIP16b

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	3 TECH	1 D TYPE	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	2 CKTS PER PKG	(SEE "DRAWING INDEX" FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	EPA054-60	TTL	TAP	2.0	0.8	1	10		5.0	60n	4.0n			0.3	0	7		J02-42	DIP16b
2▼	EPA054-75	TTL	TAP	2.0	0.8	1	10		5.0	75n	4.0n			0.3	0	7		J02-42	DIP16b
3▼	EPA054-100	TTL	TAP	2.0	0.8	1	10		5.0	100n	4.0n			0.3	0	7		J02-42	DIP16b
4▼	EPA054-125	TTL	TAP	2.0	0.8	1	10		5.0	125n	4.0n			0.3	0	7		J02-42	DIP16b
5▼	EPA054-150	TTL	TAP	2.0	0.8	1	10		5.0	150n	4.0n			0.3	0	7		J02-42	DIP16b
6▼	EPA054-175	TTL	TAP	2.0	0.8	1	10		5.0	175n	4.0n			0.3	0	7		J02-42	DIP16b
7▼	EPA054-200	TTL	TAP	2.0	0.8	1	10		5.0	200n	4.0n			0.3	0	7		J02-42	DIP16b
8▼	EPA054-225	TTL	TAP	2.0	0.8	1	10		5.0	225n	4.0n			0.3	0	7		J02-42	DIP16b
9▼	EPA054-250	TTL	TAP	2.0	0.8	1	10		5.0	250n	4.0n			0.3	0	7		J02-42	DIP16b
10▼	EPA054-300	TTL	TAP	2.0	0.8	1	10		5.0	300n	4.0n			0.3	0	7		J02-42	DIP16b
11▼	EPA054-350	TTL	TAP	2.0	0.8	1	10		5.0	350n	4.0n			0.3	0	7		J02-42	DIP16b
12▼	EPA054-400	TTL	TAP	2.0	0.8	1	10		5.0	400n	4.0n			0.3	0	7		J02-42	DIP16b
13▼	EPA054-420	TTL	TAP	2.0	0.8	1	10		5.0	420n	4.0n			0.3	0	7		J02-42	DIP16b
14▼	EPA054-440	TTL	TAP	2.0	0.8	1	10		5.0	440n	4.0n			0.3	0	7		J02-42	DIP16b
15▼	EPA054-450	TTL	TAP	2.0	0.8	1	10		5.0	450n	4.0n			0.3	0	7		J02-42	DIP16b
16▼	EPA054-470	TTL	TAP	2.0	0.8	1	10		5.0	470n	4.0n			0.3	0	7		J02-42	DIP16b
17▼	EPA054-500	TTL	TAP	2.0	0.8	1	10		5.0	500n	4.0n			0.3	0	7		J02-42	DIP16b
18▼	EPA054-550	TTL	TAP	2.0	0.8	1	10		5.0	550n	5.0n			0.3	0	7		J02-42	DIP16b
19▼	EPA054-600	TTL	TAP	2.0	0.8	1	10		5.0	600n	5.0n			0.3	0	7		J02-42	DIP16b
20▼	EPA054-650	TTL	TAP	2.0	0.8	1	10		5.0	650n	5.0n			0.3	0	7		J02-42	DIP16b
21▼	EPA054-700	TTL	TAP	2.0	0.8	1	10		5.0	700n	5.0n			0.3	0	7		J02-42	DIP16b
22▼	EPA054-750	TTL	TAP	2.0	0.8	1	10		5.0	750n	5.0n			0.3	0	7		J02-42	DIP16b
23▼	EPA054-800	TTL	TAP	2.0	0.8	1	10		5.0	800n	5.0n			0.3	0	7		J02-42	DIP16b
24▼	EPA054-850	TTL	TAP	2.0	0.8	1	10		5.0	850n	5.0n			0.3	0	7		J02-42	DIP16b
25▼	EPA054-900	TTL	TAP	2.0	0.8	1	10		5.0	900n	5.0n			0.3	0	7		J02-42	DIP16b
26▼	EPA054-950	TTL	TAP	2.0	0.8	1	10		5.0	950n	5.0n			0.3	0	7		J02-42	DIP16b
27▼	EPA054-1000	TTL	TAP	2.0	0.8	1	10		5.0	1.0u	5.0n			0.3	0	7		J02-42	DIP16b
28▼	EPA073-25	TTL	TAP	2.0	0.8	1	10		5.0	25n	4.0n			0.3	0	7		J02-38	MD14p
29▼	EPA073-30	TTL	TAP	2.0	0.8	1	10		5.0	30n	4.0n			0.3	0	7		J02-38	MD14p
30▼	EPA073-35	TTL	TAP	2.0	0.8	1	10		5.0	35n	4.0n			0.3	0	7		J02-38	MD14p
31▼	EPA073-40	TTL	TAP	2.0	0.8	1	10		5.0	40n	4.0n			0.3	0	7		J02-38	MD14p
32▼	EPA073-45	TTL	TAP	2.0	0.8	1	10		5.0	45n	4.0n			0.3	0	7		J02-38	MD14p
33▼	EPA073-50	TTL	TAP	2.0	0.8	1	10		5.0	50n	4.0n			0.3	0	7		J02-38	MD14p
34▼	EPA073-60	TTL	TAP	2.0	0.8	1	10		5.0	60n	4.0n			0.3	0	7		J02-38	MD14p
35▼	EPA073-75	TTL	TAP	2.0	0.8	1	10		5.0	75n	4.0n			0.3	0	7		J02-38	MD14p
36▼	EPA073-100	TTL	TAP	2.0	0.8	1	10		5.0	100n	4.0n			0.3	0	7		J02-38	MD14p
37▼	EPA073-125	TTL	TAP	2.0	0.8	1	10		5.0	125n	4.0n			0.3	0	7		J02-38	MD14p
38▼	EPA073-150	TTL	TAP	2.0	0.8	1	10		5.0	150n	4.0n			0.3	0	7		J02-38	MD14p
39▼	EPA073-175	TTL	TAP	2.0	0.8	1	10		5.0	175n	4.0n			0.3	0	7		J02-38	MD14p
40▼	EPA073-200	TTL	TAP	2.0	0.8	1	10		5.0	200n	4.0n			0.3	0	7		J02-38	MD14p
41▼	EPA073-225	TTL	TAP	2.0	0.8	1	10		5.0	225n	4.0n			0.3	0	7		J02-38	MD14p
42▼	EPA073-250	TTL	TAP	2.0	0.8	1	10		5.0	250n	4.0n			0.3	0	7		J02-38	MD14p
43▼	EPA073-300	TTL	TAP	2.0	0.8	1	10		5.0	300n	4.0n			0.3	0	7		J02-38	MD14p
44▼	EPA073-350	TTL	TAP	2.0	0.8	1	10		5.0	350n	4.0n			0.3	0	7		J02-38	MD14p
45▼	EPA073-400	TTL	TAP	2.0	0.8	1	10		5.0	400n	4.0n			0.3	0	7		J02-38	MD14p
46▼	EPA073-420	TTL	TAP	2.0	0.8	1	10		5.0	420n	4.0n			0.3	0	7		J02-38	MD14p
47▼	EPA073-440	TTL	TAP	2.0	0.8	1	10		5.0	440n	4.0n			0.3	0	7		J02-38	MD14p
48▼	EPA073-450	TTL	TAP	2.0	0.8	1	10		5.0	450n	4.0n			0.3	0	7		J02-38	MD14p
49▼	EPA073-470	TTL	TAP	2.0	0.8	1	10		5.0	470n	4.0n			0.3	0	7		J02-38	MD14p
50▼	EPA073-500	TTL	TAP	2.0	0.8	1	10		5.0	500n	4.0n			0.3	0	7		J02-38	MD14p
51▼	EPA073-550	TTL	TAP	2.0	0.8	1	10		5.0	550n	5.0n			0.3	0	7		J02-38	MD14p
52▼	EPA073-600	TTL	TAP	2.0	0.8	1	10		5.0	600n	5.0n			0.3	0	7		J02-38	MD14p
53▼	EPA073-650	TTL	TAP	2.0	0.8	1	10		5.0	650n	5.0n			0.3	0	7		J02-38	MD14p
54▼	EPA073-700	TTL	TAP	2.0	0.8	1	10		5.0	700n	5.0n			0.3	0	7		J02-38	MD14p
55▼	EPA073-750	TTL	TAP	2.0	0.8	1	10		5.0	750n	5.0n			0.3	0	7		J02-38	MD14p
56▼	EPA073-800	TTL	TAP	2.0	0.8	1	10		5.0	800n	5.0n			0.3	0	7		J02-38	MD14p
57▼	EPA073-850	TTL	TAP	2.0	0.8	1	10		5.0	850n	5.0n			0.3	0	7		J02-38	MD14p
58▼	EPA073-900	TTL	TAP	2.0	0.8	1	10		5.0	900n	5.0n			0.3	0	7		J02-38	MD14p
59▼	EPA073-950	TTL	TAP	2.0	0.8	1	10		5.0	950n	5.0n			0.3	0	7		J02-38	MD14p
60▼	EPA073-1000	TTL	TAP	2.0	0.8	1	10		5.0	1.0u	5.0n			0.3	0	7		J02-38	MD14p
61♦	SDM25	TTL	TAP	2.0	0.8	1	20		5.0	25n	4.0n			0.3				J01-34	DIP8d
62♦	SDM50	TTL	TAP	2.0	0.8	1	20		5.0	50n	4.0n			0.3				J01-34	DIP8d
63♦	SDM100	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3				J01-34	DIP8d
64♦	SDM150	TTL	TAP	2.0	0.8	1	20		5.0	150n	4.0n			0.3				J01-34	DIP8d
65♦	SDM200	TTL	TAP	2.0	0.8	1	20		5.0	200n	4.0n			0.3				J01-34	DIP8d
66♦	SDM250	TTL	TAP	2.0	0.8	1	20		5.0	250n	4.0n			0.3				J01-34	DIP8d
67♦	SDM300	TTL	TAP	2.0	0.8	1	20		5.0	300n	4.0n			0.3				J01-34	DIP8d
68♦	SDM350	TTL	TAP	2.0	0.8	1	20		5.0	350n	4.0n			0.3				J01-34	DIP8d
69♦	SDM400	TTL	TAP	2.0	0.8	1	20		5.0	400n	4.0n			0.3				J01-34	DIP8d
70♦	SDM450	TTL	TAP	2.0	0.8	1	20		5.0	450n	4.0n			0.3				J01-34	DIP8d
71♦	SDM500	TTL	TAP	2.0	0.8	1	20		5.0	500n	4.0n			0.3				J01-34	DIP8d
72	SMD91-5004	TTL	TAP			1	20		5.25	4.0n	2.0n				0	7		J02-33	MD141
73	SMD91-5006	TTL	TAP			1	20		5.25	6.0n	2.0n				0	7		J02-33	MD141
74	SMD91-5008	TTL	TAP			1	20		5.25	8.0n	2.0n				0	7		J02-33	MD141
75	SMD91-5010	TTL	TAP			1	20		5.25	10n	2.0n				0	7		J02-33	MD141
76	SMD91-5012	TTL	TAP			1	20		5.25	12n	2.0n				0	7		J02-33	MD141
77	SMD91-5016	TTL	TAP			1	20		5.25	16n	2.0n				0	7		J02-33	MD141
78	SMD91-5020	TTL	TAP			1	20		5.25	20n	2.0n				0	7		J02-33	MD141
79	SMD91-5030	TTL	TAP			1	20		5.25	30n	2.0n				0	7		J02-33	MD141
80	SMD91-5035	TTL	TAP			1	20		5.25	35n	2.0n				0	7		J02-33	MD141
81	SMD91-5040	TTL	TAP			1	20		5.25	40n	2.0n				0	7		J02-33	MD141
82	SMD91-5045	TTL	TAP			1	20		5.25	45n	2.0n				0	7		J02-33	MD141
83	SMD91-5050	TTL	TAP			1	20		5.25	50n	2.0n				0	7		J02-33	MD141
84	SMD91-5060	TTL	TAP			1	20		5.25	60n	2.0n				0	7		J02-33	MD141
85	SMD91-5075	TTL	TAP			1	20		5.25	75n	2.0n				0	7		J02-33	MD141
86	SMD91-5100	TTL	TAP			1	20		5.25	100n	2.0n				0	7		J02-33	MD141
87	SMD91-5125	TTL	TAP			1	20		5.25	125n	2.0n				0	7		J02-33	MD141
88	SMD91-5150	TTL	TAP			1	20		5.25	150n	2.0n				0	7		J02-33	MD141
89	SMD91-5175	TTL	TAP			1	20		5.25	175n	2.0n				0	7		J02-33	MD141
90	SMD91-5200	TTL	TAP			1	20		5.25	200n	2.0n				0	7		J02-33	MD141
91	SMD91-5250	TTL	TAP			1	20		5.25	250n	2.0n				0	7		J02-33	MD141
92▼	DDU8-5004		TAP			1	10		5.0	4.0n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
93▼	DDU8-5006		TAP			1	10		5.0	6.0n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
94▼	DDU8-5008		TAP			1	10		5.0	8.0n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
95▼	DDU8-5010		TAP			1	10		5.0	10n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
96▼	DDU8-5012		TAP			1	10		5.0	12n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
97▼	DDU8-5016		TAP			1	10		5.0	16n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
98▼	DDU8-5020		TAP			1	10		5.0	20n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
99▼	DDU8-5030		TAP			1	10		5.0	30n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
100▼	DDU8-5035		TAP			1	10		5.0	35n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
101▼	DDU8-5040		TAP			1	10		5.0	40n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
102▼	DDU8-5045		TAP			1	10		5.0	45n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
103▼	DDU8-5050		TAP			1	10		5.0	50n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
104▼	DDU8-5060		TAP			1	10		5.0	60n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
105▼	DDU8-5075		TAP			1	10		5.0	75n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
106▼	DDU8-5100		TAP			1	10		5.0	100n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
107▼	DDU8-5125		TAP			1	10		5.0	125n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
108▼	DDU8-5150		TAP			1	10		5.0	150n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
109▼	DDU8-5175		TAP			1	10		5.0	175n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
110▼	DDU8-5200		TAP			1	10		5.0	200n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] D T E L P A E Y	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	DDU8-5250		TAP			1	10		5.0	250n	4.0n†		375m		0	7	1	J02-6	DIP8 ☑
2♦	DDU4C4	CMS	TAP	3.2	0.9	1			5.0	4.0n	8.0n†				0	7	1	J02-6	DIP14 ☑
3♦	DDU4C6	CMS	TAP	3.2	0.9	1			5.0	6.0n	8.0n†				0	7	1	J02-6	DIP14 ☑
4♦	DDU4C8	CMS	TAP	3.2	0.9	1			5.0	8.0n	8.0n†				0	7	1	J02-6	DIP14 ☑
5♦	DDU4C10	CMS	TAP	3.2	0.9	1			5.0	10n	8.0n†				0	7	1	J02-6	DIP14 ☑
6♦	DDU4C12	CMS	TAP	3.2	0.9	1			5.0	12n	8.0n†				0	7	1	J02-6	DIP14 ☑
7♦	DDU4C16	CMS	TAP	3.2	0.9	1			5.0	16n	8.0n†				0	7	1	J02-6	DIP14 ☑
8♦	DDU4C20	CMS	TAP	3.2	0.9	1			5.0	20n	8.0n†				0	7	1	J02-6	DIP14 ☑
9♦	DDU4C30	CMS	TAP	3.2	0.9	1			5.0	30n	8.0n†				0	7	1	J02-6	DIP14 ☑
10♦	DDU4C35	CMS	TAP	3.2	0.9	1			5.0	35n	8.0n†				0	7	1	J02-6	DIP14 ☑
11♦	DDU4C40	CMS	TAP	3.2	0.9	1			5.0	40n	8.0n†				0	7	1	J02-6	DIP14 ☑
12♦	DDU4C45	CMS	TAP	3.2	0.9	1			5.0	45n	8.0n†				0	7	1	J02-6	DIP14 ☑
13♦	DDU4C50	CMS	TAP	3.2	0.9	1			5.0	50n	8.0n†				0	7	1	J02-6	DIP14 ☑
14♦	DDU4C60	CMS	TAP	3.2	0.9	1			5.0	60n	8.0n†				0	7	1	J02-6	DIP14 ☑
15♦	DDU4C75	CMS	TAP	3.2	0.9	1			5.0	75n	8.0n†				0	7	1	J02-6	DIP14 ☑
16♦	DDU4C100	CMS	TAP	3.2	0.9	1			5.0	100n	8.0n†				0	7	1	J02-6	DIP14 ☑
17♦	DDU4C125	CMS	TAP	3.2	0.9	1			5.0	125n	8.0n†				0	7	1	J02-6	DIP14 ☑
18♦	DDU4C150	CMS	TAP	3.2	0.9	1			5.0	150n	8.0n†				0	7	1	J02-6	DIP14 ☑
19♦	DDU4C175	CMS	TAP	3.2	0.9	1			5.0	175n	8.0n†				0	7	1	J02-6	DIP14 ☑
20♦	DDU4C200	CMS	TAP	3.2	0.9	1			5.0	200n	8.0n†				0	7	1	J02-6	DIP14 ☑
21♦	DDU4C250	CMS	TAP	3.2	0.9	1			5.0	250n	8.0n†				0	7	1	J02-6	DIP14 ☑
22♦	DDU8C5004	CMS	TAP	3.2	0.9	1			5.0	4.0n	8.0n†				0	7	1	J02-15	DIP8 ☑
23♦	DDU8C5006	CMS	TAP	3.2	0.9	1			5.0	6.0n	8.0n†				0	7	1	J02-15	DIP8 ☑
24♦	DDU8C5008	CMS	TAP	3.2	0.9	1			5.0	8.0n	8.0n†				0	7	1	J02-15	DIP8 ☑
25♦	DDU8C5010	CMS	TAP	3.2	0.9	1			5.0	10n	8.0n†				0	7	1	J02-15	DIP8 ☑
26♦	DDU8C5012	CMS	TAP	3.2	0.9	1			5.0	12n	8.0n†				0	7	1	J02-15	DIP8 ☑
27♦	DDU8C5016	CMS	TAP	3.2	0.9	1			5.0	16n	8.0n†				0	7	1	J02-15	DIP8 ☑
28♦	DDU8C5020	CMS	TAP	3.2	0.9	1			5.0	20n	8.0n†				0	7	1	J02-15	DIP8 ☑
29♦	DDU8C5030	CMS	TAP	3.2	0.9	1			5.0	30n	8.0n†				0	7	1	J02-15	DIP8 ☑
30♦	DDU8C5035	CMS	TAP	3.2	0.9	1			5.0	35n	8.0n†				0	7	1	J02-15	DIP8 ☑
31♦	DDU8C5040	CMS	TAP	3.2	0.9	1			5.0	40n	8.0n†				0	7	1	J02-15	DIP8 ☑
32♦	DDU8C5045	CMS	TAP	3.2	0.9	1			5.0	45n	8.0n†				0	7	1	J02-15	DIP8 ☑
33♦	DDU8C5050	CMS	TAP	3.2	0.9	1			5.0	50n	8.0n†				0	7	1	J02-15	DIP8 ☑
34♦	DDU8C5060	CMS	TAP	3.2	0.9	1			5.0	60n	8.0n†				0	7	1	J02-15	DIP8 ☑
35♦	DDU8C5075	CMS	TAP	3.2	0.9	1			5.0	75n	8.0n†				0	7	1	J02-15	DIP8 ☑
36♦	DDU8C5100	CMS	TAP	3.2	0.9	1			5.0	100n	8.0n†				0	7	1	J02-15	DIP8 ☑
37♦	DDU8C5125	CMS	TAP	3.2	0.9	1			5.0	125n	8.0n†				0	7	1	J02-15	DIP8 ☑
38♦	DDU8C5150	CMS	TAP	3.2	0.9	1			5.0	150n	8.0n†				0	7	1	J02-15	DIP8 ☑
39♦	DDU8C5175	CMS	TAP	3.2	0.9	1			5.0	175n	8.0n†				0	7	1	J02-15	DIP8 ☑
40♦	DDU8C5200	CMS	TAP	3.2	0.9	1			5.0	200n	8.0n†				0	7	1	J02-15	DIP8 ☑
41♦	DDU8C5250	CMS	TAP	3.2	0.9	1			5.0	250n	8.0n†				0	7	1	J02-15	DIP8 ☑
42♦	DDU66C4	CMS	TAP	3.2	0.9	1			5.0	4.0n	8.0n†				0	7	1	J02-15	DIP14 ☑
43♦	DDU66C6	CMS	TAP	3.2	0.9	1			5.0	6.0n	8.0n†				0	7	1	J02-15	DIP14 ☑
44♦	DDU66C8	CMS	TAP	3.2	0.9	1			5.0	8.0n	8.0n†				0	7	1	J02-15	DIP14 ☑
45♦	DDU66C10	CMS	TAP	3.2	0.9	1			5.0	10n	8.0n†				0	7	1	J02-15	DIP14 ☑
46♦	DDU66C12	CMS	TAP	3.2	0.9	1			5.0	12n	8.0n†				0	7	1	J02-15	DIP14 ☑
47♦	DDU66C16	CMS	TAP	3.2	0.9	1			5.0	16n	8.0n†				0	7	1	J02-15	DIP14 ☑
48♦	DDU66C20	CMS	TAP	3.2	0.9	1			5.0	20n	8.0n†				0	7	1	J02-15	DIP14 ☑
49♦	DDU66C30	CMS	TAP	3.2	0.9	1			5.0	30n	8.0n†				0	7	1	J02-15	DIP14 ☑
50♦	DDU66C35	CMS	TAP	3.2	0.9	1			5.0	35n	8.0n†				0	7	1	J02-15	DIP14 ☑
51♦	DDU66C40	CMS	TAP	3.2	0.9	1			5.0	40n	8.0n†				0	7	1	J02-15	DIP14 ☑
52♦	DDU66C45	CMS	TAP	3.2	0.9	1			5.0	45n	8.0n†				0	7	1	J02-15	DIP14 ☑
53	DDU66C50	CMS	TAP	3.2	0.9	1			5.0	50n	8.0n†				0	7	1	J02-15	MD14J
54	DDU66C60	CMS	TAP	3.2	0.9	1			5.0	60n	8.0n†				0	7	1	J02-15	MD14J
55	DDU66C75	CMS	TAP	3.2	0.9	1			5.0	75n	8.0n†				0	7	1	J02-15	MD14J
56	DDU66C100	CMS	TAP	3.2	0.9	1			5.0	100n	8.0n†				0	7	1	J02-15	MD14J
57	DDU66C125	CMS	TAP	3.2	0.9	1			5.0	125n	8.0n†				0	7	1	J02-15	MD14J
58	DDU66C150	CMS	TAP	3.2	0.9	1			5.0	150n	8.0n†				0	7	1	J02-15	MD14J
59	DDU66C175	CMS	TAP	3.2	0.9	1			5.0	175n	8.0n†				0	7	1	J02-15	MD14J
60	DDU66C200	CMS	TAP	3.2	0.9	1			5.0	200n	8.0n†				0	7	1	J02-15	MD14J
61	DDU66C250	CMS	TAP	3.2	0.9	1			5.0	250n	8.0n†				0	7	1	J02-15	MD14J
62	DDU222C4	CMS	TAP	3.2	0.9	1			5.0	4.0n	8.0n†				0	7	1	J01-64	MD8A
63	DDU222C6	CMS	TAP	3.2	0.9	1			5.0	6.0n	8.0n†				0	7	1	J01-64	MD8A
64	DDU222C8	CMS	TAP	3.2	0.9	1			5.0	8.0n	8.0n†				0	7	1	J01-64	MD8A
65	DDU222C10	CMS	TAP	3.2	0.9	1			5.0	10n	8.0n†				0	7	1	J01-64	MD8A
66	DDU222C12	CMS	TAP	3.2	0.9	1			5.0	12n	8.0n†				0	7	1	J01-64	MD8A
67	DDU222C16	CMS	TAP	3.2	0.9	1			5.0	16n	8.0n†				0	7	1	J01-64	MD8A
68	DDU222C20	CMS	TAP	3.2	0.9	1			5.0	20n	8.0n†				0	7	1	J01-64	MD8A
69	DDU222C30	CMS	TAP	3.2	0.9	1			5.0	30n	8.0n†				0	7	1	J01-64	MD8A
70	DDU222C35	CMS	TAP	3.2	0.9	1			5.0	35n	8.0n†				0	7	1	J01-64	MD8A
71	DDU222C40	CMS	TAP	3.2	0.9	1			5.0	40n	8.0n†				0	7	1	J01-64	MD8A
72	DDU222C45	CMS	TAP	3.2	0.9	1			5.0	45n	8.0n†				0	7	1	J01-64	MD8A
73	DDU222C50	CMS	TAP	3.2	0.9	1			5.0	50n	8.0n†				0	7	1	J01-64	MD8A
74	DDU222C60	CMS	TAP	3.2	0.9	1			5.0	60n	8.0n†				0	7	1	J01-64	MD8A
75	DDU222C75	CMS	TAP	3.2	0.9	1			5.0	75n	8.0n†				0	7	1	J01-64	MD8A
76	DDU222C100	CMS	TAP	3.2	0.9	1			5.0	100n	8.0n†				0	7	1	J01-64	MD8A
77	DDU222C125	CMS	TAP	3.2	0.9	1			5.0	125n	8.0n†				0	7	1	J01-64	MD8A
78	DDU222C150	CMS	TAP	3.2	0.9	1			5.0	150n	8.0n†				0	7	1	J01-64	MD8A
79	DDU222C175	CMS	TAP	3.2	0.9	1			5.0	175n	8.0n†				0	7	1	J01-64	MD8A
80	DDU222C200	CMS	TAP	3.2	0.9	1			5.0	200n	8.0n†				0	7	1	J01-64	MD8A
81	DDU222C250	CMS	TAP	3.2	0.9	1			5.0	250n	8.0n†				0	7	1	J01-64	MD8A
82	SMD99C5004	CMS	TAP	3.2	0.9	1			5.0	4.0n	8.0n†				0	7	1	J02-15	LC46
83	SMD99C5006	CMS	TAP	3.2	0.9	1			5.0	6.0n	8.0n†				0	7	1	J02-15	LC46
84	SMD99C5008	CMS	TAP	3.2	0.9	1			5.0	8.0n	8.0n†				0	7	1	J02-15	LC46
85	SMD99C5010	CMS	TAP	3.2	0.9	1			5.0	10n	8.0n†				0	7	1	J02-15	LC46
86	SMD99C5012	CMS	TAP	3.2	0.9	1			5.0	12n	8.0n†				0	7	1	J02-15	LC46
87	SMD99C5016	CMS	TAP	3.2	0.9	1			5.0	16n	8.0n†				0	7	1	J02-15	LC46
88	SMD99C5020	CMS	TAP	3.2	0.9	1			5.0	20n	8.0n†				0	7	1	J02-15	LC46
89	SMD99C5030	CMS	TAP	3.2	0.9	1			5.0	30n	8.0n†				0	7	1	J02-15	LC46
90	SMD99C5035	CMS	TAP	3.2	0.9	1			5.0	35n	8.0n†				0	7	1	J02-15	LC46
91	SMD99C5040	CMS	TAP	3.2	0.9	1			5.0	40n	8.0n†				0	7	1	J02-15	LC46
92	SMD99C5045	CMS	TAP	3.2	0.9	1			5.0	45n	8.0n†				0	7	1	J02-15	LC46
93	SMD99C5050	CMS	TAP	3.2	0.9	1			5.0	50n	8.0n†				0	7	1	J02-15	LC46
94	SMD99C5060	CMS	TAP	3.2	0.9	1			5.0	60n	8.0n†				0	7	1	J02-15	LC46
95	SMD99C5075	CMS	TAP	3.2	0.9	1			5.0	75n	8.0n†				0	7	1	J02-15	LC46
96	SMD99C5100	CMS	TAP	3.2	0.9	1			5.0	100n	8.0n†				0	7	1	J02-15	LC46
97	SMD99C5125	CMS	TAP	3.2	0.9	1			5.0	125n	8.0n†				0	7	1	J02-15	LC46
98	SMD99C5150	CMS	TAP	3.2	0.9	1			5.0	150n	8.0n†				0	7	1	J02-15	LC46
99	SMD99C5175	CMS	TAP	3.2	0.9	1			5.0	175n	8.0n†				0	7	1	J02-15	LC46
100	SMD99C5200	CMS	TAP	3.2	0.9	1			5.0	200n	8.0n†				0	7	1	J02-15	LC46
101	SMD99C5250	CMS	TAP	3.2	0.9	1			5.0	250n	8.0n†				0	7	1	J02-15	LC46
102♦	D2ECL30	ECL	TAP	-.98		1	70	5.2		30n	5.0n				0	7	1	J01-45	DIP32e
103♦	D2ECL35	ECL	TAP	-.98		1	70	5.2		35n	5.0n				0	7	1	J01-45	DIP32e
104♦	D2ECL40	ECL	TAP	-.98		1	70	5.2		40n	5.0n				0	7	1	J01-45	DIP32e
105♦	D2ECL45	ECL	TAP	-.98		1	70	5.2		45n	5.0n				0	7	1	J01-45	DIP32e
106♦	D2ECL50	ECL	TAP	-.98		1	70	5.2		50n	5.0n				0	7	1	J01-45	DIP32e
107♦	D2ECL75	ECL	TAP	-.98		1	70	5.2		75n	5.0n				0	7	1	J01-45	DIP32e
108♦	D2ECL100	ECL	TAP	-.98		1	70	5.2		100n	5.0n				0	7	1	J01-45	DIP32e
109♦	D2ECL150	ECL	TAP	-.98		1	70	5.2		150n	5.0n				0	7	1	J01-45	DIP32e
110♦	D2ECL200	ECL	TAP	-.98		1	70	5.2		200n	5.0n				0	7	1	J01-45	DIP32e

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	3 TECH	1 D T E Y L P A E Y	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	2 CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	D2ECL250	ECL	TAP	-.98		1	70	5.2		250n	5.0n				0	7	1	J01-45	DIP32e
2	DDU11-5	ECL	TAP			1		-5.2	0	4.0n	6.0n		200m		0	7	1	J02-2	MD30a
3	DDU11-10	ECL	TAP			1		-5.2	0	8.0n	6.0n		200m		0	7	1	J02-2	MD30a
4	DDU11-20	ECL	TAP			1		-5.2	0	16n	6.0n		200m		0	7	1	J02-2	MD30a
5	DDU11-25	ECL	TAP			1		-5.2	0	20n	6.0n		200m		0	7	1	J02-2	MD30a
6	DDU11-50	ECL	TAP			1		-5.2	0	50n	6.0n		200m		0	7	1	J02-2	MD30a
7	DDU11-75	ECL	TAP			1		-5.2	0	75n	6.0n		200m		0	7	1	J02-2	MD30a
8	DDU11-100	ECL	TAP			1		-5.2	0	100n	6.0n		200m		0	7	1	J02-2	MD30a
9	DDU11-150	ECL	TAP			1		-5.2	0	150n	6.0n		200m		0	7	1	J02-2	MD30a
10	DDU11-200	ECL	TAP			1		-5.2	0	200n	6.0n		200m		0	7	1	J02-2	MD30a
11	DDU11-250	ECL	TAP			1		-5.2	0	250n	6.0n		200m		0	7	1	J02-2	MD30a
12	DDU11-300	ECL	TAP			1		-5.2	0	300n	6.0n		200m		0	7	1	J02-2	MD30a
13	DDU11-400	ECL	TAP			1		-5.2	0	400n	6.0n		200m		0	7	1	J02-2	MD30a
14	DDU11-500	ECL	TAP			1		-5.2	0	500n	6.0n		200m		0	7	1	J02-2	MD30a
15	DDU12-10	ECL	TAP			1		-5.2	0	9.0n	2.0n		400m		0	7	1	J02-26	MD30g
16	DDU12-20	ECL	TAP			1		-5.2	0	18n	2.0n		400m		0	7	1	J02-26	MD30g
17	DDU12-25	ECL	TAP			1		-5.2	0	22n	2.0n		400m		0	7	1	J02-26	MD30g
18	DDU12-40	ECL	TAP			1		-5.2	0	36n	2.0n		400m		0	7	1	J02-26	MD30g
19	DDU12-50	ECL	TAP			1		-5.2	0	45n	2.0n		400m		0	7	1	J02-26	MD30g
20	DDU12-75	ECL	TAP			1		-5.2	0	75n	2.0n		400m		0	7	1	J02-26	MD30g
21	DDU12-100	ECL	TAP			1		-5.2	0	100n	2.0n		400m		0	7	1	J02-26	MD30g
22	DDU12-150	ECL	TAP			1		-5.2	0	150n	2.0n		400m		0	7	1	J02-26	MD30g
23	DDU12-200	ECL	TAP			1		-5.2	0	200n	2.0n		400m		0	7	1	J02-26	MD30g
24	DDU12-250	ECL	TAP			1		-5.2	0	250n	2.0n		400m		0	7	1	J02-26	MD30g
25	DDU12-300	ECL	TAP			1		-5.2	0	300n	2.0n		400m		0	7	1	J02-26	MD30g
26	DDU12-400	ECL	TAP			1		-5.2	0	400n	2.0n		400m		0	7	1	J02-26	MD30g
27	DDU12-500	ECL	TAP			1		-5.2	0	500n	2.0n		400m		0	7	1	J02-26	MD30g
28	DDU12-750	ECL	TAP			1		-5.2	0	750n	2.0n		400m		0	7	1	J02-26	MD30g
29	DDU12-1000	ECL	TAP			1		-5.2	0	1.0u	2.0n		400m		0	7	1	J02-26	MD30g
30	DDU12-1500	ECL	TAP			1		-5.2	0	1.5u	2.0n		400m		0	7	1	J02-26	MD30g
31	DDU18-4	ECL	TAP	-1.1	1.4-	1	70	5.0		4.0n	1.0n†				0	8	1	J01-63	MD24A
32	DDU18-8	ECL	TAP	-1.1	1.4-	1	70	5.0		8.0n	1.0n†				0	8	1	J01-63	MD24A
33	DDU18-12	ECL	TAP	-1.1	1.4-	1	70	5.0		12n	1.0n†				0	8	1	J01-63	MD24A
34	DDU18-16	ECL	TAP	-1.1	1.4-	1	70	5.0		16n	1.0n†				0	8	1	J01-63	MD24A
35	DDU18-20	ECL	TAP	-1.1	1.4-	1	70	5.0		20n	1.0n†				0	8	1	J01-63	MD24A
36	DDU18-24	ECL	TAP	-1.1	1.4-	1	70	5.0		24n	1.0n†				0	8	1	J01-63	MD24A
37	DDU18-32	ECL	TAP	-1.1	1.4-	1	70	5.0		32n	1.0n†				0	8	1	J01-63	MD24A
38	DDU18-40	ECL	TAP	-1.1	1.4-	1	70	5.0		40n	1.0n†				0	8	1	J01-63	MD24A
39	DDU18-48	ECL	TAP	-1.1	1.4-	1	70	5.0		48n	1.0n†				0	8	1	J01-63	MD24A
40	DDU18-56	ECL	TAP	-1.1	1.4-	1	70	5.0		56n	1.0n†				0	8	1	J01-63	MD24A
41	DDU18-64	ECL	TAP	-1.1	1.4-	1	70	5.0		64n	1.0n†				0	8	1	J01-63	MD24A
42	DDU18-72	ECL	TAP	-1.1	1.4-	1	70	5.0		72n	1.0n†				0	8	1	J01-63	MD24A
43	DDU18-80	ECL	TAP	-1.1	1.4-	1	70	5.0		80n	1.0n†				0	8	1	J01-63	MD24A
44	DDU18-100	ECL	TAP	-1.1	1.4-	1	70	5.0		100n	1.0n†				0	8	1	J01-63	MD24A
45	DDU18-120	ECL	TAP	-1.1	1.4-	1	70	5.0		120n	1.0n†				0	8	1	J01-63	MD24A
46	DDU18-160	ECL	TAP	-1.1	1.4-	1	70	5.0		160n	1.0n†				0	8	1	J01-63	MD24A
47	DDU18-200	ECL	TAP	-1.1	1.4-	1	70	5.0		200n	1.0n†				0	8	1	J01-63	MD24A
48	DE0010	ECL	TAP	-0.9	1.7	1	70	5.2	0	10n	3.0n				0	7	1	J01-15	MD40
49	DE0025	ECL	TAP	-0.9	1.7	1	70	5.2	0	25n	3.0n				0	7	1	J01-15	MD40
50	DE0050	ECL	TAP	-0.9	1.7	1	70	5.2	0	50n	3.0n				0	7	1	J01-15	MD40
51	DE0100	ECL	TAP	-0.9	1.7	1	70	5.2	0	100n	3.0n				0	7	1	J01-15	MD40
52	DE0150	ECL	TAP	-0.9	1.7	1	70	5.2	0	150n	3.0n				0	7	1	J01-15	MD40
53	DE0200	ECL	TAP	-0.9	1.7	1	70	5.2	0	200n	3.0n				0	7	1	J01-15	MD40
54	DE0250	ECL	TAP	-0.9	1.7	1	70	5.2	0	250n	3.0n				0	7	1	J01-15	MD40
55	DE0500	ECL	TAP	-0.9	1.7	1	70	5.2	0	500n	3.0n				0	7	1	J01-15	MD40
56	DE1000(1)	ECL	TAP	-0.9	1.7	1	70	5.2	0	1.0u	3.0n				0	7	1	J01-15	MD40
57♦	DECL10	ECL	TAP	-.98		1	70	5.2		10n	5.0n				0	7	1	J01-44	DIP16d
58♦	DECL15	ECL	TAP	-.98		1	70	5.2		15n	5.0n				0	7	1	J01-44	DIP16d
59♦	DECL20	ECL	TAP	-.98		1	70	5.2		20n	5.0n				0	7	1	J01-44	DIP16d
60♦	DECL25	ECL	TAP	-.98		1	70	5.2		25n	5.0n				0	7	1	J01-44	DIP16d
61♦	DECL30	ECL	TAP	-.98		1	70	5.2		30n	5.0n				0	7	1	J01-44	DIP16d
62♦	DECL35	ECL	TAP	-.98		1	70	5.2		35n	5.0n				0	7	1	J01-44	DIP16d
63♦	DECL40	ECL	TAP	-.98		1	70	5.2		40n	5.0n				0	7	1	J01-44	DIP16d
64♦	DECL45	ECL	TAP	-.98		1	70	5.2		45n	5.0n				0	7	1	J01-44	DIP16d
65♦	DECL50	ECL	TAP	-.98		1	70	5.2		50n	5.0n				0	7	1	J01-44	DIP16d
66♦	DECL75	ECL	TAP	-.98		1	70	5.2		75n	5.0n				0	7	1	J01-44	DIP16d
67♦	DECL100	ECL	TAP	-.98		1	70	5.2		100n	5.0n				0	7	1	J01-44	DIP16d
68♦	DECL150	ECL	TAP	-.98		1	70	5.2		150n	5.0n				0	7	1	J01-44	DIP16d
69♦	DECL200	ECL	TAP	-.98		1	70	5.2		200n	5.0n				0	7	1	J01-44	DIP16d
70♦	DECL250	ECL	TAP	-.98		1	70	5.2		250n	5.0n				0	7	1	J01-44	DIP16d
71	ECLDL025	ECL	TAP			1	83	5.2	0	25n	4n				3	8	1	J01-24	MD48
72	ECLDL025M	ECL	TAP			1	83	5.2	0	25n	4				5	C	1	J01-24	MD48
73	ECLDL050	ECL	TAP			1	83	5.2	0	50n	4n				3	8	1	J01-24	MD48
74	ECLDL050M	ECL	TAP			1	83	5.2	0	50n	4				5	C	1	J01-24	MD48
75	ECLDL075	ECL	TAP			1	83	5.2	0	75n	5n				3	8	1	J01-24	MD48
76	ECLDL075M	ECL	TAP			1	83	5.2	0	75n	5				5	C	1	J01-24	MD48
77	ECLDL100	ECL	TAP			1	83	5.2	0	100n	6n				3	8	1	J01-24	MD48
78	ECLDL100M	ECL	TAP			1	83	5.2	0	100n	6				5	C	1	J01-24	MD48
79	ECLDL125	ECL	TAP			1	83	5.2	0	125n	7n				3	8	1	J01-24	MD48
80	ECLDL125M	ECL	TAP			1	83	5.2	0	125n	7				5	C	1	J01-24	MD48
81	ECLDL150	ECL	TAP			1	83	5.2	0	150n	7n				3	8	1	J01-24	MD48
82	ECLDL150M	ECL	TAP			1	83	5.2	0	150n	7				5	C	1	J01-24	MD48
83	ECLDL200	ECL	TAP			1	83	5.2	0	200n	8n				3	8	1	J01-24	MD48
84	ECLDL200M	ECL	TAP			1	83	5.2	0	200n	8				5	C	1	J01-24	MD48
85	ECLDL250	ECL	TAP			1	83	5.2	0	250n	10n				3	8	1	J01-24	MD48
86	ECLDL250M	ECL	TAP			1	83	5.2	0	250n	10				5	C	1	J01-24	MD48
87	ECLDL300	ECL	TAP			1	83	5.2	0	300n	15n				3	8	1	J01-24	MD48
88	ECLDL300M	ECL	TAP			1	83	5.2	0	300n	15				5	C	1	J01-24	MD48
89	ECLDL350	ECL	TAP			1	83	5.2	0	350n	15n				3	8	1	J01-24	MD48
90	ECLDL350M	ECL	TAP			1	83	5.2	0	350n	15				5	C	1	J01-24	MD48
91	ECLDL400	ECL	TAP			1	83	5.2	0	400n	15n				3	8	1	J01-24	MD48
92	ECLDL400M	ECL	TAP			1	83	5.2	0	400n	15				5	C	1	J01-24	MD48
93	ECLDL450	ECL	TAP			1	83	5.2	0	450n	20n				3	8	1	J01-24	MD48
94	ECLDL450M	ECL	TAP			1	83	5.2	0	450n	20				5	C	1	J01-24	MD48
95	ECLDL500	ECL	TAP			1	83	5.2	0	500n	20n				3	8	1	J01-24	MD48
96	ECLDL500M	ECL	TAP			1	83	5.2	0	500n	20				5	C	1	J01-24	MD48
97	EKLDL005	ECL	TAP			1	70	4.5	0	5n					0	8	1	J01-21	MD45
98	EKLDL008	ECL	TAP			1	70	4.5	0	8n					0	8	1	J01-21	MD45
99	EKLDL016	ECL	TAP			1	70	4.5	0	16n					0	8	1	J01-21	MD45
100	EKLDL025	ECL	TAP			1	70	4.5	0	25n					0	8	1	J01-21	MD45
101	EKLDL032	ECL	TAP			1	70	4.5	0	32n					0	8	1	J01-21	MD45
102	EKLDL040	ECL	TAP			1	70	4.5	0	40n					0	8	1	J01-21	MD45
103	EKLDL048	ECL	TAP			1	70	4.5	0	48n					0	8	1	J01-21	MD45
104	EKLDL056	ECL	TAP			1	70	4.5	0	56n					0	8	1	J01-21	MD45
105	EKLDL064	ECL	TAP			1	70	4.5	0	64n					0	8	1	J01-21	MD45
106	EKLDL072	ECL	TAP			1	70	4.5	0	72n					0	8	1	J01-21	MD45
107	EKLDL080	ECL	TAP			1	70	4.5	0	80n					0	8	1	J01-21	MD45
108	EKLDL100	ECL	TAP			1	70	4.5	0	100n					0	8	1	J01-21	MD45
109	EKLDL120	ECL	TAP			1	70	4.5	0	120n					0	8	1	J01-21	MD45
110	EKLDL160	ECL	TAP			1	70	4.5	0	160n					0	8	1	J01-21	MD45

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] TYPE DELAY	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1	EKLDL200	ECL	TAP			1	70	4.5	0	200n					0	8	1	J01-21	MD45
2	TC5043P	MOS	TAP	6.0	0.4*			0	7.0				300m	1.4	4	8	1	J01-5	DL ☑
3♦	MN3011	PCH	TAP					15	0	1.9m	500n	500n			2	6	1	J03-11	DIP12a
4	21347	TIL	TAP	5.5Δ	0*	1	20	0	7.0	525n	5.0				0	7	1	J01-1	MD23
5	21387	TIL	TAP	5.5Δ	0*	1	20	0	7.0	156n	3.0				0	7	1	J01-1	MD23
6	21388	TIL	TAP	5.5Δ	0*	1	20	0	7.0	210n	4.0				0	7	1	J01-1	MD23
7	21389	TIL	TAP	5.5Δ	0*	1	20	0	7.0	263n	4.0				0	7	1	J01-1	MD23
8	21417	TIL	TAP	5.5Δ	0*	1	20	0	7.0	27n	3.0				0	7	1	J01-2	MD24
9	21418	TIL	TAP	5.5Δ	0*	1	20	0	7.0	52n	3.0				0	7	1	J01-2	MD24
10	21419	TIL	TAP	5.5Δ	0*	1	20	0	7.0	105n	3.0				0	7	1	J01-2	MD24
11	21420	TIL	TAP	5.5Δ	0*	1	20	0	7.0	156n	3.0				0	7	1	J01-2	MD24
12	21421	TIL	TAP	5.5Δ	0*	1	20	0	7.0	210n	4.0				0	7	1	J01-2	MD24
13	21422	TIL	TAP	5.5Δ	0*	1	20	0	7.0	263n	4.0				0	7	1	J01-2	MD24
14	21901	TIL	TAP	5.5Δ	0*	1	20	0	7.0	27n	4.0				0	7	1	J01-6	MD21
15	21902	TIL	TAP	5.5Δ	0*	1	20	0	7.0	32n	4.0				0	7	1	J01-6	MD21
16	21903	TIL	TAP	5.5Δ	0*	1	20	0	7.0	37n	4.0				0	7	1	J01-6	MD21
17	21904	TIL	TAP	5.5Δ	0*	1	20	0	7.0	42n	4.0				0	7	1	J01-6	MD21
18	21905	TIL	TAP	5.5Δ	0*	1	20	0	7.0	47n	4.0				0	7	1	J01-6	MD21
19	21906	TIL	TAP	5.5Δ	0*	1	20	0	7.0	53n	4.0				0	7	1	J01-6	MD21
20	21907	TIL	TAP	5.5Δ	0*	1	20	0	7.0	63n	4.0				0	7	1	J01-6	MD21
21	21908	TIL	TAP	5.5Δ	0*	1	20	0	7.0	79n	4.0				0	7	1	J01-6	MD21
22	21909	TIL	TAP	5.5Δ	0*	1	20	0	7.0	105n	4.0				0	7	1	J01-6	MD21
23	21910	TIL	TAP	5.5Δ	0*	1	20	0	7.0	131n	4.0				0	7	1	J01-6	MD21
24	21911	TIL	TAP	5.5Δ	0*	1	20	0	7.0	158n	4.0				0	7	1	J01-6	MD21
25	21912	TIL	TAP	5.5Δ	0*	1	20	0	7.0	210n	4.0				0	7	1	J01-6	MD21
26	21913	TIL	TAP	5.5Δ	0*	1	20	0	7.0	263n	4.0				0	7	1	J01-6	MD21
27	30B5101	TTL	TAP	3.2		1		0	5.0	100n	4.0n		450m		0	7	1	J02-1	MD23A
28	30B5125	TTL	TAP	3.2		1		0	5.0	125n	4.0n		450m		0	7	1	J02-1	MD23A
29	30B5151	TTL	TAP	3.2		1		0	5.0	150n	4.0n		450m		0	7	1	J02-1	MD23A
30	30B5175	TTL	TAP	3.2		1		0	5.0	175n	4.0n		450m		0	7	1	J02-1	MD23A
31	30B5201	TTL	TAP	3.2		1		0	5.0	200n	4.0n		450m		0	7	1	J02-1	MD23A
32	30B5250	TTL	TAP	3.2		1		0	5.0	25n	4.0n		450m		0	7	1	J02-1	MD23A
33	30B5251	TTL	TAP	3.2		1		0	5.0	250n	4.0n		450m		0	7	1	J02-1	MD23A
34	30B5300	TTL	TAP	3.2		1		0	5.0	30n	4.0n		450m		0	7	1	J02-1	MD23A
35	30B5400	TTL	TAP	3.2		1		0	5.0	40n	4.0n		450m		0	7	1	J02-1	MD23A
36	30B5500	TTL	TAP	3.2		1		0	5.0	50n	4.0n		450m		0	7	1	J02-1	MD23A
37	30B5600	TTL	TAP	3.2		1		0	5.0	60n	4.0n		450m		0	7	1	J02-1	MD23A
38	30B5750	TTL	TAP	3.2		1		0	5.0	75n	4.0n		450m		0	7	1	J02-1	MD23A
39	31A5101	TTL	TAP	3.2		1		0	5.0	100n	4.0n		450m		0	7	1	J02-2	MD27
40	31A5125	TTL	TAP	3.2		1			5.0	125n	4.0m		450m		0	7	1	J02-2	MD27
41	31A5151	TTL	TAP	3.2		1		0	5.0	150n	4.0n		450m		0	7	1	J02-2	MD27
42	31A5175	TTL	TAP	3.2		1		0	5.0	175n	4.0n		450m		0	7	1	J02-2	MD27
43	31A5200	TTL	TAP	3.2		1		0	5.0	20n	4.0n		450m		0	7	1	J02-2	MD27
44	31A5201	TTL	TAP	3.2		1		0	5.0	201n	4.0n		450m		0	7	1	J02-2	MD27
45	31A5250	TTL	TAP	3.2		1		0	5.0	25n	4.0n		450m		0	7	1	J02-2	MD27
46	31A5251	TTL	TAP	3.2		1		0	5.0	250n	4.0n		450m		0	7	1	J02-2	MD27
47	31A5300	TTL	TAP	3.2		1		0	5.0	30n	4.0n		450m		0	7	1	J02-2	MD27
48	31A5301	TTL	TAP	3.2		1		0	5.0	300n	4.0n		450m		0	7	1	J02-2	MD27
49	31A5351	TTL	TAP	3.2		1		0	5.0	350n	4.0n		450m		0	7	1	J02-2	MD27
50	31A5400	TTL	TAP	3.2		1		0	5.0	40n	4.0n		450m		0	7	1	J02-2	MD27
51	31A5401	TTL	TAP	3.2		1		0	5.0	400n	4.0n		450m		0	7	1	J02-2	MD27
52	31A5451	TTL	TAP	3.2		1		0	5.0	400n	4.0n		450m		0	7	1	J02-2	MD27
53	31A5500	TTL	TAP	3.2		1		0	5.0	50n	4.0n		450m		0	7	1	J02-2	MD27
54	31A5501	TTL	TAP	3.2		1		0	5.0	400n	4.0n		450m		0	7	1	J02-2	MD27
55	31A5600	TTL	TAP	3.2		1		0	5.0	60n	4.0n		450m		0	7	1	J02-2	MD27
56	31A5750	TTL	TAP	3.2		1		0	5.0	75n	4.0n		450m		0	7	1	J02-2	MD27
57	31B5101	TTL	TAP	3.2		1		0	5.0	100n	4.0n		450m		0	7	1	J02-1	MD23
58	31B5125	TTL	TAP	3.2		1		0	5.0	125n	4.0n		450m		0	7	1	J02-1	MD23
59	31B5151	TTL	TAP	3.2		1		0	5.0	150n	4.0n		450m		0	7	1	J02-1	MD23
60	31B5175	TTL	TAP	3.2		1		0	5.0	175n	4.0n		450m		0	7	1	J02-1	MD23
61	31B5201	TTL	TAP	3.2		1		0	5.0	200n	4.0n		450m		0	7	1	J02-1	MD23
62	31B5250	TTL	TAP	3.2		1		0	5.0	25n	4.0n		450m		0	7	1	J02-1	MD23
63	31B5251	TTL	TAP	3.2		1		0	5.0	250n	4.0n		450m		0	7	1	J02-1	MD23
64	31B5300	TTL	TAP	3.2		1		0	5.0	30n	4.0n		450m		0	7	1	J02-1	MD23
65	31B5400	TTL	TAP	3.2		1		0	5.0	40n	4.0n		450m		0	7	1	J02-1	MD23
66	31B5500	TTL	TAP	3.2		1		0	5.0	50n	4.0n		450m		0	7	1	J02-1	MD23
67	31B5600	TTL	TAP	3.2		1		0	5.0	60n	4.0n		450m		0	7	1	J02-1	MD23
68	31B5750	TTL	TAP	3.2		1		0	5.0	75n	4.0n		450m		0	7	1	J02-1	MD23
69	32A5101	TTL	TAP	3.2		1		0	5.0	100n	4.0n		450m		0	7	1	J02-2	MD27
70	32A5125	TTL	TAP	3.2		1		0	5.0	125n	4.0n		450m		0	7	1	J02-2	MD27
71	32A5151	TTL	TAP	3.2		1		0	5.0	150n	4.0n		450m		0	7	1	J02-2	MD27
72	32A5175	TTL	TAP	3.2		1		0	5.0	175n	4.0n		450m		0	7	1	J02-2	MD27
73	32A5200	TTL	TAP	3.2		1		0	5.0	20n	4.0n		450m		0	7	1	J02-2	MD27
74	32A5201	TTL	TAP	3.2		1		0	5.0	200n	4.0n		450m		0	7	1	J02-2	MD27
75	32A5250	TTL	TAP	3.2		1		0	5.0	20n	4.0n		450m		0	7	1	J02-2	MD27
76	32A5251	TTL	TAP	3.2		1		0	5.0	250n	4.0n		450m		0	7	1	J02-2	MD27
77	32A5300	TTL	TAP	3.2		1		0	5.0	30n	4.0n		450m		0	7	1	J02-2	MD27
78	32A5301	TTL	TAP	3.2		1		0	5.0	300n	4.0n		450m		0	7	1	J02-2	MD27
79	32A5351	TTL	TAP	3.2		1		0	5.0	350n	4.0n		450m		0	7	1	J02-2	MD27
80	32A5400	TTL	TAP	3.2		1		0	5.0	40n	4.0n		450m		0	7	1	J02-2	MD27
81	32A5401	TTL	TAP	3.2		1		0	5.0	400n	4.0n		450m		0	7	1	J02-2	MD27
82	32A5451	TTL	TAP	3.2		1		0	5.0	450n	4.0n		450m		0	7	1	J02-2	MD27
83	32A5500	TTL	TAP	3.2		1		0	5.0	50n	4.0n		450m		0	7	1	J02-2	MD27
84	32A5501	TTL	TAP	3.2		1		0	5.0	500n	4.0n		450m		0	7	1	J02-2	MD27
85	32A5600	TTL	TAP	3.2		1		0	5.0	60n	4.0n		450m		0	7	1	J02-2	MD27
86	32A5750	TTL	TAP	3.2		1		0	5.0	75n	4.0n		450m		0	7	1	J02-2	MD27
87	32B5101	TTL	TAP	3.2		1		0	5.0	100n	4.0n		450m		0	7	1	J02-2	MD27
88	32B5125	TTL	TAP	3.2		1		0	5.0	125n	4.0n		450m		0	7	1	J02-2	MD27
89	32B5151	TTL	TAP	3.2		1		0	5.0	150n	4.0n		450m		0	7	1	J02-2	MD27
90	32B5175	TTL	TAP	3.2		1		0	5.0	175n	4.0n		450m		0	7	1	J02-2	MD27
91	32B5201	TTL	TAP	3.2		1		0	5.0	200n	4.0n		450m		0	7	1	J02-2	MD27
92	32B5250	TTL	TAP	3.2		1		0	5.0	25n	4.0n		450m		0	7	1	J02-2	MD27
93	32B5251	TTL	TAP	3.2		1		0	5.0	250n	4.0n		450m		0	7	1	J02-2	MD27
94	32B5300	TTL	TAP	3.2		1		0	5.0	30n	4.0n		450m		0	7	1	J02-2	MD27
95	32B5400	TTL	TAP	3.2		1		0	5.0	40n	4.0n		450m		0	7	1	J02-2	MD27
96	32B5500	TTL	TAP	3.2		1		0	5.0	50n	4.0n		450m		0	7	1	J02-2	MD27
97	32B5600	TTL	TAP	3.2		1		0	5.0	60n	4.0n		450m		0	7	1	J02-2	MD27
98	32B5750	TTL	TAP	3.2		1		0	5.0	75n	4.0n		450m		0	7	1	J02-2	MD27
99	35A5101	TTL	TAP	3.2		1		0	5.0	100n	4.0n		450m		0	7	1	J02-1	MD29
100	35A5125	TTL	TAP	3.2		1		0	5.0	125n	4.0n		450m		0	7	1	J02-1	MD29
101	35A5151	TTL	TAP	3.2		1		0	5.0	150n	4.0n		450m		0	7	1	J02-1	MD29
102	35A5175	TTL	TAP	3.2		1			5.0	175n	4.0m		450m		0	7	1	J02-1	MD29
103	35A5201	TTL	TAP	3.2		1		0	5.0	200n	4.0n		450m		0	7	1	J02-1	MD29
104	35A5251	TTL	TAP	3.2		1		0	5.0	250n	4.0n		450m		0	7	1	J02-1	MD29
105	35A5301	TTL	TAP	3.2		1		0	5.0	300n	4.0n		450m		0	7	1	J02-1	MD29
106	35A5400	TTL	TAP	3.2		1		0	5.0	40n	4.0n		450m		0	7	1	J02-1	MD29
107	35A5500	TTL	TAP	3.2		1		0	5.0	50n	4.0n		450m		0	7	1	J02-1	MD29
108	35A5600	TTL	TAP	3.2		1		0	5.0	60n	4.0n		450m		0	7	1	J02-1	MD29
109	35A5750	TTL	TAP	3.2		1		0	5.0	75n	4.0n		450m		0	7	1	J02-1	MD29
110	41A5101	TTL	TAP	3.2		1		0	5.0	100n	4.0n				0	7	1	J02-1	MO003

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] D TYPE DELAY	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1	41A5125	TTL	TAP	3.2		1		0	5.0	125n	4.0n				0	7	1	J02-1	MO003
2	41A5151	TTL	TAP	3.2		1		0	5.0	150n	4.0n				0	7	1	J02-1	MO003
3	41A5175	TTL	TAP	3.2		1		0	5.0	175n	4.0n				0	7	1	J02-1	MO003
4	41A5200	TTL	TAP	3.2		1		0	5.0	20n	4.0n				0	7	1	J02-1	MO003
5	41A5201	TTL	TAP	3.2		1		0	5.0	200n	4.0n				0	7	1	J02-1	MO003
6	41A5250	TTL	TAP	3.2		1		0	5.0	25n	4.0n				0	7	1	J02-1	MO003
7	41A5251	TTL	TAP	3.2		1		0	5.0	250n	4.0n				0	7	1	J02-1	MO003
8	41A5300	TTL	TAP	3.2		1		0	5.0	30n	4.0n				0	7	1	J02-1	MO003
9	41A5301	TTL	TAP	3.2		1		0	5.0	300n	4.0n				0	7	1	J02-1	MO003
10	41A5400	TTL	TAP	3.2		1		0	5.0	40n	4.0n				0	7	1	J02-1	MO003
11	41A5500	TTL	TAP	3.2		1		0	5.0	50n	4.0n				0	7	1	J02-1	MO003
12	41A5600	TTL	TAP	3.2		1		0	5.0	60n	4.0n				0	7	1	J02-1	MO003
13	41A5750	TTL	TAP	3.2		1		0	5.0	75n	4.0n				0	7	1	J02-1	MO003
14	42A5101	TTL	TAP	3.2		1		0	5.0	100n	4.0n		450m		0	7	1	J02-1	MO003
15	42A5125	TTL	TAP	3.2		1		0	5.0	125n	4.0n		450m		0	7	1	J02-1	MO003
16	42A5151	TTL	TAP	3.2		1		0	5.0	150n	4.0n		450m		0	7	1	J02-1	MO003
17	42A5175	TTL	TAP	3.2		1		0	5.0	175n	4.0n		450m		0	7	1	J02-1	MO003
18	42A5200	TTL	TAP	3.2		1		0	5.0	20n	4.0n		450m		0	7	1	J02-1	MO003
19	42A5201	TTL	TAP	3.2		1		0	5.0	200n	4.0n		450m		0	7	1	J02-1	MO003
20	42A5250	TTL	TAP	3.2		1		0	5.0	25n	4.0n		450m		0	7	1	J02-1	MO003
21	42A5251	TTL	TAP	3.2		1		0	5.0	250n	4.0n		450m		0	7	1	J02-1	MO003
22	42A5300	TTL	TAP	3.2		1		0	5.0	30n	4.0n		450m		0	7	1	J02-1	MO003
23	42A5301	TTL	TAP	3.2		1		0	5.0	300n	4.0n		450m		0	7	1	J02-1	MO003
24	42A5400	TTL	TAP	3.2		1		0	5.0	40n	4.0n		450m		0	7	1	J02-1	MO003
25	42A5500	TTL	TAP	3.2		1		0	5.0	50n	4.0n		450m		0	7	1	J02-1	MO003
26	42A5600	TTL	TAP	3.2		1		0	5.0	60n	4.0n		450m		0	7	1	J02-1	MO003
27	42A5750	TTL	TAP	3.2		1		0	5.0	75n	4.0n		450m		0	7	1	J02-1	MO003
28	50A10101	TTL	TAP	3.2		1	20	0	5.0	100n	4.0n		450m		0	7	1	J02-8	MD7A
29	50A10151	TTL	TAP	3.2		1	20	0	5.0	150n	4.0n		450m		0	7	1	J02-8	MD7A
30	50A10201	TTL	TAP	3.2		1	20	0	5.0	200n	4.0n		450m		0	7	1	J02-8	MD7A
31	50A10251	TTL	TAP	3.2		1	20	0	5.0	250n	4.0n		450m		0	7	1	J02-8	MD7A
32	50A10301	TTL	TAP	3.2		1	20	0	5.0	300n	4.0n		450m		0	7	1	J02-8	MD7A
33	50A10351	TTL	TAP	3.2		1	20	0	5.0	350n	4.0n		450m		0	7	1	J02-8	MD7A
34	50A10401	TTL	TAP	3.2		1	20	0	5.0	400n	4.0n		450m		0	7	1	J02-8	MD7A
35	50A10451	TTL	TAP	3.2		1	20	0	5.0	450n	4.0n		450m		0	7	1	J02-8	MD7A
36	50A10500	TTL	TAP	3.2		1	20	0	5.0	50n	4.0n		450m		0	7	1	J02-8	MD7A
37	50A10501	TTL	TAP	3.2		1	20	0	5.0	500n	4.0n		450m		0	7	1	J02-8	MD7A
38	70A5101	TTL	TAP	3.2		1		0	5.0	100n	4.0n		450m		0	7	1	J02-11	MD27
39	70A5125	TTL	TAP	3.2		1		0	5.0	125n	4.0n		450m		0	7	1	J02-11	MD27
40	70A5151	TTL	TAP	3.2		1		0	5.0	150n	4.0n		450m		0	7	1	J02-12	MD30
41	70A5175	TTL	TAP	3.2		1		0	5.0	175n	4.0n		450m		0	7	1	J02-12	MD30
42	70A5200	TTL	TAP	3.2		1		0	5.0	20n	4.0n		450m		0	7	1	J02-11	MD27
43	70A5201	TTL	TAP	3.2		1		0	5.0	200n	4.0n		450m		0	7	1	J02-12	MD30
44	70A5250	TTL	TAP	3.2		1		0	5.0	25n	4.0n		450m		0	7	1	J02-11	MD27
45	70A5251	TTL	TAP	3.2		1		0	5.0	250n	4.0n		450m		0	7	1	J02-12	MD30
46	70A5300	TTL	TAP	3.2		1		0	5.0	30n	4.0n		450m		0	7	1	J02-11	MD27
47	70A5400	TTL	TAP	3.2		1		0	5.0	40n	4.0n		450m		0	7	1	J02-11	MD27
48	70A5500	TTL	TAP	3.2		1		0	5.0	50n	4.0n		450m		0	7	1	J02-11	MD27
49	70A5600	TTL	TAP	3.2		1		0	5.0	60n	4.0n		450m		0	7	1	J02-11	MD27
50	70A5750	TTL	TAP	3.2		1		0	5.0	75n	4.0n		450m		0	7	1	J02-11	MD27
51	80A025	TTL	TAP	3.2		1		0	5.0	25n	4.0n		450m		0	7	1	J02-6	MD21
52	80A030	TTL	TAP	3.2		1		0	5.0	30n	4.0n		450m		0	7	1	J02-6	MD21
53	80A040	TTL	TAP	3.2		1		0	5.0	40n	4.0n		450m		0	7	1	J02-6	MD21
54	80A045	TTL	TAP	3.2		1		0	5.0	45n	4.0n		450m		0	7	1	J02-6	MD21
55	80A050	TTL	TAP	3.2		1		0	5.0	50n	4.0n		450m		0	7	1	J02-6	MD21
56	80A060	TTL	TAP	3.2		1		0	5.0	60n	4.0n				0	7	1	J02-6	MD21
57	80A075	TTL	TAP	3.2		1		0	5.0	75n	4.0n				0	7	1	J02-6	MD21
58	80A100	TTL	TAP	3.2		1		0	5.0	100n	4.0n				0	7	1	J02-6	MD21
59	80A125	TTL	TAP	3.2		1		0	5.0	125n	4.0n				0	7	1	J02-6	MD21
60	80A150	TTL	TAP	3.2		1		0	5.0	150n	4.0n				0	7	1	J02-6	MD21
61	80A200	TTL	TAP	3.2		1		0	5.0	200n	4.0n				0	7	1	J02-6	MD21
62	80A250	TTL	TAP	3.2		1		0	5.0	250n	4.0n				0	7	1	J02-6	MD21
63♦	201JHT1006L	TTL	TAP	2.0	0.8	1	10		5.0	100n	4.0n			0.3	0	7	1	J01-53	DIP14b
64♦	201JHT1006P	TTL	TAP	2.0	0.8	1	10		5.0	100n	4.0n			0.3	0	7	1	J01-54	DIP14b
65♦	201JHT1506L	TTL	TAP	2.0	0.8	1	10		5.0	150n	4.0n			0.3	0	7	1	J01-53	DIP14b
66♦	201JHT1506P	TTL	TAP	2.0	0.8	1	10		5.0	150n	4.0n			0.3	0	7	1	J01-54	DIP14b
67♦	201JHT2006L	TTL	TAP	2.0	0.8	1	10		5.0	200n	4.0n			0.3	0	7	1	J01-53	DIP14b
68♦	201JHT2006P	TTL	TAP	2.0	0.8	1	10		5.0	200n	4.0n			0.3	0	7	1	J01-54	DIP14b
69♦	201JHT2007L	TTL	TAP	2.0	0.8	1	10		5.0	20n	4.0n			0.3	0	7	1	J01-53	DIP14b
70♦	201JHT2007P	TTL	TAP	2.0	0.8	1	10		5.0	20n	4.0n			0.3	0	7	1	J01-54	DIP14b
71♦	201JHT2506L	TTL	TAP	2.0	0.8	1	10		5.0	250n	4.0n			0.3	0	7	1	J01-53	DIP14b
72♦	201JHT2506P	TTL	TAP	2.0	0.8	1	10		5.0	250n	4.0n			0.3	0	7	1	J01-54	DIP14b
73♦	201JHT2507L	TTL	TAP	2.0	0.8	1	10		5.0	25n	4.0n			0.3	0	7	1	J01-53	DIP14b
74♦	201JHT2507P	TTL	TAP	2.0	0.8	1	10		5.0	25n	4.0n			0.3	0	7	1	J01-54	DIP14b
75♦	201JHT5007L	TTL	TAP	2.0	0.8	1	10		5.0	50n	4.0n			0.3	0	7	1	J01-53	DIP14b
76♦	201JHT5007P	TTL	TAP	2.0	0.8	1	10		5.0	50n	4.0n			0.3	0	7	1	J01-54	DIP14b
77♦	201RHT1006L	TTL	TAP	2.0	0.8	1	10		5.0	100n	3.0n			0.3	0	7	1	J01-53	DIP14b
78♦	201RHT1006P	TTL	TAP	2.0	0.8	1	10		5.0	100n	3.0n			0.3	0	7	1	J01-54	DIP14b
79♦	201RHT1506L	TTL	TAP	2.0	0.8	1	10		5.0	150n	3.0n			0.3	0	7	1	J01-53	DIP14b
80♦	201RHT1506P	TTL	TAP	2.0	0.8	1	10		5.0	150n	3.0n			0.3	0	7	1	J01-54	DIP14b
81♦	201RHT2006L	TTL	TAP	2.0	0.8	1	10		5.0	200n	4.0n			0.3	0	7	1	J01-53	DIP14b
82♦	201RHT2006P	TTL	TAP	2.0	0.8	1	10		5.0	200n	4.0n			0.3	0	7	1	J01-54	DIP14b
83♦	201RHT2007L	TTL	TAP	2.0	0.8	1	10		5.0	20n	3.0n			0.3	0	7	1	J01-53	DIP14b
84♦	201RHT2007P	TTL	TAP	2.0	0.8	1	10		5.0	20n	3.0n			0.3	0	7	1	J01-54	DIP14b
85♦	201RHT2506L	TTL	TAP	2.0	0.8	1	10		5.0	250n	4.0n			0.3	0	7	1	J01-53	DIP14b
86♦	201RHT2506P	TTL	TAP	2.0	0.8	1	10		5.0	250n	4.0n			0.3	0	7	1	J01-54	DIP14b
87♦	201RHT2507L	TTL	TAP	2.0	0.8	1	10		5.0	25n	3.0n			0.3	0	7	1	J01-53	DIP14b
88♦	201RHT2507P	TTL	TAP	2.0	0.8	1	10		5.0	25n	3.0n			0.3	0	7	1	J01-54	DIP14b
89♦	201RHT5007L	TTL	TAP	2.0	0.8	1	10		5.0	50n	3.0n			0.3	0	7	1	J01-53	DIP14b
90♦	201RHT5007P	TTL	TAP	2.0	0.8	1	10		5.0	50n	3.0n			0.3	0	7	1	J01-54	DIP14b
91♦	201RHT7507L	TTL	TAP	2.0	0.8	1	10		5.0	75n	3.0n			0.3	0	7	1	J01-53	DIP14b
92♦	201RHT7507P	TTL	TAP	2.0	0.8	1	10		5.0	75n	3.0n			0.3	0	7	1	J01-54	DIP14b
93	21197	TTL	TAP	5.5Δ	0*	1	20	0	7.0	27n	3.0n				0	7	1	J01-1	MD23
94	21198	TTL	TAP	5.5Δ	0*	1	20	0	7.0	53n	3.0n				0	7	1	J01-1	MD23
95	21199	TTL	TAP	5.5Δ	0*	1	20	0	7.0	105n	3.0n				0	7	1	J01-1	MD23
96	21212	TTL	TAP	5.5Δ	0*	1	20	0	7.0	158n	4.0n				0	7	1	J01-1	MD23
97	21213	TTL	TAP	5.5Δ	0*	1	20	0	7.0	210n	4.0n				0	7	1	J01-1	MD23
98	21214	TTL	TAP	5.5Δ	0*	1	20	0	7.0	263n	4.0n				0	7	1	J01-1	MD23
99	21215	TTL	TAP	5.5Δ	0*	1	20	0	7.0	27n	3.0n				0	7	1	J01-2	MD24
100	21216	TTL	TAP	5.5Δ	0*	1	20	0	7.0	53n	3.0n				0	7	1	J01-2	MD24
101	21217	TTL	TAP	5.5Δ	0*	1	20	0	7.0	105n	3.0n				0	7	1	J01-2	MD24
102	21218	TTL	TAP	5.5Δ	0*	1	20	0	7.0	158n	4.0n				0	7	1	J01-2	MD24
103	21219	TTL	TAP	5.5Δ	0*	1	20	0	7.0	210n	4.0n				0	7	1	J01-2	MD24
104	21220	TTL	TAP	5.5Δ	0*	1	20	0	7.0	263n	4.0n				0	7	1	J01-2	MD24
105	21310	TTL	TAP	5.5Δ	0*	1	20	0	7.0	53n	4.0n				0	7	1	J01-9	MD26
106	21311	TTL	TAP	5.5Δ	0*	1	20	0	7.0	105n	4.0n				0	7	1	J01-9	MD26
107	21312	TTL	TAP	5.5Δ	0*	1	20	0	7.0	158n	4.0n				0	7	1	J01-9	MD26
108	21313	TTL	TAP	5.5Δ	0*	1	20	0	7.0	210n	4.0n				0	7	1	J01-9	MD26
109	21314	TTL	TAP	5.5Δ	0*	1	20	0	7.0	263n	4.0n				0	7	1	J01-9	MD26
110	21315	TTL	TAP	5.5Δ	0*	1	20	0	7.0	315n	5.0n				0	7	1	J01-9	MD26

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] D T E Y L P A E Y	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1	21316	TTL	TAP	5.5Δ	0*	1	20	0	7.0	420n	6.0n				0	7	1	J01-9	MD26
2	21317	TTL	TAP	5.5Δ	0*	1	20	0	7.0	525n	6.0n				0	7	1	J01-9	MD26
3	21385	TTL	TAP	5.5Δ	0*	1	20	0	7.0	53n	3.0n				0	7	1	J01-1	MD23
4	21386	TTL	TAP	5.5Δ	0*	1	20	0	7.0	105n	3.0n				0	7	1	J01-1	MD23
5	21468	TTL	TAP	5.5Δ	0*	1	20	0	7.0	27n	3.0n				0	7	1	J01-1	MD23
6	21712	TTL	TAP	5.5Δ	0*	1	20	0	7.0	131n	4.0n				0	7	1	J01-1	MD23
7	21741	TTL	TAP	5.5Δ	0*	1	20	0	7.0	63n	3.0n				0	7	1	J01-1	MD23
8	21818	TTL	TAP	5.5Δ	0*	1	20	0	7.0	79n	3.0n				0	7	1	J01-1	MD23
9	21819	TTL	TAP	5.5Δ	0*	1	20	0	7.0	315n	5.0n				0	7	1	J01-1	MD23
10	21820	TTL	TAP	5.5Δ	0*	1	20	0	7.0	420n	5.0n				0	7	1	J01-1	MD23
11	21821	TTL	TAP	5.5Δ	0*	1	20	0	7.0	525n	6.0n				0	7	1	J01-1	MD23
12♦	24001	TTL	TAP	5.5Δ	0*	1	20	0	7.0	27n	4.0n				0	7	1	J01-1	DIP14b
13♦	24002	TTL	TAP	5.5Δ	0*	1	20	0	7.0	32n	4.0n				0	7	1	J01-1	DIP14b
14♦	24003	TTL	TAP	5.5Δ	0*	1	20	0	7.0	37n	4.0n				0	7	1	J01-1	DIP14b
15♦	24004	TTL	TAP	5.5Δ	0*	1	20	0	7.0	42n	4.0n				0	7	1	J01-1	DIP14b
16♦	24005	TTL	TAP	5.5Δ	0*	1	20	0	7.0	47n	4.0n				0	7	1	J01-1	DIP14b
17♦	24006	TTL	TAP	5.5Δ	0*	1	20	0	7.0	53n	4.0n				0	7	1	J01-1	DIP14b
18♦	24007	TTL	TAP	5.5Δ	0*	1	20	0	7.0	63n	4.0n				0	7	1	J01-1	DIP14b
19♦	24008	TTL	TAP	5.5Δ	0*	1	20	0	7.0	79n	4.0n				0	7	1	J01-1	DIP14b
20♦	24009	TTL	TAP	5.5Δ	0*	1	20	0	7.0	105n	4.0n				0	7	1	J01-1	DIP14b
21♦	24010	TTL	TAP	5.5Δ	0*	1	20	0	7.0	131n	4.0n				0	7	1	J01-1	DIP14b
22♦	24011	TTL	TAP	5.5Δ	0*	1	20	0	7.0	158n	4.0n				0	7	1	J01-1	DIP14b
23♦	24012	TTL	TAP	5.5Δ	0*	1	20	0	7.0	210n	4.0n				0	7	1	J01-1	DIP14b
24♦	24013	TTL	TAP	5.5Δ	0*	1	20	0	7.0	263n	4.0n				0	7	1	J01-1	DIP14b
25	24051	TTL	TAP	5.5Δ	0*	1	20	0	7.0	27n	4.0n				0	7	1	J01-1	MD22
26	24052	TTL	TAP	5.5Δ	0*	1	20	0	7.0	32n	4.0n				0	7	1	J01-1	MD22
27	24053	TTL	TAP	5.5Δ	0*	1	20	0	7.0	37n	4.0n				0	7	1	J01-1	MD22
28	24054	TTL	TAP	5.5Δ	0*	1	20	0	7.0	42n	4.0n				0	7	1	J01-1	MD22
29	24056	TTL	TAP	5.5Δ	0*	1	20	0	7.0	47n	4.0n				0	7	1	J01-1	MD22
30	24057	TTL	TAP	5.5Δ	0*	1	20	0	7.0	53n	4.0n				0	7	1	J01-1	MD22
31	24058	TTL	TAP	5.5Δ	0*	1	20	0	7.0	63n	4.0n				0	7	1	J01-1	MD22
32	24059	TTL	TAP	5.5Δ	0*	1	20	0	7.0	79n	4.0n				0	7	1	J01-1	MD22
33	24060	TTL	TAP	5.5Δ	0*	1	20	0	7.0	105n	4.0n				0	7	1	J01-1	MD22
34	24061	TTL	TAP	5.5Δ	0*	1	20	0	7.0	131n	4.0n				0	7	1	J01-1	MD22
35	24062	TTL	TAP	5.5Δ	0*	1	20	0	7.0	210n	4.0n				0	7	1	J01-1	MD22
36	24063	TTL	TAP	5.5Δ	0*	1	20	0	7.0	263n	4.0n				0	7	1	J01-1	MD22
37	BTTLDL020	TTL	TAP	2.0	0.8	1	10	0	5.0	20n	2.0n			0.3	0	7	1	J01-20	LC47
38	BTTLDL020M	TTL	TAP	2.0	0.8	1	10	0	5.0	20n	2.0n			0.3	5	C	1	J01-20	LC47
39	BTTLDL025	TTL	TAP	2.0	0.8	1	10	0	5.0	25n	2.0n			0.3	0	7	1	J01-20	LC47
40	BTTLDL025M	TTL	TAP	2.0	0.8	1	10	0	5.0	25n	2.0n			0.3	5	C	1	J01-20	LC47
41	BTTLDL050	TTL	TAP	2.0	0.8	1	10	0	5.0	50n	2.0n			0.3	0	7	1	J01-20	LC47
42	BTTLDL050M	TTL	TAP	2.0	0.8	1	10	0	5.0	50n	2.0n			0.3	5	C	1	J01-20	LC47
43	BTTLDL075	TTL	TAP	2.0	0.8	1	10	0	5.0	75n	2.0n			0.3	0	7	1	J01-20	LC47
44	BTTLDL075M	TTL	TAP	2.0	0.8	1	10	0	5.0	75n	2.0n			0.3	5	C	1	J01-20	LC47
45	BTTLDL100	TTL	TAP	2.0	0.8	1	10	0	5.0	100n	2.0n			0.3	0	7	1	J01-20	LC47
46	BTTLDL100M	TTL	TAP	2.0	0.8	1	10	0	5.0	100n	2.0n			0.3	5	C	1	J01-20	LC47
47	BTTLDL125	TTL	TAP	2.0	0.8	1	10	0	5.0	125n	2.0n			0.3	0	7	1	J01-20	LC47
48	BTTLDL125M	TTL	TAP	2.0	0.8	1	10	0	5.0	125n	2.0n			0.3	5	C	1	J01-20	LC47
49	BTTLDL150	TTL	TAP	2.0	0.8	1	10	0	5.0	150n	2.0n			0.3	0	7	1	J01-20	LC47
50	BTTLDL150M	TTL	TAP	2.0	0.8	1	10	0	5.0	150n	2.0n			0.3	5	C	1	J01-20	LC47
51	BTTLDL200	TTL	TAP	2.0	0.8	1	10	0	5.0	200n	2.0n			0.3	0	7	1	J01-20	LC47
52	BTTLDL200M	TTL	TAP	2.0	0.8	1	10	0	5.0	200n	2.0n			0.3	5	C	1	J01-20	LC47
53	CTTLDL020	TTL	TAP	2.0	0.8	1	10	0	5.0	20n	2.0n			0.3	0	7	1	J01-20	LC48
54	CTTLDL020M	TTL	TAP	2.0	0.8	1	10	0	5.0	20n	2.0n			0.3	5	C	1	J01-20	LC48
55	CTTLDL025	TTL	TAP	2.0	0.8	1	10	0	5.0	25n	2.0n			0.3	0	7	1	J01-20	LC48
56	CTTLDL025M	TTL	TAP	2.0	0.8	1	10	0	5.0	25n	2.0n			0.3	5	C	1	J01-20	LC48
57	CTTLDL050	TTL	TAP	2.0	0.8	1	10	0	5.0	50n	2.0n			0.3	0	7	1	J01-20	LC48
58	CTTLDL050M	TTL	TAP	2.0	0.8	1	10	0	5.0	50n	2.0n			0.3	5	C	1	J01-20	LC48
59	CTTLDL075	TTL	TAP	2.0	0.8	1	10	0	5.0	75n	2.0n			0.3	0	7	1	J01-20	LC48
60	CTTLDL075M	TTL	TAP	2.0	0.8	1	10	0	5.0	75n	2.0n			0.3	5	C	1	J01-20	LC48
61	CTTLDL100	TTL	TAP	2.0	0.8	1	10	0	5.0	100n	2.0n			0.3	0	7	1	J01-20	LC48
62	CTTLDL100M	TTL	TAP	2.0	0.8	1	10	0	5.0	100n	2.0n			0.3	5	C	1	J01-20	LC48
63	CTTLDL125	TTL	TAP	2.0	0.8	1	10	0	5.0	125n	2.0n			0.3	0	7	1	J01-20	LC48
64	CTTLDL125M	TTL	TAP	2.0	0.8	1	10	0	5.0	125n	2.0n			0.3	5	C	1	J01-20	LC48
65	CTTLDL150	TTL	TAP	2.0	0.8	1	10	0	5.0	150n	2.0n			0.3	0	7	1	J01-20	LC48
66	CTTLDL150M	TTL	TAP	2.0	0.8	1	10	0	5.0	150n	2.0n			0.3	5	C	1	J01-20	LC48
67	CTTLDL200	TTL	TAP	2.0	0.8	1	10	0	5.0	200n	2.0n			0.3	0	7	1	J01-20	LC48
68	CTTLDL200M	TTL	TAP	2.0	0.8	1	10	0	5.0	200n	2.0n			0.3	5	C	1	J01-20	LC48
69♦	D2TZM1-100	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3	0	7	1	J01-36	DIP14e
70♦	D2TZM1-100M	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3	5	C	1	J01-36	DIP14e
71♦	D2TZM1-1000	TTL	TAP	2.0	0.8	1	20		5.0	1.0u	4.0n			0.3	0	7	1	J01-36	DIP14e
72♦	D2TZM1-1000M	TTL	TAP	2.0	0.8	1	20		5.0	1.0u	4.0n			0.3	5	C	1	J01-36	DIP14e
73♦	D2TZM1-150	TTL	TAP	2.0	0.8	1	20		5.0	150n	4.0n			0.3	0	7	1	J01-36	DIP14e
74♦	D2TZM1-150M	TTL	TAP	2.0	0.8	1	20		5.0	150n	4.0n			0.3	5	C	1	J01-36	DIP14e
75♦	D2TZM1-200	TTL	TAP	2.0	0.8	1	20		5.0	200n	4.0n			0.3	0	7	1	J01-36	DIP14e
76♦	D2TZM1-200M	TTL	TAP	2.0	0.8	1	20		5.0	200n	4.0n			0.3	5	C	1	J01-36	DIP14e
77♦	D2TZM1-250	TTL	TAP	2.0	0.8	1	20		5.0	250n	4.0n			0.3	0	7	1	J01-36	DIP14e
78♦	D2TZM1-250M	TTL	TAP	2.0	0.8	1	20		5.0	250n	4.0n			0.3	5	C	1	J01-36	DIP14e
79♦	D2TZM1-300	TTL	TAP	2.0	0.8	1	20		5.0	300n	4.0n			0.3	0	7	1	J01-36	DIP14e
80♦	D2TZM1-300M	TTL	TAP	2.0	0.8	1	20		5.0	300n	4.0n			0.3	5	C	1	J01-36	DIP14e
81♦	D2TZM1-350	TTL	TAP	2.0	0.8	1	20		5.0	350n	4.0n			0.3	0	7	1	J01-36	DIP14e
82♦	D2TZM1-350M	TTL	TAP	2.0	0.8	1	20		5.0	350n	4.0n			0.3	5	C	1	J01-36	DIP14e
83♦	D2TZM1-400	TTL	TAP	2.0	0.8	1	20		5.0	400n	4.0n			0.3	0	7	1	J01-36	DIP14e
84♦	D2TZM1-400M	TTL	TAP	2.0	0.8	1	20		5.0	400n	4.0n			0.3	5	C	1	J01-36	DIP14e
85♦	D2TZM1-450	TTL	TAP	2.0	0.8	1	20		5.0	450n	4.0n			0.3	0	7	1	J01-36	DIP14e
86♦	D2TZM1-450M	TTL	TAP	2.0	0.8	1	20		5.0	450n	4.0n			0.3	5	C	1	J01-36	DIP14e
87♦	D2TZM1-50	TTL	TAP	2.0	0.8	1	20		5.0	50n	4.0n			0.3	0	7	1	J01-36	DIP14e
88♦	D2TZM1-50M	TTL	TAP	2.0	0.8	1	20		5.0	50n	4.0n			0.3	0	7	1	J01-36	DIP14e
89♦	D2TZM1-500	TTL	TAP	2.0	0.8	1	20		5.0	500n	4.0n			0.3	0	7	1	J01-36	DIP14e
90♦	D2TZM1-500M	TTL	TAP	2.0	0.8	1	20		5.0	500n	4.0n			0.3	5	C	1	J01-36	DIP14e
91♦	D2TZM2-100	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3	0	7	1	J01-37	DIP16d
92♦	D2TZM2-100M	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3	5	C	1	J01-37	DIP16d
93♦	D2TZM2-1000	TTL	TAP	2.0	0.8	1	20		5.0	1.0u	4.0n			0.3	0	7	1	J01-37	DIP16d
94♦	D2TZM2-150	TTL	TAP	2.0	0.8	1	20		5.0	150n	4.0n			0.3	0	7	1	J01-37	DIP16d
95♦	D2TZM2-150M	TTL	TAP	2.0	0.8	1	20		5.0	150n	4.0n			0.3	5	C	1	J01-37	DIP16d
96♦	D2TZM2-200	TTL	TAP	2.0	0.8	1	20		5.0	200n	4.0n			0.3	0	7	1	J01-37	DIP16d
97♦	D2TZM2-200M	TTL	TAP	2.0	0.8	1	20		5.0	200n	4.0n			0.3	5	C	1	J01-37	DIP16d
98♦	D2TZM2-250	TTL	TAP	2.0	0.8	1	20		5.0	250n	4.0n			0.3	0	7	1	J01-37	DIP16d
99♦	D2TZM2-250M	TTL	TAP	2.0	0.8	1	20		5.0	250n	4.0n			0.3	5	C	1	J01-37	DIP16d
100♦	D2TZM2-300	TTL	TAP	2.0	0.8	1	20		5.0	300n	4.0n			0.3	0	7	1	J01-37	DIP16d
101♦	D2TZM2-300M	TTL	TAP	2.0	0.8	1	20		5.0	300n	4.0n			0.3	5	C	1	J01-37	DIP16d
102♦	D2TZM2-350	TTL	TAP	2.0	0.8	1	20		5.0	350n	4.0n			0.3	0	7	1	J01-37	DIP16d
103♦	D2TZM2-350M	TTL	TAP	2.0	0.8	1	20		5.0	350n	4.0n			0.3	5	C	1	J01-37	DIP16d
104♦	D2TZM2-400	TTL	TAP	2.0	0.8	1	20		5.0	400n	4.0n			0.3	0	7	1	J01-37	DIP16d
105♦	D2TZM2-400M	TTL	TAP	2.0	0.8	1	20		5.0	400n	4.0n			0.3	5	C	1	J01-37	DIP16d
106♦	D2TZM2-450	TTL	TAP	2.0	0.8	1	20		5.0	450n	4.0n			0.3	0	7	1	J01-37	DIP16d
107♦	D2TZM2-450M	TTL	TAP	2.0	0.8	1	20		5.0	450n	4.0n			0.3	5	C	1	J01-37	DIP16d
108♦	D2TZM2-50	TTL	TAP	2.0	0.8	1	20		5.0	50n	4.0n			0.3	0	7	1	J01-37	DIP16d
109♦	D2TZM2-50M	TTL	TAP	2.0	0.8	1	20		5.0	50n	4.0n			0.3	5	C	1	J01-37	DIP16d
110♦	D2TZM2-500	TTL	TAP	2.0	0.8	1	20		5.0	500n	4.0n			0.3	0	7	1	J01-37	DIP16d

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] DELAY TYPE	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1♦	D2TZM2-500M	TTL	TAP	2.0	0.8	1	20		5.0	500n	4.0n			0.3	5	C	1	J01-37	DIP16d	
2♦	D2TZM4-100	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3	0	7	1	J01-38	DIP30c	
3♦	D2TZM4-100M	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3	5	C	1	J01-38	DIP30c	
4♦	D2TZM4-1000	TTL	TAP	2.0	0.8	1	20		5.0	1.0u	4.0n			0.3	0	7	1	J01-38	DIP30c	
5♦	D2TZM4-1000M	TTL	TAP	2.0	0.8	1	20		5.0	1.0u	4.0n			0.3	5	C	1	J01-38	DIP30c	
6♦	D2TZM4-150	TTL	TAP	2.0	0.8	1	20		5.0	150n	4.0n			0.3	0	7	1	J01-38	DIP30c	
7♦	D2TZM4-150M	TTL	TAP	2.0	0.8	1	20		5.0	150n	4.0n			0.3	5	C	1	J01-38	DIP30c	
8♦	D2TZM4-200	TTL	TAP	2.0	0.8	1	20		5.0	200n	4.0n			0.3	0	7	1	J01-38	DIP30c	
9♦	D2TZM4-200M	TTL	TAP	2.0	0.8	1	20		5.0	200n	4.0n			0.3	5	C	1	J01-38	DIP30c	
10♦	D2TZM4-250	TTL	TAP	2.0	0.8	1	20		5.0	250n	4.0n			0.3	0	7	1	J01-38	DIP30c	
11♦	D2TZM4-250M	TTL	TAP	2.0	0.8	1	20		5.0	250n	4.0n			0.3	5	C	1	J01-38	DIP30c	
12♦	D2TZM4-300	TTL	TAP	2.0	0.8	1	20		5.0	300n	4.0n			0.3	0	7	1	J01-38	DIP30c	
13♦	D2TZM4-300M	TTL	TAP	2.0	0.8	1	20		5.0	300n	4.0n			0.3	5	C	1	J01-38	DIP30c	
14♦	D2TZM4-350	TTL	TAP	2.0	0.8	1	20		5.0	350n	4.0n			0.3	0	7	1	J01-38	DIP30c	
15♦	D2TZM4-350M	TTL	TAP	2.0	0.8	1	20		5.0	350n	4.0n			0.3	5	C	1	J01-38	DIP30c	
16♦	D2TZM4-400	TTL	TAP	2.0	0.8	1	20		5.0	400n	4.0n			0.3	0	7	1	J01-38	DIP30c	
17♦	D2TZM4-400M	TTL	TAP	2.0	0.8	1	20		5.0	400n	4.0n			0.3	5	C	1	J01-38	DIP30c	
18♦	D2TZM4-450	TTL	TAP	2.0	0.8	1	20		5.0	450n	4.0n			0.3	0	7	1	J01-38	DIP30c	
19♦	D2TZM4-450M	TTL	TAP	2.0	0.8	1	20		5.0	450n	4.0n			0.3	5	C	1	J01-38	DIP30c	
20♦	D2TZM4-50	TTL	TAP	2.0	0.8	1	20		5.0	50n	4.0n			0.3	0	7	1	J01-38	DIP30c	
21♦	D2TZM4-50M	TTL	TAP	2.0	0.8	1	20		5.0	50n	4.0n			0.3	5	C	1	J01-38	DIP30c	
22♦	D2TZM4-500	TTL	TAP	2.0	0.8	1	20		5.0	500n	4.0n			0.3	0	7	1	J01-38	DIP30c	
23♦	D2TZM4-500M	TTL	TAP	2.0	0.8	1	20		5.0	500n	4.0n			0.3	5	C	1	J01-38	DIP30c	
24♦	DDU3J2020	TTL	TAP			1	20	0	5.5	20n	4.0n		375m		0	7	1	J02-2	MD30a	
25♦	DDU3J2040	TTL	TAP			1	20	0	5.5	40n	4.0n		375m		0	7	1	J02-2	MD30a	
26♦	DDU3J2050	TTL	TAP			1	20	0	5.5	50n	4.0n		375m		0	7	1	J02-2	MD30a	
27♦	DDU3J2060	TTL	TAP			1	20	0	5.5	60n	4.0n		375m		0	7	1	J02-2	MD30a	
28♦	DDU3J2080	TTL	TAP			1	20	0	5.5	80n	4.0n		375m		0	7	1	J02-2	MD30a	
29♦	DDU3J2100	TTL	TAP			1	20	0	5.5	100n	4.0n		375m		0	7	1	J02-2	MD30a	
30♦	DDU3J2150	TTL	TAP			1	20	0	5.5	150n	4.0n		375m		0	7	1	J02-2	MD30a	
31♦	DDU3J2200	TTL	TAP			1	20	0	5.5	200n	4.0n		375m		0	7	1	J02-2	MD30a	
32♦	DDU3J2300	TTL	TAP			1	20	0	5.5	300n	4.0n		375m		0	7	1	J02-2	MD30a	
33♦	DDU3J2400	TTL	TAP			1	20	0	5.5	400n	4.0n		375m		0	7	1	J02-2	MD30a	
34♦	DDU3J2500	TTL	TAP			1	20	0	5.5	500n	4.0n		375m		0	7	1	J02-2	MD30a	
35▼	DDU3J5025	TTL	TAP			1	20	0	5.5	25n	4.0n		375m		0	7	1	J02-2	MD30a	
36▼	DDU3J5050	TTL	TAP			1	20	0	5.5	50n	4.0n		375m		0	7	1	J02-2	MD30a	
37▼	DDU3J5075	TTL	TAP			1	20	0	5.5	75n	4.0n		375m		0	7	1	J02-2	MD30a	
38▼	DDU3J5100	TTL	TAP			1	20	0	5.5	100n	4.0n		375m		0	7	1	J02-2	MD30a	
39▼	DDU3J5125	TTL	TAP			1	20	0	5.5	125n	4.0n		375m		0	7	1	J02-2	MD30a	
40▼	DDU3J5150	TTL	TAP			1	20	0	5.5	150n	4.0n		375m		0	7	1	J02-2	MD30a	
41▼	DDU3J5200	TTL	TAP			1	20	0	5.5	200n	4.0n		375m		0	7	1	J02-2	MD30a	
42▼	DDU3J5250	TTL	TAP			1	20	0	5.5	250n	4.0n		375m		0	7	1	J02-2	MD30a	
43▼	DDU3J5300	TTL	TAP			1	20	0	5.5	300n	4.0n		375m		0	7	1	J02-2	MD30a	
44▼	DDU3J5400	TTL	TAP			1	20	0	5.5	400n	4.0n		375m		0	7	1	J02-2	MD30a	
45▼	DDU3J5500	TTL	TAP			1	20	0	5.5	500n	4.0n		375m		0	7	1	J02-2	MD30a	
46	DDU4-2020	TTL	TAP			1	20	0	5.5	20n	4.0n		375m		0	7	1	J02-15	MD30b	
47♦	DDU4F5004	TTL	TAP	2.0	0.8	1			5.0	4.0n	2.0n†				0	7	1	J02-15	DIP14	☑
48♦	DDU4F5006	TTL	TAP	2.0	0.8	1			5.0	6.0n	2.0n†				0	7	1	J02-15	DIP14	☑
49♦	DDU4F5008	TTL	TAP	2.0	0.8	1			5.0	8.0n	2.0n†				0	7	1	J02-15	DIP14	☑
50♦	DDU4F5010	TTL	TAP	2.0	0.8	1			5.0	10n	2.0n†				0	7	1	J02-15	DIP14	☑
51♦	DDU4F5012	TTL	TAP	2.0	0.8	1			5.0	12n	2.0n†				0	7	1	J02-15	DIP14	☑
52♦	DDU4F5016	TTL	TAP	2.0	0.8	1			5.0	16n	2.0n†				0	7	1	J02-15	DIP14	☑
53♦	DDU4F5020	TTL	TAP	2.0	0.8	1			5.0	20n	2.0n†				0	7	1	J02-15	DIP14	☑
54♦	DDU4F5025	TTL	VAR			1	25	0	5.0	25n	2.0n		168m		0	7	1	J02-1	MD30b	
55♦	DDU4F5030	TTL	TAP	2.0	0.8	1			5.0	30n	2.0n†				0	7	1	J02-15	DIP14	☑
56♦	DDU4F5035	TTL	TAP	2.0	0.8	1			5.0	35n	2.0n†				0	7	1	J02-15	DIP14	☑
57♦	DDU4F5040	TTL	TAP	2.0	0.8	1			5.0	40n	2.0n†				0	7	1	J02-15	DIP14	☑
58♦	DDU4F5045	TTL	TAP	2.0	0.8	1			5.0	45n	2.0n†				0	7	1	J02-15	DIP14	☑
59♦	DDU4F5050	TTL	VAR			1	25	0	5.0	50n	2.0n		168m		0	7	1	J02-1	MD30b	
60♦	DDU4F5060	TTL	TAP	2.0	0.8	1			5.0	60n	2.0n†				0	7	1	J02-15	DIP14	☑
61♦	DDU4F5075	TTL	VAR			1	25	0	5.0	75n	2.0n		168m		0	7	1	J02-1	MD30b	
62♦	DDU4F5100	TTL	VAR			1	25	0	5.0	100n	2.0n		168m		0	7	1	J02-1	MD30b	
63♦	DDU4F5125	TTL	TAP			1	25	0	5.0	125n	2.0n		168m		0	7	1	J02-1	MD30b	
64♦	DDU4F5150	TTL	TAP			1	25	0	5.0	150n	2.0n		168m		0	7	1	J02-1	MD30b	
65♦	DDU4F5175	TTL	TAP	2.0	0.8	1			5.0	175n	2.0n†				0	7	1	J02-15	DIP14	☑
66♦	DDU4F5200	TTL	TAP			1	25	0	5.0	200n	2.0n		168m		0	7	1	J02-1	MD30b	
67♦	DDU4F5250	TTL	TAP			1	25	0	5.0	250n	2.0n		168m		0	7	1	J02-1	MD30b	
68♦	DDU4F5300	TTL	TAP			1	25	0	5.0	300n	2.0n		168m		0	7	1	J02-1	MD30b	
69♦	DDU4F5350	TTL	TAP	2.0	0.8	1			5.0	350n	2.0n†				0	7	1	J02-15	DIP14	☑
70♦	DDU4F5400	TTL	TAP			1	25	0	5.0	400n	2.0n		168m		0	7	1	J02-1	MD30b	
71♦	DDU4F5450	TTL	TAP	2.0	0.8	1			5.0	450n	2.0n†				0	7	1	J02-15	DIP14	☑
72♦	DDU4F5500	TTL	TAP			1	25	0	5.0	500n	2.0n		168m		0	7	1	J02-1	MD30b	
73♦	DDU7F10	TTL	TAP			1	25	0	5.0	9.0n	2.0n		262m		0	7	1	J02-16	MD30b	
74♦	DDU7F20	TTL	TAP			1	25	0	5.0	18n	2.0n		262m		0	7	1	J02-16	MD30b	
75♦	DDU7F25	TTL	TAP			1	25	0	5.0	23n	2.0n		262m		0	7	1	J02-16	MD30b	
76♦	DDU7F50	TTL	TAP			1	25	0	5.0	45n	2.0n		262m		0	7	1	J02-16	MD30b	
77♦	DDU7F100	TTL	TAP			1	25	0	5.0	100n	2.0n		262m		0	7	1	J02-16	MD30b	
78♦	DDU7F150	TTL	TAP			1	25	0	5.0	150n	2.0n		262m		0	7	1	J02-16	MD30b	
79♦	DDU7F200	TTL	TAP			1	25	0	5.0	200n	2.0n		262m		0	7	1	J02-16	MD30b	
80♦	DDU7F250	TTL	TAP			1	25	0	5.0	250n	2.0n		262m		0	7	1	J02-16	MD30b	
81♦	DDU7F300	TTL	TAP			1	25	0	5.0	300n	2.0n		262m		0	7	1	J02-16	MD30b	
82♦	DDU7F400	TTL	TAP			1	25	0	5.0	400n	2.0n		262m		0	7	1	J02-16	MD30b	
83♦	DDU7F500	TTL	TAP			1	25	0	5.0	500n	2.0n		262m		0	7	1	J02-16	MD30b	
84	DDU7J10	TTL	TAP			1	20	0	5.5	9.0n	4.0n		740		0	7	1	J02-1	MD30b	
85	DDU7J20	TTL	TAP			1	20	0	5.5	18n	4.0n		740		0	7	1	J02-1	MD30b	
86	DDU7J25	TTL	TAP			1	20	0	5.5	22n	4.0n		740		0	7	1	J02-1	MD30b	
87	DDU7J50	TTL	TAP			1	20	0	5.5	45n	4.0n		740		0	7	1	J02-1	MD30b	
88	DDU7J100	TTL	TAP			1	20	0	5.5	100n	4.0n		740		0	7	1	J02-1	MD30b	
89	DDU7J150	TTL	TAP			1	20	0	5.5	150n	4.0n		740		0	7	1	J02-1	MD30b	
90	DDU7J200	TTL	TAP			1	20	0	5.5	200n	4.0n		740		0	7	1	J02-1	MD30b	
91	DDU7J250	TTL	TAP			1	20	0	5.5	250n	4.0n		740		0	7	1	J02-1	MD30b	
92	DDU7J300	TTL	TAP			1	20	0	5.5	300n	4.0n		740		0	7	1	J02-1	MD30b	
93	DDU7J400	TTL	TAP			1	20	0	5.5	400n	4.0n		740		0	7	1	J02-1	MD30b	
94	DDU7J500	TTL	TAP			1	20	0	5.5	500n	4.0n		740		0	7	1	J02-1	MD30b	
95♦	DDU8F5004	TTL	TAP			1		0	5.0	1.0n	2.0n		168m		0	7	1	J02-6	MD30d	
96♦	DDU8F5006	TTL	TAP			1		0	5.0	1.5n	2.0n		168m		0	7	1	J02-6	MD30d	
97♦	DDU8F5008	TTL	TAP			1		0	5.0	2.0n	2.0n		168m		0	7	1	J02-6	MD30d	
98♦	DDU8F5010	TTL	TAP			1		0	5.0	2.5n	2.0n		168m		0	7	1	J02-6	MD30d	
99♦	DDU8F5012	TTL	TAP			1		0	5.0	3.0n	2.0n		168m		0	7	1	J02-6	MD30d	
100♦	DDU8F5016	TTL	TAP			1		0	5.0	4.0n	2.0n		168m		0	7	1	J02-6	MD30d	
101♦	DDU8F5020	TTL	TAP			1		0	5.0	5.0n	2.0n		168m		0	7	1	J02-6	MD30d	
102♦	DDU8F5025	TTL	TAP	2.0	0.8	1			5.0	25n	2.0n†				0	7	1	J02-6	DIP8	☑
103♦	DDU8F5030	TTL	TAP			1		0	5.0	6.0n	2.0n		168m		0	7	1	J02-6	MD30d	
104♦	DDU8F5035	TTL	TAP			1		0	5.0	35n	2.0n		168m		0	7	1	J02-6	MD30d	
105♦	DDU8F5040	TTL	TAP			1		0	5.0	40n	2.0n		168m		0	7	1	J02-6	MD30d	
106♦	DDU8F5045	TTL	TAP			1		0	5.0	45n	2.0n		168m		0	7	1	J02-6	MD30d	
107♦	DDU8F5050	TTL	TAP			1		0	5.0	50n	2.0n		168m		0	7	1	J02-6	MD30d	
108♦	DDU8F5060	TTL	TAP			1		0	5.0	60n	2.0n		168m		0	7	1	J02-6	MD30d	
109♦	DDU8F5075	TTL	TAP			1		0	5.0	75n	2.0n		168m		0	7	1	J02-6	MD30d	
110♦	DDU8F5100	TTL	TAP			1		0	5.0	100n	2.0n		168m		0	7	1	J02-6	MD30d	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] D T E Y L P A E Y	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN IN	OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	DDU8F5150	TTL	TAP			1		0	5.0	150n	2.0n		168m		0	7	1	J02-6	MD30d
2♦	DDU8F5175	TTL	TAP			1		0	5.0	175n	2.0n		168m		0	7	1	J02-6	MD30d
3♦	DDU8F5200	TTL	TAP			1		0	5.0	200n	2.0n		168m		0	7	1	J02-6	MD30d
4	DDU66-4	TTL	TAP	2.0	0.8	1			5.0	5.0n			375m		0	7	1	J02-15	MD14J
5	DDU66-4A	TTL	TAP	2.0	0.8	1			5.0	5.0n			375m		0	7	1	J02-15	MD14K
6	DDU66-4B	TTL	TAP	2.0	0.8	1			5.0	5.0n			375m		0	7	1	J02-15	MD14L
7	DDU66-6	TTL	TAP	2.0	0.8	1			5.0	7.0n			375m		0	7	1	J02-15	MD14J
8	DDU66-6A	TTL	TAP	2.0	0.8	1			5.0	7.0n			375m		0	7	1	J02-15	MD14K
9	DDU66-6B	TTL	TAP	2.0	0.8	1			5.0	7.0n			375m		0	7	1	J02-15	MD14L
10	DDU66-8	TTL	TAP	2.0	0.8	1			5.0	10n			375m		0	7	1	J02-15	MD14J
11	DDU66-8A	TTL	TAP	2.0	0.8	1			5.0	10n			375m		0	7	1	J02-15	MD14K
12	DDU66-8B	TTL	TAP	2.0	0.8	1			5.0	10n			375m		0	7	1	J02-15	MD14L
13	DDU66-10	TTL	TAP	2.0	0.8	1			5.0	12n			375m		0	7	1	J02-15	MD14J
14	DDU66-10A	TTL	TAP	2.0	0.8	1			5.0	12n			375m		0	7	1	J02-15	MD14K
15	DDU66-10B	TTL	TAP	2.0	0.8	1			5.0	12n			375m		0	7	1	J02-15	MD14L
16	DDU66-12	TTL	TAP	2.0	0.8	1			5.0	16n			375m		0	7	1	J02-15	MD14J
17	DDU66-12A	TTL	TAP	2.0	0.8	1			5.0	16n			375m		0	7	1	J02-15	MD14K
18	DDU66-12B	TTL	TAP	2.0	0.8	1			5.0	16n			375m		0	7	1	J02-15	MD14L
19	DDU66-16	TTL	TAP	2.0	0.8	1			5.0	18n			375m		0	7	1	J02-15	MD14J
20	DDU66-16A	TTL	TAP	2.0	0.8	1			5.0	18n			375m		0	7	1	J02-15	MD14K
21	DDU66-16B	TTL	TAP	2.0	0.8	1			5.0	18n			375m		0	7	1	J02-15	MD14L
22	DDU66-20	TTL	TAP	2.0	0.8	1			5.0	23n			375m		0	7	1	J02-15	MD14J
23	DDU66-20A	TTL	TAP	2.0	0.8	1			5.0	23n			375m		0	7	1	J02-15	MD14K
24	DDU66-20B	TTL	TAP	2.0	0.8	1			5.0	23n			375m		0	7	1	J02-15	MD14L
25	DDU66-25	TTL	TAP	2.0	0.8	1			5.0	28n			375m		0	7	1	J02-15	MD14J
26	DDU66-25A	TTL	TAP	2.0	0.8	1			5.0	28n			375m		0	7	1	J02-15	MD14K
27	DDU66-25B	TTL	TAP	2.0	0.8	1			5.0	28n			375m		0	7	1	J02-15	MD14L
28	DDU66-30	TTL	TAP	2.0	0.8	1			5.0	33n			375m		0	7	1	J02-15	MD14J
29	DDU66-30A	TTL	TAP	2.0	0.8	1			5.0	33n			375m		0	7	1	J02-15	MD14K
30	DDU66-30B	TTL	TAP	2.0	0.8	1			5.0	33n			375m		0	7	1	J02-15	MD14L
31	DDU66-35	TTL	TAP	2.0	0.8	1			5.0	38n			375m		0	7	1	J02-15	MD14J
32	DDU66-35A	TTL	TAP	2.0	0.8	1			5.0	38n			375m		0	7	1	J02-15	MD14K
33	DDU66-35B	TTL	TAP	2.0	0.8	1			5.0	38n			375m		0	7	1	J02-15	MD14L
34	DDU66-40	TTL	TAP	2.0	0.8	1			5.0	43n			375m		0	7	1	J02-15	MD14J
35	DDU66-40A	TTL	TAP	2.0	0.8	1			5.0	43n			375m		0	7	1	J02-15	MD14K
36	DDU66-40B	TTL	TAP	2.0	0.8	1			5.0	43n			375m		0	7	1	J02-15	MD14L
37	DDU66-45	TTL	TAP	2.0	0.8	1			5.0	48n			375m		0	7	1	J02-15	MD14J
38	DDU66-45A	TTL	TAP	2.0	0.8	1			5.0	48n			375m		0	7	1	J02-15	MD14K
39	DDU66-45B	TTL	TAP	2.0	0.8	1			5.0	48n			375m		0	7	1	J02-15	MD14L
40	DDU66-50	TTL	TAP	2.0	0.8	1			5.0	53n			375m		0	7	1	J02-15	MD14J
41	DDU66-50A	TTL	TAP	2.0	0.8	1			5.0	53n			375m		0	7	1	J02-15	MD14K
42	DDU66-50B	TTL	TAP	2.0	0.8	1			5.0	53n			375m		0	7	1	J02-15	MD14L
43	DDU66-60	TTL	TAP	2.0	0.8	1			5.0	63n			375m		0	7	1	J02-15	MD14J
44	DDU66-60A	TTL	TAP	2.0	0.8	1			5.0	63n			375m		0	7	1	J02-15	MD14K
45	DDU66-60B	TTL	TAP	2.0	0.8	1			5.0	63n			375m		0	7	1	J02-15	MD14L
46	DDU66-75	TTL	TAP	2.0	0.8	1			5.0	79n			375m		0	7	1	J02-15	MD14J
47	DDU66-75A	TTL	TAP	2.0	0.8	1			5.0	79n			375m		0	7	1	J02-15	MD14K
48	DDU66-75B	TTL	TAP	2.0	0.8	1			5.0	79n			375m		0	7	1	J02-15	MD14L
49	DDU66-100	TTL	TAP	2.0	0.8	1			5.0	105n			375m		0	7	1	J02-15	MD14J
50	DDU66-100A	TTL	TAP	2.0	0.8	1			5.0	105n			375m		0	7	1	J02-15	MD14K
51	DDU66-100B	TTL	TAP	2.0	0.8	1			5.0	105n			375m		0	7	1	J02-15	MD14L
52	DDU66-125	TTL	TAP	2.0	0.8	1			5.0	131n			375m		0	7	1	J02-15	MD14J
53	DDU66-125A	TTL	TAP	2.0	0.8	1			5.0	131n			375m		0	7	1	J02-15	MD14K
54	DDU66-125B	TTL	TAP	2.0	0.8	1			5.0	131n			375m		0	7	1	J02-15	MD14L
55	DDU66-150	TTL	TAP	2.0	0.8	1			5.0	157n			375m		0	7	1	J02-15	MD14J
56	DDU66-150A	TTL	TAP	2.0	0.8	1			5.0	157n			375m		0	7	1	J02-15	MD14K
57	DDU66-150B	TTL	TAP	2.0	0.8	1			5.0	157n			375m		0	7	1	J02-15	MD14L
58	DDU66-175	TTL	TAP	2.0	0.8	1			5.0	183n			375m		0	7	1	J02-15	MD14J
59	DDU66-175A	TTL	TAP	2.0	0.8	1			5.0	183n			375m		0	7	1	J02-15	MD14K
60	DDU66-175B	TTL	TAP	2.0	0.8	1			5.0	183n			375m		0	7	1	J02-15	MD14L
61	DDU66-200	TTL	TAP	2.0	0.8	1			5.0	210n			375m		0	7	1	J02-15	MD14J
62	DDU66-200A	TTL	TAP	2.0	0.8	1			5.0	210n			375m		0	7	1	J02-15	MD14K
63	DDU66-200B	TTL	TAP	2.0	0.8	1			5.0	210n			375m		0	7	1	J02-15	MD14L
64	DDU66-250	TTL	TAP	2.0	0.8	1			5.0	262n			375m		0	7	1	J02-15	MD14J
65	DDU66-250A	TTL	TAP	2.0	0.8	1			5.0	262n			375m		0	7	1	J02-15	MD14K
66	DDU66-250B	TTL	TAP	2.0	0.8	1			5.0	262n			375m		0	7	1	J02-15	MD14L
67	DDU66F4	TTL	TAP			1		0	5.0	4.0n	2.0n†		168m		0	7	1	J02-1	MD14J
68♦	DDU66F4A	TTL	TAP			1		0	5.0	4.0n	2.0n†		168m		0	7	1	J02-1	MD14K
69	DDU66F4B	TTL	TAP	2.0	0.8	1			5.0	4.0n	2.0n†				0	7	1	J02-1	MD14L
70	DDU66F6	TTL	TAP			1		0	5.0	6.0n	2.0n†		168m		0	7	1	J02-1	MD14J
71♦	DDU66F6A	TTL	TAP			1		0	5.0	6.0n	2.0n†		168m		0	7	1	J02-1	MD14K
72	DDU66F6B	TTL	TAP	2.0	0.8	1			5.0	6.0n	2.0n†				0	7	1	J02-1	MD14L
73	DDU66F8	TTL	TAP			1		0	5.0	8.0n	2.0n†		168m		0	7	1	J02-1	MD14J
74♦	DDU66F8A	TTL	TAP			1		0	5.0	8.0n	2.0n†		168m		0	7	1	J02-1	MD14K
75	DDU66F8B	TTL	TAP	2.0	0.8	1			5.0	8.0n	2.0n†				0	7	1	J02-1	MD14L
76	DDU66F10	TTL	TAP			1		0	5.0	10n	2.0n†		168m		0	7	1	J02-1	MD14J
77♦	DDU66F10A	TTL	TAP			1		0	5.0	10n	2.0n†		168m		0	7	1	J02-1	MD14K
78	DDU66F10B	TTL	TAP	2.0	0.8	1			5.0	10n	2.0n†				0	7	1	J02-1	MD14L
79	DDU66F12	TTL	TAP			1		0	5.0	12n	2.0n†		168m		0	7	1	J02-1	MD14J
80♦	DDU66F12A	TTL	TAP			1		0	5.0	12n	2.0n†		168m		0	7	1	J02-1	MD14K
81	DDU66F12B	TTL	TAP	2.0	0.8	1			5.0	12n	2.0n†				0	7	1	J02-1	MD14L
82	DDU66F16	TTL	TAP			1		0	5.0	16n	2.0n†		168m		0	7	1	J02-1	MD14J
83♦	DDU66F16A	TTL	TAP			1		0	5.0	16n	2.0n†		168m		0	7	1	J02-1	MD14K
84	DDU66F16B	TTL	TAP	2.0	0.8	1			5.0	16n	2.0n†				0	7	1	J02-1	MD14L
85	DDU66F20	TTL	TAP			1		0	5.0	20n	2.0n†		168m		0	7	1	J02-1	MD14J
86♦	DDU66F20A	TTL	TAP			1		0	5.0	20n	2.0n†		168m		0	7	1	J02-1	MD14K
87	DDU66F20B	TTL	TAP	2.0	0.8	1			5.0	20n	2.0n†				0	7	1	J02-1	MD14L
88	DDU66F25	TTL	TAP			1		0	5.0	25n	2.0n†		168m		0	7	1	J02-1	MD14J
89♦	DDU66F25A	TTL	TAP			1		0	5.0	25n	2.0n†		168m		0	7	1	J02-1	MD14K
90	DDU66F25B	TTL	TAP	2.0	0.8	1			5.0	25n	2.0n†				0	7	1	J02-1	MD14L
91	DDU66F30	TTL	TAP			1		0	5.0	30n	2.0n†		168m		0	7	1	J02-1	MD14J
92♦	DDU66F30A	TTL	TAP			1		0	5.0	30n	2.0n†		168m		0	7	1	J02-1	MD14K
93	DDU66F30B	TTL	TAP	2.0	0.8	1			5.0	30n	2.0n†				0	7	1	J02-1	MD14L
94	DDU66F35	TTL	TAP			1		0	5.0	35n	2.0n†		168m		0	7	1	J02-1	MD14J
95♦	DDU66F35A	TTL	TAP			1		0	5.0	35n	2.0n†		168m		0	7	1	J02-1	MD14K
96	DDU66F35B	TTL	TAP	2.0	0.8	1			5.0	35n	2.0n†				0	7	1	J02-1	MD14L
97	DDU66F40	TTL	TAP			1		0	5.0	40n	2.0n†		168m		0	7	1	J02-1	MD14J
98♦	DDU66F40A	TTL	TAP			1		0	5.0	40n	2.0n†		168m		0	7	1	J02-1	MD14K
99	DDU66F40B	TTL	TAP	2.0	0.8	1			5.0	40n	2.0n†				0	7	1	J02-1	MD14L
100	DDU66F45	TTL	TAP			1		0	5.0	45n	2.0n†		168m		0	7	1	J02-1	MD14J
101♦	DDU66F45A	TTL	TAP			1		0	5.0	45n	2.0n†		168m		0	7	1	J02-1	MD14K
102	DDU66F45B	TTL	TAP	2.0	0.8	1			5.0	45n	2.0n†				0	7	1	J02-1	MD14L
103	DDU66F50	TTL	TAP			1		0	5.0	50n	2.0n†		168m		0	7	1	J02-1	MD14J
104	DDU66F50B	TTL	TAP	2.0	0.8	1			5.0	50n	2.0n†				0	7	1	J02-1	MD14L
105	DDU66F60	TTL	TAP			1		0	5.0	60n	2.0n†		168m		0	7	1	J02-1	MD14J
106♦	DDU66F60A	TTL	TAP			1		0	5.0	60n	2.0n†		168m		0	7	1	J02-1	MD14K
107	DDU66F60B	TTL	TAP	2.0	0.8	1			5.0	60n	2.0n†				0	7	1	J02-1	MD14L
108	DDU66F75	TTL	TAP			1		0	5.0	75n	2.0n†		168m		0	7	1	J02-1	MD14J
109♦	DDU66F75A	TTL	TAP			1		0	5.0	75n	2.0n†		168m		0	7	1	J02-1	MD14K
110	DDU66F75B	TTL	TAP	2.0	0.8	1			5.0	75n	2.0n†				0	7	1	J02-1	MD14L

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] D T E Y L P A E Y	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[2] CKTS P	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1	DDU66F100	TTL	TAP			1		0	5.0	100n	2.0nt		168m		0	7		J02-1	MD14J	
2♦	DDU66F100A	TTL	TAP			1		0	5.0	100n	2.0nt		168m		0	7		J02-1	MD14K	
3	DDU66F100B	TTL	TAP	2.0	0.8	1			5.0	100n	2.0nt				0	7		J02-1	MD14L	
4	DDU66F125	TTL	TAP			1		0	5.0	125n	2.0nt		168m		0	7	1	J02-1	MD14J	
5♦	DDU66F125A	TTL	TAP			1		0	5.0	125n	2.0nt		168m		0	7	1	J02-1	MD14K	
6	DDU66F125B	TTL	TAP	2.0	0.8	1			5.0	125n	2.0nt				0	7	1	J02-1	MD14L	
7	DDU66F150	TTL	TAP			1		0	5.0	150n	2.0nt		168m		0	7	1	J02-1	MD14J	
8♦	DDU66F150A	TTL	TAP			1		0	5.0	150n	2.0nt		168m		0	7	1	J02-1	MD14K	
9	DDU66F150B	TTL	TAP	2.0	0.8	1			5.0	150n	2.0nt				0	7	1	J02-1	MD14L	
10	DDU66F175	TTL	TAP			1		0	5.0	175n	2.0nt		168m		0	7	1	J02-1	MD14J	
11♦	DDU66F175A	TTL	TAP			1		0	5.0	175n	2.0nt		168m		0	7	1	J02-1	MD14K	
12	DDU66F175B	TTL	TAP	2.0	0.8	1			5.0	175n	2.0nt				0	7	1	J02-1	MD14L	
13	DDU66F200	TTL	TAP			1		0	5.0	200n	2.0nt		168m		0	7	1	J02-1	MD14J	
14♦	DDU66F200A	TTL	TAP			1		0	5.0	200n	2.0nt		168m		0	7	1	J02-1	MD14K	
15	DDU66F200B	TTL	TAP	2.0	0.8	1			5.0	200n	2.0nt				0	7	1	J02-1	MD14L	
16	DDU66F250	TTL	TAP			1		0	5.0	250n	2.0nt		168m		0	7	1	J02-1	MD14J	
17♦	DDU66F250A	TTL	TAP			1		0	5.0	250n	2.0nt		168m		0	7	1	J02-1	MD14K	
18	DDU66F250B	TTL	TAP	2.0	0.8	1			5.0	250n	2.0nt				0	7	1	J02-1	MD14L	
19	DDU222-4	TTL	TAP	2.0	0.8	1			5.0	4.0n	4.0nt		375m		0	7	1	J01-64	MD8A	
20	DDU222-6	TTL	TAP	2.0	0.8	1			5.0	6.0n	4.0nt		375m		0	7	1	J01-64	MD8A	
21	DDU222-8	TTL	TAP	2.0	0.8	1			5.0	8.0n	4.0nt		375m		0	7	1	J01-64	MD8A	
22	DDU222-10	TTL	TAP	2.0	0.8	1			5.0	10n	4.0nt		375m		0	7	1	J01-64	MD8A	
23	DDU222-12	TTL	TAP	2.0	0.8	1			5.0	12n	4.0nt		375m		0	7	1	J01-64	MD8A	
24	DDU222-16	TTL	TAP	2.0	0.8	1			5.0	16n	4.0nt		375m		0	7	1	J01-64	MD8A	
25	DDU222-20	TTL	TAP	2.0	0.8	1			5.0	20n	4.0nt		375m		0	7	1	J01-64	MD8A	
26	DDU222-30	TTL	TAP	2.0	0.8	1			5.0	30n	4.0nt		375m		0	7	1	J01-64	MD8A	
27	DDU222-35	TTL	TAP	2.0	0.8	1			5.0	35n	4.0nt		375m		0	7	1	J01-64	MD8A	
28	DDU222-40	TTL	TAP	2.0	0.8	1			5.0	40n	4.0nt		375m		0	7	1	J01-64	MD8A	
29	DDU222-45	TTL	TAP	2.0	0.8	1			5.0	45n	4.0nt		375m		0	7	1	J01-64	MD8A	
30	DDU222-50	TTL	TAP	2.0	0.8	1			5.0	50n	4.0nt		375m		0	7	1	J01-64	MD8A	
31	DDU222-60	TTL	TAP	2.0	0.8	1			5.0	60n	4.0nt		375m		0	7	1	J01-64	MD8A	
32	DDU222-75	TTL	TAP	2.0	0.8	1			5.0	75n	4.0nt		375m		0	7	1	J01-64	MD8A	
33	DDU222-100	TTL	TAP	2.0	0.8	1			5.0	100n	4.0nt		375m		0	7	1	J01-64	MD8A	
34	DDU222-125	TTL	TAP	2.0	0.8	1			5.0	125n	4.0nt		375m		0	7	1	J01-64	MD8A	
35	DDU222-150	TTL	TAP	2.0	0.8	1			5.0	150n	4.0nt		375m		0	7	1	J01-64	MD8A	
36	DDU222-175	TTL	TAP	2.0	0.8	1			5.0	175n	4.0nt		375m		0	7	1	J01-64	MD8A	
37	DDU222-200	TTL	TAP	2.0	0.8	1			5.0	200n	4.0nt		375m		0	7	1	J01-64	MD8A	
38	DDU222-250	TTL	TAP	2.0	0.8	1			5.0	250n	4.0nt		375m		0	7	1	J01-64	MD8A	
39	DDU222-300	TTL	TAP	2.0	0.8	1			5.0	300n	4.0nt		375m		0	7	1	J01-64	MD8A	
40	DDU222-350	TTL	TAP	2.0	0.8	1			5.0	350n	4.0nt		375m		0	7	1	J01-64	MD8A	
41	DDU222-400	TTL	TAP	2.0	0.8	1			5.0	400n	4.0nt		375m		0	7	1	J01-64	MD8A	
42	DDU222-450	TTL	TAP	2.0	0.8	1			5.0	450n			375m		0	7	1	J01-64	MD8A	
43	DDU222-500	TTL	TAP	2.0	0.8	1			5.0	500n			375m		0	7	1	J01-64	MD8A	
44	DDU222F4	TTL	TAP	2.0	0.8	1			5.0	4.0n	2.0nt				0	7	1	J01-64	MD8A	
45	DDU222F6	TTL	TAP	2.0	0.8	1			5.0	6.0n	2.0nt				0	7	1	J01-64	MD8A	
46	DDU222F8	TTL	TAP	2.0	0.8	1			5.0	8.0n	2.0nt				0	7	1	J01-64	MD8A	
47	DDU222F10	TTL	TAP	2.0	0.8	1			5.0	10n	2.0nt				0	7	1	J01-64	MD8A	
48	DDU222F12	TTL	TAP	2.0	0.8	1			5.0	12n	2.0nt				0	7	1	J01-64	MD8A	
49	DDU222F16	TTL	TAP	2.0	0.8	1			5.0	16n	2.0nt				0	7	1	J01-64	MD8A	
50	DDU222F20	TTL	TAP	2.0	0.8	1			5.0	20n	2.0nt				0	7	1	J01-64	MD8A	
51	DDU222F25	TTL	TAP	2.0	0.8	1			5.0	25n	2.0nt				0	7	1	J01-64	MD8A	
52	DDU222F30	TTL	TAP	2.0	0.8	1			5.0	30n	2.0nt				0	7	1	J01-64	MD8A	
53	DDU222F35	TTL	TAP	2.0	0.8	1			5.0	35n	2.0nt				0	7	1	J01-64	MD8A	
54	DDU222F40	TTL	TAP	2.0	0.8	1			5.0	40n	2.0nt				0	7	1	J01-64	MD8A	
55	DDU222F45	TTL	TAP	2.0	0.8	1			5.0	45n	2.0nt				0	7	1	J01-64	MD8A	
56	DDU222F50	TTL	TAP	2.0	0.8	1			5.0	50n	2.0nt				0	7	1	J01-64	MD8A	
57	DDU222F60	TTL	TAP	2.0	0.8	1			5.0	60n	2.0nt				0	7	1	J01-64	MD8A	
58	DDU222F75	TTL	TAP	2.0	0.8	1			5.0	75n	2.0nt				0	7	1	J01-64	MD8A	
59	DDU222F100	TTL	TAP	2.0	0.8	1			5.0	100n	2.0nt				0	7	1	J01-64	MD8A	
60	DDU222F125	TTL	TAP	2.0	0.8	1			5.0	125n	2.0nt				0	7	1	J01-64	MD8A	
61	DDU222F150	TTL	TAP	2.0	0.8	1			5.0	150n	2.0nt				0	7	1	J01-64	MD8A	
62	DDU222F175	TTL	TAP	2.0	0.8	1			5.0	175n	2.0nt				0	7	1	J01-64	MD8A	
63	DDU222F200	TTL	TAP	2.0	0.8	1			5.0	200n	2.0nt				0	7	1	J01-64	MD8A	
64	DDU222F250	TTL	TAP	2.0	0.8	1			5.0	250n	2.0nt				0	7	1	J01-64	MD8A	
65	DDU224F10	TTL	TAP	2.0	0.8	1			5.0	9.0n	2.0nt				0	7	1	J01-71	MD14	☑
66	DDU224F20	TTL	TAP	2.0	0.8	1			5.0	18n	2.0nt				0	7	1	J01-71	MD14	☑
67	DDU224F25	TTL	TAP	2.0	0.8	1			5.0	22n	2.0nt				0	7	1	J01-71	MD14	☑
68	DDU224F50	TTL	TAP	2.0	0.8	1			5.0	45n	2.0nt				0	7	1	J01-71	MD14	☑
69	DDU224F100	TTL	TAP	2.0	0.8	1			5.0	100n	2.0nt				0	7	1	J01-71	MD14	☑
70	DDU224F150	TTL	TAP	2.0	0.8	1			5.0	150n	2.0nt				0	7	1	J01-71	MD14	☑
71	DDU224F200	TTL	TAP	2.0	0.8	1			5.0	200n	2.0nt				0	7	1	J01-71	MD14	☑
72	DDU224F250	TTL	TAP	2.0	0.8	1			5.0	250n	2.0nt				0	7	1	J01-71	MD14	☑
73	DDU224F300	TTL	TAP	2.0	0.8	1			5.0	300n	2.0nt				0	7	1	J01-71	MD14	☑
74	DDU224F400	TTL	TAP	2.0	0.8	1			5.0	400n	2.0nt				0	7	1	J01-71	MD14	☑
75	DDU224F500	TTL	TAP	2.0	0.8	1			5.0	500n	2.0nt				0	7	1	J01-71	MD14	☑
76	DL1803	TTL	TAP	2.0	0.8	1		0	5.0	25n	2.0n	2.0n		0.7	0	7	1	J01-11c	MD34	
77	DL1804	TTL	TAP	2.0	0.8	1		0	5.0	50n	2.0n	2.0n		0.7	0	7	1	J01-11c	MD34	
78	DL1805	TTL	TAP	2.0	0.8	1		0	5.0	100n	2.0n	2.0n		0.7	0	7	1	J01-11c	MD34	
79	DL1806	TTL	TAP	2.0	0.8	1		0	5.0	150n	2.0n	2.0n		0.7	0	7	1	J01-11c	MD34	
80	DL1807	TTL	TAP	2.0	0.8	1		0	5.0	200n	2.0n	2.0n		0.7	0	7	1	J01-11c	MD34	
81	DL1808	TTL	TAP	2.0	0.8	1		0	5.0	250n	2.0n	2.0n		0.7	0	7	1	J01-11c	MD34	
82	DL1809	TTL	TAP	2.0	0.8	1		0	5.0	500n	2.0n	2.0n		0.7	0	7	1	J01-11c	MD34	
83	DL1810	TTL	TAP	2.0	0.8	1		0	5.0	1.0u	2.0n	2.0n		0.7	0	7	1	J01-11c	MD34	
84	DL1846	TTL	TAP	2.0	0.8	1	20	0	5.0	175n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33	
85	DL1870	TTL	TAP	2.0	0.8	1		0	5.0	100n	3.0n			0.7	0	7	1	J02-86	MD36	
86	DL1871	TTL	TAP	2.0	0.8	1		0	5.0	150n	4.0n			0.7	0	7	1	J02-86	MD36	
87	DL1872	TTL	TAP	2.0	0.8	1		0	5.0	200n	4.0n			0.7	0	7	1	J02-86	MD36	
88	DL1873	TTL	TAP	2.0	0.8	1		0	5.0	250n	4.0n			0.7	0	7	1	J02-86	MD36	
89	DL1874	TTL	TAP	2.0	0.8	1		0	5.0	500n	4.0n			0.7	0	7	1	J02-86	MD36	
90	DL1875	TTL	TAP	2.0	0.8	1		0	5.0	1.0u	4.0n			0.7	0	7	1	J02-86	MD36	
91	DL1883	TTL	TAP	2.0	0.8	1	20	0	5.0	25n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33	
92	DL1884	TTL	TAP	2.0	0.8	1	20	0	5.0	50n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33	
93	DL1885	TTL	TAP	2.0	0.8	1	20	0	5.0	100n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33	
94	DL1886	TTL	TAP	2.0	0.8	1	20	0	5.0	150n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33	
95	DL1887	TTL	TAP	2.0	0.8	1	20	0	5.0	200n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33	
96	DL1888	TTL	TAP	2.0	0.8	1		0	5.0	250n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33	
97	DL1889	TTL	TAP	2.0	0.8	1		0	5.0	500n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33	
98	DL1909	TTL	TAP	2.0	0.8	1		0	5.0	25n	3.0n	3.0n		0.7	0	7	1	J01-11a	MD33	
99	DL1910	TTL	TAP	2.0	0.8	1		0	5.0	50n	3.0n	3.0n		0.7	0	7	1	J01-11a	MD33	
100	DL1911	TTL	TAP	2.0	0.8	1		0	5.0	75n	3.0n	3.0n		0.7	0	7	1	J01-11a	MD33	
101	DL1912	TTL	TAP	2.0	0.8	1		0	5.0	100n	3.0n	3.0n		0.7	0	7	1	J01-11a	MD33	
102	DL1913	TTL	TAP	2.0	0.8	1		0	5.0	150n	4.0n	4.0n		0.7	0	7	1	J01-11a	MD33	
103	DL1914	TTL	TAP	2.0	0.8	1		0	5.0	200n	4.0n	4.0n		0.7	0	7	1	J01-11a	MD33	
104	DL1915	TTL	TAP	2.0	0.8	1		0	5.0	250n	4.0n	4.0n		0.7	0	7	1	J01-11a	MD33	
105	DL1916	TTL	TAP	2.0	0.8	1		0	5.0	100n	3.0n			0.7	0	7	1	J02-8c	MD37	
106	DL1917	TTL	TAP	2.0	0.8	1		0	5.0	150n	4.0n			0.7	0	7	1	J02-8c	MD37	
107	DL1918	TTL	TAP	2.0	0.8	1		0	5.0	200n	4.0n			0.7	0	7	1	J02-8c	MD37	
108	DL1919	TTL	TAP	2.0	0.8	1		0	5.0	250n	4.0n			0.7	0	7	1	J02-8c	MD37	
109	DL1920	TTL	TAP	2.0	0.8	1		0	5.0	500n	4.0n			0.7	0	7	1	J02-8c	MD37	
110	DL2060	TTL	TAP	2.0	0.8	1		0	5.0	300n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33	

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] TYPE DELAY	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1	DL2061	TTL	TAP	2.0	0.8	1		0	5.0	400n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
2	DL2080	TTL	TAP	2.0	0.8	1	20	0	5.0	30n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
3	DL2081	TTL	TAP	2.0	0.8	1	20	0	5.0	35n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
4	DL2082	TTL	TAP	2.0	0.8	1	20	0	5.0	40n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
5	DL2083	TTL	TAP	2.0	0.8	1	20	0	5.0	45n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
6	DL2084	TTL	TAP	2.0	0.8	1	20	0	5.0	75n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
7	DL2085	TTL	TAP	2.0	0.8	1		0	5.0	10n	3.0n			0.7	0	7	1	J01-12	MD38
8	DL2086	TTL	TAP	2.0	0.8	1		0	5.0	20n	3.0n			0.7	0	7	1	J01-12	MD38
9	DL2087	TTL	TAP	2.0	0.8	1		0	5.0	30n	3.0n			0.7	0	7	1	J01-12	MD38
10	DL2088	TTL	TAP	2.0	0.8	1		0	5.0	40n	3.0n			0.7	0	7	1	J01-12	MD38
11	DL2089	TTL	TAP	2.0	0.8	1		0	5.0	50n	3.0n			0.7	0	7	1	J01-12	MD38
12	DL2090	TTL	TAP	2.0	0.8	1		0	5.0	60n	3.0n			0.7	0	7	1	J01-12	MD38
13	DL2091	TTL	TAP	2.0	0.8	1		0	5.0	80n	3.0n			0.7	0	7	1	J01-12	MD38
14	DL2092	TTL	TAP	2.0	0.8	1		0	5.0	100n	3.0n			0.7	0	7	1	J01-12	MD38
15	DL2093	TTL	TAP	2.0	0.8	1		0	5.0	150n	4.0n			0.7	0	7	1	J01-12	MD38
16	DL2094	TTL	TAP	2.0	0.8	1		0	5.0	200n	4.0n			0.7	0	7	1	J01-12	MD38
17	DL2095	TTL	TAP	2.0	0.8	1		0	5.0	300n	4.0n			0.7	0	7	1	J01-12	MD38
18	DL2096	TTL	TAP	2.0	0.8	1		0	5.0	400n	4.0n			0.7	0	7	1	J01-12	MD38
19	DL2097	TTL	TAP	2.0	0.8	1		0	5.0	500n	4.0n			0.7	0	7	1	J01-12	MD38
20	DL2098	TTL	TAP	2.0	0.8	1		0	5.0	20n	3.0n			0.7	0	7	1	J01-13	MD38
21	DL2099	TTL	TAP	2.0	0.8	1		0	5.0	40n	3.0n			0.7	0	7	1	J01-13	MD38
22	DL2100	TTL	TAP	2.0	0.8	1		0	5.0	50n	3.0n			0.7	0	7	1	J01-13	MD38
23	DL2101	TTL	TAP	2.0	0.8	1		0	5.0	60n	3.0n			0.7	0	7	1	J01-13	MD38
24	DL2102	TTL	TAP	2.0	0.8	1		0	5.0	80n	3.0n			0.7	0	7	1	J01-13	MD38
25	DL2103	TTL	TAP	2.0	0.8	1		0	5.0	100n	3.0n			0.7	0	7	1	J01-13	MD38
26	DL2104	TTL	TAP	2.0	0.8	1		0	5.0	150n	4.0n			0.7	0	7	1	J01-13	MD38
27	DL2105	TTL	TAP	2.0	0.8	1		0	5.0	200n	4.0n			0.7	0	7	1	J01-13	MD38
28	DL2106	TTL	TAP	2.0	0.8	1		0	5.0	300n	4.0n			0.7	0	7	1	J01-13	MD38
29	DL2107	TTL	TAP	2.0	0.8	1		0	5.0	400n	4.0n			0.7	0	7	1	J01-13	MD38
30	DL2108	TTL	TAP	2.0	0.8	1		0	5.0	500n	4.0n			0.7	0	7	1	J01-13	MD38
31	DL2171	TTL	TAP	2.0	0.8	1	20	0	5.0	60n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
32	DL2181	TTL	TAP	2.0	0.8	1		0	5.0	50n	3.0n			0.7	0	7	1	J02-8a	MD35
33	DL2182	TTL	TAP	2.0	0.8	1		0	5.0	100n	3.0n			0.7	0	7	1	J02-8a	MD35
34	DL2183	TTL	TAP	2.0	0.8	1		0	5.0	150n	4.0n			0.7	0	7	1	J02-8a	MD35
35	DL2184	TTL	TAP	2.0	0.8	1		0	5.0	200n	4.0n			0.7	0	7	1	J02-8a	MD35
36	DL2185	TTL	TAP	2.0	0.8	1		0	5.0	250n	4.0n			0.7	0	7	1	J02-8a	MD35
37	DL2186	TTL	TAP	2.0	0.8	1		0	5.0	300n	4.0n			0.7	0	7	1	J02-8a	MD35
38	DL2187	TTL	TAP	2.0	0.8	1		0	5.0	350n	4.0n			0.7	0	7	1	J02-8a	MD35
39	DL2188	TTL	TAP	2.0	0.8	1		0	5.0	400n	4.0n			0.7	0	7	1	J02-8a	MD35
40	DL2189	TTL	TAP	2.0	0.8	1		0	5.0	500n	4.0n			0.7	0	7	1	J02-8a	MD35
41	DL2314	TTL	TAP	2.0	0.8	1		0	5.0	1.0u	4.0n			0.7	0	7	1	J02-8a	MD35
42	DL2333	TTL	TAP	2.0	0.8	1	20	0	5.0	125n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
43	DL2334	TTL	TAP	2.0	0.8	1		0	5.0	350n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
44	DL2335	TTL	TAP	2.0	0.8	1		0	5.0	450n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
45	DL2336	TTL	TAP	2.0	0.8	1		0	5.0	600n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
46	DL2337	TTL	TAP	2.0	0.8	1		0	5.0	700n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
47	DL2338	TTL	TAP	2.0	0.8	1		0	5.0	800n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
48	DL2339	TTL	TAP	2.0	0.8	1		0	5.0	900n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
49	DL2340	TTL	TAP	2.0	0.8	1		0	5.0	1.0u	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
50	DL2427	TTL	TAP	2.0	0.8	1	20	0	5.0	80n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
51	DL2437	TTL	TAP	2.0	0.8	1		0	5.0	225n	2.0n	2.0n		0.7	0	7	1	J01-116	MD33
52	DL2495	TTL	TAP	2.0	0.8	1		0	5.0	750n	4.0n			0.7	0	7	1	J02-8a	MD35
53	HTTLDL025	TTL	TAP	2.0	0.8	1	10	0	5.0	25n	2n			0.3	0	7	1	J01-17	MD42
54	HTTLDL050	TTL	TAP	2.0	0.8	1	10	0	5.0	50n	2n			0.3	0	7	1	J01-17	MD42
55	HTTLDL075	TTL	TAP	2.0	0.8	1	10	0	5.0	75n	2n			0.3	0	7	1	J01-17	MD42
56	HTTLDL100	TTL	TAP	2.0	0.8	1	10	0	5.0	100n	2n			0.3	0	7	1	J01-17	MD42
57	HTTLDL125	TTL	TAP	2.0	0.8	1	10	0	5.0	125n	2n			0.3	0	7	1	J01-17	MD42
58	HTTLDL150	TTL	TAP	2.0	0.8	1	10	0	5.0	150n	2n			0.3	0	7	1	J01-17	MD42
59	HTTLDL200	TTL	TAP	2.0	0.8	1	10	0	5.0	200n	2n			0.3	0	7	1	J01-17	MD42
60	HTTLDL250	TTL	TAP	2.0	0.8	1	10	0	5.0	250n	2n			0.3	0	7	1	J01-17	MD42
61	HTTLDL500	TTL	TAP	2.0	0.8	1	10	0	5.0	500n	2n			0.3	0	7	1	J01-17	MD42
62	HY5001-025M(1)	TTL	TAP	2.0	0.8	1	20		5.0	25n	4.0n			0.3	5	C	1	J01-49	MD14I
63	HY5001-025R	TTL	TAP	2.0	0.8	1	20		5.0	25n	4.0n			0.3	0	7	1	J01-49	MD14I
64	HY5001-030M(1)	TTL	TAP	2.0	0.8	1	20		5.0	30n	4.0n			0.3	5	C	1	J01-49	MD14I
65	HY5001-030R	TTL	TAP	2.0	0.8	1	20		5.0	30n	4.0n			0.3	0	7	1	J01-49	MD14I
66	HY5001-035M(1)	TTL	TAP	2.0	0.8	1	20		5.0	35n	4.0n			0.3	5	C	1	J01-49	MD14I
67	HY5001-035R	TTL	TAP	2.0	0.8	1	20		5.0	35n	4.0n			0.3	0	7	1	J01-49	MD14I
68	HY5001-040M(1)	TTL	TAP	2.0	0.8	1	20		5.0	40n	4.0n			0.3	5	C	1	J01-49	MD14I
69	HY5001-040R	TTL	TAP	2.0	0.8	1	20		5.0	40n	4.0n			0.3	0	7	1	J01-49	MD14I
70	HY5001-045M(1)	TTL	TAP	2.0	0.8	1	20		5.0	45n	4.0n			0.3	5	C	1	J01-49	MD14I
71	HY5001-045R	TTL	TAP	2.0	0.8	1	20		5.0	45n	4.0n			0.3	0	7	1	J01-49	MD14I
72	HY5001-050M(1)	TTL	TAP	2.0	0.8	1	20		5.0	50n	4.0n			0.3	5	C	1	J01-49	MD14I
73	HY5001-050R	TTL	TAP	2.0	0.8	1	20		5.0	50n	4.0n			0.3	0	7	1	J01-49	MD14I
74	HY5001-075M(1)	TTL	TAP	2.0	0.8	1	20		5.0	75n	4.0n			0.3	5	C	1	J01-49	MD14I
75	HY5001-075R	TTL	TAP	2.0	0.8	1	20		5.0	75n	4.0n			0.3	0	7	1	J01-49	MD14I
76	HY5001-100M(1)	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3	5	C	1	J01-49	MD14I
77	HY5001-100R	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3	0	7	1	J01-49	MD14I
78	HY5001-150M(1)	TTL	TAP	2.0	0.8	1	20		5.0	150n	4.0n			0.3	5	C	1	J01-49	MD14I
79	HY5001-150R	TTL	TAP	2.0	0.8	1	20		5.0	150n	4.0n			0.3	0	7	1	J01-49	MD14I
80	HY5001-200M(1)	TTL	TAP	2.0	0.8	1	20		5.0	200n	4.0n			0.3	5	C	1	J01-49	MD14I
81	HY5001-200R	TTL	TAP	2.0	0.8	1	20		5.0	200n	4.0n			0.3	0	7	1	J01-49	MD14I
82	HY5001-250M(1)	TTL	TAP	2.0	0.8	1	20		5.0	250n	4.0n			0.3	5	C	1	J01-49	MD14I
83	HY5001-250R	TTL	TAP	2.0	0.8	1	20		5.0	250n	4.0n			0.3	0	7	1	J01-49	MD14I
84	HY5001-500M	TTL	TAP	2.0	0.8	1	20		5.0	500n	4.0n			0.3	5	C	1	J01-49	MD14I
85	HY5001-500R	TTL	TAP	2.0	0.8	1	20		5.0	500n	4.0n			0.3	0	7	1	J01-49	MD14I
86	HY5010-050M(1)	TTL	TAP	2.0	0.8	1	20		5.0	050n	4.0n			0.3	5	C	1	J01-50	MD14I
87	HY5010-050R	TTL	TAP	2.0	0.8	1	20		5.0	50n	4.0n			0.3	0	7	1	J01-50	MD14I
88	HY5010-100M(1)	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3	5	C	1	J01-50	MD14I
89	HY5010-100R	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3	0	7	1	J01-50	MD14I
90	HY5010-150M(1)	TTL	TAP	2.0	0.8	1	20		5.0	150n	4.0n			0.3	5	C	1	J01-50	MD14I
91	HY5010-150R	TTL	TAP	2.0	0.8	1	20		5.0	150n	4.0n			0.3	0	7	1	J01-50	MD14I
92	HY5010-200M(1)	TTL	TAP	2.0	0.8	1	20		5.0	200n	4.0n			0.3	5	C	1	J01-50	MD14I
93	HY5010-200R	TTL	TAP	2.0	0.8	1	20		5.0	200n	4.0n			0.3	0	7	1	J01-50	MD14I
94	HY5010-250M(1)	TTL	TAP	2.0	0.8	1	20		5.0	250n	4.0n			0.3	5	C	1	J01-50	MD14I
95	HY5010-250R	TTL	TAP	2.0	0.8	1	20		5.0	250n	4.0n			0.3	0	7	1	J01-50	MD14I
96	HY5010-500M	TTL	TAP	2.0	0.8	1	20		5.0	500n	4.0n			0.3	5	C	1	J01-50	MD14I
97	HY5010-500R	TTL	TAP	2.0	0.8	1	20		5.0	500n	4.0n			0.3	0	7	1	J01-50	MD14I
98	SM0025	TTL	TAP	2.0	0.8	1	20	0	5.0	25n	2.0n	2.0n		0.7	0	7	1	J01-11	MD32
99	SM0050	TTL	TAP	2.0	0.8	1	20	0	5.0	50n	2.0n	2.0n		0.7	0	7	1	J01-11	MD32
100	SM0060	TTL	TAP	2.0	0.8	1	20	0	5.0	60n	2.0n	2.0n		0.7	0	7	1	J01-11	MD32
101	SM0075	TTL	TAP	2.0	0.8	1	20	0	5.0	75n	2.0n	2.0n		0.7	0	7	1	J01-11	MD32
102	SM0100	TTL	TAP	2.0	0.8	1	20	0	5.0	100n	2.0n	2.0n		0.7	0	7	1	J01-11	MD32
103	SM0125	TTL	TAP	2.0	0.8	1	20	0	5.0	125n	2.0n	2.0n		0.7	0	7	1	J01-11	MD32
104	SM0150	TTL	TAP	2.0	0.8	1	20	0	5.0	150n	2.0n	2.0n		0.7	0	7	1	J01-11	MD32
105	SM0200	TTL	TAP	2.0	0.8	1	20	0	5.0	200n	2.0n	2.0n		0.7	0	7	1	J01-11	MD32
106	SM0250	TTL	TAP	2.0	0.8	1	20	0	5.0	250n	2.0n	2.0n		0.7	0	7	1	J01-11	MD32
107	SMD99-5012	TTL	TAP			1		0	5.0	12n	4.0n		375m		0	7	1	J02-1	LC46
108	SMD99-5016	TTL	TAP			1		0	5.0	16n	4.0n		375m		0	7	1	J02-1	LC46
109	SMD99-5020	TTL	TAP			1		0	5.0	20n	4.0n		375m		0	7	1	J02-1	LC46
110	SMD99-5030	TTL	TAP			1		0	5.0	30n	4.0n		375m		0	7	1	J02-1	LC46

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] TYPE DELAY	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1	SMD99-5035	TTL	TAP			1		0	5.0	35n	4.0n		375m		0	7	1	J02-1	LC46
2	SMD99-5040	TTL	TAP			1		0	5.0	40n	4.0n		375m		0	7	1	J02-1	LC46
3	SMD99-5045	TTL	TAP			1		0	5.0	45n	4.0n		375m		0	7	1	J02-1	LC46
4	SMD99-5050	TTL	TAP			1		0	5.0	50n	4.0n		375m		0	7	1	J02-1	LC46
5	SMD99-5060	TTL	TAP			1		0	5.0	60n	4.0n		375m		0	7	1	J02-1	LC46
6	SMD99-5075	TTL	TAP			1		0	5.0	75n	4.0n		375m		0	7	1	J02-1	LC46
7	SMD99-5100	TTL	TAP			1		0	5.0	100n	4.0n		375m		0	7	1	J02-1	LC46
8	SMD99-5125	TTL	TAP			1		0	5.0	125n	4.0n		375m		0	7	1	J02-1	LC46
9	SMD99-5150	TTL	TAP			1		0	5.0	150n	4.0n		375m		0	7	1	J02-1	LC46
10	SMD99-5175	TTL	TAP			1		0	5.0	175n	4.0n		375m		0	7	1	J02-1	LC46
11	SMD99-5200	TTL	TAP			1		0	5.0	200n	4.0n		375m		0	7	1	J02-1	LC46
12	SMD99-5250	TTL	TAP			1		0	5.0	250n	4.0n		375m		0	7	1	J02-1	LC46
13	SMD99F5004	TTL	TAP	2.0	0.8	1			5.0	4.0n	2.0n				0	7	1	J02-1	LC46
14	SMD99F5006	TTL	TAP	2.0	0.8	1			5.0	6.0n	2.0n				0	7	1	J02-1	LC46
15	SMD99F5008	TTL	TAP	2.0	0.8	1			5.0	8.0n	2.0n				0	7	1	J02-1	LC46
16	SMD99F5010	TTL	TAP	2.0	0.8	1			5.0	10n	2.0n				0	7	1	J02-1	LC46
17	SMD99F5012	TTL	TAP	2.0	0.8	1			5.0	12n	2.0n				0	7	1	J02-1	LC46
18	SMD99F5016	TTL	TAP	2.0	0.8	1			5.0	16n	2.0n				0	7	1	J02-1	LC46
19	SMD99F5020	TTL	TAP	2.0	0.8	1			5.0	20n	2.0n				0	7	1	J02-1	LC46
20	SMD99F5025	TTL	TAP	2.0	0.8	1			5.0	25n	2.0n				0	7	1	J02-1	LC46
21	SMD99F5030	TTL	TAP	2.0	0.8	1			5.0	30n	2.0n				0	7	1	J02-1	LC46
22	SMD99F5035	TTL	TAP	2.0	0.8	1			5.0	35n	2.0n				0	7	1	J02-1	LC46
23	SMD99F5040	TTL	TAP	2.0	0.8	1			5.0	40n	2.0n				0	7	1	J02-1	LC46
24	SMD99F5045	TTL	TAP	2.0	0.8	1			5.0	45n	2.0n				0	7	1	J02-1	LC46
25	SMD99F5050	TTL	TAP	2.0	0.8	1			5.0	50n	2.0n				0	7	1	J02-1	LC46
26	SMD99F5060	TTL	TAP	2.0	0.8	1			5.0	60n	2.0n				0	7	1	J02-1	LC46
27	SMD99F5075	TTL	TAP	2.0	0.8	1			5.0	75n	2.0n				0	7	1	J02-1	LC46
28▼	SMD99F5100	TTL	TAP	2.0	0.8	1			5.0	100n	2.0n				0	7	1	J02-1	LC46
29▼	SMD99F5125	TTL	TAP	2.0	0.8	1			5.0	125n	2.0n				0	7	1	J02-1	LC46
30▼	SMD99F5150	TTL	TAP	2.0	0.8	1			5.0	150n	2.0n				0	7	1	J02-1	LC46
31▼	SMD99F5175	TTL	TAP	2.0	0.8	1			5.0	175n	2.0n				0	7	1	J02-1	LC46
32▼	SMD99F5200	TTL	TAP	2.0	0.8	1			5.0	200n	2.0n				0	7	1	J02-1	LC46
33▼	SMD99F5250	TTL	TAP	2.0	0.8	1			5.0	250n	2.0n				0	7	1	J02-1	LC46
34	SMD99F50100	TTL	TAP	2.0	0.8	1			5.0	100n	2.0n				0	7	1	J02-1	LC46
35	SMD99F50125	TTL	TAP	2.0	0.8	1			5.0	125n	2.0n				0	7	1	J02-1	LC46
36	SMD99F50150	TTL	TAP	2.0	0.8	1			5.0	150n	2.0n				0	7	1	J02-1	LC46
37	SMD99F50175	TTL	TAP	2.0	0.8	1			5.0	175n	2.0n				0	7	1	J02-1	LC46
38	SMD99F50200	TTL	TAP	2.0	0.8	1			5.0	200n	2.0n				0	7	1	J02-1	LC46
39	SMD99F50250	TTL	TAP	2.0	0.8	1			5.0	250n	2.0n				0	7	1	J02-1	LC46
40	STTLDL025	TTL	TAP	2.0	0.8	1	10	0	5.0	25n	2n			0.3	0	7	1	J01-19	MD44
41	STTLDL025M	TTL	TAP	2.0	0.8	1	10	0	5.0	25n	2n			0.3	5	C	1	J01-19	MD44
42	STTLDL050	TTL	TAP	2.0	0.8	1	10	0	5.0	50n	2n			0.3	0	7	1	J01-19	MD44
43	STTLDL050M	TTL	TAP	2.0	0.8	1	10	0	5.0	50n	2n			0.3	5	C	1	J01-19	MD44
44	STTLDL075	TTL	TAP	2.0	0.8	1	10	0	5.0	75n	2n			0.3	0	7	1	J01-19	MD44
45	STTLDL075M	TTL	TAP	2.0	0.8	1	10	0	5.0	75n	2n			0.3	5	C	1	J01-19	MD44
46	STTLDL100	TTL	TAP	2.0	0.8	1	10	0	5.0	100n	2n			0.3	0	7	1	J01-19	MD44
47	STTLDL100M	TTL	TAP	2.0	0.8	1	10	0	5.0	100n	2n			0.3	5	C	1	J01-19	MD44
48	STTLDL125	TTL	TAP	2.0	0.8	1	10	0	5.0	125n	2n			0.3	0	7	1	J01-19	MD44
49	STTLDL125M	TTL	TAP	2.0	0.8	1	10	0	5.0	125n	2n			0.3	5	C	1	J01-19	MD44
50	STTLDL150	TTL	TAP	2.0	0.8	1	10	0	5.0	150n	2n			0.3	0	7	1	J01-19	MD44
51	STTLDL150M	TTL	TAP	2.0	0.8	1	10	0	5.0	150n	2n			0.3	5	C	1	J01-19	MD44
52	STTLDL200	TTL	TAP	2.0	0.8	1	10	0	5.0	200n	2n			0.3	0	7	1	J01-19	MD44
53	STTLDL200M	TTL	TAP	2.0	0.8	1	10	0	5.0	200n	2n			0.3	5	C	1	J01-19	MD44
54	STTLDL250	TTL	TAP	2.0	0.8	1	10	0	5.0	250n	2n			0.3	0	7	1	J01-19	MD44
55	STTLDL250M	TTL	TAP	2.0	0.8	1	10	0	5.0	250n	2n			0.3	5	C	1	J01-19	MD44
56	STTLDL500	TTL	TAP	2.0	0.8	1	10	0	5.0	500n	2n			0.3	0	7	1	J01-19	MD44
57	STTLDL500M	TTL	TAP	2.0	0.8	1	10	0	5.0	500n	2.0n			0.3	5	C	1	J01-19	MD44
58	TTLDL020	TTL	TAP	2.0	0.8	1	10	0	5.0	20n	2n			0.3	0	7	1	J01-18	MD43
59	TTLDL020M	TTL	TAP	2.0	0.8	1	10	0	5.0	20n	2n			0.3	5	C	1	J01-18	MD43
60	TTLDL025	TTL	TAP	2.0	0.8	1	10	0	5.0	25n	2n			0.3	0	7	1	J01-18	MD43
61	TTLDL025M	TTL	TAP	2.0	0.8	1	10	0	5.0	25n	2n			0.3	5	C	1	J01-18	MD43
62	TTLDL050	TTL	TAP	2.0	0.8	1	10	0	5.0	50n	2n			0.3	0	7	1	J01-18	MD43
63	TTLDL050M	TTL	TAP	2.0	0.8	1	10	0	5.0	50n	2n			0.3	5	C	1	J01-18	MD43
64	TTLDL075	TTL	TAP	2.0	0.8	1	10	0	5.0	75n	2n			0.3	0	7	1	J01-18	MD43
65	TTLDL075M	TTL	TAP	2.0	0.8	1	10	0	5.0	75n	2n			0.3	5	C	1	J01-18	MD43
66	TTLDL100	TTL	TAP	2.0	0.8	1	10	0	5.0	100n	2n			0.3	0	7	1	J01-18	MD43
67	TTLDL100M	TTL	TAP	2.0	0.8	1	10	0	5.0	100n	2n			0.3	5	C	1	J01-18	MD43
68	TTLDL125	TTL	TAP	2.0	0.8	1	10	0	5.0	125n	2n			0.3	0	7	1	J01-18	MD43
69	TTLDL125M	TTL	TAP	2.0	0.8	1	10	0	5.0	125n	2n			0.3	5	C	1	J01-18	MD43
70	TTLDL150	TTL	TAP	2.0	0.8	1	10	0	5.0	150n	2n			0.3	0	7	1	J01-18	MD43
71	TTLDL150M	TTL	TAP	2.0	0.8	1	10	0	5.0	150n	2n			0.3	5	C	1	J01-18	MD43
72	TTLDL200	TTL	TAP	2.0	0.8	1	10	0	5.0	200n	2n			0.3	0	7	1	J01-18	MD43
73	TTLDL200M	TTL	TAP	2.0	0.8	1	10	0	5.0	200n	2n			0.3	5	C	1	J01-18	MD43
74	TTLDL250	TTL	TAP	2.0	0.8	1	10	0	5.0	250n	2n			0.3	0	7	1	J01-18	MD43
75	TTLDL250M	TTL	TAP	2.0	0.8	1	10	0	5.0	250n	2n			0.3	5	C	1	J01-18	MD43
76	TTLDL500	TTL	TAP	2.0	0.8	1	10	0	5.0	500n	2n			0.3	0	7	1	J01-18	MD43
77	TTLDL500M	TTL	TAP	2.0	0.8	1	10	0	5.0	500n	2n			0.3	5	C	1	J01-18	MD43
78	35A5200	TTL	TAP	3.2		1		0	5.0	20n	4.0n		450m		0	7	3	J02-1	MD29
79	35A5250	TTL	TAP	3.2		1		0	5.0		4.0n		450m		0	7	3	J02-1	MD29
80	35A5300	TTL	TAP	3.2		1		0	5.0		4.0n		450m		0	7	3	J02-1	MD29
81	21781	TTL	TAP	5.5Δ	0*	1	20	0	7.0	53n	4.0n				0	7	3	J01-8	MD14E
82	21782	TTL	TAP	5.5Δ	0*	1	20	0	7.0	79n	4.0n				0	7	3	J01-8	MD14E
83	21783	TTL	TAP	5.5Δ	0*	1	20	0	7.0	105n	4.0n				0	7	3	J01-8	MD14E
84	21784	TTL	TAP	5.5Δ	0*	1	20	0	7.0	131n	4.0n				0	7	3	J01-8	MD14E
85	21785	TTL	TAP	5.5Δ	0*	1	20	0	7.0	158n	4.0n				0	7	3	J01-8	MD14E
86	21786	TTL	TAP	5.5Δ	0*	1	20	0	7.0	210n	4.0n				0	7	3	J01-8	MD14E
87	21787	TTL	TAP	5.5Δ	0*	1	20	0	7.0	263n	4.0n				0	7	3	J01-8	MD14E
88	21788	TTL	TAP	5.5Δ	0*	1	20	0	7.0	315n	4.0n				0	7	3	J01-8	MD14E
89	21789	TTL	TAP	5.5Δ	0*	1	20	0	7.0	368n	4.0n				0	7	3	J01-8	MD14E
90	21790	TTL	TAP	5.5Δ	0*	1	20	0	7.0	420n	4.0n				0	7	3	J01-8	MD14E
91	21791	TTL	TAP	5.5Δ	0*	1	20	0	7.0	525n	4.0n				0	7	3	J01-8	MD14E
92	DL2229	TTL	TAP	2.0	0.8	3		0	5.0	20n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
93	DL2230	TTL	TAP	2.0	0.8	3		0	5.0	50n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
94	DL2231	TTL	TAP	2.0	0.8	3		0	5.0	100n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
95	DL2245	TTL	TAP	2.0	0.8	3		0	5.0	212n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
96	DL2267	TTL	TAP	2.0	0.8	3		0	5.0	80n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
97	DL2288	TTL	TAP	2.0	0.8	3		0	5.0	30n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
98	DL2289	TTL	TAP	2.0	0.8	3		0	5.0	130n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
99	DL2325	TTL	TAP	2.0	0.8	3		0	5.0	65n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
100	DL2328	TTL	TAP	2.0	0.8	3		0	5.0	60n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
101	DL2349	TTL	TAP	2.0	0.8	3		0	5.0	200n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
102	DL2352	TTL	TAP	2.0	0.8	3		0	5.0	30n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
103	DL2353	TTL	TAP	2.0	0.8	3		0	5.0	40n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
104	DL2354	TTL	TAP	2.0	0.8	3		0	5.0	70n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
105	DL2355	TTL	TAP	2.0	0.8	3		0	5.0	80n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
106	DL2356	TTL	TAP	2.0	0.8	3		0	5.0	90n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
107	DL2357	TTL	TAP	2.0	0.8	3		0	5.0	5.0n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
108	DL2358	TTL	TAP	2.0	0.8	3		0	5.0	10n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
109	DL2359	TTL	TAP	2.0	0.8	3		0	5.0	125n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
110	DL2425	TTL	TAP	2.0	0.8	3		0	5.0	12n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Tapped Delay Line (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] TYPE DELAY	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1	DL2441	TTL	TAP	2.0	0.8	3		0	5.0	15n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
2	DL2442	TTL	TAP	2.0	0.8	3		0	5.0	75n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
3	DL2445	TTL	TAP	2.0	0.8	3		0	5.0	25n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
4	DL2451	TTL	TAP	2.0	0.8	3		0	5.0	175n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
5	DL2452	TTL	TAP	2.0	0.8	3		0	5.0	150n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
6	DL2454	TTL	TAP	2.0	0.8	3		0	5.0	45n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
7	DL2455	TTL	TAP	2.0	0.8	3		0	5.0	134n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
8	DL2457	TTL	TAP	2.0	0.8	3		0	5.0	25n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
9	DL2496	TTL	TAP	2.0	0.8	3		0	5.0	300n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
10	DL2497	TTL	TAP	2.0	0.8	3		0	5.0	25n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
11	DL2636	TTL	TAP	2.0	0.8	3		0	5.0	40n	2.0n	2.0n		0.7	0	7	3	J01-16	MD41
12♦	DS1000-100	CMS	TAP	2.0	0.8	1	10	0	5.0	100n					0	7	4	J01-35	DIP14a
13♦	DS1000-125	CMS	TAP	2.0	0.8	1	10	0	5.0	125n					0	7	4	J01-35	DIP14a
14▼	DS1000-150	CMS	TAP	2.0	0.8	1	10	0	5.0	150n					0	7	4	J01-35	DIP14a
15▼	DS1000-175	CMS	TAP	2.0	0.8	1	10	0	5.0	175n					0	7	4	J01-35	DIP14a
16▼	DS1000-200	CMS	TAP	2.0	0.8	1	10	0	5.0	200n					0	7	4	J01-35	DIP14a
17♦	DS1000-250	CMS	TAP	2.0	0.8	1	10	0	5.0	250n					0	7	4	J01-35	DIP14a
18♦	DS1000-500	CMS	TAP	2.0	0.8	1	10	0	5.0	500n					0	7	4	J01-35	DIP14a
19	51Z16A005	ECL	TAP	-0.9		1			-6.2	4n	2.0n		0.2 Q		3	8	5	J01-25	MD16B
20	51Z16A010	ECL	TAP	-0.9		1			-6.2	8n	2.0n		0.2 Q		3	8	5	J01-25	MD16B
21	51Z16A020	ECL	TAP	-0.9		1			-6.2	16n	2.0n		0.2 Q		3	8	5	J01-25	MD16B
22	51Z16A025	ECL	TAP	-0.9		1			-6.2	20n	2.0n		0.2 Q		3	8	5	J01-25	MD16B
23	51Z16A050	ECL	TAP	-0.9		1			-6.2	50n	2.0n		0.2 Q		3	8	5	J01-25	MD16B
24	51Z16A075	ECL	TAP	-0.9		1			-6.2	75n	2.0n		0.2 Q		3	8	5	J01-25	MD16B
25	51Z16A100	ECL	TAP	-0.9		1			-6.2	100n	2.0n		0.2 Q		3	8	5	J01-25	MD16B
26	51Z16A150	ECL	TAP	-0.9		1			-6.2	150n	2.0n		0.2 Q		3	8	5	J01-25	MD16B
27	51Z16A200	ECL	TAP	-0.9		1			-6.2	200n	2.0n		0.2 Q		3	8	5	J01-25	MD16B
28	51Z16A250	ECL	TAP	-0.9		1			-6.2	250n	2.0n		0.2 Q		3	8	5	J01-25	MD16B
29	51Z16A300	ECL	TAP	-0.9		1			-6.2	300n	2.0n		0.2 Q		3	8	5	J01-25	MD16B
30	51Z16A400	ECL	TAP	-0.9		1			-6.2	400n	2.0n		0.2 Q		3	8	5	J01-25	MD16B
31	51Z16A500	ECL	TAP	-0.9		1			-6.2	500n	2.0n		0.2 Q		3	8	5	J01-25	MD16B
32	61Z14A025	TTL	TAP	2.0	0.8	1	20	0	5.0	25n	4.0n			0.3	0	7	5	J01-1	MD14E
33	61Z14A030	TTL	TAP	2.0	0.8	1	20	0	5.0	30n	4.0n			0.3	0	7	5	J01-1	MD14E
34	61Z14A035	TTL	TAP	2.0	0.8	1	20	0	5.0	35n	4.0n			0.3	0	7	5	J01-1	MD14E
35	61Z14A040	TTL	TAP	2.0	0.8	1	20	0	5.0	40n	4.0n			0.3	0	7	5	J01-1	MD14E
36	61Z14A045	TTL	TAP	2.0	0.8	1	10	0	5.0	45n	4.0n				0	7	5	J01-1	MD14E
37	61Z14A050	TTL	TAP	2.0	0.8	1	20	0	5.0	50n	4.0n			0.3	0	7	5	J01-1	MD14E
38	61Z14A075	TTL	TAP	2.0	0.8	1	20	0	5.0	75n	4.0n			0.3	0	7	5	J01-1	MD14E
39	61Z14A100	TTL	TAP	2.0	0.8	1	20	0	5.0	100n	4.0n			0.3	0	7	5	J01-1	MD14E
40	61Z14A125	TTL	TAP	2.0	0.8	1	20		5.0	125n	4.0n			0.3	0	7	5	J01-1	MD14E
41	61Z14A150	TTL	TAP	2.0	0.8	1	20	0	5.0	150n	4.0n			0.3	0	7	5	J01-1	MD14E
42	61Z14A200	TTL	TAP	2.0	0.8	1	20	0	5.0	200n	4.0n			0.3	0	7	5	J01-1	MD14E
43	61Z14A250	TTL	TAP	2.0	0.8	1	20	0	5.0	250n	4.0n			0.3	0	7	5	J01-1	MD14E
44	61Z14A300	TTL	TAP	2.0	0.8	1	20	0	5.0	300n	4.0n			0.3	0	7	5	J01-1	MD14E
45	61Z14A400	TTL	TAP	2.0	0.8	1	20	0	5.0	400n	4.0n			0.3	0	7	5	J01-1	MD14E
46	61Z14A500	TTL	TAP	2.0	0.8	1	20	0	5.0	500n	4.0n			0.3	0	7	5	J01-1	MD14E
47	61Z16A025	TTL	TAP	2.0	0.8	1	20	0	5.0	25n	4.0n			0.3	0	7	5	J01-2	MD16A
48	61Z16A030	TTL	TAP	2.0	0.8	1	20	0	5.0	30n	4.0n			0.3	0	7	5	J01-2	MD16A
49	61Z16A035	TTL	TAP	2.0	0.8	1	20	0	5.0	35n	4.0n			0.3	0	7	5	J01-2	MD16A
50	61Z16A040	TTL	TAP	2.0	0.8	1	20	0	5.0	40n	4.0n			0.3	0	7	5	J01-2	MD16A
51	61Z16A045	TTL	TAP	2.0	0.8	1	20	0	5.0	45n	4.0n			0.3	0	7	5	J01-2	MD16A
52	61Z16A050	TTL	TAP	2.0	0.8	1	20	0	5.0	50n	4.0n			0.3	0	7	5	J01-2	MD16A
53	61Z16A075	TTL	TAP	2.0	0.8	1	20	0	5.0	75n	4.0n			0.3	0	7	5	J01-2	MD16A
54	61Z16A100	TTL	TAP	2.0	0.8	1	20	0	5.0	100n	4.0n			0.3	0	7	5	J01-2	MD16A
55	61Z16A150	TTL	TAP	2.0	0.8	1	20	0	5.0	150n	4.0n			0.3	0	7	5	J01-2	MD16A
56	61Z16A200	TTL	TAP	2.0	0.8	1	20	0	5.0	200n	4.0n			0.3	0	7	5	J01-2	MD16A
57	61Z16A250	TTL	TAP	2.0	0.8	1	10	0	5.0	250n	4.0n				0	7	5	J01-2	MD16A
58	61Z16A300	TTL	TAP	2.0	0.8	1	20	0	5.0	300n	4.0n			0.3	0	7	5	J01-2	MD16A
59	61Z16A400	TTL	TAP	2.0	0.8	1	20	0	5.0	400n	4.0n			0.3	0	7	5	J01-2	MD16A
60	61Z16A500	TTL	TAP	2.0	0.8	1	20	0	5.0	500n	4.0n			0.3	0	7	5	J01-2	MD16A
61	61Z16B125	TTL	TAP	2.0	0.8	1	20		5.0	125n	4.0n			0.3	0	7	5	J01-1	MD16A
62♦	65Z14A025	TTL	TAP	2.0	0.8	1	20		5.0	25n	4.0n			0.3	0	7	5	J01-28	DIP14a
63♦	65Z14A050	TTL	TAP	2.0	0.8	1	20		5.0	50n	4.0n			0.3	0	7	5	J01-28	DIP14a
64♦	65Z14A075	TTL	TAP	2.0	0.8	1	20		5.0	75n	4.0n			0.3	0	7	5	J01-28	DIP14a
65♦	65Z14A100	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3	0	7	5	J01-28	DIP14a
66♦	65Z14A125	TTL	TAP	2.0	0.8	1	20		5.0	125n	4.0n			0.3	0	7	5	J01-28	DIP14a
67♦	65Z14A150	TTL	TAP	2.0	0.8	1	20		5.0	150n	4.0n			0.3	0	7	5	J01-28	DIP14a
68♦	65Z14A200	TTL	TAP	2.0	0.8	1	20		5.0	200n	4.0n			0.3	0	7	5	J01-28	DIP14a
69♦	65Z16A025	TTL	TAP	2.0	0.8	1	20		5.0	25n	4.0n			0.3	0	7	5	J01-29	DIP16a
70♦	65Z16A050	TTL	TAP	2.0	0.8	1	20		5.0	50n	4.0n			0.3	0	7	5	J01-29	DIP16a
71♦	65Z16A075	TTL	TAP	2.0	0.8	1	20		5.0	75n	4.0n			0.3	0	7	5	J01-29	DIP16a
72♦	65Z16A100	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3	0	7	5	J01-29	DIP16a
73♦	65Z16A125	TTL	TAP	2.0	0.8	1	20		50	125n	4.0n			0.3	0	7	5	J01-29	DIP16a
74♦	65Z16A150	TTL	TAP	2.0	0.8	1	20			150n	4.0n			0.3	0	7	5	J01-29	DIP16a
75♦	65Z16A200	TTL	TAP	2.0	0.8	1	20			200n	4.0n			0.3	0	7	5	J01-29	DIP16a
76	61Z14B050	TTL	TAP	2.0	0.8	1	20		5.0	50n	4.0n			0.3	0	7	10	J01-26	MD14E
77	61Z14B100	TTL	TAP	2.0	0.8	1	20		5.0	100n	4.0n			0.3	0	7	10	J01-26	MD14E
78	61Z14B150	TTL	TAP	2.0	0.8	1	20		5.0	150n	4.0n			0.3	0	7	10	J01-26	MD14E
79	61Z14B200	TTL	TAP	2.0	0.8	1	20		5.0	200n	4.0n			0.3	0	7	10	J01-26	MD14E
80	61Z14B250	TTL	TAP	2.0	0.8	1	20		5.0	250n	4.0n			0.3	0	7	10	J01-26	MD14E
81	61Z14B300	TTL	TAP	2.0	0.8	1	20		5.0	300n	4.0n			0.3	0	7	10	J01-26	MD14E
82	61Z14B350	TTL	TAP	2.0	0.8	1	20		5.0	350n	4.0n			0.3	0	7	10	J01-26	MD14E
83	61Z14B400	TTL	TAP	2.0	0.8	1	20		5.0	400n	4.0n			0.3	0	7	10	J01-26	MD14E
84	61Z14B500	TTL	TAP	2.0	0.8	1	20		5.0	500n	4.0n			0.3	0	7	10	J01-26	MD14E
85	61Z14B750	TTL	TAP	2.0	0.8	1	20		5.0	750n	4.0n			0.3	0	7	10	J01-26	MD14E
86	61Z14B1000	TTL	TAP	2.0	0.8	1	20		5.0	1.0u	4.0n			0.3	0	7	10	J01-26	MD14E

PULSE GENERATOR, PROGRAMMABLE

90	PDU53-100	ECL	WID	1.17	1.5			4.5		100p					0	8		J02-31	MO015AA
91	PDU53-200	ECL	WID	1.17	1.5			4.5		200p					0	8		J02-20	MO015AB
92	PDU53-250	ECL	WID	1.17	1.5			4.5		250p					0	8		J02-20	MO015AB
93	PDU53-400	ECL	WID	1.17	1.5			4.5		400p					0	8		J02-20	MO015AB
94	PDU53-500	ECL	WID	1.17	1.5			4.5		500p					0	8		J02-20	MO015AB
95	PDU53-750	ECL	WID	1.17	1.5			4.5		750p					0	8		J02-20	MO015AB
96	PDU53-1000	ECL	WID	1.17	1.5			4.5		1.0n					0	8		J02-20	MO015AB
97	PDU53-1200	ECL	WID	1.17	1.5			4.5		1.2n					0	8		J02-20	MO015AB
98	PDU53-1500	ECL	WID	1.17	1.5			4.5		1.5n					0	8		J02-20	MO015AB
99	PDU53-2000	ECL	WID	1.17	1.5			4.5		2.0n					0	8		J02-20	MO015AB
100	PDU53-2500	ECL	WID	1.17	1.5			4.5		2.5n					0	8		J02-20	MO015AB
101	PDU53-3000	ECL	WID	1.17	1.5			4.5		3.0n					0	8		J02-20	MO015AB
102	PDU54-100	ECL	WID	1.17	1.5			4.5		100p					0	8		J02-32	MD14N
103	PDU54-200	ECL	WID	1.17	1.5			4.5		200p					0	8		J02-32	MD14N
104	PDU54-250	ECL	WID	1.17	1.5			4.5		250p					0	8		J02-32	MD14N
105	PDU54-400	ECL	WID	1.17	1.5			4.5		400p					0	8		J02-32	MD14N
106	PDU54-500	ECL	WID	1.17	1.5			4.5		500p					0	8		J02-32	MD14N
107	PDU54-1000	ECL	WID	1.17	1.5			4.5		1.0n					0	8		J02-31	MO015AA
108	PDU54-1200	ECL	WID	1.17	1.5			4.5		1.2n					0	8		J02-31	MO015AA
109	PDU54-1500	ECL	WID	1.17	1.5			4.5		1.5n					0	8		J02-31	MO015AA
110	PDU54-2000	ECL	WID	1.17	1.5			4.5		2.0n					0	8		J02-31	MO015AA

10. TIME DELAYS - Programmable Pulse Generator (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] DELAY TYPE	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1	PDU54-2500	ECL	WID	1.17	1.5			4.5		2.5n					0	8		J02-31	MO015AA	
2	PDU54-3000	ECL	WID	1.17	1.5			4.5		3.0n					0	8		J02-31	MO015AA	
3	PDU-54-750	ECL	WID	1.17	1.5			4.5		750p					0	8		J02-32	MD14N	
4	PWC10-5	TTL	WID			1	70		5.2	5.0n					3	8		J02-32	MD14N	
5	PWC10-6	TTL	WID			1	70		5.2	6.0n					3	8		J02-32	MD14N	
6	PWC10-7	TTL	WID			1	70		5.2	7.0n					3	8		J02-32	MD14N	
7	PWC10-8	TTL	WID			1	70		5.2	7.0n					3	8		J02-32	MD14N	
8	PWC10-9	TTL	WID			1	70		5.2	9.0n					3	8		J02-32	MD14N	
9	PWC10-10	TTL	WID			1	70		5.2	10n					3	8		J02-32	MD14N	
10	PWC10-15	TTL	WID			1	70		5.2	15n					3	8		J02-32	MD14N	
11	PWC10-20	TTL	WID			1	70		5.2	20n					3	8		J02-32	MD14N	
12	PWC10-25	TTL	WID			1	70		5.2	25n					3	8		J02-32	MD14N	
13	PWC10-30	TTL	WID			1	70		5.2	30n					3	8		J02-32	MD14N	
14	PWC10-35	TTL	WID			1	70		5.2	35n					3	8		J02-32	MD14N	
15	PWC10-40	TTL	WID			1	70		5.2	40n					3	8		J02-32	MD14N	
16	PWC10-45	TTL	WID			1	70		5.2	45n					3	8		J02-32	MD14N	
17	PWC10-50	TTL	WID			1	70		5.2	50n					3	8		J02-32	MD14N	
18	PWC10-60	TTL	WID			1	70		5.2	60n					3	8		J02-32	MD14N	
19	PWC10-70	TTL	WID			1	70		5.2	70n					3	8		J02-32	MD14N	
20	PWC10-75	TTL	WID			1	70		5.2	75n					3	8		J02-32	MD14N	
21	PWC10-80	TTL	WID			1	70		5.2	80n					3	8		J02-32	MD14N	
22	PWC10-90	TTL	WID			1	70		5.2	90n					3	8		J02-32	MD14N	
23	PWC10-100	TTL	WID			1	70		5.2	100n					3	8		J02-32	MD14N	
24	PWC30-5	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
25	PWC30-10	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
26	PWC30-15	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
27	PWC30-20	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
28	PWC30-30	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
29	PWC30-40	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
30	PWC30-50	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
31	PWC30-60	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
32	PWC30-75	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
33	PWC30-100	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
34	PWC30-125	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
35	PWC30-150	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
36	PWC30-175	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
37	PWC30-200	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
38	PWC30-250	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
39	PWC30-300	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
40	PWC30-350	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
41	PWC30-400	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
42	PWC30-500	TTL	WID			1	10		5.0		2.0n				0	7		J02-32	MD14N	
43	STI9172A	TTL	WID															J02-35	None	
44♦	ECLPWG5	ECL	WID	-.98		1	70	5.2		5.0	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
45♦	ECLPWG10	ECL	WID	-.98		1	70	5.2		10	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
46♦	ECLPWG15	ECL	WID	-.98		1	70	5.2		15	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
47♦	ECLPWG20	ECL	WID	-.98		1	70	5.2		20	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
48♦	ECLPWG25	ECL	WID	-.98		1	70	5.2		25	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
49♦	ECLPWG30	ECL	WID	-.98		1	70	5.2		30	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
50♦	ECLPWG35	ECL	WID	-.98		1	70	5.2		35	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
51♦	ECLPWG40	ECL	WID	-.98		1	70	5.2		40	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
52♦	ECLPWG45	ECL	WID	-.98		1	70	5.2		45	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
53♦	ECLPWG50	ECL	WID	-.98		1	70	5.2		50	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
54♦	ECLPWG60	ECL	WID	-.98		1	70	5.2		60	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
55♦	ECLPWG70	ECL	WID	-.98		1	70	5.2		70	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
56♦	ECLPWG80	ECL	WID	-.98		1	70	5.2		80	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
57♦	ECLPWG90	ECL	WID	-.98		1	70	5.2		90	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
58♦	ECLPWG100	ECL	WID	-.98		1	70	5.2		100	3.0n†	3.0n†			0	7	1	J01-48	DIP16d	
59	HY5700-005M	TTL	WID	2.0	0.8		20	0	5.0	5.0n	4.0n			0.3	5	C	1	J02-34	MD14I	
60	HY5700-005R	TTL	WID	2.0	0.8		20	0	5.0	5.0n	4.0n			0.3	0	7	1	J02-34	MD14I	
61	HY5700-010M	TTL	WID	2.0	0.8		20	0	5.0	10n	4.0n			0.3	5	C	1	J02-34	MD14I	
62	HY5700-010R	TTL	WID	2.0	0.8		20	0	5.0	10n	4.0n			0.3	0	7	1	J02-34	MD14I	
63	HY5700-015M	TTL	WID	2.0	0.8		20	0	5.0	15n	4.0n			0.3	5	C	1	J02-34	MD14I	
64	HY5700-015R	TTL	WID	2.0	0.8		20	0	5.0	15n	4.0n			0.3	0	7	1	J02-34	MD14I	
65	HY5700-020M	TTL	WID	2.0	0.8		20	0	5.0	20n	4.0n			0.3	5	C	1	J02-34	MD14I	
66	HY5700-020R	TTL	WID	2.0	0.8		20	0	5.0	20n	4.0n			0.3	0	7	1	J02-34	MD14I	
67	HY5700-025M	TTL	WID	2.0	0.8		20	0	5.0	25n	4.0n			0.3	5	C	1	J02-34	MD14I	
68	HY5700-025R	TTL	WID	2.0	0.8		20	0	5.0	25n	4.0n			0.3	0	7	1	J02-34	MD14I	
69	HY5700-030M	TTL	WID	2.0	0.8		20	0	5.0	30n	4.0n			0.3	5	C	1	J02-34	MD14I	
70	HY5700-030R	TTL	WID	2.0	0.8		20	0	5.0	30n	4.0n			0.3	0	7	1	J02-34	MD14I	
71♦	PPG33F1	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
72♦	PPG33F2	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
73♦	PPG33F3	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
74♦	PPG33F4	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
75♦	PPG33F5	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
76♦	PPG33F6	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
77♦	PPG33F7	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
78♦	PPG33F8	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
79♦	PPG33F9	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
80♦	PPG33F10	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
81♦	PPG33F15	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
82♦	PPG33F20	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
83♦	PPG33F40	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
84♦	PPG33F50	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
85♦	PPG33F.5	TTL	WID			1			5.0	7.0n†					0	7	1	J01-67a	DIP14	☑
86♦	PPG36F1	TTL	WID			1			5.0	7.0n					0	7	1	J01-67b	DIP24	☑
87♦	PPG36F2	TTL	WID			1			5.0	7.0n					0	7	1	J01-67b	DIP24	☑
88♦	PPG36F3	TTL	WID			1			5.0	7.0n					0	7	1	J01-67b	DIP24	☑
89♦	PPG36F4	TTL	WID			1			5.0	7.0n					0	7	1	J01-67b	DIP24	☑
90♦	PPG36F5	TTL	WID			1			5.0	7.0n					0	7	1	J01-67b	DIP24	☑
91♦	PPG36F6	TTL	WID			1			5.0	7.0n					0	7	1	J01-67b	DIP24	☑
92♦	PPG36F7	TTL	WID			1			5.0	7.0n					0	7	1	J01-67b	DIP24	☑
93♦	PPG36F8	TTL	WID			1			5.0	7.0n					0	7	1	J01-67b	DIP24	☑
94♦	PPG36F9	TTL	WID			1			5.0	7.0n					0	7	1	J01-67b	DIP24	☑
95♦	PPG36F10	TTL	WID			1			5.0	7.0n					0	7	1	J01-67b	DIP24	☑
96♦	PPG36F.5	TTL	WID			1			5.0	7.0n					0	7	1	J01-67b	DIP24	☑
97♦	PPG38-1	TTL	WID			1			5.0	12n			1.3 †		0	7	1	J01-66	DIP40a	
98♦	PPG38-2	TTL	WID			1			5.0	12n			1.3 †		0	7	1	J01-66	DIP40a	
99♦	PPG38-3	TTL	WID			1			5.0	12n			1.3 †		0	7	1	J01-66	DIP40a	
100♦	PPG38-4	TTL	WID			1			5.0	12n			1.3 †		0	7	1	J01-66	DIP40a	
101♦	PPG38-5	TTL	WID			1			5.0	12n			1.3 †		0	7	1	J01-66	DIP40a	
102♦	PPG38-6	TTL	WID			1			5.0	12n			1.3 †		0	7	1	J01-66	DIP40a	
103♦	PPG38-7	TTL	WID			1			5.0	12n			1.3 †		0	7	1	J01-66	DIP40a	
104♦	PPG38-8	TTL	WID			1			5.0	12n			1.3 †		0	7	1	J01-66	DIP40a	
105♦	PPG38-9	TTL	WID			1			5.0	12n			1.3 †		0	7	1	J01-66	DIP40a	
106♦	PPG38-10	TTL	WID			1			5.0	12n			1.3 †		0	7	1	J01-66	DIP40a	
107▼	PPG38-.5	TTL	WID			1			5.0	12n			1.3 †		0	7	1	J01-66	DIP40a	
108♦	PPG38F1	TTL	WID			1			5.0	7.0n					0	7	1	J01-67c	DIP40	☑
109♦	PPG38F2	TTL	WID			1			5.0	7.0n					0	7	1	J01-67c	DIP40	☑
110♦	PPG38F3	TTL	WID			1			5.0	7.0n					0	7	1	J01-67c	DIP40	☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. TIME DELAYS - Programmable Pulse Generator (Cont'd)

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] TYPE DELAY	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	PPG38F4	TTL	WID			1			5.0	7.0n					0	7	1	J01-67c	DIP40 ☑
2♦	PPG38F5	TTL	WID			1			5.0	7.0n					0	7	1	J01-67c	DIP40 ☑
3♦	PPG38F6	TTL	WID			1			5.0	7.0n					0	7	1	J01-67c	DIP40 ☑
4♦	PPG38F7	TTL	WID			1			5.0	7.0n					0	7	1	J01-67c	DIP40 ☑
5♦	PPG38F8	TTL	WID			1			5.0	7.0n					0	7	1	J01-67c	DIP40 ☑
6♦	PPG38F9	TTL	WID			1			5.0	7.0n					0	7	1	J01-67c	DIP40 ☑
7♦	PPG38F10	TTL	WID			1			5.0	7.0n					0	7	1	J01-67c	DIP40 ☑
8♦	PPG38F.5	TTL	WID			1			5.0	7.0n					0	7	1	J01-67c	DIP40 ☑
9♦	TTLPWG5	TTL	WID	2.0	0.8	1	8		5.0	5n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e
10♦	TTLPWG10	TTL	WID	2.0	0.8	1	8		5.0	10n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e
11♦	TTLPWG15	TTL	WID	2.0	0.8	1	8		5.0	15n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e
12♦	TTLPWG20	TTL	WID	2.0	0.8	1	8		5.0	20n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e
13♦	TTLPWG25	TTL	WID	2.0	0.8	1	8		5.0	25n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e
14♦	TTLPWG30	TTL	WID	2.0	0.8	1	8		5.0	30n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e
15♦	TTLPWG35	TTL	WID	2.0	0.8	1	8		5.0	35n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e
16♦	TTLPWG40	TTL	WID	2.0	0.8	1	8		5.0	40n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e
17♦	TTLPWG45	TTL	WID	2.0	0.8	1	8		5.0	45n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e
18♦	TTLPWG50	TTL	WID	2.0	0.8	1	8		5.0	50n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e
19♦	TTLPWG60	TTL	WID	2.0	0.8	1	8		5.0	60n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e
20♦	TTLPWG70	TTL	WID	2.0	0.8	1	8		5.0	70n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e
21♦	TTLPWG80	TTL	WID	2.0	0.8	1	8		5.0	80n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e
22♦	TTLPWG90	TTL	WID	2.0	0.8	1	8		5.0	90n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e
23♦	TTLPWG100	TTL	WID	2.0	0.8	1	8		5.0	100n	4.0n	4.0n		0.4	0	7	1	J01-41	DIP14e

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11. COUNTERS - Binary, Hexadecimal Output

IN ORDER OF: (1) MODULUS (2) CKTS/PKG (3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
COUNTER, BINARY HEXADECIMAL-OUTPUT																	
4▼	M54HC691F1	CMS	16	1				3.15	1.35			5.0		5	C	74LS691	DIP20c
5▼	M74HC691B1	CMS	16	1				3.15	1.35			5.0		4	8	74LS691	DIP20c
6▼	M74HC691C1	CMS	16	1				3.15	1.35			5.0		4	8	E03-107	LC19
7▼	M74HC691F1	CMS	16	1				3.15	1.35			5.0		4	8	74LS691	DIP20c
8♦	54LS161DM	TTL	16	1	UP		Yes	2.0	0.7	18n	300m	5.0	160mQ	5	C	74-161N	DIP16b
9♦	54LS161FM	TTL	16	1	UP		Yes	2.0	0.7	18n	300m	5.0	160mQ	5	C	54-161W	FP47b
10♦	54LS163DM	TTL	16	1	UP		Yes	2.0	0.7	18n	300m	5.0	160mQ	5	C	74-163N	DIP16b
11♦	54LS163FM	TTL	16	1	UP		Yes	2.0	0.7	18n	300m	5.0	160mQ	5	C	54LS163W	FP47b
12♦	74LS161DC	TTL	16	1	UP		Yes	2.0	0.8	18n	300m	5.0	160mQ	0	7	74-161N	DIP16b
13♦	74LS161PC	TTL	16	1	UP		Yes	2.0	0.8	18n	300m	5.0	160mQ	0	7	74-161N	DIP16a
14♦	74LS163DC	TTL	16	1	UP		Yes	2.0	0.8	18n	300m	5.0	160mQ	0	7	74-163N	DIP16b
15♦	74LS163PC	TTL	16	1	UP		Yes	2.0	0.8	18n	300m	5.0	160mQ	0	7	74-163N	DIP16a
16♦	9316PC	TTL	16	1	UP		Yes	2.0	0.8	50n		5.0	470mQ	0	7	74-161N	DIP16a
17♦	CD54HC93F(A)	CMS	16	1	UP		No	3.15	1.35		1.7	5.0	500m	5	C	74LS93	MO001AB
18♦	CD54HCT93F(A)	CMS	16	1	UP		No	2.0	0.8		2.4	5.0	500m	5	C	74LS93	MO001AB
19♦	CD74HC93E(A)	CMS	16	1	UP		No	3.15	1.35		1.7	5.0	500m	4	8	74LS93	MO001AB
20♦	CD74HC93M(A)	CMS	16	1	UP		No	3.15	1.35		1.7	5.0	300m	4	8	54LS93	FP147
21♦	CD74HCT93E(A)	CMS	16	1	UP		No	2.0	0.8		2.4	5.0	500m	4	8	74LS93	MO001AB
22♦	CD74HCT93M(A)	CMS	16	1	UP		No	2.0	0.8		2.4	5.0	300m	4	8	54LS93	FP147
23♦	DM54S197W		16	1	UP		Yes									54-177W	None
24♦	GXB10136	ECL	16	1	UP			-1.1	-1.4	2.0n		-5.2		0	7	E07-3	DIP16b
25▼	M54HC693F1	CMS	16	1	UP			3.15	1.35			5.0		5	C	74LS693	DIP20c
26▼	M74HC693B1	CMS	16	1	UP			3.15	1.35			5.0		4	8	74LS693	DIP20c
27▼	M74HC693C1	CMS	16	1	UP			3.15	1.35			5.0		4	8	E03-107	LC19
28▼	M74HC693F1	CMS	16	1	UP			3.15	1.35			5.0		4	8	74LS693	DIP20c
29♦	MC685L	DTL	16	1	UP	500k		12.5	1.50C			15	480mt	3	7	6-85P	DIP16b
30♦	MC685P	DTL	16	1	UP	500k		12.5	1.50C			15	480mt	3	7	6-85P	DIP16a
31♦	54177DM	TTL	16	1	UP	2.0M	Yes	2.0	0.8			5.0		5	C	74-177N	DIP14a
32♦	54177FM	TTL	16	1	UP	2.0M	Yes	2.0	0.8			5.0		5	C	54-177W	FP52
33♦	74177DC	TTL	16	1	UP	2.0M	Yes	2.0	0.8			5.0		0	7	74-177N	DIP14a
34♦	74177PC	TTL	16	1	UP	2.0M	Yes	2.0	0.8			5.0		0	7	74-177N	DIP14a
35♦	MM54C93D	CMS	16	1	UP	2.0M	No	3.5	1.5	1.2u	450mt	15	500m	5	C	74L93N	DIP14a
36♦	MM74C93N	CMS	16	1	UP	2.0M	No	3.5	1.5	1.2u	450mt	15	500m	4	8	74L93N	DIP14a
37♦	MSM5504	CMS	16	1	UP	2.0M		3.6	0.8	1.0u		5.0	250u	2	7	None	DIP16a
38♦	MSM5504RS	CMS	16	1	UP	2.0M		3.6	0.8	1.0u	0.6	5.0		3	8	E03-88	DIP16a
39♦	MSM5538	CMS	16	1	UP	2.0M	No	3.6	0.8	1.0u		5.0	250u	2	7	74LS93N	DIP14a
40♦	MM54C161D	CMS	16	1	UP	3.0M	Yes	3.5	1.5	290n	450mt	15	500m	5	C	74-161	DIP16b
41♦	MM54C163D	CMS	16	1	UP	3.0M	Yes	3.5	1.5	290n	450mt	15	500m	5	C	74-163	DIP16b
42♦	MM74C161N	CMS	16	1	UP	3.0M	Yes	3.5	1.5	290n	450mt	15	500m	0	7	74-161N	DIP16a
43♦	MM74C163N	CMS	16	1	UP	3.0M	Yes	3.5	1.5	290n	450mt	15	500m	0	7	74LS163N	DIP16a
44♦	SCL4161B	CMS	16	1	UP	3.0M	Yes	3.5Δ	1.0*	200n	3.0	15	100uQ	5	C	74-161N	DIP16a
45♦	SCL4163B	CMS	16	1	UP	3.0M	Yes	3.5Δ	1.0*	200n	3.0	15	100uQ	5	C	74-163N	DIP16a
46♦	SFC493LE	TTL	16	1	UP	3.0M	No	2.0	0.7	280n	1.0 †	5.0	16mt	0	7	74L93N	TO-116
47♦	SFC493LEM	TTL	16	1	UP	3.0M	No	2.0	0.7	280n	1.0 †	5.0	16mt	5	C	74L93N	TO-116
48♦	M40161BP	CMS	16	1	UP	3.5M	Yes	11.0	4.0	280n	4.0	15	0.5	4	8	74-161N	DIP16b
49♦	M40163BP	CMS	16	1	UP	3.5M	Yes	11.0	4.0	280n	4.0	15	0.5	4	8	74LS163N	DIP16b
50♦	TC40161BP	CMS	16	1	UP	3.5M	Yes	14.9	.05C	280n	4.0	15	300m	4	8	74-161N	DIP16a
51♦	TC40163BP	CMS	16	1	UP	3.5M	Yes	14.9	.05C	280n	4.0	15	300m	4	8	74-163N	DIP16a
52♦	MB84029B	CMS	16	1	UP	4.0M	Yes	10.5	4.5	280n	4.5 *	15	1.2mQ	4	8	40-29B	DIP16a
53♦	N8293F	TTL	16	1	UP	5.0M	Yes	2.6	0.4C	165n		5.0	65m	0	7	74-177N	DIP14a
54♦	N8293N	TTL	16	1	UP	5.0M	Yes	2.6	0.4C	165n		5.0	65m	0	7	74-177N	DIP14a
55♦	S8293F	TTL	16	1	UP	5.0M	Yes	2.6	0.4C	165n		5.0	65m	5	C	74-177N	DIP14b
56♦	S8293W	TTL	16	1	UP	5.0M		2.6	-0.4C	165n		5.0	65m	5	C	None	FP39e
57♦	CD40161BCJ	CMS	16	1	UP	7.0M	Yes	11	4.0	160n	6.7 †	15	1.2mQ	4	8	74-161N	DIP16a
58♦	CD40161BCN	CMS	16	1	UP	7.0M	Yes	11	4.0	160n	6.7 †	15	1.2mQ	4	8	74-161N	DIP16a
59♦	CD40161BMJ	CMS	16	1	UP	7.0M	Yes	11	4.0	160n	6.7 †	15	300uQ	5	C	74-161N	DIP16a
60♦	CD40161BMW	CMS	16	1	UP	7.0M	Yes	11	4.0	160n	6.7 †	15	300uQ	5	C	54-161W	FP88c
61♦	CD40163BCJ	CMS	16	1	UP	7.0M	Yes	11	4.0	160n	6.7 †	15	1.2mQ	4	8	74-163N	DIP16a
62♦	CD40163BCN	CMS	16	1	UP	7.0M	Yes	11	4.0	160n	6.7 †	15	1.2mQ	4	8	74-163N	DIP16a
63♦	CD40163BMJ	CMS	16	1	UP	7.0M	Yes	11	4.0	160n	6.7 †	15	300uQ	5	C	74-163N	DIP16a
64♦	CD40163BMW	CMS	16	1	UP	7.0M	Yes	11	4.0	160n	6.7 †	15	300uQ	5	C	54LS163W	FP88c
65♦	40161BDC	CMS	16	1	UP	8.0M	Yes	11	4.0	104n	6.7 †	15	9.0mQ	4	8	74-161N	DIP16a
66♦	40161BDM	CMS	16	1	UP	8.0M	Yes	11	4.0	104n	6.7 †	15	9.0mQ	5	C	74-161N	DIP16a
67♦	40161BFC	CMS	16	1	UP	8.0M	Yes	11	4.0	104n	6.7 †	15	9.0mQ	4	8	54-161W	FP103
68♦	40161BFM	CMS	16	1	UP	8.0M	Yes	11	4.0	104n	6.7 †	15	9.0mQ	5	C	54-161W	FP103
69♦	40161BPC	CMS	16	1	UP	8.0M	Yes	11	4.0	104n	6.7 †	15	9.0mQ	4	8	74-161N	DIP16 Ø
70♦	40163BDC	CMS	16	1	UP	8.0M	Yes	11	4.0	104n	6.7 †	15	9.0mQ	4	8	74-163N	DIP16a
71♦	40163BDM	CMS	16	1	UP	8.0M	Yes	11	4.0	104n	6.7 †	15	9.0mQ	5	C	74-163N	DIP16a
72♦	40163BFC	CMS	16	1	UP	8.0M	Yes	11	4.0	104n	6.7 †	15	9.0mQ	4	8	54LS163W	FP103
73♦	40163BFM	CMS	16	1	UP	8.0M	Yes	11	4.0	104n	6.7 †	15	9.0mQ	5	C	54LS163W	FP103
74♦	40163BPC	CMS	16	1	UP	8.0M	Yes	11	4.0	104n	6.7 †	15	9.0mQ	4	8	74-163N	DIP16 Ø
75♦	MC14161BAL	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		5	C	74-161N	DIP16a
76▼	MC14161BALD	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		5	C	74-161N	DIP16a
77▼	MC14161BALDS	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		5	C	74-161N	DIP16a
78▼	MC14161BALS	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		5	C	74-161N	DIP16a
79♦	MC14161BCL	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-161N	DIP16a
80▼	MC14161BCLD	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-161N	DIP16a
81▼	MC14161BCLDS	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-161N	DIP16a
82▼	MC14161BCLS	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-161N	DIP16a
83♦	MC14161BCP	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-161N	DIP16a
84▼	MC14161BCPD	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-161N	DIP16a
85▼	MC14161BCPDS	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-161N	DIP16a
86▼	MC14161BCPS	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-161N	DIP16a
87▼	MC14161BD	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-161N	DIP16a
88♦	MC14163BAL	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		5	C	74-163N	DIP16a
89▼	MC14163BALD	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		5	C	74-163N	DIP16a
90▼	MC14163BALDS	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		5	C	74-163N	DIP16a
91▼	MC14163BALS	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		5	C	74-163N	DIP16a
92♦	MC14163BCL	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-163N	DIP16a
93▼	MC14163BCLD	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-163N	DIP16a
94▼	MC14163BCLDS	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-163N	DIP16a
95▼	MC14163BCLS	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-163N	DIP16a
96♦	MC14163BCP	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-163N	DIP16a
97▼	MC14163BCPD	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-163N	DIP16a
98▼	MC14163BCPDS	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-163N	DIP16a
99▼	MC14163BCPS	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-163N	DIP16a
100▼	MC14163BD	CMS	16	1	UP	8.0M	Yes	11	4.0	250n	2.5 *	15		4	8	74-163N	DIP16a
101♦	CD40161BD	CMS	16	1	UP	8.5M	Yes	7.0	3.0	160n	2.9	20	500m	5	C	74-161N	MO001AE
102♦	CD40161BE	CMS	16	1	UP	8.5M	Yes	7.0	3.0	160n	2.9	20	500m	4	8	74-161N	MO001AC
103♦	CD40161BF	CMS	16	1	UP	8.5M	Yes	7.0	3.0	160n	2.9	20	500m	5	C	74-161N	MO001AG
104♦	CD40163BD	CMS	16	1	UP	8.5M	Yes	7.0	3.0	160n	2.9	20	500m	5	C	74-163N	MO001AE
105♦	CD40163BE	CMS	16	1	UP	8.5M	Yes	7.0	3.0	160n	2.9	20	500m	4	8	74-163N	MO001AC
106♦	CD40163BF	CMS	16	1	UP	8.5M	Yes	7.0	3.0	160n	2.9	20	500m	5	C	74-163N	MO001AG
107♦	571492JS	TTL	16	1	UP	10M	Yes	2.0	0.8		0.4	5.0		5	C	E01-190	DIP24
108♦	571492W	TTL	16	1	UP	10M	Yes	2.0	0.8		0.4	5.0		5	C	E01-190	FP24
109♦	57149228L	TTL	16	1	UP	10M	Yes	2.0	0.8	30n	0.4	5.0		5	C	E01-190	LC44
110♦	FJJ211-7493	TTL	16	1	UP	10M	No	2.0	0.8	135n	1.0 †	5.0	128mt	0	7	74LS93N	DIP14a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. COUNTERS - Binary, Hexadecimal Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG (3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODULUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	N7493F	TTL	16	1	UP	10M	No	2.0	0.8	135n	1.0 †	5.0	265m	0	7	74LS93N	DIP14b
2♦	N7493N	TTL	16	1	UP	10M	No	2.0	0.8	135n	0.4	5.0	265m	0	7	74LS93N	DIP14a
3♦	N8281F	TTL	16	1	UP	10M	Yes	2.6	0.4C	75n		5.0	225m	0	7	74-177N	DIP14b
4♦	N8281N	TTL	16	1	UP	10M	Yes	2.6	0.4C	75n		5.0	225m	0	7	74-177N	DIP14a
5♦	N8293Q	TTL	16	1	UP	10M	Yes	2.6	0.4C			5.0	69m	0	7	E02-48a	TO-88
6♦	S5493F	TTL	16	1	UP	10M	No	2.0	0.8	135n	0.4	5.0	230m	5	C	74LS93N	DIP14b
7♦	S5493W	TTL	16	1	UP	10M	No	2.0	0.8	135n	0.4	5.0	230m	5	C	54LS93	FP153
8♦	S8281F	TTL	16	1	UP	10M	Yes	2.6	0.4C	25n		5.0	225m	5	C	74-177N	DIP14b
9♦	S8281W	TTL	16	1	UP	10M	Yes	2.6	0.4C	75n		5.0	225m	5	C	54-177W	FP39e
10♦	DM75L54F	TTL	16	1	UP	11M		2.4	0.7	220n		5.0	38m†	5	C	75-54N	FP88b
11♦	DM75L54J	TTL	16	1	UP	11M		2.4	0.7	220n		5.0	38m†	5	C	75-54N	DIP16a
12♦	DM75L54N	TTL	16	1	UP	11M		2.4	0.7	220n		5.0	38m†	5	C	75-54N	DIP16a
13♦	DM75L54W	TTL	16	1	UP	11M		2.0	0.7	220n	0.4		38m	5	C	75-54N	FP98b
14♦	DM85L54F	TTL	16	1	UP	11M		2.4	0.7	220n		5.0	38m†	0	7	75-54N	FP88b
15♦	DM85L54J	TTL	16	1	UP	11M		2.4	0.7	220n		5.0	38m†	0	7	75-54N	DIP16a
16♦	DM85L54N	TTL	16	1	UP	11M		2.4	0.7	220n		5.0	38m†	0	7	75-54N	DIP16a
17♦	883C4161B	CMS	16	1	UP	12M	Yes	8.2	6.7	120n		15	300m	5	C	74-161N	MO001AG
18♦	883C4163B	CMS	16	1	UP	12M	Yes	8.2	6.7	120n		15	300m	5	C	74LS163N	MO001AG
19♦	671492JS	TTL	16	1	UP	12M	Yes	2.0	0.8		0.4	5.0		0	7	E01-190	DIP24
20♦	671492NS	TTL	16	1	UP	12M	Yes	2.0	0.8		0.4	5.0		0	7	E01-190	DIP24e
21♦	BCL4161B	CMS	16	1	UP	12M	Yes	8.2	6.7	120n		15	300m	5	C	74-161	MO001AG
22♦	BCL4163B	CMS	16	1	UP	12M	Yes	8.2	6.7	120n		15	300m	5	C	74-163	MO001AG
23♦	HCC40161BD	CMS	16	1	UP	12M	Yes	11	4.0	120n	4.0 *	15	500m	5	C	74-161N	DIP16a
24♦	HCC40161BF	CMS	16	1	UP	12M	Yes	11	4.0	120n	4.0 *	15	500m	5	C	74-161N	DIP16a
25♦	HCC40161BK	CMS	16	1	UP	12M	Yes	11	4.0	120n	4.0 *	15	500m	5	C	54-161W	FP131
26♦	HCC40163BD	CMS	16	1	UP	12M	Yes	11	4.0	120n	4.0 *	15	500m	5	C	74-163N	DIP16a
27♦	HCC40163BF	CMS	16	1	UP	12M	Yes	11	4.0	120n	4.0 *	15	500m	5	C	74-163N	DIP16a
28♦	HCC40163BK	CMS	16	1	UP	12M	Yes	11	4.0	120n	4.0 *	15	500m	5	C	54LS163W	FP131
29♦	HCF40161BE	CMS	16	1	UP	12M	Yes	11	4.0	120n	4.0 *	15	500m	4	8	74-161N	DIP16a
30♦	HCF40161BF	CMS	16	1	UP	12M	Yes	11	4.0	120n	4.0 *	15	500m	4	8	74-161N	DIP16a
31♦	HCF40163BE	CMS	16	1	UP	12M	Yes	11	4.0	120n	4.0 *	15	500m	4	8	74-163N	DIP16a
32♦	HCF40163BF	CMS	16	1	UP	12M	Yes	11	4.0	120n	4.0 *	15	500m	4	8	74-163N	DIP16a
33♦	HEF40161B	CMS	16	1	UP	12M	Yes	9.95	.05C			10	100uQ	4	8	74-161N	DIP16b
34♦	HEF40163B	CMS	16	1	UP	12M	Yes	9.95	.05C			10	100uQ	4	8	74-163N	DIP16b
35♦	93L16DC	TTL	16	1	UP	13M	Yes	2.0	0.7	95n		5.0	75m†	0	7	74-161N	DIP24a
36♦	93L16DM	TTL	16	1	UP	13M	Yes	2.0	0.7	95n		5.0	75m†	5	C	74-161N	DIP24a
37♦	93L16FM	TTL	16	1	UP	13M	Yes	2.0	0.7	95n		5.0	75m†	5	C	54-161W	FP79b
38♦	93L16PC	TTL	16	1	UP	13M	Yes	2.0	0.7	95n		5.0	75m†	0	7	74-161N	DIP16a
39♦	DM76L75F	TTL	16	1	UP	13M		2.0	0.7	140n		5.0	32m†	5	C	E01-79a	FP88b
40♦	DM76L75J	TTL	16	1	UP	13M		2.0	0.7	140n		5.0	32m†	5	C	E01-79a	DIP16a
41♦	DM76L75N	TTL	16	1	UP	13M		2.0	0.7	140n		5.0	32m†	5	C	E01-79a	DIP16a
42♦	DM76L75W		16	1	UP	13M		2.0	0.7	140n		5.0	32m†	5	C	E01-79a	FP88
43♦	DM86L75F	TTL	16	1	UP	13M		2.0	0.7	140n		5.0	32m†	0	7	E01-79a	FP88b
44♦	DM86L75J	TTL	16	1	UP	13M		2.0	0.7	140n		5.0	32m†	0	7	E01-79a	DIP16a
45♦	DM86L75N	TTL	16	1	UP	13M		2.0	0.7	140n		5.0	32m†	0	7	E01-79a	DIP16a
46♦	HEF40161BD	CMS	16	1	UP	14M	Yes	7.0	3.0	95n	3.9 †	10	500m	4	8	74-161N	DIP16b
47♦	HEF40161BP	CMS	16	1	UP	14M	Yes	7.0	3.0	95n	3.9 †	10	500m	4	8	74-161N	DIP16b
48♦	HEF40161BT	CMS	16	1	UP	14M	Yes	7.0	3.0	95n	3.9 †	10	400m	4	8	54-161	FP148
49♦	HEF40163BD	CMS	16	1	UP	14M	Yes	7.0	3.0	95n	2.9 †	10	500m	4	8	74-163N	DIP16b
50♦	HEF40163BP	CMS	16	1	UP	14M	Yes	7.0	3.0	95n	2.9 †	10	500m	4	8	74-163N	DIP16b
51♦	HEF40163BT	CMS	16	1	UP	14M	Yes	7.0	3.0	95n	2.9 †	10	400m	4	8	54LS163W	FP148
52♦	9316DC	TTL	16	1	UP	15M	Yes	2.0	0.8	50n	400m	5.0	470mQ	0	7	74-161N	DIP16a
53♦	9316DM	TTL	16	1	UP	15M	Yes	2.0	0.8	50n	400m	5.0	470mQ	5	C	74-161N	DIP16a
54♦	9316FM	TTL	16	1	UP	15M	Yes	2.0	0.8	50n	400m	5.0	470mQ	5	C	54-161W	FP79b
55♦	DM54L93J	TTL	16	1	UP	15M	No	2.0	0.7	400n		5.0	18m†	5	C	74L93N	DIP14a
56♦	DM54L93W	TTL	16	1	UP	15M		2.0	0.7		0.4	8.0	16m	5	C	54-93T	FP97c
57♦	DM74L93N	TTL	16	1	UP	15M	No	2.0	0.7	400n		5.0	18m†	0	7	74L93N	DIP14a
58♦	DM76L93F	TTL	16	1	UP	15M		2.0	0.7	400n		5.0	18m†	5	C	54L93T	FP87a
59♦	DM76L93J	TTL	16	1	UP	15M	No	2.0	0.7	400n		5.0	18m†	5	C	74L93N	DIP14a
60♦	DM76L93N	TTL	16	1	UP	15M	No	2.0	0.7	400n		5.0	18m†	5	C	74L93N	DIP14a
61♦	DM86L93F	TTL	16	1	UP	15M		2.0	0.7	400n		5.0	18m†	0	7	54L93T	FP87a
62♦	DM86L93J	TTL	16	1	UP	15M	No	2.0	0.7	400n		5.0	18m†	0	7	74L93N	DIP14a
63♦	DM86L93N	TTL	16	1	UP	15M	No	2.0	0.7	400n		5.0	18m†	0	7	74L93N	DIP14a
64♦	PC74HCT161P	CMS	16	1	UP	15M	Yes	2.0	1.35	57n	0.7	5.0	500m	4	C	74-161	DIP16b
65♦	PC74HCT161T	CMS	16	1	UP	15M	Yes	2.0	1.35	57n	0.7	5.0	300m	4	C	74-161	FP148
66♦	DM5493AJ	TTL	16	1	UP	16M	No	2.0	0.8		0.3	5.0		5	C	E02-53	DIP14b
67▼	HD74LS293G	TTL	16	1	UP	16M	No	2.0	0.8	70n	300m	5.0	400m	2	7	74-293N	DIP14a
68♦	HD74LS293P	TTL	16	1	UP	16M	No	2.0	0.8	38n	300m	5.0	400m	2	7	74-293N	DIP14a
69♦	N74LS93F	TTL	16	1	UP	16M	No	2.0	0.8	70n		5.0	75m	0	7	74LS93N	DIP14b
70♦	HEF40161	CMS	16	1	UP	17M	Yes	11	4.0	85n	6.7 †	15	400m	4	8	74-161N	DL Ø
71♦	HEF40161BPN	CMS	16	1	UP	17M	Yes	11.0	4.0	85n	6.7 †	15	400m	4	8	74-161N	DIP16b
72♦	HEF40163	CMS	16	1	UP	17M	Yes	11	4.0	80n	6.7 †	15	400m	4	8	74-163N	DL Ø
73♦	HEF40163BPN	CMS	16	1	UP	17M	Yes	11.0	4.0	80n	6.7 †	15	400m	4	8	74-163N	DIP16b
74♦	PC74HCT163P	CMS	16	1	UP	17M	Yes	2.0	0.8	65n	0.7	5.0	500m	4	C	74-163	DIP16b
75♦	PC74HCT163T	CMS	16	1	UP	17M	Yes	2.0	0.8	65n	0.7	5.0	300m	4	C	74-163	FP148
76♦	TC40H161F	CMS	16	1	UP	17M	Yes	4.0	1.0	60n	.95	10	180m	4	8	54-161W	FP167
77♦	TC40H161P	CMS	16	1	UP	17M	Yes	4.0	1.0	60n	.95	10	300m	4	8	74-161N	MO001AC
78♦	TC40H163P	CMS	16	1	UP	17M	Yes	4.0	1.0	60n	.95	10	300m	4	8	74LS163N	MO001AC
79♦	74HCT161D	CMS	16	1	UP	18M	Yes	2.0	0.8	64n	0.7	5.0		4		74-161	FP162
80♦	74HCT161N	CMS	16	1	UP	18M	Yes	2.0	0.8	64n	0.7	5.0		4		74-161	DIP16b
81▼	IDT74AHCT161D	CMS	16	1	UP	18M	Yes	2.0	0.8	17n	0.7	5.0	5.0uQ	0	7	74-161	DIP16a
82▼	IDT74AHCT161L	CMS	16	1	UP	18M	Yes	2.0	0.8	17n	0.7	5.0	5.0uQ	0	7	74-161	LC19
83▼	IDT74FCT161A	CMS	16	1	UP	18M	Yes	2.0	0.8	64n	0.7	5.0		4		74-161	FP162
84▼	IDT74FCT161AD	CMS	16	1	UP	18M	Yes	2.0	0.8	7.2n	0.7	5.0	5.0uQ	0	7	74-161	DIP16a
85▼	IDT74FCT161AL	CMS	16	1	UP	18M	Yes	2.0	0.8	7.2n	0.7	5.0	5.0uQ	0	7	74-161	LC19
86▼	IDT74FCT161D	CMS	16	1	UP	18M	Yes	2.0	0.8	11.0n	0.7	5.0	5.0uQ	0	7	74-161	DIP16a
87▼	IDT74FCT161L	CMS	16	1	UP	18M	Yes	2.0	0.8	11.0n	0.7	5.0	5.0uQ	0	7	74-161	LC19
88♦	PC74HC163P	CMS	16	1	UP	18M	Yes	3.15	1.35	62n	0.8	5.0	500m	4	C	74-163	DIP16b
89♦	PC74HC163T	CMS	16	1	UP	18M	Yes	3.15	1.35	62n	0.8	5.0	300m	4	C	74-163	FP148
90♦	SFC493E	TTL	16	1	UP	18M	No	2.0	0.8	75n	1.0	5.0	155m†	0	7	74LS93N	TO-116
91♦	SFC493EM	TTL	16	1	UP	18M	No	2.0	0.8	75n	1.0	5.0	155m†	5	C	74LS93N	TO-116
92♦	SFC493ET	TTL	16	1	UP	18M	No	2.0	0.8	75n	1.0	5.0	155m†	2	8	74LS93N	TO-116
93♦	SFC493PM	TTL	16	1	UP	18M	No	2.0	0.8	75n	1.0	5.0	155m†	5	C	54LS93	TO-85
94♦	CD54HC161F	CMS	16	1	UP	20M	Yes	3.15	1.35	62n	1.7	5.0	500m	5	C	74-161N	MS001a
95♦	CD54HC163F	CMS	16	1	UP	20M	Yes	3.15	1.35	62n	1.7	5.0	500m	5	C	74-163N	MS001a
96♦	CD54HCT161F	CMS	16	1	UP	20M	Yes	2.0	0.8	65n	2.4	5.0	500m	5	C	74-161N	MS001a
97♦	CD54HCT163F	CMS	16	1	UP	20M	Yes	2.0	0.8	65n	2.4	5.0	500m	5	C	74-163N	MS001a
98♦	CD74HC161E	CMS	16	1	UP	20M	Yes	3.15	1.35	51n	1.7	5.0	500m	4	8	74-161N	MS001a
99♦	CD74HC161M	CMS	16	1	UP	20M	Yes	3.15	1.35	51n	1.7	5.0	300m	4	8	54-161	FP148
100♦	CD74HC163E	CMS	16	1	UP	20M	Yes	3.15	1.35	51n	1.7	5.0	500m	4	8	74-163N	MS001a
101♦	CD74HC163M	CMS	16	1	UP	20M	Yes	3.15	1.35	51n	1.7	5.0	300m	4	8	54-163	FP148
102♦	CD74HCT161E	CMS	16	1	UP	20M	Yes	2.0	0.8	54n	2.4	5.0	500m	4	8	74-161N	MS001a
103♦	CD74HCT161M	CMS	16	1	UP	20M	Yes	2.0	0.8	54n	2.4	5.0	300m	4	8	54-161	FP148
104♦	CD74HCT163E	CMS	16	1	UP	20M	Yes	2.0	0.8	54n	2.4	5.0	500m	4	8	74-163N	MS001a
105♦	CD74HCT163M	CMS	16	1	UP	20M	Yes	2.0	0.8	54n	2.4	5.0	300m	4	8	54-163	FP148
106▼	HD74HC161FP	CMS	16	1	UP	20M	Yes	3.15	1.35	18n	1.2	5.0	500m	4	8	74-161N	FP162
107▼	HD74HC161P	CMS	16	1	UP	20M	Yes	3.15	1.35	18n	1.2	5.0	500m	4	8	74-161N	DIP16a
108▼	HD74HC163FP	CMS	16	1	UP	20M	Yes	3.15	1.35	18n	1.2	5.0	500m	4	8	74LS163N	FP162
109▼	HD74HC163P	CMS	16	1	UP	20M	Yes	3.15	1.35	18n	1.2	5.0	500m	4	8	74LS163N	DIP16a
110▼	IDT54AHCT161DB	CMS	16	1	UP	20M	Yes	2.0	0.8	20n	2.4	5.0	5.0uQ	5	C	74-161N	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. COUNTERS - Binary, Hexadecimal Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING	
1▼	IDT54AHCT161EB	CMS	16	1	UP	20M	Yes	2.0	0.8	20n	2.4	5.0	5.0uQ	5	C	74-161N	FP183	
2▼	IDT54AHCT161LB	CMS	16	1	UP	20M	Yes	2.0	0.8	20n	2.4	5.0	5.0uQ	5	C	74-161N	LC19	
3▼	IDT54AHCT163DB	CMS	16	1	UP	20M	Yes	2.0	0.8	17n	2.4	5.0	5.0uQ	5	C	74-163N	DIP16a	
4▼	IDT54AHCT163EB	CMS	16	1	UP	20M	Yes	2.0	0.8	17n	2.4	5.0	5.0uQ	5	C	74-163N	FP183	
5▼	IDT54AHCT163LB	CMS	16	1	UP	20M	Yes	2.0	0.8	17n	2.4	5.0	5.0uQ	5	C	74-163N	LC19	
6▼	IDT54FCT161A	CMS	16	1	UP	20M	Yes	2.0	0.8	65n	2.4	5.0	500m	5	C	74-161N	MS001a	
7▼	IDT54FCT161ADB	CMS	16	1	UP	20M	Yes	2.0	0.8	7.5n	2.4	5.0	5.0uQ	5	C	74-161N	DIP16a	
8▼	IDT54FCT161AEB	CMS	16	1	UP	20M	Yes	2.0	0.8	7.5n	2.4	5.0	5.0uQ	5	C	74-161N	FP183	
9▼	IDT54FCT161ALB	CMS	16	1	UP	20M	Yes	2.0	0.8	7.5n	2.4	5.0	5.0uQ	5	C	74-161N	LC19	
10▼	IDT54FCT161DB	CMS	16	1	UP	20M	Yes	2.0	0.8	11.5n	2.4	5.0	5.0uQ	5	C	74-161N	DIP16a	
11▼	IDT54FCT161EB	CMS	16	1	UP	20M	Yes	2.0	0.8	11.5n	2.4	5.0	5.0uQ	5	C	74-161N	FP183	
12▼	IDT54FCT161LB	CMS	16	1	UP	20M	Yes	2.0	0.8	11.5n	2.4	5.0	5.0uQ	5	C	74-161N	LC19	
13▼	IDT54FCT163A	CMS	16	1	UP	20M	Yes	2.0	0.8	65n	2.4	5.0	500m	5	C	74-163N	MS001a	
14▼	IDT54FCT163ADB	CMS	16	1	UP	20M	Yes	2.0	0.8	7.5n	2.4	5.0	5.0uQ	5	C	74-163N	DIP16a	
15▼	IDT54FCT163AEB	CMS	16	1	UP	20M	Yes	2.0	0.8	7.5n	2.4	5.0	5.0uQ	5	C	74-163N	FP183	
16▼	IDT54FCT163ALB	CMS	16	1	UP	20M	Yes	2.0	0.8	7.5n	2.4	5.0	5.0uQ	5	C	74-163N	LC19	
17▼	IDT54FCT163DB	CMS	16	1	UP	20M	Yes	2.0	0.8	11.5n	2.4	5.0	5.0uQ	5	C	74-163N	DIP16a	
18▼	IDT54FCT163EB	CMS	16	1	UP	20M	Yes	2.0	0.8	11.5n	2.4	5.0	5.0uQ	5	C	74-163N	FP183	
19▼	IDT54FCT163LB	CMS	16	1	UP	20M	Yes	2.0	0.8	11.5n	2.4	5.0	5.0uQ	5	C	74-163N	LC19	
20♦	M74HC161B1(A)	CMS	16	1	UP	20M	Yes	3.15	1.35	40n	1.2	5.0	500m	4	8	74-161	DIP16a	
21♦	M74HC161C1(A)	CMS	16	1	UP	20M	Yes	3.15	1.35	40n	1.2	5.0	500m	4	8	E02-211	LC33	
22♦	M74HC161F1(A)	CMS	16	1	UP	20M	Yes	3.15	1.35	40n	1.2	5.0	500m	4	8	74-161	DIP16b	
23♦	M74HC163B1(A)	CMS	16	1	UP	20M	Yes	3.15	1.35	40n	1.2	5.0	500m	4	8	74-163	DIP16a	
24♦	M74HC163C1(A)	CMS	16	1	UP	20M	Yes	3.15	1.35	40n	1.2	5.0	500m	4	8	E02-211	LC33	
25♦	M74HC163F1(A)	CMS	16	1	UP	20M	Yes	3.15	1.35	40n	1.2	5.0	500m	4	8	74-163	DIP16b	
26♦	N8291F	TTL	16	1	UP	20M	Yes	2.6	0.4C	90n		5.0	242m	0	7	74-177N	DIP14b	
27♦	N8291N	TTL	16	1	UP	20M	Yes	2.6	0.4C	90n		5.0	242m	0	7	74-177N	DIP14a	
28♦	PC74HC93P	CMS	16	1	UP	20M	No	3.15	1.35	71n	0.8	5.0	500m	4	C	74LS93	DIP14b	
29♦	PC74HC93T	CMS	16	1	UP	20M	No	3.15	1.35	71n	0.8	5.0	300m	4	C	74LS93	FP147	
30♦	PC74HCT93P(A)	CMS	16	1	UP	20M	No	2.0	0.8	87n	0.7	5.0	500m	4	C	74LS93	DIP14b	
31♦	PC74HCT93T(A)	CMS	16	1	UP	20M	No	2.0	0.8	87n	0.7	5.0	300m	4	C	74LS93	FP147	
32♦	S8291F	TTL	16	1	UP	20M	Yes	2.6	0.4C	90n		5.0	242m	5	C	74-177N	DIP14b	
33♦	S8291W	TTL	16	1	UP	20M	Yes	2.6	0.4C	90n		5.0	242m	5	C	54-177W	FP39e	
34♦	SN54LS691J	TTL	16	1	UP	20M		2.0	0.7	40n	0.3	5.0		5	C	74LS691	DIP20b	
35♦	SN54LS693J	TTL	16	1	UP	20M		2.0	0.7	40n	0.3	5.0		5	C	74LS693	DIP20b	
36♦	SN74LS691N	TTL	16	1	UP	20M		2.0	0.8	40n	0.4	5.0		0	7	74LS691	DIP20a	
37♦	SN74LS693N	TTL	16	1	UP	20M		2.0	0.8	40n	0.4	5.0		0	7	74LS693	DIP20a	
38♦	74HC161D	CMS	16	1	UP	21M	Yes	3.15	1.35	47n	1.2	5.0		4		74-161	FP162	
39♦	74HC161N	CMS	16	1	UP	21M	Yes	3.15	1.35	47n	1.2	5.0		4		74-161	DIP16b	
40♦	74HCT163D	CMS	16	1	UP	21M	Yes	2.0	0.8	61n	0.7	5.0		4		74-163	FP162	
41♦	74HCT163N	CMS	16	1	UP	21M	Yes	2.0	0.8	61n	0.7	5.0		4		74-163	DIP16b	
42▼	HD74HC93FP	CMS	16	1	UP	21M	No	3.15	1.35	13n	1.4	5.0	500m	4	8	74LS93	FP161	
43▼	HD74HC93P	CMS	16	1	UP	21M	No	3.15	1.35	13n	1.2	5.0	500m	4	8	74LS93	DIP14a	
44▼	IDT74AHCT163D	CMS	16	1	UP	21M	Yes	2.0	0.8	17n	0.7	5.0	5.0uQ	0	7	74-163	DIP16a	
45▼	IDT74AHCT163L	CMS	16	1	UP	21M	Yes	2.0	0.8	17n	0.7	5.0	5.0uQ	0	7	74-163	LC19	
46▼	IDT74FCT163A	CMS	16	1	UP	21M	Yes	2.0	0.8	61n	0.7	5.0		4		74-163	FP162	
47▼	IDT74FCT163AD	CMS	16	1	UP	21M	Yes	2.0	0.8	7.2n	0.7	5.0	5.0uQ	0	7	74-163	DIP16a	
48▼	IDT74FCT163AL	CMS	16	1	UP	21M	Yes	2.0	0.8	7.2n	0.7	5.0	5.0uQ	0	7	74-163	LC19	
49▼	IDT74FCT163D	CMS	16	1	UP	21M	Yes	2.0	0.8	11.0n	0.7	5.0	5.0uQ	0	7	74-163	DIP16a	
50▼	IDT74FCT163L	CMS	16	1	UP	21M	Yes	2.0	0.8	11.0n	0.7	5.0	5.0uQ	0	7	74-163	LC19	
51♦	MM54HC161J	CMS	16	1	UP	21M	Yes	4.2	1.2	55n	1.7	5.0	500m	5	C	74-161N	DIP16a	
52♦	MM54HC163J	CMS	16	1	UP	21M	Yes	4.2	1.2	55n	1.7	5.0	500m	5	C	74LS163N	DIP16a	
53♦	SN54HC161J	CMS	16	1	UP	21M	Yes	3.15	0.9	65n	1.2	5.0		5	C	74-161N	DIP16a	
54▼	SN54ALS161BJ	TTL	16	1	UP	22M	Yes	2.0	0.7	34n	0.3	5.0		5	C	74-161N	DIP16a	
55♦	DM7554J	TTL	16	1	UP	23M		2.0	0.8	70n		5.0	330m†	5	C	75-54N	DIP16a	
56♦	DM7554W	TTL	16	1	UP	23M		2.0	0.8	70n		5.0	330m†	5	C	75-54N	FP88a	
57♦	DM8554J	TTL	16	1	UP	23M		2.0	0.8	70n		5.0	330m†	0	7	75-54N	DIP16a	
58♦	DM8554N	TTL	16	1	UP	23M		2.0	0.8	70n		5.0	330m†	0	7	75-54N	DIP16a	
59♦	DM8554W	TTL	16	1	UP	23M		2.0	0.8	70n		5.0	330m†	0	7	75-54N	FP88a	
60♦	74HCT93D	CMS	16	1	UP	24M	No	2.0	0.8	73n	0.7	5.0		4		74L93	FP147	
61♦	74HCT93N	CMS	16	1	UP	24M	No	2.0	0.8	73n	0.7	5.0		4		74L93	DIP14a	
62♦	74161PC	TTL	16	1	UP	25M	Yes	2.0	0.8	15n		5.0		0	7	74-161N	DIP16	☑
63♦	74163DC	TTL	16	1	UP	25M	Yes	2.0	0.8	15n		5.0		0	7	74-163N	DIP16	☑
64♦	74163PC	TTL	16	1	UP	25M	Yes	2.0	0.8	15n		5.0		0	7	74-163N	DIP16	☑
65♦	DM54ALS161AJ	TTL	16	1	UP	25M	Yes	2.0	0.8	20n	0.4	5.0		5	C	74-161	DIP16a	
66♦	DM54ALS163AJ	TTL	16	1	UP	25M	Yes	2.0	0.8	20n	0.4	5.0		5	C	74-163	DIP16a	
67♦	DM54LS191W	TTL	16	1	UP	25M		2.0	0.8	20n	0.4	5.0	100m	5	C	E02-187	FP98b	
68♦	DM9316J	TTL	16	1	UP	25M	Yes	2.0	0.8		0.4	5.0		5	C	54-161	DIP16a	
69♦	DM54161AJ	TTL	16	1	UP	25M	Yes	2.0	0.8		0.4	5.0		5	C	54-161	DIP16a	
70♦	DM54163AJ	TTL	16	1	UP	25M	Yes	2.0	0.8		0.4	5.0		5	C	54-163	DIP16a	
71▼	HD74LS161G	TTL	16	1	UP	25M	Yes	2.0	0.8	35n	300m	5.0	400n	2	7	74-161N	DIP16a	
72♦	HD74LS161P	TTL	16	1	UP	25M	Yes	2.0	0.8	15n	300m	5.0	400n	2	7	74-161N	DIP16a	
73▼	HD74LS163G	TTL	16	1	UP	25M	Yes	2.0	0.8	35n	300m	5.0	400n	2	7	74LS163N	DIP16a	
74♦	HD74LS163P	TTL	16	1	UP	25M	Yes	2.0	0.8	35n	300m	5.0	400n	2	7	74LS163N	DIP16a	
75♦	M53361P	TTL	16	1	UP	25M	Yes	2.0	0.8	38n	400m	5.0	305m†	0	7	74-161N	DIP16a	
76♦	M53363P	TTL	16	1	UP	25M	Yes	2.0	0.8	38n	400m	5.0	305m†	0	7	74-163N	DIP16a	
77♦	MB74LS161A	TTL	16	1	UP	25M	Yes	2.0	0.8	35n		5.0	160m	2	7	74-161N	DIP16b	
78♦	MB74LS161AM	TTL	16	1	UP	25M	Yes	2.0	0.8	35n		5.0	160m	2	7	74-161N	DIP16b	
79♦	MB74LS163A	TTL	16	1	UP	25M	Yes	2.0	0.8	35n		5.0	160m	2	7	74-163N	DIP16a	
80♦	MB74LS163AM	TTL	16	1	UP	25M	Yes	2.0	0.8	35n		5.0	160m	2	7	74-163N	DIP16b	
81♦	MM74HC161J	CMS	16	1	UP	25M	Yes	4.2	1.2	47n	1.7	5.0	500m	4	8	74-161N	DIP16a	
82♦	MM74HC161N	CMS	16	1	UP	25M	Yes	4.2	1.2	47n	1.7	5.0	500m	4	8	74-161N	DIP16a	
83♦	MM74HC163J	CMS	16	1	UP	25M	Yes	4.2	1.2	47n	1.7	5.0	500m	4	8	74LS163N	DIP16a	
84♦	MM74HC163N	CMS	16	1	UP	25M	Yes	4.2	1.2	47n	1.7	5.0	500m	4	8	74LS163N	DIP16a	
85♦	N74LS161AD	TTL	16	1	UP	25M	Yes	2.0	0.8	27n	0.3	5.0	160m	0	7	74-161N	DIP16b	
86♦	N74LS161AN	TTL	16	1	UP	25M	Yes	2.0	0.8	27n	0.3	5.0	160m	0	7	74-161N	DIP16a	
87♦	N74LS163AD	TTL	16	1	UP	25M	Yes	2.0	0.8	27n	0.3	5.0	160m	0	7	74-163N	DIP16b	
88♦	N74LS163AN	TTL	16	1	UP	25M	Yes	2.0	0.8	27n	0.3	5.0	160m	0	7	74-163N	DIP16a	
89♦	N8281Q	TTL	16	1	UP	25M	Yes	2.6	0.4C	25n		5.0	236m	0	7	54-177W	TO-88	
90♦	N74161F	TTL	16	1	UP	25M	Yes	2.0	0.8	38n	1.0 †	5.0	505m	0	7	74-161N	DIP16b	
91♦	N74161N	TTL	16	1	UP	25M	Yes	2.0	0.8	29n	0.4	5.0	505m	0	7	74-161N	DIP16a	
92♦	N74163F	TTL	16	1	UP	25M	Yes	2.0	0.8	35n	1.0 †	5.0	505m	0	7	74-163N	DIP16b	
93♦	N74163N	TTL	16	1	UP	25M	Yes	2.0	0.8	29n	0.4	5.0	505m	0	7	74-163N	DIP16a	
94♦	S54LS161AF	TTL	16	1	UP	25M	Yes	2.0	0.7	27n	0.3	5.0	160m	5	C	74-161N	DIP16b	
95♦	S54LS161AG	TTL	16	1	UP	25M	Yes	2.0	0.7	27n	0.3	5.0	160m	5	C	74-161N	LC24	
96♦	S54LS161AW	TTL	16	1	UP	25M	Yes	2.0	0.7	27n	0.3	5.0	160m	5	C	54-161W	FP154	
97♦	S54LS163AF	TTL	16	1	UP	25M	Yes	2.0	0.7	27n	0.3	5.0	160m	5	C	74-163N	DIP16b	
98♦	S54LS163AG	TTL	16	1	UP	25M	Yes	2.0	0.7	27n	0.3	5.0	160m	5	C	74LS163N	LC24	
99♦	S54LS163AW	TTL	16	1	UP	25M	Yes	2.0	0.7	27n	0.3	5.0	160m	5	C	54LS163W	FP154	
100♦	S54161E	ECL	16	1	UP	25M		2.0	0.85	35n	200m	0	325m†	5	C	E02-71	DIP16a	
101♦	S54161F	TTL	16	1	UP	25M	Yes	2.0	0.8	35n	0.4	5.0	455m	5	C	74-161N	DIP16b	
102♦	S54161R	ECL	16	1	UP	25M		2.0	0.85	35n	200m	0	325m†	5	C	E02-71	FP79a	
103♦	S54161W	TTL	16	1	UP	25M	Yes	2.0	0.8	35n	0.4	5.0	455m	5	C	54-161W	FP47g	
104♦	S54163E	TTL	16	1	UP	25M	Yes	2.0	0.8	35n		5.0	325m†	5	C	74-163N	DIP16a	
105♦	S54163F	TTL	16	1	UP	25M	Yes	2.0	0.8	35n	0.4	5.0	455m	5	C	74-163N	DIP16b	
106♦	S54163R	TTL	16	1	UP	25M	Yes	2.0	0.8	35n		5.0	325m†	5	C	54-163W	FP79a	
107♦	S54163W	TTL	16	1	UP	25M	Yes	2.0	0.8	35n	0.4	5.0	455m	5	C	54-163W	FP47g	
108▼	SN74HC161D	CMS	16	1	UP	25M	Yes	3.15	0.9	54n	1.2	5.0		4	8	74-161	FP162	
109♦	SN74HC161N	CMS	16	1	UP	25M	Yes	3.15	0.9	54n	1.2	5.0		4	8	74-161	DIP16a	
110▼	SN74HC163D	CMS	16	1	UP	25M	Yes	3.15	0.9	54n	1.2	5.0		4	8	74LS163N	FP162	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

11. COUNTERS - Binary, Hexadecimal Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	5 TYPE NUMBER	TECHN	1 MODU-LUS	2 CKTS PER PKG	3 MODE	4 f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	SN74HC163N	CMS	16	1	UP	25M	Yes	3.15	0.9	54n	1.2	5.0		4	8	74LS163N	DIP16a
2♦	74HC163D	CMS	16	1	UP	26M	Yes	3.15	1.35	46n	1.2	5.0		4		74-163	FP162
3♦	74HC163N	CMS	16	1	UP	26M	Yes	3.15	1.35	46n	1.2	5.0		4		74-163	DIP16b
4♦	74HC93D	CMS	16	1	UP	28M	No	4.2	1.8	52n	2.4	5.0		4		74L93	FP147
5♦	74HC93N	CMS	16	1	UP	28M	No	4.2	1.8	52n	2.4	5.0		4		74L93	DIP14a
6♦	DM74ALS161AJ	TTL	16	1	UP	30M	Yes	2.0	0.8	17n	0.3	5.0		0	7	74-161	DIP16a
7♦	DM74ALS161AN	TTL	16	1	UP	30M	Yes	2.0	0.8	17n	0.3	5.0		0	7	74-161	DIP16a
8♦	DM74ALS163AJ	TTL	16	1	UP	30M	Yes	2.0	0.8	17n	0.3	5.0		0	7	74-163	DIP16a
9♦	DM74ALS163AN	TTL	16	1	UP	30M	Yes	2.0	0.8	17n	0.3	5.0		0	7	74-163	DIP16a
10♦	MC54HC161J(A)	CMS	16	1	UP	30M	Yes	3.15	0.9	34n	1.3	5.0	500m	5	C	74-161N	DIP16a
11♦	MC54HC163J(A)	CMS	16	1	UP	30M	Yes	3.15	0.9	34n	1.3	5.0	500m	5	C	74LS163N	DIP16a
12♦	MC74HC161J(A)	CMS	16	1	UP	30M	Yes	3.15	0.9	34n	1.3	5.0	500m	4	8	74-161N	DIP16a
13♦	MC74HC161N(A)	CMS	16	1	UP	30M	Yes	3.15	0.9	34n	1.3	5.0	500m	4	8	74-161N	DIP16b
14♦	MC74HC163J(A)	CMS	16	1	UP	30M	Yes	3.15	0.9	34n	1.3	5.0	500m	4	8	74LS163N	DIP16a
15♦	MC74HC163N(A)	CMS	16	1	UP	30M	Yes	3.15	0.9	34n	1.3	5.0	500m	4	8	74LS163N	DIP16b
16♦	N74LS197D	TTL	16	1	UP	30M	Yes	2.0	0.8	44n	0.3	5.0	135m	0	7	74-177N	FP147
17♦	N74LS197N	TTL	16	1	UP	30M	Yes	2.0	0.8	44n	0.3	5.0	135m	0	7	74-177N	DIP14a
18♦	S54LS197F	TTL	16	1	UP	30M	Yes	2.0	0.7	44n	0.3	5.0	135m	5	C	74-177N	DIP14b
19♦	S54LS197W	TTL	16	1	UP	30M	Yes	2.0	0.7	44n	0.3	5.0	135m	5	C	54-177W	FP153
20▼	SN74ALS561ADW	TTL	16	1	UP	30M	Yes	2.0	0.8	30n	0.4	5.0		0	7	74ALS561	FP169
21♦	SN74ALS561AN	TTL	16	1	UP	30M	Yes	2.0	0.8	30n	0.4	5.0		0	7	74ALS561	DIP20a
22♦	54LS93DM	TTL	16	1	UP	32M	No	2.0	0.7	18n	300m	5.0	75mQ	5	C	74LS93N	TO-116
23♦	54LS93FM	TTL	16	1	UP	32M	No	2.0	0.7	18n	300m	5.0	75mQ	5	C	54LS93	TO-86
24♦	74LS93DC	TTL	16	1	UP	32M	No	2.0	0.8	18n	300m	5.0	75mQ	0	7	74LS93N	TO-116
25♦	74LS93PC	TTL	16	1	UP	32M	No	2.0	0.8	18n	300m	5.0	75mQ	0	7	74LS93N	TO-116
26♦	5493ADM	TTL	16	1	UP	32M	No	2.0	0.8	70n		5.0	195m	5	C	74LS93N	DIP14a
27♦	5493AFM	TTL	16	1	UP	32M	No	2.0	0.8	70n		5.0	195m	5	C	54LS93	FP52
28♦	7493ADC	TTL	16	1	UP	32M	No	2.0	0.8	70n		5.0	195m	0	7	74LS93N	DIP14a
29♦	7493APC	TTL	16	1	UP	32M	No	2.0	0.8	70n		5.0	195m	0	7	74LS93N	DIP14a
30♦	54161DM	TTL	16	1	UP	32M	Yes	2.0	0.8	38n	400m*	5.0	305m†	5	C	74-161N	DIP16b
31♦	54161FM	TTL	16	1	UP	32M	Yes	2.0	0.8	38n	400m*	5.0	305m†	5	C	54-161W	FP93c
32♦	54163DM	TTL	16	1	UP	32M	Yes	2.0	0.8	38n	400m*	5.0	305m†	5	C	74-163N	DIP16b
33♦	54163FM	TTL	16	1	UP	32M	Yes	2.0	0.8	38n	400m*	5.0	305m†	5	C	54-163W	FP93c
34♦	74161DC	TTL	16	1	UP	32M	Yes	2.0	0.8	38n	400m*	5.0	305m†	5	C	74-161N	DIP16b
35♦	74293PC	TTL	16	1	UP	32M	No	2.0	0.8	15n		5.0	290m	0	7	74-293N	TO-116
36♦	DM54LS161AJ	TTL	16	1	UP	32M	Yes	2.0	0.7	45n	0.3	5.0		5	C	74-161	DIP16a
37♦	DM54LS161AW	TTL	16	1	UP	32M	Yes	2.0	0.8	14n	0.4	5.0	93m	5	C	54-161W	FP98b
38♦	DM54LS163AJ	TTL	16	1	UP	32M	Yes	2.0	0.7	45n	0.3	5.0		5	C	74-163	DIP16a
39♦	DM54LS163AW	TTL	16	1	UP	32M	Yes	2.0	0.8	14n	0.4	5.0	93m	5	C	54LS163W	FP98b
40♦	DM74LS161AN	TTL	16	1	UP	32M	Yes	2.0	0.8	14n	0.4	5.0	93m	0	7	74-161N	DIP16a
41♦	DM74LS163AN	TTL	16	1	UP	32M	Yes	2.0	0.8	14n	0.4	5.0	93m	0	7	74LS163N	DIP16a
42♦	DM5493J	TTL	16	1	UP	32M	No	2.0	0.8	100n		5.0	215mQ	5	C	74LS93N	DIP14a
43♦	DM5493W	TTL	16	1	UP	32M	No	2.0	0.8	100n		5.0	215mQ	5	C	54LS93	FP97a
44♦	DM7493N	TTL	16	1	UP	32M	No	2.0	0.8	80n		5.0	225mQ	0	7	74LS93N	DIP14a
45♦	DN74LS161AP2	TTL	16	1	UP	32M	Yes	2.0	0.8	28n	700m	5.0	400m	2	7	74-161	DIP16a
46♦	DN74LS161AP5	TTL	16	1	UP	32M	Yes	2.0	0.8	28n	700m	5.0	400m	2	7	74-161	FP178
47♦	DN74LS163AP2	TTL	16	1	UP	32M	Yes	2.0	0.8	28n	700m	5.0	400m	2	7	74-163	DIP16a
48♦	DN74LS163AP5	TTL	16	1	UP	32M	Yes	2.0	0.8	28n	700m	5.0	400m	2	7	74-163	FP178
49▼	HD74LS93G	TTL	16	1	UP	32M	No	2.0	0.8	70n	300m	5.0	400m	2	7	74L93N	DIP14a
50♦	HD74LS93P	TTL	16	1	UP	32M		2.0	0.8	25n	300m	5.0	400m	2	7	74L93N	DIP14a
51♦	N74LS93D	TTL	16	1	UP	32M	No	2.0	0.8	70n	0.3	5.0	75m	0	7	74LS93N	FP147
52♦	N74LS93N	TTL	16	1	UP	32M	No	2.0	0.8	70n	0.3	5.0	75m	0	7	74LS93N	DIP14a
53♦	N74LS293D	TTL	16	1	UP	32M	No	2.0	0.8	70n	0.3	5.0	75m	0	7	74-293N	FP147
54♦	N74LS293N	TTL	16	1	UP	32M	No	2.0	0.8	70n	0.3	5.0	75m	0	7	74-293N	DIP14a
55♦	S54LS93F	TTL	16	1	UP	32M	No	2.0	0.7	70n	0.3	5.0	75m	5	C	74LS93N	DIP14b
56♦	S54LS93W	TTL	16	1	UP	32M	No	2.0	0.7	70n	0.3	5.0	75m	5	C	54LS93	FP153
57♦	S54LS293F	TTL	16	1	UP	32M	No	2.0	0.7	70n	0.3	5.0	75m	5	C	74-293N	DIP14b
58♦	S54LS293W	TTL	16	1	UP	32M	No	2.0	0.7	70n	0.3	5.0	75m	5	C	54-293W	FP153
59♦	SN54LS161AJ	TTL	16	1	UP	32M	Yes	2.0	0.7	35n	0.3	5.0		5	C	74-161N	DIP16a
60▼	SN54LS161AN	TTL	16	1	UP	32M	Yes	2.0	0.7	35n	0.3	5.0		5	C	74-161N	DIP16a
61♦	SN54LS163AJ	TTL	16	1	UP	32M	Yes	2.0	0.7	35n	0.3	5.0	93m†	5	C	74-163N	DIP16a
62▼	SN54LS163AN	TTL	16	1	UP	32M	Yes	2.0	0.7	35n	0.3	5.0	93m†	5	C	74-163N	DIP16a
63♦	SN74LS161AJ	TTL	16	1	UP	32M	Yes	2.0	0.8	35n	0.4	5.0		0	7	74-161N	DIP16a
64♦	SN74LS161AN	TTL	16	1	UP	32M	Yes	2.0	0.8	35n	0.4	5.0		0	7	74-161N	DIP16a
65♦	SN74LS163AJ	TTL	16	1	UP	32M	Yes	2.0	0.8	35n	0.4	5.0	93m	0	7	74-163N	DIP16a
66♦	SN74LS163AN	TTL	16	1	UP	32M	Yes	2.0	0.8	35n	0.4	5.0	93m	0	7	74-163N	DIP16a
67♦	SN54161J	TTL	16	1	UP	32M	Yes	2.0	0.8	38n	0.4	5.0	305m†	5	C	74-161N	DIP16a
68♦	SN54163J	TTL	16	1	UP	32M	Yes	2.0	0.8	38n	0.4	5.0	305m†	5	C	74-163N	DIP16a
69♦	SN74161N	TTL	16	1	UP	32M	Yes	2.0	0.8	38n	0.4	5.0	305m†	5	C	74-161N	DIP16a
70♦	SN74163N	TTL	16	1	UP	32M	Yes	2.0	0.8	38n	0.4	5.0	305m†	5	C	74-163N	DIP16a
71▼	TC74HC691P	CMS	16	1	UP	33M	Yes	3.15	1.35	66n	1.2	5.0	500m	4	8	74LS691	DIP20a
72▼	TC74HC693P	CMS	16	1	UP	33M	Yes	3.15	1.35	65n	1.2	5.0	500m	4	8	74LS693	DIP20a
73♦	DM54LS393W	TTL	16	1	UP	35M	No	2.0	0.8	20n	0.4	5.0		5	C	54-393W	FP97c
74♦	DM54S163J	TTL	16	1	UP	35M	Yes	2.0	0.8		0.3	5.0		5	C	E03-80	DIP16a
75♦	DM74LS393N	TTL	16	1	UP	35M	No	2.0	0.8	20n	0.4	5.0		5	C	74-393N	DIP14a
76♦	DM9316W	TTL	16	1	UP	35M	Yes	2.0	0.8	27n	0.4			5	C	54-161W	FP98b
77♦	DM54161AW	TTL	16	1	UP	35M	Yes	2.0	0.8	14n	0.4	5.0	315m	5	C	54-161W	FP98b
78♦	DM54163AW	TTL	16	1	UP	35M	Yes	2.0	0.8	14n	0.4	5.0	315m	5	C	54-163W	FP98b
79♦	DM74161AN	TTL	16	1	UP	35M	Yes	2.0	0.8	14n	0.4	5.0	315m	0	7	74-161N	DIP16a
80♦	DM74161N	TTL	16	1	UP	35M	Yes	2.0	0.8	35n		5.0	455mQ	0	7	74-161N	DIP16a
81♦	DM74163AN	TTL	16	1	UP	35M	Yes	2.0	0.8	14n	0.4	5.0	315m	0	7	74-163N	DIP16a
82♦	DM74163N	TTL	16	1	UP	35M	Yes	2.0	0.8	35n		5.0	455mQ	0	7	74-163N	DIP16a
83♦	HEF40161BTD	CMS	16	1	UP	35M	Yes	11.0	4.0	85n	6.7 †	15	200m	4	8	54-161W	FP148
84♦	HEF40163BTD	CMS	16	1	UP	35M	Yes	11.0	4.0	80n	6.7 †	15	200m	4	8	54LS163W	FP148
85♦	MN40161B	CMS	16	1	UP	35M	Yes	11.0	4.0	135n	3.9	15	400m	4	8	74-161N	DIP16a
86♦	DM54LS197J	TTL	16	1	UP	40M		2.0	0.7	53n	0.3	5.0		5	C	74LS197	DIP14a
87♦	DM54LS197W	TTL	16	1	UP	40M	Yes	2.0	0.8	15n	0.4	5.0	80m	5	C	54-177W	FP97c
88♦	DM74LS197N	TTL	16	1	UP	40M	Yes	2.0	0.8	15n	0.3	5.0	80m	0	7	74-177N	DIP14a
89♦	DN74LS197P1	TTL	16	1	UP	40M		2.0	0.8	44n	700m	5.0	400m	2	7	74LS197	DIP14a
90♦	DN74LS197P4	TTL	16	1	UP	40M		2.0	0.8	44n	700m	5.0	400m	2	7	74LS197	FP177
91♦	M74ALS163AP	TTL	16	1	UP	40M	Yes	2.0	0.8	27n	0.4	5.0	120m	2	7	74-163	DIP16b
92♦	PC54HC161D(A)	CMS	16	1	UP	40M	Yes	3.15	0.9	17n	0.8	5.0	500m	5	C	74-161	DIP16b
93♦	PC54HC163D(A)	CMS	16	1	UP	40M	Yes	3.15	0.9	17n	0.8	5.0	500m	5	C	74-163	DIP16b
94♦	PC54HCT161D(A)	CMS	16	1	UP	40M	Yes	2.0	0.8	19n	0.7	5.0	500m	5	C	74-161	DIP16b
95♦	PC54HCT163D(A)	CMS	16	1	UP	40M	Yes	2.0	0.8	19n	0.7	5.0	500m	5	C	74-163	DIP16b
96♦	PC74HC161D(A)	CMS	16	1	UP	40M	Yes	3.15	0.9	17n	0.8	5.0	500m	4	8	74-161	DIP16b
97♦	PC74HC161P	CMS	16	1	UP	40M	Yes	3.15	0.9	17n	0.8	5.0	500m	4	8	74-161	DIP16b
98♦	PC74HC161T	CMS	16	1	UP	40M	Yes	3.15	0.9	17n	0.8	5.0	300m	4	8	74-161	FP148
99♦	PC74HC163D(A)	CMS	16	1	UP	40M	Yes	3.15	0.9	17n	0.8	5.0	500m	4	8	74-163	DIP16b
100♦	PC74HCT161D(A)	CMS	16	1	UP	40M	Yes	2.0	0.8	19n	0.7	5.0	500m	4	8	74-161	DIP16b
101♦	PC74HCT163D(A)	CMS	16	1	UP	40M	Yes	2.0	0.8	19n	0.7	5.0	500m	4	8	74-163	DIP16b
102♦	SN54LS197J	TTL	16	1	UP	40M	Yes	2.0	0.7	44n	0.3	5.0	80m†	5	C	74-177N	DIP14a
103▼	SN74ALS161BD	TTL	16	1	UP	40M	Yes	2.0	0.8	20n	0.4	5.0		0	7	74-161N	FP162
104▼	SN74ALS161BN	TTL	16	1	UP	40M	Yes	2.0	0.8	20n	0.4	5.0		0	7	74-161N	DIP16a
105▼	SN74ALS163BD	TTL	16	1	UP	40M	Yes	2.0	0.8	20n	0.4	5.0		0	7	74-163N	FP162
106▼	SN74ALS163BN	TTL	16	1	UP	40M	Yes	2.0	0.8	20n	0.4	5.0		0	7	74-163N	DIP16a
107♦	SN74LS197D	TTL	16	1	UP	40M	Yes	2.0	0.8	44n	0.4	5.0	80m†	0	7	74-177	FP147
108♦	SN74LS197J	TTL	16	1	UP	40M	Yes	2.0	0.8	44n	0.4	5.0	80m†	0	7	74-177N	DIP14a
109♦	SN74LS197N	TTL	16	1	UP	40M	Yes	2.0	0.8	44n	0.4	5.0	80m†	0	7	74-177N	DIP14a
110♦	UPD74HC161C(A)	CMS	16	1	UP	40M	Y	4.2	1.2	45n		6.0	500m	4	8	74-161	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. COUNTERS - Binary, Hexadecimal Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	UPD74HC163C(A)	CMS	16	1	UP	40M	Yes	4.2	1.2	45n		6.0	500m	4	8	74-163	DIP16a
2♦	DM54LS93J	TTL	16	1	UP	42M	No	2.0	0.7	90n	0.3	5.0		5	C	74LS93	DIP14a
3♦	DM54LS93W	TTL	16	1	UP	42M	No	2.0	0.8	16n	0.4	5.0	45m	5	C	54LS93	FP97c
4♦	DM54LS293J	TTL	16	1	UP	42M	No	2.0	0.7		0.3	5.0		5	C	E02-53	DIP14b
5♦	DM54LS293W	TTL	16	1	UP	42M	No	2.0	0.8	16n	0.4	5.0	45m	5	C	54-293W	FP97c
6♦	DM74LS93N	TTL	16	1	UP	42M	No	2.0	0.8	16n	0.4	5.0	45m	0	7	74LS93N	DIP14a
7♦	DM74LS293N	TTL	16	1	UP	42M	No	2.0	0.8	16n	0.4	5.0	45m	5	C	74-293N	DIP14a
8♦	DM5493AW	TTL	16	1	UP	42M	No	2.0	0.8	16n	0.4	5.0	130m	5	C	54LS93	FP97c
9♦	DM7493AN	TTL	16	1	UP	42M	No	2.0	0.8	16n		5.0	130m	0	7	74LS93N	DIP14a
10♦	DN74LS93P1	TTL	16	1	UP	42M	No	2.0	0.8	70n	700m	5.0	400m	2	7	74LS93	DIP14a
11♦	DN74LS93P4	TTL	16	1	UP	42M	No	2.0	0.8	70n	700m	5.0	400m	2	7	74LS93	FP177
12♦	DN74LS293P1	TTL	16	1	UP	42M	No	2.0	0.8	70n	700m	5.0	400m	2	7	74-293	DIP14a
13♦	DN74LS293P4	TTL	16	1	UP	42M	No	2.0	0.8	70n	700m	5.0	400m	2	7	74-293	FP177
14♦	N82S91F	TTL	16	1	UP	42M	Yes	2.6	0.5C	39n		5.0	440m	0	7	74-177N	DIP14b
15♦	N82S91N	TTL	16	1	UP	42M	Yes	2.6	0.5C	39n		5.0	440m	0	7	74-177N	DIP14a
16♦	SN54LS93J	TTL	16	1	UP	42M	No	2.0	0.7	70n	0.3	5.0		5	C	74LS93N	DIP14a
17▼	SN54LS93N	TTL	16	1	UP	42M	No	2.0	0.7	70n	0.3	5.0		5	C	74LS93N	DIP14a
18♦	SN54LS293J	TTL	16	1	UP	42M	No	2.0	0.7	70n	0.3	5.0		5	C	74-293N	DIP14a
19▼	SN54LS293N	TTL	16	1	UP	42M	No	2.0	0.7	70n	0.3	5.0		5	C	74-293N	DIP14a
20♦	SN74LS93D	TTL	16	1	UP	42M	No	2.0	0.8	70n	0.4	5.0	45m†	0	7	74-90	FP147
21♦	SN74LS93J	TTL	16	1	UP	42M	No	2.0	0.8	70n	0.4	5.0		0	7	74LS93N	DIP14a
22♦	SN74LS93N	TTL	16	1	UP	42M	No	2.0	0.8	70n	0.4	5.0		0	7	74LS93N	DIP14a
23♦	SN74LS293D	TTL	16	1	UP	42M	No	2.0	0.8	70n		5.0		0	7	74-293	FP147
24♦	SN74LS293J	TTL	16	1	UP	42M	No	2.0	0.8	70n	0.4	5.0		0	7	74-293N	DIP14a
25♦	SN74LS293N	TTL	16	1	UP	42M	No	2.0	0.8	70n	0.4	5.0		0	7	74-293N	DIP14a
26♦	SN5493AJ	TTL	16	1	UP	42M	No	2.0	0.8	70n	0.4	5.0	130m†	5	C	74LS93N	DIP14a
27♦	SN7493AN	TTL	16	1	UP	42M	No	2.0	0.8	70n	0.4	5.0	130m†	0	7	74LS93N	DIP14a
28♦	SN54293J	TTL	16	1	UP	42M	No	2.0	0.8	70n	0.4	5.0	195m	5	C	74-293N	DIP14a
29♦	SN74293N	TTL	16	1	UP	42M	No	2.0	0.8	70n	0.4	5.0	195m	0	7	74-293N	DIP14a
30♦	DM7281J	TTL	16	1	UP	45M	Yes	2.8	0.4C	45n		5.0	130m†	5	C	74-177N	DIP14a
31♦	DM7281W	TTL	16	1	UP	45M		2.8	0.4C	45n		5.0	130m†	5	C	None	FP97a
32♦	DM8281J	TTL	16	1	UP	45M	Yes	28	0.4C	45n		5.0	130m†	0	7	74-177N	DIP14a
33♦	DM8281N	TTL	16	1	UP	45M	Yes	28	0.4C	45n		5.0	130m†	0	7	74-177N	DIP14a
34♦	DM8281W	TTL	16	1	UP	45M	Yes	28	0.4C	45n		5.0	130m†	0	7	54-177W	FP97a
35♦	DM54177J	TTL	16	1	UP	45M	Yes	2.8	0.4C	45n		5.0	130m†	5	C	74-177N	DIP14a
36♦	DM74177J	TTL	16	1	UP	45M	Yes	2.8	0.4C	45n		5.0	130m†	0	7	74-177N	DIP14a
37♦	DM74177N	TTL	16	1	UP	45M	Yes	2.8	0.4C	45n		5.0	130m†	0	7	74-177N	DIP14a
38♦	DM74177W	TTL	16	1	UP	45M	Yes	2.8	0.4C	45n		5.0	130m†	0	7	54-177W	FP97a
39♦	M54HC161F1(A)	CMS	16	1	UP	45M	Yes	3.15	1.35	33n	1.2	5.0	500m	5	C	74-161	DIP16b
40♦	M54HC163F1(A)	CMS	16	1	UP	45M	Yes	3.15	1.35	33n	1.2	5.0	500m	5	C	74-163	DIP16b
41♦	54LS293DM	TTL	16	1	UP	50M	No	2.0	0.7	70n	300m	5.0	75mQ	5	C	74-293N	TO-116
42♦	54LS293FM	TTL	16	1	UP	50M	No	2.0	0.7	70n	300m	5.0	75mQ	5	C	54-293W	TO-86
43♦	74LS293DC	TTL	16	1	UP	50M	No	2.0	0.8	70n	300m	5.0	75mQ	0	7	74-293N	TO-116
44♦	74LS293PC	TTL	16	1	UP	50M	No	2.0	0.8	70n	300m	5.0	75mQ	0	7	74-293N	TO-116
45♦	DM54197J	TTL	16	1	UP	50M	Yes	2.0	0.8	60n		5.0	150m†	5	C	74-177N	DIP14a
46♦	DM74197N	TTL	16	1	UP	50M	Yes	2.0	0.8	60n		5.0	150m†	0	7	74-177N	DIP14a
47♦	PC54HCT93D(A)	CMS	16	1	UP	50M	No	2.0	0.8	19n	0.7	5.0	500m	5	C	74LS93	DIP14b
48♦	PC74HCT93D(A)	CMS	16	1	UP	50M	No	2.0	0.8	19n	0.7	5.0	500m	4	8	74LS93	DIP14b
49♦	SN74177N	TTL	16	1	UP	50M	Yes	2.0	0.8	75n	0.3	5.0	150m†	0	7	74-177N	DIP14a
50▼	TC74HC161F(A)	CMS	16	1	UP	50M	Yes	3.15	1.35	41n	1.2	5.0	180m	4	8	74-161N	FP167
51▼	TC74HC161P(A)	CMS	16	1	UP	50M	Yes	3.15	1.35	41n	1.2	5.0	500m	4	8	74-161N	DIP16a
52▼	TC74HC163F(A)	CMS	16	1	UP	50M	Yes	3.15	1.35	41n	1.2	5.0	500m	4	8	74LS163N	FP167
53▼	TC74HC163P(A)	CMS	16	1	UP	50M	Yes	3.15	1.35	41n	1.2	5.0	500m	4	8	74LS163N	DIP16a
54♦	M74ALS161AP	TTL	16	1	UP	52M	Yes	2.0	0.8	29n	0.4	5.0	120m	2	7	74-161	DIP16b
55♦	M74LS161AP	TTL	16	1	UP	55M	Yes	2.0	0.8	35n	0.4	5.0	176m	2	7	74-161N	DIP16b
56♦	M74LS163AP	TTL	16	1	UP	55M	Yes	2.0	-0.8	35n	0.4	5.0	176m	2	7	74LS163N	DIP16b
57♦	74LS197DC	TTL	16	1	UP	60M	Yes	2.0	0.8	26n	300m	5.0	100mQ	0	7	74-177N	TO-116
58♦	74LS197PC	TTL	16	1	UP	60M	Yes	2.0	0.8	26n	300m	5.0	100mQ	0	7	74-177N	TO-116
59♦	M74LS93P	TTL	16	1	UP	60M	No	2.0	0.8	70n	0.4	5.0	45m†	2	7	74LS93N	DIP14a
60♦	M74LS293P	TTL	16	1	UP	60M	No	2.0	0.8	70n	0.4	5.0	45m†	2	7	74-293N	DIP14a
61♦	N8291Q	TTL	16	1	UP	60M	Yes	2.6	0.4C			5.0	255m	0	7	E02-48a	TO-88
62♦	PC54HC93D(A)	CMS	16	1	UP	60M	No	3.15	0.9	17n	0.8	5.0	500m	5	C	74LS93	DIP14b
63♦	PC74HC93D(A)	CMS	16	1	UP	60M	No	3.15	0.9	17n	0.8	5.0	500m	4	8	74LS93	DIP14b
64♦	DM54AS161J	TTL	16	1	UP	65M	Yes	2.0	0.8	14n	0.3	5.0		5	C	74-161	DIP16a
65♦	DM54AS163J	TTL	16	1	UP	65M	Yes	2.0	0.8	14n	0.3	5.0		5	C	74-163	DIP16a
66♦	SN54AS161J	TTL	16	1	UP	65M	Yes	2.0	0.8	14n	0.3	5.0		5	C	74-161N	DIP16a
67♦	54197DM	TTL	16	1	UP	70M	Yes	2.0	0.8	63n	400m*	5.0	240m†	5	C	74-177N	TO-116
68♦	54197FM	TTL	16	1	UP	70M	Yes	2.0	0.8	63n	400m*	5.0	240m†	5	C	54-177W	FP52
69♦	74197DC	TTL	16	1	UP	70M	Yes	2.0	0.8	63n	400m*	5.0	240m†	0	7	74-177N	TO-116
70♦	74197PC	TTL	16	1	UP	70M	Yes	2.0	0.8	63n	400m*	5.0	240m†	0	7	74-177N	DIP14 ☑
71♦	DM54S161J	TTL	16	1	UP	70M	Yes	2.0	0.8	24n	0.3	5.0		5	C	54-161	DIP16b
72♦	DM54S163W	TTL	16	1	UP	70M	Yes	2.0	0.8	9.0n	0.3	5.0	475m	5	C	74LS163N	FP98b
73♦	DM74S161N	TTL	16	1	UP	70M	Yes	2.0	0.8	9.0n	0.3	5.0	475m	0	7	74-161N	DIP16a
74♦	DM74S163N	TTL	16	1	UP	70M	Yes	2.0	0.8	9.0n	0.3	5.0	475m	0	7	74LS163N	DIP16a
75♦	SN54S163J	TTL	16	1	UP	70M	Yes	2.0	0.8	25n	0.3	5.0	475m†	5	C	74-163N	DIP16a
76♦	SN74S163D	TTL	16	1	UP	70M	Yes	2.0	0.8	35n	0.3	5.0	475m†	0	7	74-163	FP148
77♦	SN74S163N	TTL	16	1	UP	70M	Yes	2.0	0.8	25n	0.3	5.0	475m†	0	7	74-163N	DIP16a
78♦	SN54197J	TTL	16	1	UP	70M	Yes	2.0	0.8	38n	0.4	5.0	240m†	5	C	74-177N	DIP14a
79♦	SN74197N	TTL	16	1	UP	70M	Yes	2.0	0.8	38n	0.4	5.0	240m†	0	7	74-177N	DIP14a
80♦	DM74AS161J	TTL	16	1	UP	75M	Yes	2.0	0.8	13n	0.3	5.0		0	7	74-161	DIP16a
81♦	DM74AS161N	TTL	16	1	UP	75M	Yes	2.0	0.8	13n	0.3	5.0		0	7	74-161	DIP16a
82♦	DM74AS163J	TTL	16	1	UP	75M	Yes	2.0	0.8	13n	0.3	5.0		0	7	74-163	DIP16a
83♦	DM74AS163N	TTL	16	1	UP	75M	Yes	2.0	0.8	13n	0.3	5.0		0	7	74-163	DIP16a
84▼	SN74AS161D	TTL	16	1	UP	75M	Yes	2.0	0.8	13n	0.3	5.0		0	7	74-161N	FP162
85♦	SN74AS161N	TTL	16	1	UP	75M	Yes	2.0	0.8	13n	0.3	5.0		0	7	74-161N	DIP16a
86▼	SN74AS163D	TTL	16	1	UP	75M	Yes	2.0	0.8	13n	0.3	5.0		0	7	74-163N	FP162
87♦	SN74AS163N	TTL	16	1	UP	75M	Yes	2.0	0.8	13n	0.3	5.0		0	7	74-163N	DIP16a
88♦	DM54S197J	TTL	16	1	UP	80M	Yes	2.0	0.8		0.3	5.0		5	C	E02-110	DIP14b
89♦	M74LS197P	TTL	16	1	UP	80M	Yes	2.0	0.8	95n	0.4	5.0	60m†	2	7	74-177N	DIP14a
90♦	93S16DC	TTL	16	1	UP	100M	Yes	2.0	0.8	14n		5.0	635m	0	7	74-161N	DIP16a
91♦	93S16DM	TTL	16	1	UP	100M	Yes	2.0	0.8	14n		5.0	635m	5	C	74-161N	DIP16a
92♦	93S16FM	TTL	16	1	UP	100M	Yes	2.0	0.8	14n		5.0	635m	5	C	54-161W	FP79b
93♦	93S16PC	TTL	16	1	UP	100M	Yes	2.0	0.8	14n		5.0	635m	0	7	74-161N	DIP16a
94♦	DM74S197N	TTL	16	1	UP	100M	Yes	2.0	0.8	11n	0.3	5.0	375m	0	7	74-177N	DIP14a
95♦	N74S197F	TTL	16	1	UP	100M	Yes	2.6	0.5C		1.0 †	5.0	461m	0	7	74-177N	DIP14b
96♦	SN74S161J	TTL	16	1	UP	100M	Yes	2.0	0.8	14n		5.0	635mQ	0	7	74-161N	DIP16b
97♦	SN74S161N	TTL	16	1	UP	100M	Yes	2.0	0.8	14n		5.0	635mQ	0	7	74-161N	DIP16a
98♦	54F161ADM	TTL	16	1	UP	120M	Yes	2.0	0.8	16n		5.0		5	C	74-163	DIP16b
99♦	54F161AL1M	TTL	16	1	UP	120M	Yes	2.0	0.8	16n		5.0		5	C	E02-211	LC19
100♦	54F161DM	TTL	16	1	UP	120M	Yes	2.0	0.8	7.5n		5.0		5	C	74-161N	DIP16b
101♦	54F161FM	TTL	16	1	UP	120M	Yes	2.0	0.8	7.5n		5.0		5	C	54-161W	FP101
102♦	54F163ADM	TTL	16	1	UP	120M	Yes	2.0	0.8	16n		5.0		5	C	74-163	DIP16b
103♦	54F163AL1M	TTL	16	1	UP	120M	Yes	2.0	0.8	16n		5.0		5	C	E02-211	LC19
104♦	54F163DM	TTL	16	1	UP	120M	Yes	2.0	0.8	7.5n		5.0		5	C	74-163N	DIP16b
105♦	54F163FM	TTL	16	1	UP	120M	Yes	2.0	0.8	7.5n		5.0		5	C	54LS163W	FP101
106♦	74F161ADC	TTL	16	1	UP	120M	Yes	2.0	0.8	15n		5.0		0	7	74-163	DIP16b
107♦	74F161AL1C	TTL	16	1	UP	120M	Yes	2.0	0.8	15n		5.0		0	7	E02-211	LC19
108♦	74F161APC	TTL	16	1	UP	120M	Yes	2.0	0.8	15n		5.0		0	7	74-163	DIP16a
109♦	74F161AQC	TTL	16	1	UP	120M	Yes	2.0	0.8	15n		5.0		0	7	E02-211	LC26
110♦	74F161ASC	TTL	16	1	UP	120M	Yes	2.0	0.8	15n		5.0		0	7	54-163	FP148

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

11. COUNTERS – Binary, Hexadecimal Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	74F161DC	TTL	16	1	UP	120M	Yes	2.0	0.8	7.5n		5.0		0	7	74-161N	DIP16b
2♦	74F161PC	TTL	16	1	UP	120M	Yes	2.0	0.8	7.5n		5.0		0	7	74-161N	DIP16 ☑
3♦	74F163ADC	TTL	16	1	UP	120M	Yes	2.0	0.8	15n		5.0		0	7	74-161	DIP16b
4♦	74F163AL1C	TTL	16	1	UP	120M	Yes	2.0	0.8	15n		5.0		0	7	E02-211	LC19
5♦	74F163APC	TTL	16	1	UP	120M	Yes	2.0	0.8	15n		5.0		0	7	74-161	DIP16a
6♦	74F163AQC	TTL	16	1	UP	120M	Yes	2.0	0.8	15n		5.0		0	7	E02-211	LC26
7♦	74F163ASC	TTL	16	1	UP	120M	Yes	2.0	0.8	15n		5.0		0	7	54-163	FP148
8♦	74F163DC	TTL	16	1	UP	120M	Yes	2.0	0.8	7.5n		5.0		0	7	74-163N	DIP16b
9♦	74F163PC	TTL	16	1	UP	120M	Yes	2.0	0.8	7.5n		5.0		0	7	74-163N	DIP16 ☑
10♦	MC54F161AJ		16	1	UP	120M	Yes	2.0	0.8	15n	0.5	5.0		5	C	54-161W	DIP16a
11▼	MC54F161AN		16	1	UP	120M	Yes	2.0	0.8	15n	0.5	5.0		5	C	54-161W	DIP16a
12♦	MC54F163AJ		16	1	UP	120M	Yes	2.0	0.8	15n	0.5	5.0		5	C	54-163W	DIP16a
13▼	MC54F163AN		16	1	UP	120M	Yes	2.0	0.8	15n	0.5	5.0		5	C	54-163W	DIP16a
14♦	MC74F161AJ		16	1	UP	120M	Yes	2.0	0.8	15n	0.5	5.0		4	8	54-161W	DIP16a
15♦	MC74F161AN		16	1	UP	120M	Yes	2.0	0.8	15n	0.5	5.0		4	8	54-161W	DIP16b
16♦	MC74F163AJ		16	1	UP	120M	Yes	2.0	0.8	15n	0.5	5.0		4	8	54-163W	DIP16a
17♦	MC74F163AN		16	1	UP	120M	Yes	2.0	0.8	15n	0.5	5.0		4	8	54-163W	DIP16b
18♦	N74F161AD(A)	TTL	16	1	UP	120M	Yes	2.0	0.8	11n		5.0		0	7	74-161	FP148
19♦	N74F161AN(A)	TTL	16	1	UP	120M	Yes	2.0	0.8	11n		5.0		0	7	74-161	DIP16a
20♦	N74F163AD(A)	TTL	16	1	UP	120M	Yes	2.0	0.8	11n		5.0		0	7	74LS163N	FP148
21♦	N74F163AN(A)	TTL	16	1	UP	120M	Yes	2.0	0.8	11n		5.0		0	7	74LS163N	DIP16a
22♦	SN54S197J	TTL	16	1	UP	140M	Yes	2.0	0.8	18n	0.3	5.0	375m†	5	C	74-177N	DIP14a
23♦	SN74S197D	TTL	16	1	UP	140M	Yes	2.0	0.8	18n	0.3	5.0	375m†	0	7	74-177	FP147
24♦	SN74S197N	TTL	16	1	UP	140M	Yes	2.0	0.8	18n	0.3	5.0	375m†	0	7	74-177N	DIP14a
25♦	HD10136	ECL	16	1	UP	150M		-1.1	-1.4	12n		-5.2	25m†	3	8	E07-3	DIP16 ☑
26♦	MB10136	ECL	16	1	UP	150M		-1.1	-1.4	3.3n		-5.2	625m†	3	8	E07-3	DIP16b
27♦	MB10136M	ECL	16	1	UP	150M		-1.1	-1.4	3.3n		-5.2	625m†	3	8	E07-3	DIP16b
28▼	MC10136FN	ECL	16	1	UP	150M		-1.1	-1.4	11n		-5.2	780m	3	8	E07-3	DIP16a
29♦	MC10136L	ECL	16	1	UP	150M		-1.1	-1.4	11n		-5.2	780m	3	8	E07-3	DIP16a
30▼	MC10136LD	ECL	16	1	UP	150M		-1.1	-1.4	11n		-5.2	780m	3	8	E07-3	DIP16a
31▼	MC10136LDS	ECL	16	1	UP	150M		-1.1	-1.4	11n		-5.2	780m	3	8	E07-3	DIP16a
32♦	MC10136P	ECL	16	1	UP	150M		-1.1	-1.4	11n		-5.2	780m	3	8	E07-3	DIP16b
33▼	MC10136PD	ECL	16	1	UP	150M		-1.1	-1.4	11n		-5.2	780m	3	8	E07-3	DIP16b
34▼	MC10136PDS	ECL	16	1	UP	150M		-1.1	-1.4	11n		-5.2	780m	3	8	E07-3	DIP16b
35▼	MC10H136FN	ECL	16	1	UP	250M		-1.1	-1.4	3.2n		-5.2	625m†	0	7	E07-3	DIP16a
36♦	MC10H136L	ECL	16	1	UP	250M		-1.1	-1.4	3.2n		-5.2	625m†	0	7	E07-3	DIP16a
37▼	MC10H136LD	ECL	16	1	UP	250M		-1.1	-1.4	3.2n		-5.2	625m†	0	7	E07-3	DIP16a
38▼	MC10H136LDS	ECL	16	1	UP	250M		-1.1	-1.4	3.2n		-5.2	625m†	0	7	E07-3	DIP16a
39♦	MC10H136P	ECL	16	1	UP	250M		-1.1	-1.4	3.2n		-5.2	625m†	0	7	E07-3	DIP16b
40▼	MC10H136PD	ECL	16	1	UP	250M		-1.1	-1.4	3.2n		-5.2	625m†	0	7	E07-3	DIP16b
41▼	MC10H136PDS	ECL	16	1	UP	250M		-1.1	-1.4	3.2n		-5.2	625m†	0	7	E07-3	DIP16b
42♦	HEF4526	CMS	16	1	DOWN		Yes	11	4.0		6.7 †	15	400m	4	8	45-26B	DL ☑
43♦	HEF4526BPN	CMS	16	1	DOWN			11.0	4.0		6.7 †	15	400m	4	8	45-26B	DIP16b
44♦	SCL4526B	CMS	16	1	DOWN	2.0M		3.5Δ	1.0*	415n	3.0	15	100uQ	5	C	45-26B	DIP16a
45♦	MC14526BCL	CMS	16	1	DOWN	3.0M		11	4.0	340n	2.5 *	15	1.2mQ	4	8	45-26B	DIP16a
46▼	MC14526BCLD	CMS	16	1	DOWN	3.0M		11	4.0	340n	2.5 *	15	1.2mQ	4	8	45-26B	DIP16a
47▼	MC14526BCLDS	CMS	16	1	DOWN	3.0M		11	4.0	340n	2.5 *	15	1.2mQ	4	8	45-26B	DIP16a
48▼	MC14526BCLS	CMS	16	1	DOWN	3.0M		11	4.0	340n	2.5 *	15	1.2mQ	4	8	45-26B	DIP16a
49♦	MC14526BCP	CMS	16	1	DOWN	3.0M		11	4.0	340n	2.5 *	15	1.2mQ	4	8	45-26B	DIP16a
50▼	MC14526BCPD	CMS	16	1	DOWN	3.0M		11	4.0	340n	2.5 *	15	1.2mQ	4	8	45-26B	DIP16a
51▼	MC14526BCPDS	CMS	16	1	DOWN	3.0M		11	4.0	340n	2.5 *	15	1.2mQ	4	8	45-26B	DIP16a
52▼	MC14526BCPS	CMS	16	1	DOWN	3.0M		11	4.0	340n	2.5 *	15	1.2mQ	4	8	45-26B	DIP16a
53▼	MC14526BDW	CMS	16	1	DOWN	3.0M		11	4.0	340n	2.5 *	15	1.2mQ	4	8	45-26B	DIP16a
54♦	MC14526BAL	CMS	16	1	DOWN	4.0M		11	4.0	240n	2.5 *	15	300uQ	5	C	45-26B	DIP16a
55▼	MC14526BALD	CMS	16	1	DOWN	4.0M		11	4.0	240n	2.5 *	15	300uQ	5	C	45-26B	DIP16a
56▼	MC14526BALDS	CMS	16	1	DOWN	4.0M		11	4.0	240n	2.5 *	15	300uQ	5	C	45-26B	DIP16a
57▼	MC14526BALS	CMS	16	1	DOWN	4.0M		11	4.0	240n	2.5 *	15	300uQ	5	C	45-26B	DIP16a
58♦	TC4526BP	CMS	16	1	DOWN	5.5M		14.9	.05C	370n	2.5 *	15	300m	4	8	45-26B	DIP16a
59♦	883C4526B	CMS	16	1	DOWN	6.6M		8.2	6.7	240n		15	300m	5	C	45-26B	MO001AG
60♦	BCL4526B	CMS	16	1	DOWN	6.6M		8.2	6.7	240n		15	300m	5	C	45-26B	MO001AG
61♦	CD4526BC	CMS	16	1	DOWN	7.7M		7.0	3.0	50n	4.5 †	15	500m	4	8	45-26B	DL ☑
62♦	CD4526BM	CMS	16	1	DOWN	7.7M		7.0	3.0	50n	4.5 †	15	500m	5	C	45-26B	DL ☑
63♦	HEF4526BD	CMS	16	1	DOWN	25M	No	7.0	3.0	130n	2.9 †	10	500m	4	8	45-26B	DIP16b
64♦	HEF4526BP	CMS	16	1	DOWN	25M	No	7.0	3.0	130n	2.9 †	10	500m	4	8	45-26B	DIP16b
65♦	HEF4526BT	CMS	16	1	DOWN	25M	No	7.0	3.0	130n	2.9 †	10	400m	4	8	45-26B	FP148
66♦	HEF4526BTD	CMS	16	1	DOWN	32M		11.0	4.0	140n	6.7 †	15	200m	4	8	45-26B	FP148
67▼	M54HC191F1	CMS	16	1	UP/DOWN		Yes							5	C	54-191W	DIP16a
68▼	M54HC193F1	CMS	16	1	UP/DOWN			3.15	1.35					5	C	54-193W	DIP16a
69▼	M54HC697F1	CMS	16	1	UP/DOWN			3.15T	1.35			5.0		5	C	74LS697	DIP20c
70▼	M54HC699F1	CMS	16	1	UP/DOWN			3.15T	1.35			5.0		5	C	74LS699	DIP20c
71▼	M74HC191B1	CMS	16	1	UP/DOWN		Yes							4	8	74-191N	DIP16a
72▼	M74HC191C1	CMS	16	1	UP/DOWN		Yes							4	8	E02-212	LC19
73▼	M74HC191F1	CMS	16	1	UP/DOWN		Yes							4	8	74-191N	DIP16a
74▼	M74HC193B1	CMS	16	1	UP/DOWN			3.15	1.35					4	8	74-193N	DIP16a
75▼	M74HC193C1	CMS	16	1	UP/DOWN			3.15	1.35					4	8	E02-213	LC19
76▼	M74HC193F1	CMS	16	1	UP/DOWN			3.15	1.35					4	8	74-193N	DIP16a
77▼	M74HC697B1	CMS	16	1	UP/DOWN			3.15T	1.35			5.0		4	8	74LS697	DIP20c
78▼	M74HC697C1	CMS	16	1	UP/DOWN			3.15T	1.35			5.0		5	C	E03-108	LC19
79▼	M74HC697F1	CMS	16	1	UP/DOWN			3.15T	1.35			5.0		4	8	74LS697	DIP20c
80▼	M74HC699B1	CMS	16	1	UP/DOWN			3.15T	1.35			5.0		4	8	74LS699	DIP20c
81▼	M74HC699C1	CMS	16	1	UP/DOWN			3.15T	1.35			5.0		4	8	E03-108	LC19
82▼	M74HC699F1	CMS	16	1	UP/DOWN			3.15T	1.35			5.0		4	8	74LS699	DIP20c
83♦	M74LS669P	TTL	16	1	UP/DOWN		Yes	2.0	0.8	60n	0.3	5.0	178m	2	7	74S169N	DIP16b
84♦	M53393P	TTL	16	1	UP/DOWN		Yes	2.0	0.8		1.0 †	5.0		0	7	74-193N	DIP16a
85♦	MC54HC191J(A)	CMS	16	1	UP/DOWN		Yes	3.15	0.9		1.3	5.0	500m	5	C	74-191	DIP16a
86♦	MC54HC193J	CMS	16	1	UP/DOWN		Yes	3.15	0.9		1.3	5.0	500m	5	C	74-193	DIP16a
87♦	MC74HC191J(A)	CMS	16	1	UP/DOWN		Yes	3.15	0.9		1.3	5.0	500m	4	8	74-191	DIP16a
88♦	MC74HC191N(A)	CMS	16	1	UP/DOWN		Yes	3.15	0.9		1.3	5.0	500m	4	8	74-191	DIP16b
89♦	MC74HC193J(A)	CMS	16	1	UP/DOWN		Yes	3.15	0.9		1.3	5.0	500m	4	8	74-193	DIP16a
90♦	MC74HC193N(A)	CMS	16	1	UP/DOWN		Yes	3.15	0.9		1.3	5.0	500m	4	8	74-193	DIP16b
91♦	N8284Q	TTL	16	1	UP/DOWN			2.6	0.4C			5.0	420m	0	7	E02-51	TO-88
92♦	MSM4029RS	CMS	16	1	UP/DOWN	1.5M	No	3.6	1.0	800n	0.6	16	200m	4	8	40-29B	DIP16 ☑
93♦	MSM4516RS	CMS	16	1	UP/DOWN	1.5M	Yes	3.6	1.0	800n	0.6	16	200m	4	8	45-16B	DIP16 ☑
94♦	M4029BP	CMS	16	1	UP/DOWN	2.5M	Yes	11.0	4.0	400n	4.0	15	0.5	4	8	40-29B	DIP16b
95♦	TC4029BP	CMS	16	1	UP/DOWN	2.5M	Yes	14.9	.05C	400n	4.0	15	300m	4	8	40-29B	DIP16a
96♦	M4516BP	CMS	16	1	UP/DOWN	3.0M	Yes	11	4.0	600n	4.0	15	0.5	4	8	45-16B	DIP16b
97♦	TC4516BP	CMS	16	1	UP/DOWN	3.0M	Yes	14.9	.05C	250n	4.0	15	300m	4	8	45-16B	DIP16a
98♦	CD4516BD	CMS	16	1	UP/DOWN	4.0M	Yes	7.0	3.0	200n	2.9	18	500m	5	C	45-16B	MO001AE
99♦	CD4516BE	CMS	16	1	UP/DOWN	4.0M	Yes	7.0	3.0	200n	2.9	18	500m	4	8	45-16B	MO001AC
100♦	CD4516BF	CMS	16	1	UP/DOWN	4.0M	Yes	7.0	3.0	200n	2.9	18	500m	5	C	45-16B	MO001AC
101♦	CD4516BK	CMS	16	1	UP/DOWN	4.0M	Yes	7.0	3.0	200n	2.9	18	500m	5	C	45-16B	MO004AG
102♦	MM54C193D	CMS	16	1	UP/DOWN	4.0M	Yes	3.5	1.5	250n	450m†	15	500m	5	C	74-193N	DIP16b
103♦	MM74C193N	CMS	16	1	UP/DOWN	4.0M	Yes	3.5	1.5	250n	450m†	15	500m	0	7	74-193N	DIP16a
104♦	SCL4193B	CMS	16	1	UP/DOWN	4.0M	Yes	3.5Δ	1.0*	250n		15	300m	5	C	74-193N	MO001AG
105♦	SCL4516B	CMS	16	1	UP/DOWN	4.0M	Yes	3.5Δ	1.0*	200n	3.0	15	100uQ	5	C	45-16B	DIP16a
106♦	CD4029BCJ	CMS	16	1	UP/DOWN	4.5M	Yes	11	4.0	220n	6.7 †	15	1.2mQ	4	8	40-29B	DIP16a
107♦	CD4029BCN	CMS	16	1	UP/DOWN	4.5M	Yes	11	4.0	220n	6.7 †	15	1.2mQ	4	8	40-29B	DIP16a
108♦	CD4029BMJ	CMS	16	1	UP/DOWN	4.5M	Yes	11	4.0	220n	6.7 †	15	300uQ	5	C	40-29B	DIP16a
109♦	CD4029BMW	CMS	16	1	UP/DOWN	4.5M	Yes	11	4.0	220n	6.7 †	15	300uQ	5	C	40-29B	FP88c
110♦	40193BDC	CMS	16	1	UP/DOWN	5.0M	Yes	11	4.0	270n	6.7 †	15	9.0mQ	4	8	74-193N	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. COUNTERS - Binary, Hexadecimal Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODULUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	40193BDM	CMS	16	1	UP/DOWN	5.0M	Yes	11	4.0	270n	6.7 †	15	9.0mQ	5	C	74-193N	DIP16a
2♦	40193BFC	CMS	16	1	UP/DOWN	5.0M	Yes	11	4.0	270n	6.7 †	15	9.0mQ	4	8	54-193W	FP103
3♦	40193BFM	CMS	16	1	UP/DOWN	5.0M	Yes	11	4.0	270n	6.7 †	15	9.0mQ	5	C	54-193W	FP103
4♦	40193BPC	CMS	16	1	UP/DOWN	5.0M	Yes	11	4.0	270n	6.7 †	15	9.0mQ	4	8	74-193N	None
5♦	CD4029AD	CMS	16	1	UP/DOWN	5.0M	Yes	9.95	0.05C	300n		15	500m	5	C	40-29B	MO001AE
6♦	CD4029AE	CMS	16	1	UP/DOWN	5.0M	Yes	9.95	0.05C	600n		15	500m	4	8	40-29B	MO001AC
7♦	CD4029AF	CMS	16	1	UP/DOWN	5.0M	Yes	9.95	0.05C	300n		15	500m	5	C	40-29B	MO001AC
8♦	CD4516BCJ	CMS	16	1	UP/DOWN	5.0M	Yes	11	4.0	200n	6.7 †	15	1.2mQ	4	8	45-16B	DIP16a
9♦	CD4516BCN	CMS	16	1	UP/DOWN	5.0M	Yes	11	4.0	200n	6.7 †	15	1.2mQ	4	8	45-16B	DIP16a
10♦	CD4516BMJ	CMS	16	1	UP/DOWN	5.0M	Yes	11	4.0	200n	6.7 †	15	300uQ	5	C	45-16B	DIP16a
11♦	CD4516BMW	CMS	16	1	UP/DOWN	5.0M	Yes	11	4.0	200n	6.7 †	15	300uQ	5	C	45-16B	FP88c
12♦	CM4029AD		16	1	UP/DOWN	5.0M	Yes	10	0C	300n	4.5 †	10	200m	5	C	40-29B	DIP16a
13♦	CM4029AE		16	1	UP/DOWN	5.0M	Yes	10	0C	600n	4.5 †	10	200m	4	8	40-29B	DIP16a
14♦	HBC4029AD	CMS	16	1	UP/DOWN	5.0M	Yes	10	0C	300n	4.5 †	10	100uQ	5	C	40-29B	MO001AE
15♦	HBC4029AF	CMS	16	1	UP/DOWN	5.0M	Yes	10	0C	300n	4.5 †	10	100uQ	5	C	40-29B	MO001AE
16♦	HBC4029AK	CMS	16	1	UP/DOWN	5.0M	Yes	10	0C	300n	4.5 †	10	100uQ	5	C	40-29B	MO004AG
17♦	HBF4029AE	CMS	16	1	UP/DOWN	5.0M	Yes	10	0C	600n	4.5 †	10	1.0mQ	4	8	40-29B	MO001AC
18♦	HBF4029AF	CMS	16	1	UP/DOWN	5.0M	Yes	10	0C	600n	4.5 †	10	1.0mQ	4	8	40-29B	MO001AE
19♦	MSM40193	CMS	16	1	UP/DOWN	5.0M	Yes	7.2	2.0	500n	2.0 *	10	1.4mQ	2	7	74-193N	DIP16a
20♦	SFF24029AEV	CMS	16	1	UP/DOWN	5.0M	Yes	9.99	.01C	460n	3.0 *	10	200m	4	8	40-29B	DIP16a
21♦	SFF24029AKM	CMS	16	1	UP/DOWN	5.0M	Yes	9.99	.01C	230n	3.0 *	10	200m	5	C	40-29B	DIP16a
22♦	TC40H193P	CMS	16	1	UP/DOWN	5.0M	Yes	4.0	1.0	135n	1.0	5.0	300m	4	8	74-193N	DIP16a
23♦	4029BDC	CMS	16	1	UP/DOWN	6.0M	Yes	11	4.0	196n	6.7 †	15	9.0mQ	4	8	40-29B	DIP16a
24♦	4029BDM	CMS	16	1	UP/DOWN	6.0M	Yes	11	4.0	196n	6.7 †	15	9.0mQ	5	C	40-29B	DIP16a
25♦	4029BFC	CMS	16	1	UP/DOWN	6.0M	Yes	11	4.0	196n	6.7 †	15	9.0mQ	4	8	40-29B	FP103
26♦	4029BFM	CMS	16	1	UP/DOWN	6.0M	Yes	11	4.0	196n	6.7 †	15	9.0mQ	5	C	40-29B	FP103
27♦	4029BPC	CMS	16	1	UP/DOWN	6.0M	Yes	11	4.0	196n	6.7 †	15	9.0mQ	4	8	40-29B	None
28♦	4516BDC	CMS	16	1	UP/DOWN	6.0M	Yes	11	4.0	196n	6.7 †	15	9.0mQ	4	8	45-16B	DIP16a
29♦	4516BDM	CMS	16	1	UP/DOWN	6.0M	Yes	11	4.0	196n	6.7 †	15	9.0mQ	5	C	45-16B	DIP16a
30♦	4516BFC	CMS	16	1	UP/DOWN	6.0M	Yes	11	4.0	196n	6.7 †	15	9.0mQ	4	8	45-16B	FP103
31♦	4516BFM	CMS	16	1	UP/DOWN	6.0M	Yes	11	4.0	196n	6.7 †	15	9.0mQ	5	C	45-16B	FP103
32♦	4516BPC	CMS	16	1	UP/DOWN	6.0M	Yes	11	4.0	196n	6.7 †	15	9.0mQ	4	8	45-16B	None
33♦	SCL4029B	CMS	16	1	UP/DOWN	6.0M	Yes	3.5Δ	1.0*	250n	3.0	15	100uQ	5	C	40-29B	DIP16a
34♦	TC40193BP	CMS	16	1	UP/DOWN	7.0M	Yes	14.9	.05C	300n	2.5 *	15	300m	4	8	74-193N	DIP16a
35♦	CD40193BCJ	CMS	16	1	UP/DOWN	7.5M	Yes	11	4.0	150n	6.7 †	15	1.2mQ	4	8	74-193N	DIP16a
36♦	CD40193BCN	CMS	16	1	UP/DOWN	7.5M	Yes	11	4.0	150n	6.7 †	15	1.2mQ	4	8	74-193N	DIP16a
37♦	CD40193BMJ	CMS	16	1	UP/DOWN	7.5M	Yes	11	4.0	150n	6.7 †	15	300uQ	5	C	74-193N	DIP16a
38♦	CD40193BMW	CMS	16	1	UP/DOWN	7.5M	Yes	11	4.0	150n	6.7 †	15	300uQ	5	C	54-193W	FP88c
39♦	CD4029BD	CMS	16	1	UP/DOWN	8.0M	Yes	7.0	3.0	240n	2.9	20	500m	5	C	40-29B	MO001AE
40♦	CD4029BE	CMS	16	1	UP/DOWN	8.0M	Yes	7.0	3.0	240n	2.9	20	500m	4	8	40-29B	MO001AC
41♦	CD4029BF	CMS	16	1	UP/DOWN	8.0M	Yes	7.0	3.0	240n	2.9	20	500m	5	C	40-29B	MO001AC
42♦	CD40193BD	CMS	16	1	UP/DOWN	8.0M	Yes	7.0	3.0	240n	2.9	20	500m	5	C	74-193N	MO001AD
43♦	CD40193BE	CMS	16	1	UP/DOWN	8.0M	Yes	7.0	3.0	240n	2.9	20	500m	4	8	74-193N	MO001AB
44♦	CD40193BF	CMS	16	1	UP/DOWN	8.0M	Yes	7.0	3.0	240n	2.9	20	500m	5	C	74-193N	MO001AB
45♦	HEF40193P	CMS	16	1	UP/DOWN	8.0M	Yes	7.0	3.0	30n		10	1.0mQ	4	8	74-193N	DIP16a
46♦	MC14516BAL	CMS	16	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *	15		5	C	45-16B	DIP16a
47▼	MC14516BALD	CMS	16	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *	15		5	C	45-16B	DIP16a
48▼	MC14516BALDS	CMS	16	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *	15		5	C	45-16B	DIP16a
49▼	MC14516BALS	CMS	16	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *	15		5	C	45-16B	DIP16a
50♦	MC14516BCL	CMS	16	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *	15		4	8	45-16B	DIP16a
51▼	MC14516BCLD	CMS	16	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *	15		4	8	45-16B	DIP16a
52▼	MC14516BCLDS	CMS	16	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *	15		4	8	45-16B	DIP16a
53♦	MC14516BCP	CMS	16	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *	15		4	8	45-16B	DIP16a
54▼	MC14516BCPD	CMS	16	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *	15		4	8	45-16B	DIP16a
55▼	MC14516BCPDS	CMS	16	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *	15		4	8	45-16B	DIP16a
56▼	MC14516BCPS	CMS	16	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *	15		4	8	45-16B	DIP16a
57▼	MC14516BD	CMS	16	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *	15		4	8	45-16B	DIP16a
58♦	UPD4516BG	CMS	16	1	UP/DOWN	8.0M	Yes	11.0	4.0	300n	3.9	15	200m	4	8	45-16B	FP162
59♦	MC14029BAL	CMS	16	1	UP/DOWN	10M	Yes	11	4.0	180n		15	300uQ	5	C	40-29B	DIP16a
60▼	MC14029BALD	CMS	16	1	UP/DOWN	10M	Yes	11	4.0	180n		15	300uQ	5	C	40-29B	DIP16a
61▼	MC14029BALDS	CMS	16	1	UP/DOWN	10M	Yes	11	4.0	180n		15	300uQ	5	C	40-29B	DIP16a
62▼	MC14029BALS	CMS	16	1	UP/DOWN	10M	Yes	11	4.0	180n		15	300uQ	5	C	40-29B	DIP16a
63♦	MC14029BCL	CMS	16	1	UP/DOWN	10M	Yes	11	4.0	180n		15	1.2mQ	4	8	40-29B	DIP16a
64▼	MC14029BCLD	CMS	16	1	UP/DOWN	10M	Yes	11	4.0	180n		15	1.2mQ	4	8	40-29B	DIP16a
65▼	MC14029BCLDS	CMS	16	1	UP/DOWN	10M	Yes	11	4.0	180n		15	1.2mQ	4	8	40-29B	DIP16a
66▼	MC14029BCLS	CMS	16	1	UP/DOWN	10M	Yes	11	4.0	180n		15	1.2mQ	4	8	40-29B	DIP16a
67♦	MC14029BCP	CMS	16	1	UP/DOWN	10M	Yes	11	4.0	180n		15	1.2mQ	4	8	40-29B	DIP16a
68▼	MC14029BCPD	CMS	16	1	UP/DOWN	10M	Yes	11	4.0	180n		15	1.2mQ	4	8	40-29B	DIP16a
69▼	MC14029BCPDS	CMS	16	1	UP/DOWN	10M	Yes	11	4.0	180n		15	1.2mQ	4	8	40-29B	DIP16a
70▼	MC14029BCPS	CMS	16	1	UP/DOWN	10M	Yes	11	4.0	180n		15	1.2mQ	4	8	40-29B	DIP16a
71▼	MC14029BD	CMS	16	1	UP/DOWN	10M	Yes	11	4.0	180n		15	1.2mQ	4	8	40-29B	DIP16a
72♦	UPD4029BG	CMS	16	1	UP/DOWN	10M	Yes	11.0	4.0	210n	3.9	20	200m	4	8	40-29B	FP162
73♦	883C4029B	CMS	16	1	UP/DOWN	11M	Yes	8.2	6.7	180n		15	300m	5	C	40-29B	MO001AG
74♦	883C4193B	CMS	16	1	UP/DOWN	11M	Yes	8.2	6.7	180n		15	300m	5	C	74-193N	MO001AG
75♦	883C4516B	CMS	16	1	UP/DOWN	11M	Yes	8.2	6.7	150n		15	300m	5	C	45-16B	MO001AG
76♦	BCL4029B	CMS	16	1	UP/DOWN	11M	Yes	8.2	6.7	180n		15	300m	5	C	40-29B	MO001AG
77♦	BCL4193B	CMS	16	1	UP/DOWN	11M	Yes	8.2	6.7	180n		15	300m	5	C	74-193N	MO001AG
78♦	BCL4516B	CMS	16	1	UP/DOWN	11M	Yes	8.2	6.7	150n		15	300m	5	C	45-16B	MO001AG
79♦	HCC4029BD	CMS	16	1	UP/DOWN	11M	Yes	11	4.0	180n	4.0 *	15	500m	5	C	40-29B	DIP16a
80♦	HCC4029BF	CMS	16	1	UP/DOWN	11M	Yes	11	4.0	180n	4.0 *	15	500m	5	C	40-29B	DIP16a
81♦	HCC4029BK	CMS	16	1	UP/DOWN	11M	Yes	11	4.0	180n	4.0 *	15	500m	5	C	40-29B	FP131
82♦	HCC4516BD	CMS	16	1	UP/DOWN	11M	Yes	11	4.0	150n	2.5 *	20	200m	5	C	45-16B	DIP16a
83♦	HCC4516BF	CMS	16	1	UP/DOWN	11M	Yes	11	4.0	150n	2.5 *	20	200m	5	C	45-16B	DIP16a
84♦	HCC4516BK	CMS	16	1	UP/DOWN	11M	Yes	11	4.0	150n	2.5 *	20	200m	5	C	45-16B	FP131
85♦	HCF4029BE	CMS	16	1	UP/DOWN	11M	Yes	11	4.0	180n	4.0 *	15	500m	4	8	40-29B	DIP16a
86♦	HCF4029BF	CMS	16	1	UP/DOWN	11M	Yes	11	4.0	180n	4.0 *	15	500m	4	8	40-29B	DIP16a
87♦	HCF4516BE	CMS	16	1	UP/DOWN	11M	Yes	11	4.0	150n	2.5 *	20	200m	4	8	45-16B	DIP16a
88♦	HCF4516BF	CMS	16	1	UP/DOWN	11M	Yes	11	4.0	150n	2.5 *	20	200m	4	8	45-16B	DIP16a
89♦	DM54L193J	TTL	16	1	UP/DOWN	12M	Yes	2.0	0.7	150n		5.0	40m†	5	C	74-193N	DIP16a
90♦	DM74L193N	TTL	16	1	UP/DOWN	12M	Yes	2.0	0.7	150n		5.0	40m†	0	7	74-193N	DIP16a
91♦	DM85L63N	TTL	16	1	UP/DOWN	12M	Yes	2.0	0.7	60n	0.3		40m	0	7	74-193N	DIP16a
92♦	HEF4029B	CMS	16	1	UP/DOWN	12M	Yes	9.95	.05C	90n		10	100uQ	4	8	40-29B	DIP16b
93♦	HEF4029P	CMS	16	1	UP/DOWN	12M	Yes	7.0	3.0	100n		10	1.0mQ	4	8	40-29B	DIP16a
94♦	HEF4516B	CMS	16	1	UP/DOWN	12M	Yes	9.95	.05C	170n		10	100uQ	4	8	45-16B	DIP16b
95♦	CD54HC191F	CMS	16	1	UP/DOWN	13M	Yes	3.15	1.35	66n	1.0	5.0	500m	5	C	74-191N	MO001AG
96♦	CD54HC193F	CMS	16	1	UP/DOWN	13M	Yes	3.85	1.10	65n	1.0	5.0	500m	5	C	74-193N	MO001AG
97♦	CD54HCT191F	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	66n	2.4	5.0	500m	5	C	74-191N	MO001AG
98♦	CD54HCT193F	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	65n	2.4	5.0	500m	5	C	74-193N	MO001AG
99♦	HEF40193	CMS	16	1	UP/DOWN	13M	Yes	11	4.0	205n	6.7 †	15	400m	4	8	74-193N	DL Ø
100♦	HEF40193BPN	CMS	16	1	UP/DOWN	13M	Yes	11.0	4.0	205n	6.7 †	15	400m	4	8	74-193N	DIP16b
101▼	IDT54AHCT191DB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	22n	2.4	5.0	5.0uQ	5	C	74-191N	DIP16a
102▼	IDT54AHCT191EB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	22n	2.4	5.0	5.0uQ	5	C	74-191N	FP183
103▼	IDT54AHCT191LB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	22n	2.4	5.0	5.0uQ	5	C	74-191N	LC19
104▼	IDT54AHCT193DB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	19n	2.4	5.0	5.0uQ	5	C	74-193N	DIP16a
105▼	IDT54AHCT193EB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	19n	2.4	5.0	5.0uQ	5	C	74-193N	FP183
106▼	IDT54AHCT193LB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	19n	2.4	5.0	5.0uQ	5	C	74-193N	LC19
107▼	IDT54FCT191A	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	66n	2.4	5.0	500m	5	C	74-191N	MO001AG
108▼	IDT54FCT191ADB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	10.5n	2.4	5.0	5.0uQ	5	C	74-191N	DIP16a
109▼	IDT54FCT191AEB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	10.5n	2.4	5.0	5.0uQ	5	C	74-191N	FP183
110▼	IDT54FCT191ALB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	10.5n	2.4	5.0	5.0uQ	5	C	74-191N	LC19

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

11. COUNTERS - Binary, Hexadecimal Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODULUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	IDT54FCT191DB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	16.0n	2.4	5.0	5.0uQ	5	C	74-191N	DIP16a
2▼	IDT54FCT191EB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	16.0n	2.4	5.0	5.0uQ	5	C	74-191N	FP183
3▼	IDT54FCT191LB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	16.0n	2.4	5.0	5.0uQ	5	C	74-191N	LC19
4▼	IDT54FCT193A	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	65n	2.4	5.0	500m	5	C	74-193N	MO001AG
5▼	IDT54FCT193ADB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	6.9n	2.4	5.0	5.0uQ	5	C	74-193N	DIP16a
6▼	IDT54FCT193AEB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	6.9n	2.4	5.0	5.0uQ	5	C	74-193N	FP183
7▼	IDT54FCT193ALB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	6.9n	2.4	5.0	5.0uQ	5	C	74-193N	LC19
8▼	IDT54FCT193DB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	10.5n	2.4	5.0	5.0uQ	5	C	74-193N	DIP16a
9▼	IDT54FCT193EB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	10.5n	2.4	5.0	5.0uQ	5	C	74-193N	FP183
10▼	IDT54FCT193LB	CMS	16	1	UP/DOWN	13M	Yes	2.00	0.80	10.5n	2.4	5.0	5.0uQ	5	C	74-193N	LC19
11♦	MM54HC193J	CMS	16	1	UP/DOWN	13M	Yes	4.2	1.2	74n	1.7	5.0	500m	5	C	54-193W	DIP16a
12♦	PC74HC191P	CMS	16	1	UP/DOWN	13M	Yes	3.15	1.35	66n	0.8	5.0	500m	4	C	74-191	DIP16b
13♦	PC74HC191T	CMS	16	1	UP/DOWN	13M	Yes	3.15	1.35	66n	0.8	5.0	300m	4	C	74-191	FP148
14♦	PC74HCT191P	CMS	16	1	UP/DOWN	13M	Yes	2.0	0.8	66n	0.7	5.0	500m	4	C	74-191	DIP16b
15♦	PC74HCT191T	CMS	16	1	UP/DOWN	13M	Yes	2.0	0.8	66n	0.7	5.0	300m	4	C	74-191	FP148
16♦	PC74HCT193P	CMS	16	1	UP/DOWN	13M	Yes	2.0	0.8	65n	0.7	5.0	500m	4	C	74-193	DIP16b
17♦	PC74HCT193T	CMS	16	1	UP/DOWN	13M	Yes	2.0	1.35	65n	0.7	5.0	300m	4	C	74-193	FP148
18♦	HEF4516BD	CMS	16	1	UP/DOWN	14M	Yes	7.0	3.0	120n		10	500m	4	8	45-16B	DIP16b
19♦	HEF4516BP	CMS	16	1	UP/DOWN	14M	Yes	7.0	3.0	120n		10	500m	4	8	45-16B	DIP16b
20♦	HEF4516BT	CMS	16	1	UP/DOWN	14M	Yes	7.0	3.0	120n		10	400m	4	8	45-16B	FP148
21♦	HEF40193BD	CMS	16	1	UP/DOWN	14M	Yes	7.0	3.0	165n	2.9 †	10	500m	4	8	74-193N	DIP16b
22♦	HEF40193BP	CMS	16	1	UP/DOWN	14M	Yes	7.0	3.0	165n	2.9 †	10	500m	4	8	74-193N	DIP16b
23♦	HEF40193BT	CMS	16	1	UP/DOWN	14M	Yes	7.0	3.0	165n	2.9 †	10	400m	4	8	54-193W	FP148
24♦	SN54HC191J	CMS	16	1	UP/DOWN	14M	Yes	3.15	0.9	72n	1.2	5.0		5	C	74-191N	DIP16a
25♦	SN54HC193J	CMS	16	1	UP/DOWN	14M	Yes	3.15	0.90	78n	1.2	5.0		5	C	74-193N	DIP16a
26♦	MM54HC191J(A)	CMS	16	1	UP/DOWN	15M	Yes	4.2	1.2	73n	1.7	5.0	500m	5	C	74-191N	DIP16a
27♦	74HCT191D	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	55n	0.7	5.0		4		74-191	FP162
28♦	74HCT191N	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	55n	0.7	5.0		4		74-191	DIP16b
29♦	74HCT193D	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	58n	0.7	5.0		4		74-193	FP162
30♦	74HCT193N	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	58n	0.7	5.0		4		74-193	DIP16b
31♦	CD74HC191E	CMS	16	1	UP/DOWN	16M	Yes	3.15	1.35	55n	1.0	5.0	500m	4	8	74-191N	DIP16b
32♦	CD74HC191M	CMS	16	1	UP/DOWN	16M	Yes	3.15	1.35	55n	1.7	5.0	300m	4	8	54-191	FP148
33♦	CD74HC193E	CMS	16	1	UP/DOWN	16M	Yes	3.85	1.10	54n	1.0	5.0	500m	4	8	74-193N	DIP16b
34♦	CD74HC193M	CMS	16	1	UP/DOWN	16M	Yes	3.15	1.35	54n	1.7	5.0	300m	4	8	54-193	FP148
35♦	CD74HCT191E	CMS	16	1	UP/DOWN	16M	Yes	2.00	0.80	55n	2.4	5.0	500m	4	8	74-191N	DIP16b
36♦	CD74HCT191M	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	55n	2.4	5.0	300m	4	8	54-191	FP148
37♦	CD74HCT193E	CMS	16	1	UP/DOWN	16M	Yes	2.00	0.80	54n	2.4	5.0	500m	4	8	74-193N	DIP16b
38♦	CD74HCT193M	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	54n	2.4	5.0	300m	4	8	54-193	FP148
39▼	HD74HC193FP	CMS	16	1	UP/DOWN	16M	Yes	3.15	1.35	21n	1.2	5.0	500m	4	8	74-193N	FP162
40▼	HD74HC193P	CMS	16	1	UP/DOWN	16M	Yes	3.15	1.35	21n	1.2	5.0	500m	4	8	74-193N	DIP16a
41▼	IDT74AHCT191D	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	18n	0.7	5.0	5.0uQ	0	7	74-191	DIP16a
42▼	IDT74AHCT191L	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	18n	0.7	5.0	5.0uQ	0	7	74-191	LC19
43▼	IDT74AHCT193D	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	16n	0.7	5.0	5.0uQ	0	7	74-193	DIP16a
44▼	IDT74AHCT193L	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	16n	0.7	5.0	5.0uQ	0	7	74-193	LC19
45▼	IDT74FCT191A	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	55n	0.7	5.0		4		74-191	FP162
46▼	IDT74FCT191AD	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	7.8n	0.7	5.0	5.0uQ	0	7	74-191	DIP16a
47▼	IDT74FCT191AL	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	7.8n	0.7	5.0	5.0uQ	0	7	74-191	LC19
48▼	IDT74FCT191D	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	12.0n	0.7	5.0	5.0uQ	0	7	74-191	DIP16a
49▼	IDT74FCT191L	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	12.0n	0.7	5.0	5.0uQ	0	7	74-191	LC19
50▼	IDT74FCT193A	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	58n	0.7	5.0		4		74-193	FP162
51▼	IDT74FCT193AD	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	6.5n	0.7	5.0	5.0uQ	0	7	74-193	DIP16a
52▼	IDT74FCT193AL	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	6.5n	0.7	5.0	5.0uQ	0	7	74-193	LC19
53▼	IDT74FCT193D	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	10.0n	0.7	5.0	5.0uQ	0	7	74-193	DIP16a
54▼	IDT74FCT193L	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	10.0n	0.7	5.0	5.0uQ	0	7	74-193	LC19
55▼	IDT74SHCT191	CMS	16	1	UP/DOWN	16M	Yes	2.0	0.8	55n	0.7	5.0		4		74-191	FP162
56♦	MM74HC193J	CMS	16	1	UP/DOWN	16M	Yes	4.2	1.2	61n	1.7	5.0	500m	4	8	74-193N	DIP16a
57♦	MM74HC193N	CMS	16	1	UP/DOWN	16M	Yes	4.2	1.2	61n	1.7	5.0	500m	4	8	74-193N	DIP16a
58♦	HEF4516	CMS	16	1	UP/DOWN	17M	Yes	11	4.0	150n	6.7 †	15	400m	4	8	45-16B	DL ☑
59♦	HEF4516BPN	CMS	16	1	UP/DOWN	17M	Yes	11.0	4.0	150n	6.7 †	15	400m	4	8	45-16B	DIP16b
60♦	SN74HC191N	CMS	16	1	UP/DOWN	17M	Yes	3.15	0.90	60n	1.2	5.0		4	8	74-191N	DIP16a
61♦	SN74HC193N	CMS	16	1	UP/DOWN	17M	Yes	3.15	0.90	65n	1.2	5.0		4	8	74-193N	DIP16a
62♦	HEF4029	CMS	16	1	UP/DOWN	18M	Yes	11	4.0	140n	6.7 †	15	400m	4	8	40-29B	DL ☑
63♦	HEF4029BPN	CMS	16	1	UP/DOWN	18M	Yes	11.0	4.0	140n	6.7 †	15	400m	4	8	40-29B	DIP16b
64♦	MM74HC191J(A)	CMS	16	1	UP/DOWN	18M	Yes	4.2	1.2	61n	1.7	5.0	500m	4	8	74-191N	DIP16a
65♦	MM74HC191N(A)	CMS	16	1	UP/DOWN	18M	Yes	4.2	1.2	61n	1.7	5.0	500m	4	8	74-191N	DIP16a
66♦	74HC191D	CMS	16	1	UP/DOWN	19M	Yes	3.15	1.35	47n	1.2	5.0		4		74-191	FP162
67♦	74HC191N	CMS	16	1	UP/DOWN	19M	Yes	3.15	1.35	47n	1.2	5.0		4		74-191	DIP16b
68♦	74HC193D	CMS	16	1	UP/DOWN	19M	Yes	3.15	1.35	47n	1.2	5.0		4		74-193	FP162
69♦	74HC193N	CMS	16	1	UP/DOWN	19M	Yes	3.15	1.35	47n	1.2	5.0		4		74-193	DIP16b
70♦	AM25LS2569DC	TTL	16	1	UP/DOWN	20M	Yes	2.0	0.8	45n	300m*	5.0	225m	0	7	74LS569N	DIP20b
71♦	AM25LS2569PC	TTL	16	1	UP/DOWN	20M	Yes	2.0	0.8	45n	300m*	5.0	225m	0	7	74LS569N	DIP20b
72♦	CD54HCT4516F	CMS	16	1	UP/DOWN	20M	Yes	2.0	0.8	75n	2.4	5.0	500m	5	C	45-16	MO001AC
73▼	HD74HC191FP	CMS	16	1	UP/DOWN	20M	Yes	3.15	1.35	22n	1.2	5.0	500m	4	8	74-191N	FP162
74▼	HD74LS191G	TTL	16	1	UP/DOWN	20M	Yes	2.0	0.8	52n	300m	5.0	400m	2	7	74-191N	DIP14a
75♦	HD74LS191P	TTL	16	1	UP/DOWN	20M	Yes	2.0	0.8	33n	300m	5.0	400m	2	7	74-191N	DIP14a
76♦	MB74LS191	TTL	16	1	UP/DOWN	20M	Yes	2.0	0.8	50n		5.0	175m	2	7	74-191N	DIP16a
77♦	MB74LS191M	TTL	16	1	UP/DOWN	20M		2.0	0.8	50n		5.0	175m	2	7	None	DIP16b
78♦	N74LS191D	TTL	16	1	UP/DOWN	20M	Yes	2.0	0.8	40n	0.3	5.0	175m	0	7	74-191N	FP148
79♦	N74LS191N	TTL	16	1	UP/DOWN	20M	Yes	2.0	0.8	40n	0.3	5.0	175m	0	7	74-191N	DIP16a
80♦	N74191F	TTL	16	1	UP/DOWN	20M	Yes	2.0	0.8	52n	1.0 †	5.0	525m	0	7	74-191N	DIP16b
81♦	N74191N	TTL	16	1	UP/DOWN	20M	Yes	2.0	0.8	50n	0.4	5.0	525m	0	7	74-191N	DIP16a
82♦	S54LS191F	TTL	16	1	UP/DOWN	20M	Yes	2.0	0.7	40n	0.3	5.0	175m	5	C	74-191N	DIP16b
83♦	S54LS191W	TTL	16	1	UP/DOWN	20M	Yes	2.0	0.7	40n	0.3	5.0	175m	5	C	54-191W	FP154
84♦	S54191F	TTL	16	1	UP/DOWN	20M	Yes	2.0	0.8	50n	0.4	5.0	525m	5	C	74-191N	DIP16b
85♦	S54191W	TTL	16	1	UP/DOWN	20M	Yes	2.0	0.8	50n	0.4	5.0	525m	5	C	54-191W	FP154
86♦	SN54ALS193J	TTL	16	1	UP/DOWN	20M	Yes	2.0	0.7	38n	300m	5.0		5	C	74-193N	DIP16a
87♦	SN54LS697J	TTL	16	1	UP/DOWN	20M		2.0T	0.7	40n	0.3	5.0		5	C	74LS697	DIP20b
88♦	SN54LS699J	TTL	16	1	UP/DOWN	20M		2.0T	0.7	40n	0.3	5.0		5	C	74LS699	DIP20b
89♦	SN74LS697DW	TTL	16	1	UP/DOWN	20M		2.0T	0.8	40n	0.4	5.0		0	7	74LS697	FP169
90♦	SN74LS697N	TTL	16	1	UP/DOWN	20M		2.0T	0.8	40n	0.4	5.0		0	7	74LS697	DIP20a
91♦	SN74LS699DW	TTL	16	1	UP/DOWN	20M		2.0T	0.8	40n	0.4	5.0		0	7	74LS699	FP169
92♦	SN74LS699N	TTL	16	1	UP/DOWN	20M		2.0T	0.8	40n	0.4	5.0		0	7	74LS699	DIP20a
93▼	HD74HC669FP	CMS	16	1	UP/DOWN	21M	Yes	3.15	1.35	56n	1.2	5.0	500m	4	8	74HC669	FP162
94▼	HD74HC669P	CMS	16	1	UP/DOWN	21M	Yes	3.15	1.35	56n	1.2	5.0	500m	4	8	74HC669	DIP16a
95♦	SN54ALS169BJ	TTL	16	1	UP/DOWN	22M	Yes	2.0	0.8	25n	0.3	5.0		5	C	74S169	DIP16a
96♦	SN54ALS569AJ	TTL	16	1	UP/DOWN	22M	Yes	2.0	0.7	21n	0.4	5.0		5	C	74LS569N	DIP20b
97♦	CD74HC4516E	CMS	16	1	UP/DOWN	24M	Yes	3.15	1.35	55n	1.2	5.0	500m	4	8	45-16	MS001a
98♦	CD74HC4516M	CMS	16	1	UP/DOWN	24M	Yes	3.15	1.35	55n	1.2	5.0	300m	4	8	45-16	MS012c
99♦	CD74HCT4516E	CMS	16	1	UP/DOWN	24M	Yes	2.0	0.8	63n	2.4	5.0	500m	4	8	45-16	MS001a
100♦	CD74HCT4516M	CMS	16	1	UP/DOWN	24M	Yes	2.0	0.8	63n	2.4	5.0	300m	4	8	45-16	MS012c
101▼	HD74HC191P	CMS	16	1	UP/DOWN	24M	Yes	3.15	1.35	22n	1.2	5.0	500m	4	8	74-191N	DIP16a
102♦	54LS169DM	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.7	30n	400m*	5.0	170mQ	5	C	74S169N	DIP16a
103♦	54LS169FM	TTL	16	1	UP/DOWN	25M		2.0	0.7	30n	400m*	5.0	170mQ	5	C	54S169W	FP103
104♦	74LS169DC	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	30n	300m*	5.0	170mQ	0	7	74S169N	DIP16a
105♦	74LS169PC	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	30n	300m*	5.0	170mQ	0	7	74S169N	DIP16 ☑
106♦	54191DM	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	50n	400m*	5.0	325m†	5	C	74-191N	DIP16b
107♦	54191FM	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	50n	400m*	5.0	325m†	5	C	54-191W	FP103
108♦	74191DC	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	50n	400m*	5.0	325m†	0	7	74-191N	DIP16b
109♦	74191PC	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	50n	400m*	5.0	325m†	0	7	74-191N	None
110♦	DM54ALS169BJ	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	20n	0.4	5.0		5	C	74S169	DIP16a

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

11. COUNTERS - Binary, Hexadecimal Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODULUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	DM54ALS191J	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	25n	0.4	5.0		5	C	74-191	DIP16a
2♦	DM54ALS193J	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	23n	0.4	5.0		5	C	74-193	DIP16a
3♦	DM54LS191J	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.7	62n	0.3	5.0		5	C	74-191	DIP16a
4♦	DM74LS191N	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	20n	0.4	5.0	100m	0	7	74-191N	DIP16a
5♦	DM54191J	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	54n		5.0	525mQ	5	C	74-191N	DIP16a
6♦	DM74191J	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	54n		5.0	525mQ	0	7	74-191N	DIP16a
7♦	DM74191N	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	54n		5.0	525mQ	0	7	74-191N	DIP16a
8♦	DM74191W	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	54n		5.0	525mQ	0	7	54-191W	FP88a
9♦	DN74LS191P2	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	50n	700m	5.0	400m	2	7	74-191	DIP16a
10♦	DN74LS191P5	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	50n	700m	5.0	400m	2	7	74-191	FP178
11▼	HD74LS193G	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	47n	300m	5.0	400m	2	7	74-193N	DIP16a
12♦	HD74LS193P	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	22n	300m	5.0	400m	2	7	74-193N	DIP16a
13▼	HD74LS669G	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	60n	300m	5.0	400m	2	7	74S169N	DIP16a
14♦	HD74LS669P	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	36n	300m	5.0	400m	2	7	74S169N	DIP16a
15♦	HEF4029BD	CMS	16	1	UP/DOWN	25M	Yes	7.0	3.0	110n		10	500m	4	8	40-29B	DIP16b
16♦	HEF4029BP	CMS	16	1	UP/DOWN	25M	Yes	7.0	3.0	110n		10	500m	4	8	40-29B	DIP16b
17♦	HEF4029BT	CMS	16	1	UP/DOWN	25M	Yes	7.0	3.0	110n		10	400m	4	8	40-29B	FP148
18♦	M53391P	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	50n		5.0	325m†	0	7	74-191N	DIP16a
19♦	MB74LS193M	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	47n		5.0	170m	2	7	74-193N	DIP16b
20♦	N74LS169AD	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	23n	0.3	5.0		0	7	74S169N	FP148
21♦	N74LS169AF	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	35n		5.0	170m	0	7	74S169N	DIP16b
22♦	N74LS169AN	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	23n	0.3	5.0	170m	0	7	74S169N	DIP16a
23♦	N74LS193D	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	47n	0.3	5.0	170m	0	7	74-193N	FP148
24♦	N74LS193N	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	47n	0.3	5.0	170m	0	7	74-193N	DIP16a
25♦	N74LS569F	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	35n		5.0	215m	0	7	74LS569N	DIP20b
26♦	N74LS569N	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	35n		5.0	215m	0	7	74LS569N	DIP20a
27♦	N74191W	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	52n	1.0 †	5.0	525m	0	7	54-191W	FP47g
28♦	S54LS169AF	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.7	23n	0.3	5.0	170m	5	C	74S169N	DIP16b
29♦	S54LS169AW	TTL	16	1	UP/DOWN	25M		2.0	0.7	23n	0.3	5.0	170m	5	C	54S169W	FP154
30♦	S54LS193F	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.7	47n	0.3	5.0	170m	5	C	74-193N	DIP16b
31♦	S54LS193G	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.7	47n	0.3	5.0	170m	5	C	74-193N	LC24
32♦	S54LS193W	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.7	47n	0.3	5.0	170m	5	C	54-193W	FP154
33♦	S54LS569F	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.7	35n		5.0	215m	5	C	74LS569N	DIP20b
34♦	S54193E	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	26n		5.0		5	C	74-193N	DIP16a
35♦	S54193F	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.7	47n	0.4	5.0	445m	5	C	74-193N	DIP16b
36♦	S54193R	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	26n		5.0		5	C	54-193W	FP79a
37♦	S54193W	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.7	47n	0.4	5.0	445m	5	C	54-193W	FP Ø
38♦	SN54LS169J	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.7	30n		5.0	170m	5	C	74S169N	DIP16a
39♦	SN54LS191J	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.7	52n	0.3	5.0	100m†	5	C	74-191N	DIP16a
40▼	SN54LS191N	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.7	52n	0.3	5.0	100m†	5	C	74-191N	DIP16a
41♦	SN54LS569J	TTL	16	1	UP/DOWN	25M	Yes	2.0Ø	0.7		300m	5.5		5	C	74LS569N	DIP20b
42▼	SN54LS569N	TTL	16	1	UP/DOWN	25M	Yes	2.0Ø	0.7		300m	5.5		5	C	74LS569N	DIP20b
43♦	SN74LS169J	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	30n		5.0	170m	0	7	74S169N	DIP16a
44♦	SN74LS169N	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	30n		5.0	170m	0	7	74S169N	DIP16a
45♦	SN74LS191D	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	40n	0.4	5.0	100m†	0	7	74-191	FP148
46♦	SN74LS191J	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	52n	0.4	5.0	100m†	0	7	74-191N	DIP16a
47♦	SN74LS191N	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	52n	0.4	5.0	100m†	0	7	74-191N	DIP16a
48♦	SN74LS569J	TTL	16	1	UP/DOWN	25M	Yes	2.0Ø	0.8		300m	5.0		0	7	74LS569N	DIP20b
49♦	SN74LS569N	TTL	16	1	UP/DOWN	25M	Yes	2.0Ø	0.8			5.0		0	7	74LS569N	DIP20b
50♦	SN54191J	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	50n		5.0	325m†	5	C	74-191N	DIP16a
51♦	SN74191N	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	50n	0.4	5.0	325m†	0	7	74-191N	DIP16a
52♦	ZN74191E	TTL	16	1	UP/DOWN	25M	Yes	2.0	0.8	50n	1.0 †	5.0	325m†	0	7	74-191N	TO-116
53♦	ZN74191J	TTL	16	1	UP/DOWN	25M	Yes	2.0	C.8	50n	1.0 †	5.0	325m†	0	7	74-191N	DIP14a
54♦	HEF40193BTD	CMS	16	1	UP/DOWN	26M	Yes	11.0	4.0	205n	6.7 †	15	200m	4	8	54-193W	FP148
55♦	UPD74HC193C(A)	CMS	16	1	UP/DOWN	27M	Y	4.2	1.2	55n		6.0	500m	4	8	74-193	DIP16a
56♦	M74ALS169AP	TTL	16	1	UP/DOWN	28M	Yes	2.0	0.8	29n		5.0		2	7	74S169	DIP16b
57♦	M74ALS191P	TTL	16	1	UP/DOWN	28M	Yes	2.0	0.8		0.3	5.0	121m	2	7	74-191	DIP16b
58♦	M74ALS193P	TTL	16	1	UP/DOWN	28M	Yes	2.0	0.8	45n	0.3	5.0		2	7	74-193	DIP16b
59♦	54193DM	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	47n	400m*	5.0	325m†	5	C	74-193N	DIP16b
60♦	54193FM	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	47n	400m*	5.0	325m	5	C	54-193W	FP93c
61♦	74193PC	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	47n	400m*	5.0	325m†	0	7	74-193N	None
62♦	DM54AS160J(A)	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	14n	0.3	5.0		0	7	74-193	DIP16a
63♦	DM74ALS169BJ	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	16n	0.3	5.0		0	7	74S169	DIP16a
64♦	DM74ALS169BN	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	16n	0.3	5.0		0	7	74S169	DIP16a
65♦	DM74ALS191J	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	21n	0.3	5.0		0	7	74-191	DIP16a
66♦	DM74ALS191N	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	21n	0.3	5.0		0	7	74-191	DIP16a
67♦	DM74ALS193J	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	19n	0.3	5.0		0	7	74-193	DIP16a
68♦	DM74ALS193N	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	19n	0.3	5.0		0	7	74-193	DIP16a
69♦	DM7563J	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	47n		5.0	510mQ	5	C	74-193N	DIP16a
70♦	DM7563W	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	47n		5.0	510mQ	5	C	54-193W	FP88a
71♦	DM8563J	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	47n		5.0	510mQ	0	7	74-193N	DIP16a
72♦	DM8563N	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	47n		5.0	510mQ	0	7	74-193N	DIP16a
73♦	DM54193J	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	47n		5.0	510mQ	5	C	74-193N	DIP16a
74♦	DM54193W	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	47n		5.0	510mQ	5	C	54-193W	FP88a
75♦	DM74193J	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	47n		5.0	510mQ	0	7	74-193N	DIP16a
76♦	DM74193N	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	47n		5.0	510mQ	0	7	74-193N	DIP16a
77♦	M74ALS561AP	TTL	16	1	UP/DOWN	30M		2.0T	0.8	56n	0.4	5.0	198m	2	7	74ALS561	DIP20a
78♦	M74ALS569AP	TTL	16	1	UP/DOWN	30M	Yes	2.0T	0.8	29n	0.4	5.0	150m	2	7	74LS569	DIP20a
79♦	N8284F	TTL	16	1	UP/DOWN	30M		2.0	0.8			5.0	360m	0	7	E02-51	DIP14a
80▼	SN74ALS191D	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	21n	400m	5.0		0	7	74-191N	FP162
81♦	SN74ALS191N	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	21n	400m	5.0		0	7	74-191N	DIP16b
82▼	SN74ALS193D	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	30n	400m	5.0		0	7	74-193N	FP162
83♦	SN74ALS193N	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	30n	400m	5.0		0	7	74-193N	DIP16b
84▼	SN74ALS569ADW	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	16n	0.4	5.0		0	7	74LS569	FP169
85♦	SN74ALS569AN	TTL	16	1	UP/DOWN	30M	Yes	2.0	0.8	16n	0.4	5.0		0	7	74LS569	DIP20a
86♦	DM54LS169AJ	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.7	44n	0.3	5.0		5	C	74S169	DIP16a
87♦	DM54LS193J	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.7	54n	0.3	5.0		5	C	74-193	DIP16a
88♦	DM54LS193W	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	26n	0.4	5.0	95m	5	C	54-193W	FP98b
89♦	DM74LS168AN	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	44n	0.3	5.0		0	7	74S168	DIP16a
90♦	DM74LS169AN	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	44n	0.3	5.0		0	7	74S169	DIP16a
91♦	DM74LS193N	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	26n	0.4	5.0	95m	0	7	74-193N	DIP16a
92♦	DN74LS193P2	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	47n	700m	5.0	400m	2	7	74-193	DIP16a
93♦	DN74LS193P5	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	47n	700m	5.0	400m	2	7	74-193	FP178
94♦	SFC4193E	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	47n		5.0	325m†	0	7	74-193N	DIP16a
95♦	SFC4193EM	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	47n		5.0	325m†	5	C	74-193N	DIP16a
96♦	SFC4193ET	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	47n		5.0	325m†	2	8	74-193N	DIP16a
97♦	SN54LS169AJ	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.7	35n		5.0	170m	5	C	74S169N	DIP16a
98▼	SN54LS169AN	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.7	35n		5.0	170m	5	C	74S169N	DIP16a
99♦	SN54LS193J	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.7	47n	0.3	5.0	95m†	5	C	74-193N	DIP16a
100▼	SN54LS193N	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.7	47n	0.3	5.0	95m†	5	C	74-193N	DIP16a
101♦	SN54LS669J	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.7	60n	0.3	5.0	170mQ	5	C	74S169N	DIP16a
102▼	SN54LS669N	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.7	60n	0.3	5.0	170mQ	5	C	74S169N	DIP16a
103♦	SN74LS169AJ	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	35n		5.0	170m	0	7	74S169N	DIP16a
104♦	SN74LS169AN	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	35n		5.0	170m	0	7	74S169N	DIP16a
105♦	SN74LS193D	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	47n	0.4	5.0	95m†	0	7	74-193	FP148
106♦	SN74LS193J	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	47n	0.4	5.0	95m†	0	7	74-193N	DIP16a
107♦	SN74LS193N	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	47n	0.4	5.0	95m†	0	7	74-193N	DIP16a
108♦	SN74LS669D	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	60n	0.4	5.0	100m†	0	7	74S169	FP148
109♦	SN74LS669J	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	60n	0.4	5.0	170mQ	0	7	74S169N	DIP16a
110♦	SN74LS669N	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	60n	0.4	5.0	170mQ	0	7	74S169N	DIP16a

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

11. COUNTERS - Binary, Hexadecimal Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG (3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODULUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1♦	SN54193J	TTL	16	1	UP/DOWN	32M	Yes	2.0	0.8	47n	0.4	5.0	325m†	5	C	74-193N	DIP16a	
2▼	TC74HC193F(A)	CMS	16	1	UP/DOWN	32M	Yes	3.15	1.35	63n	1.2	5.0	180m	4	8	74-193N	FP167	
3▼	TC74HC193P(A)	CMS	16	1	UP/DOWN	32M	Yes	3.15	1.35	63n	1.2	5.0	500m	4	8	74-193N	DIP16a	
4▼	TC74HC697P	CMS	16	1	UP/DOWN	33M	Yes	3.15T	1.35	65n	1.02	5.0	500m	4	8	74LS697	DIP20c	
5♦	HEF4516BTD	CMS	16	1	UP/DOWN	34M	Yes	11.0	4.0	160n	6.7 †	15	200m	4	8	45-16B	FP148	
6♦	MN4516B	CMS	16	1	UP/DOWN	34M	Yes	11.0	4.0	240n	3.9	15	400m	4	8	45-16B	DIP16a	
7♦	54LS191DM	TTL	16	1	UP/DOWN	35M	Yes	2.0	0.8	36n	300m	5.0	175mQ	5	C	74-191N	DIP16b	
8♦	54LS191FM	TTL	16	1	UP/DOWN	35M	Yes	2.0	0.8	36n	300m	5.0	175mQ	5	C	54-191W	FP93c	
9♦	74LS191DC	TTL	16	1	UP/DOWN	35M	Yes	2.0	0.8	36n	300m	5.0	175mQ	0	7	74-191N	DIP16b	
10♦	74LS191PC	TTL	16	1	UP/DOWN	35M	Yes	2.0	0.8	36n	300m	5.0	175mQ	0	7	74-191N	DIP16a	
11♦	HEF4029BTD	CMS	16	1	UP/DOWN	35M	Yes	11.0	4.0	140n	6.7 †	15	200m	4	8	40-29B	FP148	
12♦	MN4029B	CMS	16	1	UP/DOWN	35M	Yes	11.0	4.0	210n	3.9	15	400m	4	8	40-29	DIP16a	
13♦	N74LS569AN	TTL	16	1	UP/DOWN	35M	Yes	2.0	0.8	25n	0.3	5.0		0	7	74LS569N	DIP20	☑
14♦	S54LS569AF	TTL	16	1	UP/DOWN	35M	Yes	2.0	0.7	25n	0.3	5.0		5	C	74LS569N	DIP20	☑
15♦	SN74LS169BD	TTL	16	1	UP/DOWN	35M	Yes	2.0	0.8	40n	0.4	5.0	100m†	0	7	74S169	FP148	
16♦	SN74LS169BFN	TTL	16	1	UP/DOWN	35M		2.0	0.8	40n	0.4	5.0	100m†	0	7	E02-230	LC20	
17♦	SN74LS169BN	TTL	16	1	UP/DOWN	35M	Yes	2.0	0.8	40n	0.4	5.0	100m†	0	7	74S169	DIP16a	
18♦	M74LS193P	TTL	16	1	UP/DOWN	38M	Yes	2.0	0.8	47n	0.4	5.0	95m†	2	7	74-193N	DIP16a	
19♦	54LS193DM	TTL	16	1	UP/DOWN	40M	Yes	2.0	0.7	22n	300m	5.0	170mQ	5	C	74-193N	DIP16b	
20♦	54LS193FM	TTL	16	1	UP/DOWN	40M	Yes	2.0	0.7	22n	300m	5.0	170mQ	5	C	54-193W	FP47b	
21♦	74LS193DC	TTL	16	1	UP/DOWN	40M	Yes	2.0	0.8	22n	300m	5.0	170mQ	0	7	74-193N	DIP16b	
22♦	74LS193PC	TTL	16	1	UP/DOWN	40M	Yes	2.0	0.8	22n	300m	5.0	170mQ	0	7	74-193N	DIP16a	
23♦	M74LS191P	TTL	16	1	UP/DOWN	40M	Yes	2.0	0.8	52n	0.4	5.0	100m†	2	7	74-191N	DIP16a	
24♦	N74S169AD	TTL	16	1	UP/DOWN	40M	Yes	2.0	0.8	15n	0.3	5.0		0	7	74S169N	FP148	
25♦	N74S169AN	TTL	16	1	UP/DOWN	40M	Yes	2.0	0.8	15n	0.3	5.0		0	7	74S169	DIP16b	
26♦	N74S169F	TTL	16	1	UP/DOWN	40M		2.0	0.8	15n	0.4	5.0		0	7	54S169W	DIP16a	
27♦	N74S169N	TTL	16	1	UP/DOWN	40M	Yes	2.0	0.8	15n	0.4	5.0		5	C	74S169N	DIP16b	
28♦	PC54HC191D(A)	CMS	16	1	UP/DOWN	40M	Yes	3.15	0.9	20n	0.8	5.0	500m	5	C	74-191	DIP16b	
29♦	PC54HC193D(A)	CMS	16	1	UP/DOWN	40M	Yes	3.15	0.9	20n	0.8	5.0	500m	5	C	74-193	DIP16b	
30♦	PC54HCT191D(A)	CMS	16	1	UP/DOWN	40M	Yes	2.0	0.8	22n	0.7	5.0	500m	5	C	74-191	DIP16b	
31♦	PC54HCT193D(A)	CMS	16	1	UP/DOWN	40M	Yes	2.0	0.8	22n	0.7	5.0	500m	5	C	74-193	DIP16b	
32♦	PC74HC191D(A)	CMS	16	1	UP/DOWN	40M	Yes	3.15	0.9	20n	0.8	5.0	500m	4	8	74-191	DIP16b	
33♦	PC74HC193D(A)	CMS	16	1	UP/DOWN	40M	Yes	3.15	0.9	20n	0.8	5.0	500m	4	8	74-193	DIP16b	
34♦	PC74HC193P	CMS	16	1	UP/DOWN	40M	Yes	3.15	0.9	20n	0.8	5.0	500m	4	8	74-193	DIP16b	
35♦	PC74HC193T	CMS	16	1	UP/DOWN	40M	Yes	3.15	0.9	20n	0.8	5.0	300m	4	8	74-193	FP148	
36♦	PC74HCT191D(A)	CMS	16	1	UP/DOWN	40M	Yes	2.0	0.8	22n	0.7	5.0	500m	4	8	74-191	DIP16b	
37♦	PC74HCT193D(A)	CMS	16	1	UP/DOWN	40M	Yes	2.0	0.8	22n	0.7	5.0	500m	4	8	74-193	DIP16b	
38♦	S54S169AF	TTL	16	1	UP/DOWN	40M	Yes	2.0	0.8	15n	0.3	5.0		5	C	74S169N	DIP16b	
39♦	S54S169F	TTL	16	1	UP/DOWN	40M	Yes	2.0	0.8	15n	0.4	5.0		0	7	74S169N	DIP16a	
40▼	SN74ALS169BD	TTL	16	1	UP/DOWN	40M	Yes	2.0	0.8	20n	0.4	5.0		0	7	74S169N	FP162	
41♦	74HC4516D	CMS	16	1	UP/DOWN	45M		4.2	1.8	19n	2.4	5.0		4		45-16	FP162	
42♦	74HC4516N	CMS	16	1	UP/DOWN	45M		4.2	1.8	19n	2.4	5.0		4		45-16	DIP16b	
43♦	74HCT4516D	CMS	16	1	UP/DOWN	45M		2.0	0.8	19n	1.2	5.0		4		45-16	FP162	
44♦	74HCT4516N	CMS	16	1	UP/DOWN	45M		2.0	0.8	19n	1.2	5.0		4		45-16	DIP16b	
45♦	CD54HC4516F	CMS	16	1	UP/DOWN	45M	Yes	3.15	1.35	19n	1.7	5.0	500m	5	C	45-16	MS001a	
46♦	PC54HC4516D(A)	CMS	16	1	UP/DOWN	45M	Yes	3.15	0.9	19n	0.8	5.0	500m	5	C	45-16	DIP16b	
47♦	PC54HCT4516D(A)	CMS	16	1	UP/DOWN	45M	Yes	2.0	0.8	19n	0.7	5.0	500m	5	C	45-16	DIP16b	
48♦	PC74HC4516D(A)	CMS	16	1	UP/DOWN	45M	Yes	3.15	0.9	19n	0.8	5.0	500m	4	8	45-16	DIP16b	
49♦	PC74HC4516P	CMS	16	1	UP/DOWN	45M	Yes	3.15	1.35	19n	0.8	5.0	500m	4	C	45-16	DIP16b	
50♦	PC74HC4516T	CMS	16	1	UP/DOWN	45M	Yes	3.15	1.35	19n	0.8	5.0	300m	4	C	45-16	FP148	
51♦	PC74HCT4516D(A)	CMS	16	1	UP/DOWN	45M	Yes	2.0	0.8	19n	0.7	5.0	500m	4	8	45-16	DIP16b	
52♦	PC74HCT4516P	CMS	16	1	UP/DOWN	45M	Yes	2.0	0.8	19n	0.7	5.0	500m	4	C	45-16	DIP16b	
53♦	PC74HCT4516T	CMS	16	1	UP/DOWN	45M	Yes	2.0	0.8	19n	0.7	5.0	300m	4	C	45-16	FP148	
54▼	TC74HC191F	CMS	16	1	UP/DOWN	45M	Yes	3.15	1.35	44n	1.2	5.0	180m	4	8	74-191N	FP167	
55▼	TC74HC191P(A)	CMS	16	1	UP/DOWN	45M	Yes	3.15	1.35	44n	1.2	5.0	500m	4	8	74-191N	DIP16a	
56♦	SN74S169N	TTL	16	1	UP/DOWN	55M	Yes	2.0	0.8	28n	0.3	5.0	500m†	0	7	74S169N	DIP16a	
57♦	DM54AS169J	TTL	16	1	UP/DOWN	65M	Yes	2.0	0.8	14n	0.3	5.0		5	C	74S169	DIP16a	
58♦	SN54S169J	TTL	16	1	UP/DOWN	70M	Yes	2.0	0.8	28n	0.3	5.0	500m†	5	C	74S169N	DIP16a	
59♦	SN74S169D	TTL	16	1	UP/DOWN	70M	Yes	2.0	0.8	28n	0.3	5.0	500m†	0	7	74S169	FP148	
60♦	DM74AS169J	TTL	16	1	UP/DOWN	75M	Yes	2.0	0.8	13n	0.3	5.0		0	7	74S169	DIP16a	
61♦	DM74AS169N	TTL	16	1	UP/DOWN	75M	Yes	2.0	0.8	13n	0.3	5.0		0	7	74S169	DIP16a	
62▼	SN74AS169D	TTL	16	1	UP/DOWN	75M	Yes	2.0	0.8	13n	0.3	5.0		0	7	74S169N	FP162	
63♦	SN74AS169N	TTL	16	1	UP/DOWN	75M	Yes	2.0	0.8	13n	0.3	5.0		0	7	74S169N	DIP16a	
64♦	N74F169D(A)	TTL	16	1	UP/DOWN	90M	Yes	2.0	0.8	13n		5.0		0	7	74S169	FP148	
65♦	N74F169N(A)	TTL	16	1	UP/DOWN	90M	Yes	2.0	0.8	13n		5.0		0	7	74S169	DIP16a	
66♦	MC54F191J	TTL	16	1	UP/DOWN	110M	Yes	2.0	0.8	18n	300m	5.5		5	C	74-191N	DIP16a	
67▼	MC54F191N	TTL	16	1	UP/DOWN	110M	Yes	2.0	0.8	18n	300m	5.5		5	C	74-191N	DIP16a	
68♦	MC74F191J	TTL	16	1	UP/DOWN	110M	Yes	2.0	0.8	18n	300m	5.0		0	7	74-191N	DIP16a	
69♦	MC74F191N	TTL	16	1	UP/DOWN	110M	Yes	2.0	0.8	18n	300m	5.0		0	7	74-191N	DIP16b	
70♦	54F169DM	TTL	16	1	UP/DOWN	115M	Yes	2.0	0.8	16n		5.0		5	C	74S169	DIP16b	
71♦	54F169L1M	TTL	16	1	UP/DOWN	115M		2.0	0.8	16n		5.0		5	C	E02-230	LC19	
72♦	54F569DM	TTL	16	1	UP/DOWN	115M	Yes	2.0	0.8	11n		5.0		5	C	74LS569	DIP20b	
73♦	54F569L1M	TTL	16	1	UP/DOWN	115M		2.0	0.8	11n		5.0		5	C	E02-235	LC19	
74♦	74F169DC	TTL	16	1	UP/DOWN	115M	Yes	2.0	0.8	17n		5.0		0	7	74S169	DIP16b	
75♦	74F169L1C	TTL	16	1	UP/DOWN	115M		2.0	0.8	17n		5.0		0	7	E02-230	LC19	
76♦	74F169PC	TTL	16	1	UP/DOWN	115M	Yes	2.0	0.8	17n		5.0		0	7	74S169	DIP16a	
77♦	74F169QC	TTL	16	1	UP/DOWN	115M		2.0	0.8	17n		5.0		0	7	E02-230	LC26	
78♦	74F169SC	TTL	16	1	UP/DOWN	115M		2.0	0.8	17n		5.0		0	7	54S169	FP148	
79♦	74F569DC	TTL	16	1	UP/DOWN	115M	Yes	2.0	0.8	13n		5.0		0	7	74LS569	DIP20b	
80♦	74F569PC	TTL	16	1	UP/DOWN	115M	Yes	2.0	0.8	13n		5.0		0	7	74LS569	DIP20a	
81♦	74F569SC	TTL	16	1	UP/DOWN	115M		2.0	0.8	13n		5.0		0	7	54-569	FP169	
82▼	N74F569D(A)	TTL	16	1	UP/DOWN	115M	Yes	2.0T	0.8	13n		5.0		0	7	74LS569	FP169	
83▼	N74F569N(A)	TTL	16	1	UP/DOWN	115M	Yes	2.0T	0.8	13n		5.0		0	7	74LS569	DIP20a	
84♦	54F191DM	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	16n		5.0		5	C	74-191	DIP16b	
85♦	54F191L1M	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	16n		5.0		5	C	E02-212	LC19	
86♦	54F193DM	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	16n		5.0		5	C	74-193	DIP16b	
87♦	54F193L1M	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	16n		5.0		5	C	E02-213	LC19	
88♦	74F191DC	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	14n		5.0		0	7	74-191	DIP16b	
89♦	74F191L1C	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	14n		5.0		0	7	E02-212	LC19	
90♦	74F191PC	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	14n		5.0		0	7	74-191	DIP16a	
91♦	74F191QC	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	14n		5.0		0	7	E02-212	LC26	
92♦	74F191SC	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	14n		5.0		0	7	54-191	FP148	
93♦	74F193DC	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	15n		5.0		0	7	74-193	DIP16b	
94♦	74F193L1C	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	15n		5.0		0	7	E02-213	LC19	
95♦	74F193PC	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	15n		5.0		0	7	74-193	DIP16a	
96♦	74F193QC	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	15n		5.0		0	7	E02-213	LC26	
97♦	74F193SC	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	15n		5.0		0	7	54-193	FP148	
98♦	MC54F193J	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	13n	300m	5.5	370m†	5	C	74-193N	DIP16a	
99▼	MC54F193N	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	13n	300m	5.5	370m†	5	C	74-193N	DIP16a	
100♦	MC74F193J	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	13n	300m	5.0	370m†	0	7	74-193N	DIP16a	
101♦	MC74F193N	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	13n	300m	5.0	370m†	0	7	74-193N	DIP16b	
102♦	N74F191D(A)	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	12n		5.0		0	7	74-191	FP148	
103♦	N74F191N(A)	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	12n		5.0		0	7	74-191	DIP16a	
104♦	N74F193D(A)	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	13n		5.0		0	7	74-193	FP148	
105♦	N74F193N(A)	TTL	16	1	UP/DOWN	125M	Yes	2.0	0.8	13n		5.0		0	7	74-193	DIP16a	
106♦	10136F	ECL	16	1	UP/DOWN	150M	Yes	-1.1	-1.4	5.0n		-5.2	625m†	3	8	E07-3	DIP16a	
107♦	10136N	ECL	16	1	UP/DOWN	150M	Yes	-1.1	-1.4	5.0n		-5.2	625m†	3	8	E07-3	DIP16a	
108♦	F10136DC	ECL	16	1	UP/DOWN	250M		-1.1	-1.4	6.9n	145m*	-5.2	702mQ	0	7	E07-5	DIP16a	
109♦	F10536DM	ECL	16	1	UP/DOWN	250M		-1.1	-1.4	6.9n	145m*	-5.2	702mQ	5	C	E07-5	DIP16a	
110♦	F10536FM	ECL	16	1	UP/DOWN	250M		-1.1	-1.4	6.9n	145m*	-5.2	702mQ	5	C	E07-5	FP103	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. COUNTERS - Binary, Hexadecimal Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG (3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	5 TYPE NUMBER	TECHN	1 MODU-LUS	2 CKTS PER PKG	3 MODE	4 f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	MC10H136J	ECL	16	1	UP/DOWN	250M	Yes	-1.1	-1.4	7.7	150m	-5.2	715m†	0	7	E07-3	DIP16a
2♦	MC10H136N	ECL	16	1	UP/DOWN	250M		-1.1	-1.4	7.7	150m	-5.2		0	7	E07-3	DIP16a
3▼	M54HC4520F1(A)	CMS	16	2			No					6.0				45-20B	DIP16a
4▼	M74HC4520B1(A)	CMS	16	2			No					6.0				45-20B	DIP16a
5▼	M74HC4520C1(A)	CMS	16	2			No					6.0				E03-15	LC19
6▼	M74HC4520F1(A)	CMS	16	2			No					6.0				45-20B	DIP16a
7♦	54HCT393C(A)	CMS	16	2	UP		No					5.5		5	C	74-393N	DIP14a
8♦	54HCT393D(A)	CMS	16	2	UP		No					5.5		5	C	74-393N	DIP14c
9♦	74HCT393C(A)	CMS	16	2	UP		No					5.0		4	8	74-393N	DIP14a
10♦	74HCT393D(A)	CMS	16	2	UP		No					5.0		4	8	74-393N	DIP14c
11♦	74HCT393P(A)	CMS	16	2	UP		No					5.0		4	8	74-393N	DIP14a
12♦	LC4520B	CMS	16	2	UP		No	3.5	1.5	100n		20	300m	4	8	45-20B	DIP16a
13♦	SN54HC393J(A)	CMS	16	2	UP		No	3.85	1.10		1.0	5.0		5	C	74-393N	MO001AA
14♦	MSM40193RS	CMS	16	2	UP	2.0M	Yes	3.6	1.0	1.0u	0.6	16	200m	4	8	74-193N	DIP16 ☑
15♦	SCL4520B	CMS	16	2	UP	3.0M	No	3.5Δ	1.0*	225n	3.0	15	100uQ	5	C	45-20B	DIP16a
16♦	CD4520BCJ	CMS	16	2	UP	4.0M	No	11	4.0	170n	6.7 †	15	1.2mQ	4	8	45-20B	DIP16a
17♦	CD4520BCN	CMS	16	2	UP	4.0M	No	11	4.0	170n	6.7 †	15	1.2mQ	4	8	45-20B	DIP16a
18♦	CD4520BMJ	CMS	16	2	UP	4.0M	No	11	4.0	170n	6.7 †	15	300uQ	5	C	45-20B	DIP16a
19♦	CD4520BMW	CMS	16	2	UP	4.0M	No	11	4.0	170n	6.7 †	15	300uQ	5	C	45-20B	FP88c
20♦	M4520BP	CMS	16	2	UP	4.0M	No	11	4.0	240n	4.0	15	0.5	4	8	45-20B	DIP16b
21♦	MSM4520RS	CMS	16	2	UP	4.0M	No	3.6	1.0	800n	0.6	16	200m	4	8	45-20B	DIP16 ☑
22♦	TC4520BP	CMS	16	2	UP	4.0M	No	14.9	.05C	240n	4.0	15	300m	4	8	45-20B	DIP16a
23♦	4520BDC	CMS	16	2	UP	5.0M	No	11	4.0	168n	6.7 †	15	9.0mQ	4	8	45-20B	DIP16a
24♦	4520BDM	CMS	16	2	UP	5.0M	No	11	4.0	168n	6.7 †	15	9.0mQ	5	C	45-20B	DIP16a
25♦	4520BFC	CMS	16	2	UP	5.0M	No	11	4.0	168n	6.7 †	15	9.0mQ	4	8	45-20B	FP103
26♦	4520BFM	CMS	16	2	UP	5.0M	No	11	4.0	168n	6.7 †	15	9.0mQ	5	C	45-20B	FP103
27♦	4520BPC	CMS	16	2	UP	5.0M	No	11	4.0	168n	6.7 †	15	9.0mQ	4	8	45-20B	None
28♦	CD4520BD	CMS	16	2	UP	6.0M	No	7.0	3.0	230n	2.9	20	500m	5	C	45-20B	MO001AE
29♦	CD4520BE	CMS	16	2	UP	6.0M	No	7.0	3.0	230n	2.9	20	500m	4	8	45-20B	MO001AC
30♦	CD4520BF	CMS	16	2	UP	6.0M	No	7.0	3.0	230n	2.9	20	500m	5	C	45-20B	MO001AC
31♦	HCC4520BD	CMS	16	2	UP	6.0M	No	10	0	260n	4.5 †	10	200m	5	C	45-20B	DIP16a
32♦	HCC4520BF	CMS	16	2	UP	6.0M	No	10	0	260n	4.5 †	10	200m	5	C	45-20B	DIP16a
33♦	HCC4520BK	CMS	16	2	UP	6.0M	No	10	0	260n	4.5 †	10	200m	5	C	45-20B	FP131
34♦	HCF4520BE	CMS	16	2	UP	6.0M	No	10	0	260n	4.5 †	10	200m	4	8	45-20B	DIP16a
35♦	HCF4520BF	CMS	16	2	UP	6.0M	No	10	0	260n	4.5 †	10	200m	4	8	45-20B	DIP16a
36♦	883C4520B	CMS	16	2	UP	8.0M	No	8.2	6.7	160n		15	300m	5	C	45-20B	MO001AG
37♦	BCL4520B	CMS	16	2	UP	8.0M	No	8.2	6.7	160n		15	300m	5	C	45-20B	MO001AG
38♦	MB84520B	CMS	16	2	UP	8.0M	No	10.5	4.5	180n	4.5 *	15	1.2mQ	4	8	45-20B	DIP16a
39♦	MB84520BM	CMS	16	2	UP	8.0M	No	10.5	4.5	180n	4.5 *	15	1.2mQ	4	8	45-20B	DIP16b
40♦	MC14520BAL	CMS	16	2	UP	8.0M	No	11	4.0	175n	2.5 *	15		5	C	45-20B	DIP16a
41▼	MC14520BALD	CMS	16	2	UP	8.0M	No	11	4.0	175n	2.5 *	15		5	C	45-20B	DIP16a
42▼	MC14520BALDS	CMS	16	2	UP	8.0M	No	11	4.0	175n	2.5 *	15		5	C	45-20B	DIP16a
43▼	MC14520BALS	CMS	16	2	UP	8.0M	No	11	4.0	175n	2.5 *	15		5	C	45-20B	DIP16a
44♦	MC14520BCL	CMS	16	2	UP	8.0M	No	11	4.0	175n	2.5 *	15		4	8	45-20B	DIP16a
45▼	MC14520BCLD	CMS	16	2	UP	8.0M	No	11	4.0	175n	2.5 *	15		4	8	45-20B	DIP16a
46▼	MC14520BCLDS	CMS	16	2	UP	8.0M	No	11	4.0	175n	2.5 *	15		4	8	45-20B	DIP16a
47▼	MC14520BCLS	CMS	16	2	UP	8.0M	No	11	4.0	175n	2.5 *	15		4	8	45-20B	DIP16a
48♦	MC14520BCP	CMS	16	2	UP	8.0M	No	11	4.0	175n	2.5 *	15		4	8	45-20B	DIP16a
49▼	MC14520BCPD	CMS	16	2	UP	8.0M	No	11	4.0	175n	2.5 *	15		4	8	45-20B	DIP16a
50▼	MC14520BCPDS	CMS	16	2	UP	8.0M	No	11	4.0	175n	2.5 *	15		4	8	45-20B	DIP16a
51▼	MC14520BCPS	CMS	16	2	UP	8.0M	No	11	4.0	175n	2.5 *	15		4	8	45-20B	DIP16a
52▼	MC14520BDW	CMS	16	2	UP	8.0M	No	11	4.0	175n	2.5 *	15		4	8	45-20B	DIP16a
53♦	MSM4520	CMS	16	2	UP	8.0M	No	7.2	2.0	400n	2.0 *	10	1.4mQ	2	7	45-20B	DIP16a
54♦	NJU4520BD	CMS	16	2	UP	8.0M	No	7.0	3.0	230n	2.9	10	0.5	4	8	45-20	FP167
55♦	NJU4520BM	CMOS	16	2	UP	8.0M	No	7.0	3.0	230n	2.9	10	0.5	4	8	45-20	DIP16a
56♦	HEF4520	CMS	16	2	UP	10M	No	11	4.0	105n	6.7 †	15	400m	4	8	45-20B	M ☑
57♦	HEF4520BPN	CMS	16	2	UP	10M	No	11.0	4.0	105n	6.7 †	15	400m	4	8	45-20B	DIP16b
58♦	HEF4520P	CMS	16	2	UP	10M	No			35n		10	300uQ	4	8	45-20B	DIP16a
59♦	MC14020BAL	CMS	16	2	UP	13M	No	11	4.0	1.5u	2.5 *	15		5	C	40-20B	DIP16a
60♦	CD54HC4520F	CMS	16	2	UP	17M	No	3.15	1.35	83n	1.7	5.0	500m	5	C	45-20	MS001a
61♦	CD54HCT4520F	CMS	16	2	UP	17M	No	2.0	0.8	90n	2.4	5.0	500m	5	C	45-20	MS001a
62♦	PC74HCT4520P	CMS	16	2	UP	17M	No	2.0	0.8	80n	0.7	5.0	500m	4	C	45-20	DIP16b
63♦	PC74HCT4520T	CMS	16	2	UP	17M	No	2.0	0.8	80n	0.7	5.0	300m	4	C	45-20	FP148
64♦	PC54HCT393D(A)	CMS	16	2	UP	18M	No	2.0	0.8	48n	0.7	5.0	500m	5	C	74-393	DIP14b
65♦	PC74HCT393P	CMS	16	2	UP	18M	No	2.0	0.8	48n	0.7	5.0	500m	4	C	74-393	DIP14b
66♦	54LS393DM	TTL	16	2	UP	20M	No	2.0	0.7	35n	400m*	5.0	125mQ	5	C	74-393N	TO-116
67♦	54LS393FM	TTL	16	2	UP	20M	No	2.0	0.7	35n	400m*	5.0	125mQ	5	C	54-393W	FP21h
68♦	74HCT4520D	CMS	16	2	UP	20M		2.0	0.8	66n	1.2	5.0		4		45-20	FP162
69♦	74HCT4520N	CMS	16	2	UP	20M		2.0	0.8	66n	1.2	5.0		4		45-20	DIP16b
70♦	74LS393DC	TTL	16	2	UP	20M	No	2.0	0.8	35n	300m*	5.0	130mQ	0	7	74-393N	TO-116
71♦	74LS393PC	TTL	16	2	UP	20M	No	2.0	0.8	35n	300m*	5.0	130mQ	0	7	74-393N	DIP14a
72♦	74SC393C(A)	CMS	16	2	UP	20M	No					5.0		4	8	74-393N	DIP14a
73♦	74SC393D(A)	CMS	16	2	UP	20M	No					5.0		4	8	74-393N	DIP14c
74♦	74SC393P(A)	CMS	16	2	UP	20M	No					5.0		4	8	74-393N	DIP14a
75♦	CD74HC4520E	CMS	16	2	UP	20M	No	3.15	1.35	69n	1.7	5.0	500m	4	8	45-20	MS001a
76♦	CD74HC4520M	CMS	16	2	UP	20M	No	3.15	1.35	69n	1.7	5.0	300m	4	8	45-20	FP148
77♦	CD74HCT4520E	CMS	16	2	UP	20M	No	2.0	0.8	75n	2.4	5.0	500m	4	8	45-20	MS001a
78♦	CD74HCT4520M	CMS	16	2	UP	20M	No	2.0	0.8	75n	2.4	5.0	300m	4	8	45-20	FP148
79▼	HD74HC393FP	CMS	16	2	UP	20M	No	3.15	1.35	16n	1.2	6.0	500m	4	8	74-393N	FP161
80▼	HD74HC393P	CMS	16	2	UP	20M	No	3.15	1.35	16n	1.2	5.0	500m	4	8	74-393N	DIP14a
81♦	MM54HC393J	CMS	16	2	UP	20M	No	4.2	1.2	75n	1.7	5.0	500m	5	C	74-393N	DIP14a
82♦	PC54HC393D(A)	CMS	16	2	UP	20M	No	3.15	0.9	42n	0.8	5.0	500m	5	C	74-393	DIP14b
83♦	PC74HC4520P	CMS	16	2	UP	20M	No	3.15	1.35	72n	0.8	5.0	500m	4	C	45-20	DIP16b
84♦	PC74HC4520T	CMS	16	2	UP	20M	No	3.15	1.35	72n	0.8	5.0	300m	4	C	45-20	FP148
85♦	PC74HCT393T	CMS	16	2	UP	20M	No	2.0	1.35	38n	0.7	5.0	300m	4	C	74-393	FP147
86▼	HD74HC4520FP	CMS	16	2	UP	21M	No	3.15	1.35	50n	1.2	5.0	500m	4	8	45-20B	FP162
87▼	HD74HC4520P	CMS	16	2	UP	21M	No	3.15	1.35	50n	1.2	5.0	500m	4	8	45-20B	DIP16a
88♦	HEF4520BTD	CMS	16	2	UP	21M	No	11.0	4.0	105n	6.7 †	15	200m	4	8	45-20B	FP148
89♦	MN4520B	CMS	16	2	UP	21M	No	11.0	4.0	150n	3.9	15	400m	4	8	45-20B	DIP16a
90♦	74HCT393N	CMS	16	2	UP	22M		2.0	0.8		1.2	5.0		4		74-393N	DIP14a
91♦	PC74HCT393D(A)	CMS	16	2	UP	22M	No	2.0	0.8	40n	0.7	5.0	500m	4	8	74-393	DIP14b
92♦	MM74HC393J	CMS	16	2	UP	24M	No	4.2	1.2	62n	1.7	5.0	500m	4	8	74-393N	DIP14a
93♦	MM74HC393N	CMS	16	2	UP	24M	No	4.2	1.2	62n	1.7	5.0	500m	4	8	74-393N	DIP14a
94♦	PC74HC393D(A)	CMS	16	2	UP	24M	No	3.15	0.9	35n	0.8	5.0	500m	4	8	74-393	DIP14b
95♦	PC74HC393P	CMS	16	2	UP	24M	No	3.15	0.9	35n	0.8	5.0	500m	4	8	74-393	DIP14b
96♦	PC74HC393T	CMS	16	2	UP	24M	No	3.15	0.9	35n	0.8	5.0	300m	4	8	74-393	FP147
97▼	HD74LS393G	TTL	16	2	UP	25M	No	2.0	0.8	60n	300m	5.0	400m	2	7	74-393N	DIP14a
98♦	HD74LS393P	TTL	16	2	UP	25M	No	2.0	0.8	40n	300m	5.0	400m	2	7	74-393N	DIP14a
99♦	N74LS393D	TTL	16	2	UP	25M	No	2.0	0.8	60n	0.3	5.0	130m	0	7	74-393N	DIP14b
100♦	N74LS393N	TTL	16	2	UP	25M	No	2.0	0.8	60n	0.3	5.0	130m	0	7	74-393N	DIP14a
101♦	S54LS393F	TTL	16	2	UP	25M	No	2.0	0.7	60n	0.3	5.0	130m	5	C	74-393N	DIP14b
102♦	S54LS393W	TTL	16	2	UP	25M	No	2.0	0.7	60n	0.3	5.0	130m	5	C	54-393W	FP39e
103♦	SN74HC393N	CMS	16	2	UP	25M	No	3.15	0.9	72n	1.2	5.0		4	8	74-393N	MO001AA
104♦	74HC393D	CMS	16	2	UP	28M		4.2	1.8		2.4	5.0		4		74-393N	FP147
105♦	74HC393N	CMS	16	2	UP	28M		4.2	1.8		2.4	5.0		4		74-393N	DIP14a
106♦	74HC4520D	CMS	16	2	UP	28M		4.2	1.8	51n	2.4	5.0		4		45-20	FP162
107♦	74HC4520N	CMS	16	2	UP	28M		4.2	1.8	51n	2.4	5.0		4		45-20	DIP16b
108♦	M74HC393B1(A)	CMS	16	2	UP	29M	No	3.15	1.35	65n	1.2	5.0	500m	4	8	74-393	DIP14a
109♦	M74HC393C1(A)	CMS	16	2	UP	29M		3.15	1.35	65n	1.2	5.0	500m	4	8	E02-214	LC33
110♦	M74HC393F1(A)	CMS	16	2	UP	29M	No	3.15	1.35	65n	1.2	5.0	500m	4	8	74-393	DIP14a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

IN ORDER OF: (1) MODULUS (2) CKTS/PKG (3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	HEF4520BD	CMS	16	2	UP	30M	No	7.0	3.0	100n	2.9 †	10	500m	4	8	45-20B	DIP16b
2♦	HEF4520BP	CMS	16	2	UP	30M	No	7.0	3.0	100n	2.9 †	10	500m	4	8	45-20B	DIP16b
3♦	HEF4520BT	CMS	16	2	UP	30M	No	7.0	3.0	100n	2.9 †	10	400m	4	8	45-20B	FP148
4♦	MC54HC393J(A)	CMS	16	2	UP	30M	No	3.2	2.4	20n		6.0	500m	5	C	74-393N	DIP14a
5♦	MC74HC393J(A)	CMS	16	2	UP	30M	No	3.2	2.4	20n		6.0	500m	4	8	74-393N	DIP14a
6♦	MC74HC393N(A)	CMS	16	2	UP	30M	No	3.2	2.4	20n		6.0	500m	4	8	74-393N	DIP14a
7♦	TC40H393F	CMS	16	2	UP	30M	No	4.0	1.0	68n	.95	10	180m	4	8	54-393W	FP166
8♦	TC40H393P	CMS	16	2	UP	30M	No	4.0	1.0	63n	.95	10	300m	4	8	74-393N	MO001AA
9♦	DM54LS393J	TTL	16	2	UP	35M	No	2.0	0.7		0.3	5.0		5	C	E02-107	DIP14b
10♦	DN74LS393P1	TTL	16	2	UP	35M	No	2.0	0.8	60n	700m	5.0	400m	2	7	74-393	DIP14a
11♦	DN74LS393P4	TTL	16	2	UP	35M	No	2.0	0.8	60n	700m	5.0	400m	2	7	74-393	FP177
12♦	SN54LS393J	TTL	16	2	UP	35M	No	2.0	0.7	60n	0.3	5.0		5	C	74-393N	DIP14a
13▼	SN54LS393N	TTL	16	2	UP	35M	No	2.0	0.7	60n	0.3	5.0		5	C	74-393N	DIP14a
14♦	SN74LS393D	TTL	16	2	UP	35M	No	2.0	0.8	60n	0.4	5.0		0	7	74-393	FP147
15♦	SN74LS393J	TTL	16	2	UP	35M	No	2.0	0.8	60n	0.4	5.0		0	7	74-393N	DIP14a
16♦	SN74LS393N	TTL	16	2	UP	35M	No	2.0	0.8	60n	300m	5.0		0	7	74-393N	DIP14a
17♦	SN54393J	TTL	16	2	UP	35M	No	2.0	0.8	60n	0.4	5.0	190m†	5	C	74-393N	DIP14a
18♦	SN74393N	TTL	16	2	UP	35M	No	2.0	0.8	60n	0.4	5.0	190m†	0	7	74-393N	DIP14a
19♦	CD74HC393E	CMS	16	2	UP	41M	No	3.15	1.35	60n	1.2	5.0	500m	4	8	74-393	MO001AG
20♦	CD74HC393M	CMS	16	2	UP	41M	No	3.15	1.35	60n	1.2	5.0	400m	4	8	74-393	FP147
21♦	CD74HCT393E	CMS	16	2	UP	45M	No	2.00	0.80	60n	0.7	5.0	500m	4	8	74-393	MO001AB
22♦	CD74HCT393M	CMS	16	2	UP	45M	No	2.0	0.8	60n	0.7	5.0	400m	4	8	74-393	FP147
23♦	CD54HC393F	CMS	16	2	UP	50M	No	3.15	1.35	73n	1.2	5.0	500m	5	C	74-393	MO001AB
24♦	PC54HC4520D(A)	CMS	16	2	UP	50M	No	3.15	0.9	12n	0.8	5.0	500m	5	C	45-20	DIP16b
25♦	PC54HCT4520D(A)	CMS	16	2	UP	50M	No	2.0	0.8	14n	0.7	5.0	500m	5	C	45-20	DIP16b
26♦	PC74HC4520D(A)	CMS	16	2	UP	50M	No	3.15	0.9	12n	0.8	5.0	500m	4	8	45-20	DIP16b
27♦	PC74HCT4520D(A)	CMS	16	2	UP	50M	No	2.0	0.8	14n	0.7	5.0	500m	4	8	45-20	DIP16b
28▼	TC74HC4520F(A)	CMS	16	2	UP	53M	No	3.15	1.35	48n	1.2	5.0	500m	4	8	45-20B	FP167
29▼	TC74HC4520P(A)	CMS	16	2	UP	53M	No	3.15	1.35	48n	1.2	5.0	500m	4	8	45-20B	DIP16a
30♦	CD54HCT393F	CMS	16	2	UP	55M	No	2.00	0.80	73n	1.2	5.0	500m	5	C	74-393	MO001AB
31♦	UPD74HC393C(A)	CMS	16	2	UP	60M	N	4.2	1.2	55n		6.0	500m	4	8	74-393	MO001A
32♦	M54HC393F1(A)	CMS	16	2	UP	62M	No	3.15	1.35	54n	1.2	5.0	500m	5	C	74-393	DIP14a
33▼	TC74HC393F(A)	CMS	16	2	UP	68M	No	3.15	1.35	68n	1.2	5.0	180m	4	8	74-393N	FP166
34▼	TC74HC393P(A)	CMS	16	2	UP	68M	No	3.15	1.35	68n	1.2	5.0	500m	4	8	74-393N	DIP14a
35♦	SN74LS69N	TTL	16	2	UP	70M		2.0	0.8	54n	0.4	5.0		0	7	74LS69	DIP16a
36♦	M74LS393P	TTL	16	2	UP	75M	No	2.0	0.8	60n	0.4	5.0	75m†	2	7	74-393N	DIP14a
37♦	MB74LS193	TTL	16	2	UP/DOWN	25M	Yes	2.0	0.8	47n		5.0	170m	2	7	74-193N	DIP16a
38♦	N74193F	TTL	16	2	UP/DOWN	25M	Yes	2.0	0.8	47n	1.0 †	5.0	510m	0	7	74-193N	DIP16b
39♦	N74193N	TTL	16	2	UP/DOWN	25M	Yes	2.0	0.8	47n	0.4	5.0	510m	0	7	74-193N	DIP16a
40♦	74193DC	TTL	16	2	UP/DOWN	30M	Yes	2.0	0.8	47n	400m*	5.0	325m†	0	7	74-193N	DIP16b
41♦	SN74193N	TTL	16	2	UP/DOWN	32M	Yes	2.0	0.8	47n	0.4	5.0	325m†	0	7	74-193N	DIP16a
42♦	ZN74193E	TTL	16	2	UP/DOWN	32M	Yes	2.0	0.8	47n	1.0	5.0	325m†	0	7	74-193N	TO-116
43♦	ZN74193J	TTL	16	2	UP/DOWN	32M	Yes	2.0	0.8	47n	1.0	5.0	325m†	0	7	74-193N	DIP14a

COUNTER, BINARY OTHER-MODULUS

47♦	989DC	RTL		1	UP			1.2	.45C	90n		3.6	385m	0	7	9-89L	TO-116
48♦	989HM	RTL		1	UP			1.2	.45C	90n		3.6	385m	0	7	9-89L	TO-99
49♦	DN811	DTL		1	UP			13	0.4		1.0	15	450m	2	7	E06-17	DIP14b
50♦	DN851	DTL		1	UP			2.6	0.4			5.0	230mQ	2	6	9-51	DIP14b
51♦	HEF4737VPN	CMS		1	UP						4.5 †	10	400m	4	8	47-37B	DIP18b
52♦	HEF4753BPN	CMS		1	UP			11.0	4.0	130n		15	400m	4	8	47-53	DIP18b
53♦	K155IE1	TTL		1	UP			2.4	0.4			5.0		1	7	None	None
54♦	K155IE2	TTL		1	UP			2.4	0.4			5.0		1	7	None	None
55♦	K155IE4	TTL		1	UP			2.4	0.4			5.0		1	7	None	None
56♦	K155IE6	TTL		1	UP			2.4	0.4	40n		5.0		1	7	None	None
57♦	K155IE7	TTL		1	UP			2.4	0.4	40n		5.0		1	7	None	None
58♦	K155IE9	TTL		1	UP			2.4	0.4			5.0		1	7	None	None
59♦	K176IE1	MOS		1	UP			8.2	0.3	600n		9.0		1	7	None	None
60▼	M54HC590F1	CMS		1	UP			3.15	1.35			5.0		5	C	54LS590	DIP16a
61▼	M74HC590B1	CMS		1	UP			3.15	1.35			5.0		4	8	74LS590	DIP16a
62▼	M74HC590C1	CMS		1	UP			3.15	1.35			5.0		4	8	E02-215	LC19
63▼	M74HC590F1	CMS		1	UP			3.15	1.35			5.0		4	8	74LS590	DIP16a
64♦	MSM5572	CMS		1	UP			2.7	0.3			3.0	630u	2	7	E02-125b	DIP14a
65♦	MSM5572A	CMS		1	UP			1.1	0.2			1.5	9.0u	2	7	E02-125b	DIP14a
66♦	FZJ141	DTL		1	UP	500k		7.5	4.5	200n	5.0 †	12	240m	0	7	E01-69	DIP16a
67♦	FZJ141A	DTL		1	UP	500k		7.5	4.5	200n	5.0 †	12	240m	0	7	E01-103	DIP16a
68♦	FZJ145A	DTL		1	UP	500k		7.5	4.5	200n	5.0 †	12	240m	2	8	E01-103	DIP16a
69♦	FZJ151	DTL		1	UP	500k		7.5	4.5	200n	5.0 †	12	240m	0	7	E02-122	DIP16a
70♦	FZJ151A	DTL		1	UP	500k		7.5	4.5	200n	5.0 †	12	240m	0	7	E02-122	DIP16a
71♦	FZJ155A	DTL		1	UP	500k		7.5	4.5	200n	5.0 †	12	240m	2	8	E02-122	DIP16a
72♦	TC5001P	CMS		1	UP	500k		4.9	.05C	1.0u	1.5	5.0	300m	3	8	E01-139	DIP24b
73♦	TC5037P	CMS		1	UP	500k		4.9	.05C	1.0u	1.5	5.0	300m	3	8	E01-143	DIP16a
74♦	TC5052P	CMS		1	UP	500k		4.9	.05C	2.5u	1.5	5.0	300m	3	8	None	DIP16a
75♦	TC5053P	CMS		1	UP	500k		3.5	1.5		1.5	5.0	300m	4	8	None	DIP24b
76♦	TC5054P	CMS		1	UP	500k		3.5	1.5		1.5	5.0	300m	4	8	None	DIP24b
77♦	TC5026P	CMS		1	UP	800k		4.9	.05C	280n	1.5	5.0	300m	3	8	E01-141	DIP14a
78♦	TC5027P	CMS		1	UP	800k		4.9	.05C	280n	1.5	5.0	300m	3	8	E02-186	DIP14a
79♦	H156D1	DTL		1	UP	1.0M		8.0	6.0	600n	5.0 †	20	720m	0	7	E02-83	DIP14b
80♦	H156D2	DTL		1	UP	1.0M		8.0	6.0	600n	5.0 †	16	352m	5	C	E02-83	DIP14b
81♦	H156D6	DTL		1	UP	1.0M		8.0	6.0	600n	5.0 †	16	464m	4	8	E02-83	DIP14
82♦	H157D1	DTL		1	UP	1.0M		8.0	6.0	600n	5.0 †	20	720m	0	7	E01-62	DIP14b
83♦	H157D2	DTL		1	UP	1.0M		8.0	6.0	600n	5.0 †	16	352m	5	C	E01-62	DIP14b
84♦	H157D6	DTL		1	UP	1.0M		8.0	6.0	600n	5.0 †	20	720m	4	8	E01-62	DIP14
85♦	H256B1	DTL		1	UP	1.0M		8.0	6.0	600n	5.0	16	720mQ	0	7	E02-83	DIP14b
86♦	H257B1	DTL		1	UP	1.0M		8.0	6.0	600n	5.0	16	720mQ	0	7	E01-62	DIP14b
87♦	MSM5500RS	CMS		1	UP	1.0M		3.6	0.8	4.0u	0.6	5.0		3	8	E03-85	DIP16a
88♦	TC5018P	CMS		1	UP	1.0M		4.9	.05C	1.8u	1.5	5.0	300m	3	8	E02-185	DIP14a
89♦	958DC	RTL		1	UP	2.0M		1.2	.45C			3.6	140m	0	7	9-57	TO-116
90♦	958HM	RTL		1	UP	2.0M		1.2	.45C			3.6	140m	0	7	9-57	TO-99
91♦	K176IE2	MOS		1	UP	2.0M		8.2	0.3			9.0		1	7	None	None
92♦	MSM551	CMS		1	UP	2.0M		3.6	0.8	1.0u		5.0	250u	2	7	E05-10	DIP16a
93♦	MSM551RS	CMS		1	UP	2.0M		3.6	0.8	500n	0.6	5.0		3	8	E05-10	DIP16a
94♦	MSM552RS(2)	CMS		1	UP	2.0M		3.6	0.8	2.0u	0.6	5.0		3	8	E03-90b	DIP24a
95♦	MSM5505	CMS		1	UP	2.0M		3.6	0.8	1.0u		5.0	250u	2	7	E01-106	DIP24a
96♦	MSM5505RS	CMS		1	UP	2.0M		3.6	0.8	1.0u	0.6	5.0		3	8	E03-89	DIP16a
97♦	MSM5538RS	CMS		1	UP	2.0M		3.6	0.8	1.0u	0.6	5.0		3	8	E02-123	DIP14a
98♦	Z80CTCCE	NCH		1	UP	2.5M		2.0	0.8			5.0		4	8	J07-05	DIP28a
99♦	Z80CTCCM	NCH		1	UP	2.5M		2.0	0.8			5.0		5	C	J07-05	DIP28a
100♦	Z80CTCCS	NCH		1	UP	2.5M		2.0	0.8			5.0		0	7	J07-05	DIP28a
101♦	Z80CTCPS	NCH		1	UP	2.5M		2.0	0.8			5.0		0	7	J07-05	DIP28a
102♦	MB84029BM	CMS		1	UP	4.0M	Yes	10.5	4.5	280n	4.5 *	15	1.2mQ	4	8	40-29B	DIP16b
103♦	MSM5530RS	CMS		1	UP	4.0M		3.6	0.8	300n	0.6	5.0		3	8	E01-169	DIP14a
104♦	MSM5531RS	CMS		1	UP	4.0M		3.6	0.8	300n	0.6	5.0		3	8	E01-170	DIP14a
105♦	Z80ACTCCE	NCH		1	UP	4.0M		2.0	0.8			5.0		4	8	J07-05	DIP28a
106♦	Z80ACTCCM	NCH		1	UP	4.0M		2.0	0.8			5.0		5	C	J07-05	DIP28a
107♦	Z80ACTCCS	NCH		1	UP	4.0M		2.0	0.8			5.0		0	7	J07-05	DIP28a
108♦	M730B1	CMS		1	UP	4.2M		12	.01C			16	200m	4	8	E02-192	DIP14 ☑
109♦	M730D1	CMS		1	UP	4.2M		12	.01C			16	200m	4	8	E02-192	DIP14a
110♦	M731B1	CMS		1	UP	4.2M		12	.01C			16	200m	4	8	E02-192	DIP14a

11. COUNTERS - Binary, Other Modulus (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG (3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	M731D1	CMS		1	UP	4.2M		12	.01C			16	200m	4	8	E02-192	DIP14a
2♦	M750B1	CMS		1	UP	4.2M		12	.01C			16	200m	4	8	E02-194	None
3♦	M750D1	CMS		1	UP	4.2M		12	.01C			16	200m	4	8	E02-194	DIP16a
4♦	M752B1	CMS		1	UP	4.2M		12	.01C			16	200m	4	8	E02-194	DIP16a
5♦	M752D1	CMS		1	UP	4.2M		12	.01C			16	200m	4	8	E02-195	DIP16a
6♦	M754B1	CMS		1	UP	4.2M		12	.01C			16	200m	4	8	E02-196	None
7♦	M754D1	CMS		1	UP	4.2M		12	.01C			16	200m	4	8	E02-196	DIP16a
8♦	4727BDC	CMS		1	UP	5.0M		11	4.0	400n	6.7 †	15	9.0mQ	4	8	47-27B	TO-116
9♦	4727BDM	CMS		1	UP	5.0M		11	4.0	400n	6.7 †	15	9.0mQ	5	C	47-27B	TO-116
10♦	4727BFC	CMS		1	UP	5.0M		11	4.0	400n	6.7 †	15	9.0mQ	4	8	47-27B	FP21h
11♦	4727BFM	CMS		1	UP	5.0M		11	4.0	400n	6.7 †	15	9.0mQ	5	C	47-27B	FP21h
12♦	4727BPC	CMS		1	UP	5.0M		11	4.0	400n	6.7 †	15	9.0mQ	4	8	47-27B	DIP14a
13♦	4737BDC	CMS		1	UP	5.0M		11	4.0	400n	6.7 †	15	9.0mQ	4	8	47-37B	TO-116
14♦	4737BDM	CMS		1	UP	5.0M		11	4.0	400n	6.7 †	15	9.0mQ	5	C	47-37B	TO-116
15♦	4737BFC	CMS		1	UP	5.0M		11	4.0	400n	6.7 †	15	9.0mQ	4	8	47-37B	FP21h
16♦	4737BFM	CMS		1	UP	5.0M		11	4.0	400n	6.7 †	15	9.0mQ	5	C	47-37B	FP21h
17♦	4737BPC	CMS		1	UP	5.0M		11	4.0	400n	6.7 †	15	9.0mQ	4	8	47-37B	DIP14a
18♦	GZF1201P	CMS		1	UP	5.0M		3.5	1.5	900n		5.0	500uQ	4	8	E03-50	DIP16b
19♦	LS7030	PCH		1	UP	5.0M		4.0	1.05		3.8 *	15	825m	2	7	None	DIP40a
20♦	M702D2	CMS		1	UP	5.0M		9.99	.01C		4.5 †	15	200m	5	C	E02-197	TO-99
21♦	MSM5501RS	CMS		1	UP	5.0M		3.6	0.8	2.0u	0.6	5.0		3	8	E03-86	DIP16a
22♦	FCJ141	DTL		1	UP	7.0M		3.9	0.4C	200n	1.2 †	6.0	180m†	0	7	E02-69	DIP14a
23♦	MB84524B	CMS		1	UP	8.0M		10.5	4.5	332n	4.5 *	15	1.2mQ	4	8	45-24	DIP14b
24♦	MB84524BM	CMS		1	UP	8.0M		10.5	4.5	332n	4.5 *	15	1.2mQ	4	8	45-24	DIP14a
25♦	SCL4040B	CMS		1	UP	8.0M	No	7.0	3.0	180n	3.0	18	300m	5	C	40-40B	DIP16a
26♦	M702B1	CMS		1	UP	10M		9.99	.01C		4.5 †	15	200m	4	8	E02-197	DIP8a
27♦	M702D1	CMS		1	UP	10M		9.99	.01C		4.5 †	15	200m	4	8	E02-197	TO-99
28♦	M706B1	CMS		1	UP	10M		9.99	.01C			15	200m	4	8	E02-190	DIP8a
29♦	M714B1	CMS		1	UP	10M		9.99	.01C	20n	4.5 †	15	200m	4	8	E02-191	DIP14a
30♦	M714D1	CMS		1	UP	10M		9.99	.01C		4.5 †	15	200m	4	8	E02-191	DIP14a
31♦	TC5032P	CMS		1	UP	10M		4.9	.05C	2.0u	1.5	5.0	300m	3	8	E01-142	DIP28a
32♦	DM54L192W	TTL		1	UP	12M		2.0	0.7	60n	0.4	8.0	40m	5	C	E02-158	FP98b
33♦	DM54L193W	TTL		1	UP	12M		2.0	0.7	60n	0.4	8.0	40m	5	C	E02-158	FP98b
34♦	TC9122P	CMS		1	UP	15M		5.5	2.0			7.5		3	7	E01-173	DIP18a
35▼	SN74HC590N(A)	CMS		1	UP	16M	No	3.15	0.90	1.2	1.0	5.0		4	8	74LS590	DIP16a
36♦	TC40H163F	CMS		1	UP	17M	Yes	4.0	1.0	60n	.95	10	180m	4	8	54LS163W	FP167
37♦	AM25LS2568FMB	TTL		1	UP	18M		2.0	0.8	17n		5.0		5	C	54LS568W	FP143
38♦	AM25LS2568LC	TTL		1	UP	18M		2.0	0.7	17n		5.0		0	7	E01-182	LC17
39♦	AM25LS2568LMB	TTL		1	UP	18M		2.0	0.8	17n		5.0		5	C	E01-182	LC17
40♦	AM25LS2569FMB	TTL		1	UP	18M		2.0	0.8	17n		5.0		5	C	54LS568W	FP143
41♦	AM25LS2569LC	TTL		1	UP	18M		2.0	0.7	17n		5.0		0	7	E01-182	LC17
42♦	AM25LS2569LMB	TTL		1	UP	18M		2.0	0.8	17n		5.0		5	C	E01-182	LC17
43♦	M53290P	TTL		1	UP	18M		2.0	0.8	60n	1.0 †	5.0	160m†	0	7	None	DIP14a
44♦	M53292P	TTL		1	UP	18M		2.0	0.8	60n	1.0 †	5.0	155m†	0	7	E02-46b	DIP14a
45♦	M53293P	TTL		1	UP	18M		2.0	0.8	75n	1.0 †	5.0	160m†	0	7	E02-46a	DIP14a
46♦	74HCT4020D	CMS		1	UP	20M		2.0	0.8		1.2	5.0		4		40-20	FP162
47♦	74HCT4020N	CMS		1	UP	20M		2.0	0.8		1.2	5.0		4		40-20	DIP16b
48▼	HD74HC590FP	CMS		1	UP	20M	No	3.15	1.35	43n	1.2	5.0	500m	4	8	74-590	FP162
49▼	HD74HC590P	CMS		1	UP	20M	No	3.15	1.35	43n	1.2	5.0	500m	4	8	74-590	DIP16a
50▼	HD74HC592FP(A)	CMS		1	UP	20M	No	3.15	1.35	43n	1.2	5.0	500m	4	8	74-592	FP162
51▼	HD74HC592P(A)	CMS		1	UP	20M	No	3.15	1.35	43n	1.2	5.0	500m	4	8	74-592	DIP16a
52▼	HD74HC593FP	CMS		1	UP	20M	No	3.15	1.35	43n	500m	5.0	500m	4	8	74-593	FP168
53▼	HD74HC593P	CMS		1	UP	20M	No	3.15	1.35	43n	500m	5.0	500m	4	8	74-593	DIP20a
54▼	HD74HC4024FP	CMS		1	UP	20M	No	3.15	1.35	14n	1.2	5.0	500m	4	8	40-24B	FP161
55▼	HD74HC4024P	CMS		1	UP	20M	No	3.15	1.35	14n	1.2	5.0	500m	4	8	40-24B	DIP14a
56♦	M74HC4022C1(A)	CMS		1	UP	20M		3.15	1.35	47n	1.2	5.0	500m	4	8	E10-2	LC33
57♦	M74HC4102B1(A)	CMS		1	UP	20M		3.15	1.35	68n	1.2	5.0	500m	4	8	E01-116	DIP16a
58♦	M74HC4102C1(A)	CMS		1	UP	20M		3.15	1.35	68n	1.2	5.0	500m	4	8	E01-183	LC33
59♦	M74HC4102F1(A)	CMS		1	UP	20M		3.15	1.35	68n	1.2	5.0	500m	4	8	E01-116	DIP16b
60♦	M74HC4103B1(A)	CMS		1	UP	20M		3.15	1.35	68n	1.2	5.0	500m	4	8	E01-116	DIP16a
61♦	M74HC4103C1(A)	CMS		1	UP	20M		3.15	1.35	68n	1.2	5.0	500m	4	8	E01-183	LC33
62♦	M74HC4103F1(A)	CMS		1	UP	20M		3.15	1.35	68n	1.2	5.0	500m	4	8	E01-116	DIP16b
63♦	SN74HC4040N	CMS		1	UP	22M	No	3.15	0.9	38n	1.2	5.0		4	8	40-40B	DIP16a
64♦	SN74HC4060N	CMS		1	UP	22M	No	3.15	0.90	35n	1.2	5.0		4	8	40-60B	DIP16a
65▼	SN74HC4061N	CMS		1	UP	22M	No	3.15	0.90	35n	1.2	5.0		4	8	40-60B	DIP16a
66♦	74HCT4024D	CMS		1	UP	24M		2.0	0.8		1.2	5.0		4		40-24	FP147
67♦	74HCT4024N	CMS		1	UP	24M		2.0	0.8		1.2	5.0		4		40-24	DIP14a
68♦	74HCT4040D	CMS		1	UP	24M		2.0	0.8		1.2	5.0		4		40-40	FP162
69♦	74HCT4040N	CMS		1	UP	24M		2.0	0.8		1.2	5.0		4		40-40	DIP16b
70♦	M74HC4024C1(A)	CMS		1	UP	25M		3.15	1.35	35n	1.2	5.0	500m	4	8	E02-243	LC33
71♦	SP3280A	TTL		1	UP	25M		3.5	.60C	50n	1.0 †	5.0	260m	0	7	E03-26	TO-116
72♦	SP3281A	TTL		1	UP	25M		3.5	.60C	50n	1.0 †	5.0	260m	0	7	E03-26	TO-116
73♦	74HC4020D	CMS		1	UP	28M		4.2	1.8		2.4	5.0		4		40-20	FP162
74♦	74HC4020N	CMS		1	UP	28M		4.2	1.8		2.4	5.0		4		40-20	DIP16b
75♦	74HC4024D	CMS		1	UP	28M		4.2	1.8		2.4	5.0		4		40-24	FP147
76♦	74HC4024N	CMS		1	UP	28M		4.2	1.8		2.4	5.0		4		40-24	DIP14a
77♦	74HC4040D	CMS		1	UP	28M		4.2	1.8		2.4	5.0		4		40-40	FP162
78♦	74HC4040N	CMS		1	UP	28M		4.2	1.8		2.4	5.0		4		40-40	DIP16b
79▼	SN74HC4024D	CMS		1	UP	28M	No	3.15	0.9	30n	1.2	5.0		4	8	40-24	FP147
80▼	SN74HC4024N	CMS		1	UP	28M	No	3.15	0.9	30n	1.2	5.0		4	8	40-24	DIP14a
81▼	HD74LS92G	TTL		1	UP	32M	No	2.0	0.8	50n	300m	5.0	400m	2	7	74-92N	DIP14a
82♦	HD74LS92P	TTL		1	UP	32M	No	2.0	0.8	50n	0.7	5.0	84m	2	7	74-92N	DIP14a
83♦	M54HC4102F1(A)	CMS		1	UP	40M		3.15	1.35	56n	1.2	5.0	500m	5	C	E01-116	DIP16b
84♦	M54HC4103F1(A)	CMS		1	UP	40M		3.15	1.35	56n	1.2	5.0	500m	5	C	E01-116	DIP16b
85♦	DM7490AN	TTL		1	UP	42M	No	2.0	0.8	16n	0.4	5.0	145m	0	7	74-90N	DIP14a
86♦	54F525DM(A)	TTL		1	UP	65M		2.0	0.8	19n		5.0		5	C	E02-233	DIP28a
87♦	54F525L1M(A)	TTL		1	UP	65M		2.0	0.8	19n		5.0		5	C	E02-234	LC19a
88♦	74F525DC(A)	TTL		1	UP	65M		2.0	0.8	19n		5.0		0	7	E02-233	DIP28a
89♦	74F525L1C(A)	TTL		1	UP	65M		2.0	0.8	19n		5.0		0	7	E02-234	LC19a
90♦	74F525PC(A)	TTL		1	UP	65M		2.0	0.8	19n		5.0		0	7	E02-233	DIP28a
91♦	74F525QC(A)	TTL		1	UP	65M		2.0	0.8	19n		5.0		0	7	E02-234	LC27
92♦	74F525SC(A)	TTL		1	UP	65M		2.0	0.8	19n		5.0		0	7	E02-233	FP174
93♦	54F269DM(A)	TTL		1	UP	100M		2.0	0.8	15n		5.0		5	C	E02-231	DIP24a
94♦	54F269L1M(A)	TTL		1	UP	100M		2.0	0.8	15n		5.0		5	C	E02-232	LC19a
95♦	54F579DM	TTL		1	UP	100M		2.0	0.8	10n		5.0		5	C	E02-236	DIP20b
96♦	54F579L1M	TTL		1	UP	100M		2.0	0.8	10n		5.0		5	C	E02-237	LC19
97♦	54F779L1M(A)	TTL		1	UP	100M		2.0	0.8	5.0n		5.0		5	C	E02-238	LC19
98♦	74F269DC(A)	TTL		1	UP	100M		2.0	0.8	15n		5.0		0	7	E02-231	DIP24a
99♦	74F269L1C(A)	TTL		1	UP	100M		2.0	0.8	15n		5.0		0	7	E02-232	LC19a
100♦	74F269PC(A)	TTL		1	UP	100M		2.0	0.8	15n		5.0		0	7	E02-231	DIP24a
101♦	74F269QC(A)	TTL		1	UP	100M		2.0	0.8	15n		5.0		0	7	E02-232	LC27
102♦	74F269SC(A)	TTL		1	UP	100M		2.0	0.8	15n		5.0		0	7	E02-231	FP170
103♦	74F269SPC(A)	TTL		1	UP	100M		2.0	0.8	15n		5.0		0	7	E02-231	DIP24e
104♦	74F579DC	TTL		1	UP	100M		2.0	0.8	10n		5.0		0	7	E02-236	DIP20b
105♦	74F579L1C	TTL		1	UP	100M		2.0	0.8	10n		5.0		0	7	E02-237	LC19
106♦	74F579PC	TTL		1	UP	100M		2.0	0.8	10n		5.0		0	7	E02-236	DIP20a
107♦	74F579QC	TTL		1	UP	100M		2.0	0.8	10n		5.0		0	7	E02-237	LC26
108♦	74F579SC	TTL		1	UP	100M		2.0	0.8	10n		5.0		0	7	E02-236	FP169
109♦	74F779L1C(A)	TTL		1	UP	100M		2.0	0.8	5.0n		5.0		0	7	E02-238	LC19
110♦	74F779QC(A)	TTL		1	UP	100M		2.0	0.8	5.0n		5.0		0	7	E02-238	LC26

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODULUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	74F568SC	TTL		1	UP	115M		2.0	0.8	13n		5.0		0	7	54LS568	FP169
2♦	MC10538F	ECL		1	UP	125M		-1.1	-1.4C	5.0n		-5.2	458m	5	C	E06-15	FP85
3♦	MC10538L	ECL		1	UP	125M		-1.1	-1.4C	5.0n		-5.2	458m	5	C	E06-15	DIP16a
4♦	MC10578F	ECL		1	UP	125M		-1.1	-1.4C	9.2n		-5.2	458m	5	C	E02-104	FP85
5♦	MC10578L	ECL		1	UP	125M		-1.1	-1.4C	9.2n		-5.2	458m	5	C	E02-104	DIP16a
6▼	MC10138FN	ECL		1	UP	150M		-1.1	-1.4C	5.0n		-5.2	458m	3	8	E06-15	DIP16a
7♦	MC10138L	ECL		1	UP	150M		-1.1	-1.4C	5.0n		-5.2	458m	3	8	E06-15	DIP16a
8▼	MC10138LD	ECL		1	UP	150M		-1.1	-1.4C	5.0n		-5.2	458m	3	8	E06-15	DIP16a
9▼	MC10138LDS	ECL		1	UP	150M		-1.1	-1.4C	5.0n		-5.2	458m	3	8	E06-15	DIP16a
10♦	MC10138P	ECL		1	UP	150M		-1.1	-1.4C	5.0n		-5.2	458m	3	8	E06-15	DIP16b
11▼	MC10138PD	ECL		1	UP	150M		-1.1	-1.4C	5.0n		-5.2	458m	3	8	E06-15	DIP16b
12▼	MC10138PDS	ECL		1	UP	150M		-1.1	-1.4C	5.0n		-5.2	458m	3	8	E06-15	DIP16b
13♦	MC10154L	ECL		1	UP	150M		-1.1	-1.4C	15n		-5.2	370m†	0	7	E02-104	DIP16a
14▼	MC10154LD	ECL		1	UP	150M		-1.1	-1.4C	15n		-5.2	370m†	0	7	E02-104	DIP16a
15▼	MC10154LDS	ECL		1	UP	150M		-1.1	-1.4C	15n		-5.2	370m†	0	7	E02-104	DIP16a
16♦	MC10154P	ECL		1	UP	150M		-1.1	-1.4C	15n		-5.2	370m†	0	7	E02-104	DIP16b
17▼	MC10154PD	ECL		1	UP	150M		-1.1	-1.4C	15n		-5.2	370m†	0	7	E02-104	DIP16b
18▼	MC10154PDS	ECL		1	UP	150M		-1.1	-1.4C	15n		-5.2	370m†	0	7	E02-104	DIP16b
19▼	MC10178FN	ECL		1	UP	150M		-1.1	-1.4C	15n		-5.2	458m	3	8	E02-104	DIP16a
20♦	MC10178L	ECL		1	UP	150M		-1.1	-1.4C	15n		-5.2	458m	3	8	E02-104	DIP16a
21▼	MC10178LD	ECL		1	UP	150M		-1.1	-1.4C	15n		-5.2	458m	3	8	E02-104	DIP16a
22▼	MC10178LDS	ECL		1	UP	150M		-1.1	-1.4C	15n		-5.2	458m	3	8	E02-104	DIP16a
23♦	MC10178P	ECL		1	UP	150M		-1.1	-1.4C	15n		-5.2	458m	3	8	E02-104	DIP16b
24▼	MC10178PD	ECL		1	UP	150M		-1.1	-1.4C	15n		-5.2	458m	3	8	E02-104	DIP16b
25▼	MC10178PDS	ECL		1	UP	150M		-1.1	-1.4C	15n		-5.2	458m	3	8	E02-104	DIP16b
26♦	F10016DC	ECL		1	UP	200M		-1.1	-1.4C	5.0n	145m*	-4.5	598mQ	0	7	E02-173	DIP16a
27♦	F10016DM	ECL		1	UP	200M		-1.1	-1.4C	5.0n	145m*	-4.5	598mQ	5	C	E02-173	DIP16a
28♦	F10016FM	ECL		1	UP	200M		-1.1	-1.4C	5.0n	145m*	-4.5	598mQ	5	C	E02-173	FP103
29♦	F95016DC	ECL		1	UP	200M		-1.1	-1.4	5.0n	140m*	0	598mQ	0	7	E02-173	DIP16a
30♦	MC10H016L	ECL		1	UP	200M		-1.1	-1.4	3.2n	150m	-5.2		0	7	E02-210	DIP16a
31▼	MC10H016LD	ECL		1	UP	200M		-1.1	-1.4	3.2n	150m	-5.2		0	7	E02-210	DIP16a
32▼	MC10H016LDS	ECL		1	UP	200M		-1.1	-1.4	3.2n	150m	-5.2		0	7	E02-210	DIP16a
33♦	MC10H016P	ECL		1	UP	200M		-1.1	-1.4	3.2n	150m	-5.2		0	7	E02-210	DIP16b
34▼	MC10H016PD	ECL		1	UP	200M		-1.1	-1.4	3.2n	150m	-5.2		0	7	E02-210	DIP16b
35▼	MC10H016PDS	ECL		1	UP	200M		-1.1	-1.4	3.2n	150m	-5.2		0	7	E02-210	DIP16b
36♦	HXA100136D	ECL		1	UP	300M		-1.1	-1.4	1.8n		-4.5	800m	0	8	E06-33	DL ☑
37♦	HXA100136F	ECL		1	UP	300M		-1.1	-1.4	1.8n		-4.5	800m	0	8	E06-33	FP ☑
38♦	MC1654L	ECL		1	UP	300M		-.96	-1.6C	3.7n		-8	750m†	3	8	E02-88	DIP16a
39▼	MC1654LD	ECL		1	UP	300M		-.96	-1.6C	3.7n		0	750m†	3	8	E02-88	DIP16a
40▼	MC1654LDS	ECL		1	UP	300M		-.96	-1.6C	3.7n		0	750m†	3	8	E02-88	DIP16a
41♦	MC1678L	ECL		1	UP	350M		-.96	-1.6C	3.7n		-8	750m†	3	8	E06-9	DIP16a
42▼	MC1678LD	ECL		1	UP	350M		-.96	-1.6C	3.7n		0	750m†	3	8	E06-9	DIP16a
43▼	MC1678LDS	ECL		1	UP	350M		-.96	-1.6C	3.7n		0	750m†	3	8	E06-9	DIP16a
44♦	F100136DC(1)	ECL		1	UP	450M		-1.1	-1.4	6.5n	140m*	-4.5	1.3	0	7	E02-174	DIP24c
45♦	F100136FC(1)	ECL		1	UP	450M		-1.1	-1.4	6.5n	140m*	-4.5	1.3	0	7	E02-174	FP126
46♦	SP8906	TTL		1	UP	500M		2.3	1.3	60n		5.0		3	7	E09-02	DIP14a
47♦	MC1699L	ECL		1	UP	1.0G		-1.0	-1.6C			-8		3	8	E02-116	DIP16a
48▼	MC1699LD	ECL		1	UP	1.0G		-1.0	-1.6C			0		3	8	E02-116	DIP16a
49▼	MC1699LDS	ECL		1	UP	1.0G		-1.0	-1.6C			0		3	8	E02-116	DIP16a
50♦	SP8901	TTL		1	UP	1.0G		2.3	1.3	60n		5.0		3	7	E09-1	DIP14a
51♦	10G060-4F(A)	GA		1	UP	1.5G		-0.6	-1.8	4.9n		4.0	1.0			E02-240	FP172
52♦	10G060-4L(A)	GA		1	UP	1.5G		-0.6	-1.8	4.9n		4.0	1.0			E02-239	LC31
53♦	10G065-4F(A)	ECL		1	UP	1.5G		-1.1	-1.4			-5.2	1.5			E02-242	FP172
54♦	10G065-4L(A)	ECL		1	UP	1.5G		-1.1	-1.4			-5.2	1.5			E02-241	LC31
55♦	MC1699P	ECL		1	UP	1.6G		1.0	1.6C			0	370m†	3	8	E02-116	DIP16b
56♦	10G060-3F	GA		1	UP	2.0G		-0.6	-1.8	4.0n		4.0	1.0			E02-239	FP172
57♦	10G060-3L	GA		1	UP	2.0G		-0.6	-1.8	4.0n		4.0	1.0			E02-240	LC31
58♦	10G065-3F(A)	ECL		1	UP	2.0G		-1.1	-1.4			-5.2	1.5			E02-242	FP172
59♦	10G065-3L(A)	ECL		1	UP	2.0G		-1.1	-1.4			-5.2	1.5			E02-241	LC31
60♦	HMD11016-1	ECL		1	UP	2.0G		-0.8	-2.0	1.0n		5.5	3.0	5	8	E06-35	FP160
61♦	10G060F(A)	GA		1	UP	2.5G		-0.6	-1.8	3.0n		4.0	1.0			E02-240	FP172
62♦	10G060L(A)	GA		1	UP	2.5G		-0.6	-1.8	3.0n		4.0	1.0			E02-239	LC31
63♦	10G065F(A)	ECL		1	UP	2.5G		-1.1	-1.4			-5.2	1.5			E02-242	FP172
64♦	10G065L(A)	ECL		1	UP	2.5G		-1.1	-1.4			-5.2	1.5			E02-241	LC31
65♦	10G060-2F(A)	ECL		1	UP	3.5G		-1.1	-1.4	2.5n		-5.2	1.0			E02-240	FP172
66♦	10G060-2L(A)	ECL		1	UP	3.5G		-1.1	-1.4	2.5n		-5.2	1.0			E02-239	LC31
67♦	TC40103BP	MOS		1	DOWN	4.0M	Yes	14.9	.05*	200n	4.0 *	15	300m	4	8	40-103B	DL ☑
68♦	N74F579D(A)	TTL		1	UP/DOWN	115M	Yes	2.0	0.8	11n		5.0		0	7	74F579	FP169
69♦	HD100136	ECL		1	UP/DOWN	300M		-1.1	-1.4	3.5n	145m	-4.5	40m†	0	8	E02-200	DIP24d
70♦	HD100136F	ECL		1	UP/DOWN	300M		-1.1	-1.4	3.5n	145m	-4.5	40m†	0	8	E02-200	FP146
71♦	LS7040	PCH		2	UP	350k		14	0.5C	4.5u	5.0 *	15		2	7	E03-83	DIP40a
72♦	K176IE3	MOS		3	UP			8.2	0.3			9.0		1	7	None	None
73♦	K176IE4	MOS		3	UP			8.2	0.3			9.0		1	7	None	None
74♦	MSM5536	CMS	12	1	UP	2.0M	No	3.6	0.8	1.0u		5.0	250u	2	7	74-92	DIP14a
75♦	MSM5536RS	CMS	12	1	UP	2.0M	No	3.6	0.8	1.0u	0.6	5.0		3	8	74-92	DIP14a
76♦	FJJ251-7492	TTL	12	1	UP	10M	No	2.0	0.8	100n	1.0 †	5.0	155m†	0	7	74-92N	DIP14a
77♦	N7492F	TTL	12	1	UP	10M	No	2.0	0.8	100n	1.0 †	5.0	255m	0	7	74-92N	DIP14b
78♦	N7492N	TTL	12	1	UP	10M	No	2.0	0.8	100n	0.4	5.0	255m	0	7	74-92N	DIP14a
79♦	S5492F	TTL	12	1	UP	10M	No	2.0	0.8	100n	1.0 †	5.0	220m	5	C	74-92N	DIP14b
80♦	S5492W	TTL	12	1	UP	10M	No	2.0	0.8	100n	1.0 †	5.0	220m	5	C	54-92W	FP39e
81♦	DM5492AJ	TTL	12	1	UP	16M	No	2.0	0.8		0.3	5.0		5	C	E02-34	DIP14b
82♦	N74LS92F	TTL	12	1	UP	16M	No	2.0	0.8	50n		5.0	75m	0	7	74-92N	DIP14b
83♦	SFC492E	TTL	12	1	UP	18M	No	2.0	0.8	75n	1.0	5.0	155m†	0	7	74-92N	TO-116
84♦	SFC492EM	TTL	12	1	UP	18M	No	2.0	0.8	75n	1.0	5.0	155m†	5	C	74-92N	TO-116
85♦	SFC492ET	TTL	12	1	UP	18M	No	2.0	0.8	75n	1.0	5.0	155m†	2	8	74-92N	TO-116
86♦	SFC492PM	TTL	12	1	UP	18M	No	2.0	0.8	75n	1.0	5.0	155m†	5	C	54-92W	TO-85
87♦	54LS92FM	TTL	12	1	UP	32M	No	2.0	0.7	18n	300m	5.0	75mQ	5	C	54-92W	FP52
88♦	74LS92PC	TTL	12	1	UP	32M	No	2.0	0.8	18n	300m	5.0	75mQ	0	7	74-92N	TO-116
89♦	5492ADM	TTL	12	1	UP	32M	No	2.0	0.8	50n		5.0	195m	5	C	74-92N	DIP14a
90♦	5492AFM	TTL	12	1	UP	32M	No	2.0	0.8	50n		5.0	195m	5	C	54-92W	FP52
91♦	7492ADC	TTL	12	1	UP	32M	No	2.0	0.8	50n		5.0	195m	0	7	74-92N	DIP14a
92♦	7492APC	TTL	12	1	UP	32M	No	2.0	0.8	50n		5.0	195m	0	7	74-92N	DIP14a
93♦	DM5492J	TTL	12	1	UP	32M	No	2.0	0.8	80n		5.0	215mQ	5	C	74-92N	DIP14a
94♦	DM5492W	TTL	12	1	UP	32M	No	2.0	0.8	80n		5.0	215mQ	5	C	54-92W	FP97a
95♦	DM7492N	TTL	12	1	UP	32M	No	2.0	0.8	80n		5.0	225mQ	0	7	74-92N	DIP14a
96♦	N74LS92N	TTL	12	1	UP	32M	No	2.0	0.8	50n	0.3	5.0	75m	0	7	74-92N	DIP14a
97♦	S54LS92F	TTL	12	1	UP	32M	No	2.0	0.7	50n	0.3	5.0	75m	5	C	74-92N	DIP14b
98♦	S54LS92W	TTL	12	1	UP	32M	No	2.0	0.7	50n	0.3	5.0	75m	5	C	54-92W	FP153
99♦	DM54LS92J	TTL	12	1	UP	42M	No	2.0	0.7	60n	0.3	5.0		5	C	74-92	DIP14a
100♦	DM54LS92W	TTL	12	1	UP	42M	No	2.0	0.8	20n	0.4	5.0	45m	5	C	54-92W	FP97c
101♦	DM74LS92N	TTL	12	1	UP	42M	No	2.0	0.8	20n	0.4	5.0	45m	0	7	74-92N	DIP14a
102♦	DM5492AW	TTL	12	1	UP	42M	No	2.0	0.8	16n	0.4	5.0	130m	5	C	54-92W	FP97c
103♦	DM7492AN	TTL	12	1	UP	42M	No	2.0	0.8	16n	0.4	5.0	130m	0	7	74-92N	DIP14a
104♦	DN74LS92P1	TTL	12	1	UP	42M	No	2.0	0.8	50n	700m	5.0	400m	2	7	74-92	DIP14a
105♦	DN74LS92P4	TTL	12	1	UP	42M	No	2.0	0.8	50n	700m	5.0	400m	2	7	74-92	FP177
106♦	SN54LS92J	TTL	12	1	UP	42M	No	2.0	0.7	50n	0.3	5.0		5	C	74-92N	DIP14a
107▼	SN54LS92N	TTL	12	1	UP	42M	No	2.0	0.7	50n	0.3	5.0		5	C	74-92N	DIP14a
108♦	SN74LS92D	TTL	12	1	UP	42M	No	2.0	0.8	50n	0.4	5.0	45m†	0	7	74-90	FP147
109♦	SN74LS92J	TTL	12	1	UP	42M	No	2.0	0.8	50n	0.4	5.0		0	7	74-92N	DIP14a
110♦	SN74LS92N	TTL	12	1	UP	42M	No	2.0	0.8	50n	0.4	5.0		0	7	74-92N	DIP14a

11. COUNTERS - Binary, Other Modulus (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG (3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODULUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	SN5492AJ	TTL	12	1	UP	42M	No	2.0	0.8	50n	0.4	5.0	130m†	5	C	74-92N	DIP14a
2♦	SN7492AN	TTL	12	1	UP	42M	No	2.0	0.8	50n	0.4	5.0	130m†	0	7	74-92N	DIP14a
3♦	M74LS92P	TTL	12	1	UP	80M	No	2.0	0.8	50n	0.4	5.0	45m†	2	7	74-92N	DIP14a
4♦	TC40H390P	CMS	12	2	UP	30M	No	4.0	1.0	63n	1.0	10	300m	4	8	74-390N	MO001AC
5♦	SN74LS590N	TTL	16	1	UP	20M		2.0T	0.8	33n	0.4	5.0		0	7	74LS590	DIP16a
6♦	SN54LS590J	TTL	16	1	UP	35M		2.0T	0.1	33n	0.3	5.0		5	C	74LS590	DIP16a
7▼	TQ1111-20(A)	GA	16	1	UP	2.0G	No	1.1	1.5		100m	5.0	1.6			E02-244	FP9
8▼	TQ1111-25(A)	GA	16	1	UP	2.5G	No	1.1	1.5		100m	5.0	1.6			E02-244	FP9
9▼	TQ1111-30(A)	GA	16	1	UP	3.0G	No	1.1	1.5		100m	5.0	1.6			E02-244	FP9
10♦	74HCT40103D	CMS	16	1	DOWN	12M		2.0	0.8	94n	0.7	5.0		4		40-103	FP162
11♦	74HCT40103N	CMS	16	1	DOWN	12M		2.0	0.8	94n	0.7	5.0		4		40-103	DIP16b
12♦	74HC40103D	CMS	16	1	DOWN	14M		3.15	1.35	64n	1.2	5.0		4		40-103	FP162
13♦	74HC40103N	CMS	16	1	DOWN	14M		3.15	1.35	64n	1.2	5.0		4		40-103	DIP16b
14♦	MSM5532RS	CMS	16	1	UP/DOWN	4.0M		3.6	0.8	300n	0.6	5.0		3	8	E02-204	DIP14a
15♦	100136F(1)	ECL	16	1	UP/DOWN	250M	Yes	-1.1	-1.4	2.2n		-4.5	945m†	0	8	E06-33	DIP24d
16♦	100136Y	ECL	16	1	UP/DOWN	250M	Yes	-1.1	-1.4	2.2n		-4.5	945m†	0	8	E06-33	FP173
17♦	M4024BP	CMS	128	1	UP	2.5M	No	11	4.0	320n	4.0	15	500n	4	8	40-20B	DIP16b
18♦	TC4024BP	CMS	128	1	UP	2.5M	No	14.9	.05C	320n	4.0	15	300m	4	8	40-24B	DIP14a
19♦	MSM4024RS	CMS	128	1	UP	4.0M	No	3.6	1.0	800n	0.6	16	200m	4	8	40-24B	DIP14 ☑
20♦	CD4024BCJ	CMS	128	1	UP	5.0M	No	11	4.0	100n	6.7 †	15	1.2mQ	4	8	40-24B	DIP14a
21♦	CD4024BCN	CMS	128	1	UP	5.0M	No	11	4.0	100n	6.7 †	15	1.2mQ	4	8	40-24B	DIP14a
22♦	CD4024BMJ	CMS	128	1	UP	5.0M	No	11	4.0	100n	6.7 †	15	300uQ	5	C	40-24B	DIP14a
23♦	CD4024BMW	CMS	128	1	UP	5.0M	No	11	4.0	100n	6.7 †	15	300uQ	5	C	40-24B	FP97c
24♦	MM4624AD	CMS	128	1	UP	5.0M	No	4.99	.01C	200n	450m†	5.0	500m	5	C	40-24B	DIP14a
25♦	MM4624AF	CMS	128	1	UP	5.0M	No	4.99	.01C	200n	450m†	5.0	500m	5	C	40-24B	FP97b
26♦	MM5624AN	CMS	128	1	UP	5.0M	No	4.99	.01C	200n	450m†	5.0	500m	4	8	40-24B	DIP14a
27♦	CD4024AD	CMS	128	1	UP	7.0M	No	9.95	0.05C	125n		15	500m	5	C	40-24B	MO001AD
28♦	CD4024AE	CMS	128	1	UP	7.0M	No	9.95	0.05C	150n		15	500m	4	8	40-24B	MO001AB
29♦	CD4024AF	CMS	128	1	UP	7.0M	No	9.95	0.05C	125n		15	500m	5	C	40-24B	MO001AB
30♦	HBC4024AD	CMS	128	1	UP	7.0M	No	10	0C	125n	4.5 †	10	100uQ	5	C	40-24B	MO001AD
31♦	HBC4024AF	CMS	128	1	UP	7.0M	No	10	0C	125n	4.5 †	10	100uQ	5	C	40-24B	MO001AD
32♦	HBC4024AK	CMS	128	1	UP	7.0M	No	10	0C	125n	4.5 †	10	100uQ	5	C	40-24B	MO004AF
33♦	HBF4024AE	CMS	128	1	UP	7.0M	No	10	0C	150n	4.5 †	10	1.0mQ	4	8	40-24B	MO001AB
34♦	HBF4024AF	CMS	128	1	UP	7.0M	No	10	0C	150n	4.5 †	10	1.0mQ	4	8	40-24B	MO001AD
35♦	SFF24024AEV	MOS	128	1	UP	7.0M	No	9.99	.01C	150n	3.0 *	10	200m	4	8	40-24B	TO-116
36♦	SFF24024AKM	CMS	128	1	UP	7.0M	No	9.99	.01C	125n	3.0 *	10	200m	5	C	40-24B	TO-116
37♦	CD4024BD	CMS	128	1	UP	8.0M	No	7.0	3.0	160n	2.9	20	500m	5	C	40-24B	MO001AD
38♦	CD4024BE	CMS	128	1	UP	8.0M	No	7.0	3.0	160n	2.9	20	500m	4	8	40-24B	MO001AB
39♦	CD4024BF	CMS	128	1	UP	8.0M	No	7.0	3.0	160n	2.9	20	500m	5	C	40-24B	MO001AB
40♦	SCL4024B	CMS	128	1	UP	8.0M	No	3.5Δ	1.0*	180n	3.0	15	100uQ	4	8	40-24B	DIP14a
41♦	CM4024AD		128	1	UP	10M	No	10	0C	25n	4.5 †	10	200m	5	C	40-24B	DIP14a
42♦	CM4024AE		128	1	UP	10M	No	10	0C	50n	4.5 †	10	200m	4	8	40-24B	DIP14a
43♦	883C4024B	CMS	128	1	UP	12M	No	8.2	6.7	130n		15	300m	5	C	40-24B	MO001AA
44♦	BCL4024B	CMS	128	1	UP	12M	No	8.2	6.7	130n		15	300m	5	C	40-24B	MO001AA
45♦	MC14024BAL	CMS	128	1	UP	12M	No	11	4.0	565n	2.5 *	15		5	C	40-24B	DIP14a
46▼	MC14024BALD	CMS	128	1	UP	12M	No	11	4.0	565n	2.5 *	15		5	C	40-24B	DIP14a
47▼	MC14024BALDS	CMS	128	1	UP	12M	No	11	4.0	565n	2.5 *	15		5	C	40-24B	DIP14a
48▼	MC14024BALS	CMS	128	1	UP	12M	No	11	4.0	565n	2.5 *	15		5	C	40-24B	DIP14a
49♦	MC14024BCL	CMS	128	1	UP	12M	No	11	4.0	565n	2.5 *	15		4	8	40-24B	DIP14a
50▼	MC14024BCLD	CMS	128	1	UP	12M	No	11	4.0	565n	2.5 *	15		4	8	40-24B	DIP14a
51▼	MC14024BCLDS	CMS	128	1	UP	12M	No	11	4.0	565n	2.5 *	15		4	8	40-24B	DIP14a
52▼	MC14024BCLS	CMS	128	1	UP	12M	No	11	4.0	565n	2.5 *	15		4	8	40-24B	DIP14a
53♦	MC14024BCP	CMS	128	1	UP	12M	No	11	4.0	565n	2.5 *	15		4	8	40-24B	DIP14a
54▼	MC14024BCPD	CMS	128	1	UP	12M	No	11	4.0	565n	2.5 *	15		4	8	40-24B	DIP14a
55▼	MC14024BCPDS	CMS	128	1	UP	12M	No	11	4.0	565n	2.5 *	15		4	8	40-24B	DIP14a
56▼	MC14024BCPS	CMS	128	1	UP	12M	No	11	4.0	565n	2.5 *	15		4	8	40-24B	DIP14a
57▼	MC14024BD	CMS	128	1	UP	12M	No	11	4.0	565n	2.5 *	15		4	8	40-24B	DIP14a
58♦	HEF4024BP	CMS	128	1	UP	13M	No	7.0	3.0	75n		10	500m	4	8	40-24B	DIP14a
59♦	HEF4024BD	CMS	128	1	UP	15M	No	7.0	3.0	75n		10	500m	4	8	40-24B	DIP14a
60♦	HEF4024BT	CMS	128	1	UP	15M	No	7.0	3.0	75n		10	400m	4	8	40-24B	FP147
61♦	CD54HCT4024F	CMS	128	1	UP	16M	No	2.0	0.8	60n	2.4	5.0	500m	5	C	40-24	MO001AB
62♦	4024BDC	CMS	128	1	UP	18M	No	11	4.0	80n	6.7 †	15	9.0mQ	4	8	40-24B	TO-116
63♦	4024BDM	CMS	128	1	UP	18M	No	11	4.0	80n	6.7 †	15	9.0mQ	5	C	40-24B	TO-116
64♦	4024BFC	CMS	128	1	UP	18M	No	11	4.0	80n	6.7 †	15	9.0mQ	4	8	40-24B	FP21h
65♦	4024BFM	CMS	128	1	UP	18M	No	11	4.0	80n	6.7 †	15	9.0mQ	5	C	40-24B	FP21h
66♦	4024BPC	CMS	128	1	UP	18M	No	11	4.0	80n	6.7 †	15	9.0mQ	4	8	40-24B	DIP14a
67♦	HEF4024	CMS	128	1	UP	18M	No	11	4.0	60n	6.7 †	15	400m	4	8	40-24B	DL ☑
68♦	HEF4024BPN	CMS	128	1	UP	18M	No	11.0	4.0	60n	6.7 †	15	400m	4	8	40-24B	DIP14b
69♦	CD54HC4024F	CMS	128	1	UP	20M	No	3.15	1.35	53n	1.7	5.0	500m	5	C	40-24	MO001AB
70♦	CD74HCT4024E	CMS	128	1	UP	20M	No	2.0	0.8	50n	2.4	5.0	500m	4	8	40-24	MO001AB
71♦	CD74HCT4024M	CMS	128	1	UP	20M	No	2.0	0.8	50n	2.4	5.0	300m	4	8	40-24	FP147
72♦	MM54HC4024J	CMS	128	1	UP	20M	No	4.2	1.2	53n	1.7	5.0	500m	5	C	40-24B	DIP14a
73♦	PC74HC4024P	CMS	128	1	UP	20M	No	3.15	1.35	53n	0.8	5.0	500m	4	C	40-24	DIP14b
74♦	PC74HC4024T	CMS	128	1	UP	20M	No	3.15	1.35	53n	0.8	5.0	300m	4	C	40-24	FP147
75♦	PC74HCT4024P	CMS	128	1	UP	20M	No	2.0	0.8	53n	0.7	5.0	500m	4	C	40-24	DIP14b
76♦	PC74HCT4024T	CMS	128	1	UP	20M	No	2.0	0.8	53n	0.7	5.0	300m	4	C	40-24	FP147
77♦	MM74HC4024J	CMS	128	1	UP	23M	No	4.2	1.2	45n	1.7	5.0	500m	4	8	40-24B	DIP14a
78♦	MM74HC4024N	CMS	128	1	UP	23M	No	4.2	1.2	45n	1.7	5.0	500m	4	8	40-24B	DIP14a
79♦	CD74HC4024E	CMS	128	1	UP	24M	No	3.15	1.35	44n	1.7	5.0	500m	4	8	40-24	MO001AB
80♦	CD74HC4024M	CMS	128	1	UP	24M	No	3.15	1.35	44n	1.7	5.0	300m	4	8	40-24	FP147
81♦	HCC4024BD	CMS	128	1	UP	24M	No	11	4.0	130n	4.0 *	15	500m	5	C	40-24B	DIP14a
82♦	HCC4024BF	CMS	128	1	UP	24M	No	11	4.0	130n	4.0 *	15	500m	5	C	40-24B	DIP14a
83♦	HCC4024BK	CMS	128	1	UP	24M	No	11	4.0	130n	4.0 *	15	500m	5	C	40-24B	FP130
84♦	HCF4024BE	CMS	128	1	UP	24M	No	11	4.0	130n	4.0 *	15	500m	4	8	40-24B	DIP14a
85♦	HCF4024BF	CMS	128	1	UP	24M	No	11	4.0	130n	4.0 *	15	500m	4	8	40-24B	DIP14a
86♦	M74HC4024B1(A)	CMS	128	1	UP	25M	No	3.15	1.35	35n	1.2	5.0	500m	4	8	40-24	DIP14a
87♦	M74HC4024F1(A)	CMS	128	1	UP	25M	No	3.15	1.35	35n	1.2	5.0	500m	4	8	40-24	DIP14a
88♦	HEF4024P	CMS	128	1	UP	30M	No	7.0	3.0	100n		10	1.0mQ	4	8	40-24B	TO-116
89♦	MC54HC4024J(A)	CMS	128	1	UP	30M	No	3.2	1.1	36n	1.1	5.0	500m	5	C	40-24B	DIP14 ☑
90♦	MC74HC4024J(A)	CMS	128	1	UP	30M	No	3.2	1.1	36n	1.1	5.0	500m	4	8	40-24B	DIP14 ☑
91♦	MC74HC4024N(A)	CMS	128	1	UP	30M	No	3.2	1.1	36n	1.1	5.0	500m	4	8	40-24B	DIP14 ☑
92♦	HEF4024BTD	CMS	128	1	UP	35M	No	11.0	4.0	60n	6.7 †	15	200m	4	8	40-24B	FP147
93♦	MN4024B	CMS	128	1	UP	35M	No	11.0	4.0	90n	3.9	15	400m	4	8	40-24B	DIP14a
94♦	PC54HCT4024D(A)	CMS	128	1	UP	50M	No	2.0	0.8	18n	0.7	5.0	500m	5	C	40-24	DIP14b
95♦	PC74HCT4024D(A)	CMS	128	1	UP	50M	No	2.0	0.8	18n	0.7	5.0	500m	4	8	40-24	DIP14b
96♦	M54HC4024F1(A)	CMS	128	1	UP	55M	No	3.15	1.35	29n	1.2	5.0	500m	5	C	40-24	DIP14a
97♦	PC54HC4024D(A)	CMS	128	1	UP	60M	No	3.15	0.9	12n	0.8	5.0	500m	5	C	40-24	DIP14b
98♦	PC74HC4024D(A)	CMS	128	1	UP	60M	No	3.15	0.9	12n	0.8	5.0	500m	4	8	40-24	DIP14b
99▼	TC74HC4024F(A)	CMS	128	1	UP	60M	No	3.15	1.35	36n	1.2	5.0	180m	4	8	40-24B	FP166
100▼	TC74HC4024P(A)	CMS	128	1	UP	60M	No	3.15	1.35	36n	1.2	5.0	500m	4	8	40-24B	DIP14a
101♦	UPD74HC4024C(A)	CMS	128	1	UP	70M	N	4.2	1.2	39n		6.0	500m	4	8	74-4024	MO001A
102▼	M54HC592F1	CMS	256	1	UP			3.15	1.35					5	C	74-592	DIP16a
103▼	M54HC593F1	CMS	256	1	UP			3.15	1.35					5	C	74-593	DIP16a
104▼	M74HC592B1	CMS	256	1	UP			3.15	1.35					4	8	74-592	DIP16a
105▼	M74HC592C1	CMS	256	1	UP			3.15	1.35					4	8	E02-220	LC19
106▼	M74HC592F1	CMS	256	1	UP			3.15	1.35					4	8	74-592	DIP16a
107▼	M74HC593B1	CMS	256	1	UP			3.15	1.35					4	8	74-593	DIP16a
108▼	M74HC593C1	CMS	256	1	UP			3.15	1.35					4	8	E02-216	LC19
109▼	M74HC593F1	CMS	256	1	UP			3.15	1.35					4	8	74-593	DIP16a
110♦	SCL4404B	CMS	256	1	UP	4.0M		3.5Δ	1.0*	250n	4.5 †	15	100uQ	5	C	44-04B	TO-99

11. COUNTERS - Binary, Other Modulus (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE "DRAWING INDEX" FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	883C4404B	CMS	256	1	UP	10M		8.2	6.7	200n		15	300m	5	C	44-04B	MO001AA
2♦	BCL4404B	CMS	256	1	UP	10M		8.2	6.7	200n		15	300m	5	C	44-04B	MO001AA
3♦	DM54LS461J	TTL	256	1	UP	10M		2.0T	0.8	95n	0.3	5.0		5	C	74LS461	DIP24e
4♦	DM54LS469J	TTL	256	1	UP	10M		2.0T	0.8	95n	0.3	5.0		5	C	74LS469	DIP24e
5♦	SN54LS461F	TTL	256	1	UP	10M		2.0	0.8	35n	400m	5.0		5	C	E10-01	FP180
6♦	SN54LS461JS	TTL	256	1	UP	10M		2.0	0.8	35n		5.0	400m	5	C	E10-01	DIP24e
7♦	DM74LS461J	TTL	256	1	UP	12M		2.0T	0.8	80n	0.3	5.0		0	7	74LS461	DIP24e
8♦	DM74LS461N	TTL	256	1	UP	12M		2.0T	0.8	80n	0.3	5.0		0	7	74LS461	DIP24e
9♦	DM74LS469J	TTL	256	1	UP	12M		2.0T	0.8	80n	0.3	5.0		0	7	74LS469	DIP24e
10♦	SN74LS461JS	TTL	256	1	UP	12M		2.0	0.8	30n		5.0	400m	0	7	74LS461	DIP24e
11♦	SN74LS461NS	TTL	256	1	UP	12M		2.0	0.8	30n		5.0	400m	0	7	74LS461	DIP24e
12♦	SN74LS591N	TTL	256	1	UP	20M		2.0Ø	0.8	42n	0.4	5.0		0	7	74LS591	DIP16a
13♦	SN54LS592J	TTL	256	1	UP	35M		2.0	0.7	63n	0.3	5.0		5	C	74LS592	DIP16a
14♦	SN54LS593J	TTL	256	1	UP	35M		2.0T	0.7	63n	0.3	5.0		5	C	74LS593	DIP20b
15♦	SN74LS592N	TTL	256	1	UP	35M		2.0	0.8	63n	0.4	5.0		0	7	74LS592	DIP16a
16♦	SN74LS593DW	TTL	256	1	UP	35M		2.0T	0.8		0.4	5.0		0	7	74LS593	FP169
17♦	SN74LS593N	TTL	256	1	UP	35M		2.0T	0.8	63n	0.4	5.0		0	7	74LS593	DIP20a
18▼	TC74HC590P	CMS	256	1	UP	36M	No	3.15	1.35	45n	1.2	5.0	500m	4	8	74-590	DIP16a
19▼	TC74HC592P	CMS	256	1	UP	38M	Yes	3.15	1.35	56n	1.2	5.0	500m	4	8	74-592	DIP16a
20▼	MC10H016FN	ECL	256	1	UP	200M		-1.1	-1.4	3.5n	150m	-5.2	570m†	0	7	E02-201	DIP16a
21♦	MC10H016J	ECL	256	1	UP	200M		-1.1	-1.4	3.5n	150m	-5.2	570m†	0	7	E02-201	DIP16a
22♦	HCC40102BD	CMS	256	1	DOWN	2.4M	Yes	15	.05C	250n		20	200m	5	C	40-102B	DIP16a
23♦	HCC40102BF	CMS	256	1	DOWN	2.4M	Yes	15	.05C	250n		20	200m	5	C	40-102B	DIP16a
24♦	HCC40102BK	CMS	256	1	DOWN	2.4M	Yes	15	.05C	250n		20	200m	5	C	40-102B	FP131
25♦	HCC40103BD	CMS	256	1	DOWN	2.4M	Yes	15	.05C	250n		20	200m	5	C	40-103B	DIP16a
26♦	HCC40103BF	CMS	256	1	DOWN	2.4M	Yes	15	.05C	250n		20	200m	5	C	40-103B	DIP16a
27♦	HCC40103BK	CMS	256	1	DOWN	2.4M	Yes	15	.05C	250n		20	200m	5	C	40-103B	FP131
28♦	HCF40102BE	CMS	256	1	DOWN	2.4M	Yes	15	.05C	250n		20	200m	4	8	40-102B	DIP16a
29♦	HCF40102BF	CMS	256	1	DOWN	2.4M	Yes	15	.05C	250n		20	200m	4	8	40-102B	DIP16a
30♦	HCF40103BE	CMS	256	1	DOWN	2.4M	Yes	15	.05C	250n		20	200m	4	8	40-103B	DIP16a
31♦	HCF40103BF	CMS	256	1	DOWN	2.4M	Yes	15	.05C	250n		20	200m	4	8	40-103B	DIP16a
32♦	CD40102BD	CMS	256	1	DOWN	3.6M	Yes	7.0	3.0	260n	2.9	20	500m	5	C	40-102B	MO001AE
33♦	CD40102BE	CMS	256	1	DOWN	3.6M	Yes	7.0	3.0	260n	2.9	20	500m	4	8	40-102B	MO001AC
34♦	CD40102BF	CMS	256	1	DOWN	3.6M	Yes	7.0	3.0	260n	2.9	20	500m	5	C	40-102B	MO001AC
35♦	CD40103BD	CMS	256	1	DOWN	3.6M	Yes	7.0	3.0	260n	2.9	20	500m	5	C	40-103B	MO001AE
36♦	CD40103BE	CMS	256	1	DOWN	3.6M	Yes	7.0	3.0	260n	2.9	20	500m	4	8	40-103B	MO001AC
37♦	CD40103BF	CMS	256	1	DOWN	3.6M	Yes	7.0	3.0	260n	2.9	20	500m	5	C	40-103B	MO001AC
38♦	TC40102BP	MOS	256	1	DOWN	4.0M	Yes	14.9	.05*	200n	4.0 *	15	300m	4	8	40-102B	DL ☑
39♦	CD54HCT40103F	CMS	256	1	DOWN	9M	Yes	2.0	0.8	105n	2.4	5.0	500m	5	C	40-103	MS001a
40♦	CD54HC40103F	CMS	256	1	DOWN	10M	Yes	3.15	1.35	105n	1.7	5.0	500m	5	C	40-103	MS001a
41♦	PC74HC40103P	CMS	256	1	DOWN	10M	Yes	3.15	1.35	90n	0.8	5.0	500m	4	C	40-103	DIP16b
42♦	PC74HC40103T	CMS	256	1	DOWN	10M	Yes	3.15	1.35	90n	0.8	5.0	300m	4	C	40-103	FP148
43♦	PC74HCT40103P	CMS	256	1	DOWN	10M	Yes	2.0	0.8	90n	0.7	5.0	500m	4	C	40-103	DIP16b
44♦	PC74HCT40103T	CMS	256	1	DOWN	10M	Yes	2.0	0.8	90n	0.7	5.0	300m	4	C	40-103	FP148
45♦	CD74HCT40103E	CMS	256	1	DOWN	11M	Yes	2.0	0.8	88n	2.4	5.0	500m	4	8	40-103	MS001a
46♦	CD74HCT40103M	CMS	256	1	DOWN	11M	Yes	2.0	0.8	88n	2.4	5.0	300m	4	8	40-103	FP148
47♦	CD74HC40103E	CMS	256	1	DOWN	12M	Yes	3.15	1.35	88n	1.7	5.0	500m	4	8	40-103	MS001a
48♦	CD74HC40103M	CMS	256	1	DOWN	12M	Yes	3.15	1.35	88n	1.7	5.0	300m	4	8	40-103	FP148
49♦	PC54HCT40103D(A)	CMS	256	1	DOWN	15M	Yes	2.0	0.8	26n	0.7	5.0	500m	5	C	40-103	DIP16b
50♦	PC74HCT40103D(A)	CMS	256	1	DOWN	15M	Yes	2.0	0.8	26n	0.7	5.0	500m	4	8	40-103	DIP16b
51♦	PC54HC40103D(A)	CMS	256	1	DOWN	16M	Yes	3.15	0.9	25n	0.8	5.0	500m	5	C	40-103	DIP16b
52♦	PC74HC40103D(A)	CMS	256	1	DOWN	16M	Yes	3.15	0.9	25n	0.8	5.0	500m	4	8	40-103	DIP16b
53▼	TC74HC40103P(A)	CMS	256	1	DOWN	36M	Yes	3.15	1.35	61n	0.8	5.0	500m	4	8	40-103	DIP16b
54♦	SN54LS469F	TTL	256	1	UP/DOWN	10M		2.0	0.8	35n	0.3	5.0	400m	5	C	74LS469	DIP48
55♦	SN54LS469JS	TTL	256	1	UP/DOWN	10M		2.0	0.8	35n	0.3	5.0	400m	5	C	74LS469	DIP48
56♦	SN74LS469JS	TTL	256	1	UP/DOWN	12M		2.0	0.8	30n	0.3	5.0	400m	0	7	74LS469	DIP48
57♦	SN74LS469NS	TTL	256	1	UP/DOWN	12M		2.0	0.8	80n	0.3	5.0		0	7	74LS469	DIP48
58♦	SN54LS469AJS	TTL	256	1	UP/DOWN	16M		2.0	0.8	35n	0.4	5.0	400m	5	C	74LS469	DIP24
59♦	SN54LS469AW	TTL	256	1	UP/DOWN	16M		2.0	0.8	35n	0.4	5.0	400m	5	C	74LS469	DIP24
60♦	SN54LS469A28L	TTL	256	1	UP/DOWN	16M		2.0	0.8	35n	0.4	5.0	400m	5	C	74LS469	LC28
61♦	SN74LS469AJS	TTL	256	1	UP/DOWN	25M		2.0	0.8	25n	0.4	5.0	400m	0	C	74LS469	DIP24
62♦	SN74LS469ANS	TTL	256	1	UP/DOWN	25M		2.0	0.8	25n	0.4	5.0	400m	0	C	74LS469	DIP24e
63▼	SN74AS869DW	TTL	256	1	UP/DOWN	45M	Yes	2.0	0.8	15n	0.3	5.0		0	7	74AS869	FP170
64▼	SN74AS869FN	TTL	256	1	UP/DOWN	45M	Yes	2.0	0.8	15n	0.3	5.0		0	7	K05-38	LC20a
65♦	SN74AS869NT	TTL	256	1	UP/DOWN	45M	Yes	2.0	0.8	15n	0.3	5.0		0	7	74AS869	DIP24e
66▼	SN74ALS867NT	TTL	256	1	UP/DOWN	50M	Yes	2.0	0.8	15n	0.3	5.0		0	7	74AS867	DIP24e
67▼	SN74AS867DW	TTL	256	1	UP/DOWN	50M	Yes	2.0	0.8	15n	0.3	5.0		0	7	74AS867	FP170
68▼	SN74AS867FN	TTL	256	1	UP/DOWN	50M	Yes	2.0	0.8	15n	0.3	5.0		0	7	K05-38	LC20a
69♦	SN74AS867NT	TTL	256	1	UP/DOWN	50M	Yes	2.0	0.8	15n	0.3	5.0		0	7	74AS867	DIP24e
70♦	54F779DM(A)	TTL	256	1	UP/DOWN	100M		2.0	0.8	5.0n		5.0		5	C	E02-228	DIP16b
71♦	74F779DC(A)	TTL	256	1	UP/DOWN	100M		2.0	0.8	5.0n		5.0		0	7	E02-228	DIP16b
72♦	74F779PC(A)	TTL	256	1	UP/DOWN	100M		2.0	0.8	5.0n		5.0		0	7	E02-228	DIP16a
73♦	74F779SC(A)	TTL	256	1	UP/DOWN	100M		2.0	0.8	5.0n		5.0		0	7	E02-228	FP148
74♦	N74F269D(A)	TTL	256	1	UP/DOWN	115M	Yes	2.0	0.8	11n		5.0		0	7	74F269	FP169
75♦	N74F269N(A)	TTL	256	1	UP/DOWN	115M	Yes	2.0	0.8	11n		5.0		0	7	74F269	DIP24a
76♦	N74F579N(A)	TTL	256	1	UP/DOWN	115M	Yes	2.0	0.8	11n		5.0		0	7	74F579	DIP20a
77♦	N74F779D	TTL	256	1	UP/DOWN	145M	No	2.0T	0.8	11n		5.0		0	7	74F779	FP148
78♦	N74F779N	TTL	256	1	UP/DOWN	145M	No	2.0T	0.8	11n		5.0		0	7	74F779	DIP16a
79♦	MSM5577	CMS	512	1	UP			2.7	0.3			3.0	630u	2	7	E02-126a	DIP14a
80♦	MSM5577A	CMS	512	1	UP			1.1	0.2			1.5	9.0u	2	7	E02-126a	DIP14a
81♦	MSM5577RS	CMS	512	1	UP			3.60	0.8		0.6	5.0		3	8	E02-126a	DIP14a
82♦	SN54LS491AJS	TTL	1.0k	1	UP/DOWN	18.M	Yes	2.0T	0.8		0.4	5.0		5	C	74LS491	DIP24
83♦	SN54LS491AW	TTL	1.0k	1	UP/DOWN	18.M	Yes	2.0T	0.8		0.4	5.0		5	C	74LS491	FP24
84♦	SN54LS491A28L	TTL	1.0k	1	UP/DOWN	18.M	Yes	2.0T	0.8		0.4	5.0		5	C	74LS491	LC44
85♦	SN74LS491AJS	TTL	1.0k	1	UP/DOWN	25M	Yes	2.0T	0.8		0.4	5.0		0	7	74LS491	DIP24
86♦	SN74LS491ANS	TTL	1.0k	1	UP/DOWN	25M	Yes	2.0T	0.8		0.4	5.0		0	7	74LS491	DIP24e
87♦	SN74LS491A28L	TTL	1.0k	1	UP/DOWN	25M	Yes	2.0T	0.8		0.4	5.0		0	7	74LS491	LC44
88♦	MSM5570	CMS	1.02k	1	UP			2.7	0.3			3.0	630u	2	7	E02-125	DIP14a
89♦	MSM5570A	CMS	1.02k	1	UP			1.1	0.2			1.5	9.0u	2	7	E02-125	DIP14a
90♦	DM54LS491J	TTL	1024	1	UP/DOWN	10M		2.0T	0.8	55n	0.3	5.0		5	C	74LS491	DIP24e
91♦	SN54LS491F(A)	TTL	1024	1	UP/DOWN	10M		2.0	0.8	35n	400m	5.0		5	C	E11-01	FP180
92♦	SN54LS491JS	TTL	1024	1	UP/DOWN	10M		2.0	0.8	35n		5.0	400m	5	C	74LS491	DIP24e
93♦	DM74LS491J	TTL	1024	1	UP/DOWN	12M		2.0T	0.8	45n	0.3	5.0		0	7	74LS491	DIP24e
94♦	DM74LS491N	TTL	1024	1	UP/DOWN	12M		2.0T	0.8	45n	0.3	5.0		0	7	74LS491	DIP24e
95♦	SN74LS491JS	TTL	1024	1	UP/DOWN	12M		2.0	0.8	30n		5.0	400m	0	7	E11-01	DIP24e
96♦	SN74LS491NS	TTL	1024	1	UP/DOWN	12M		2.0	0.8	30n		5.0		0	7	74LS491	DIP24e
97♦	MSM5571	CMS	2.05k	1	UP			2.7	0.3			3.0	630u	2	7	E02-125a	DIP14a
98♦	MSM5571A	CMS	2.05k	1	UP			1.1	0.2			1.5	9.0u	2	7	E02-125a	DIP14a
99♦	HEF4753BD	CMS	4k	1	UP	14M		7.0	3.0	400n	3.9 †	10	500m	4	8	47-53	DIP18b
100♦	HEF4753BP	CMS	4k	1	UP	14M		7.0	3.0	400n	3.9 †	10	500m	4	8	47-53	DIP18b
101♦	HEF4040BD	CMS	4k	1	UP	30M	No	7.0	3.0	90n		10	500m	4	8	40-40B	DIP16b
102♦	HEF4040BP	CMS	4k	1	UP	30M	No	7.0	3.0	90n		10	500m	4	8	40-40B	DIP16b
103♦	HEF4040BT	CMS	4k	1	UP	30M	No	7.0	3.0	90n		10	400m	4	8	40-40B	FP148
104♦	MSM5507	CMS	4.1k	1	UP	2.0M		3.6	0.8	1.0u		5.0	250u	2	7	E02-124	DIP16a
105♦	MSM5507RS	CMS	4.1k	1	UP	2.0M		3.6	0.8	300n	0.6	5.0		3	8	E02-124	DIP16a
106♦	M4040BP	CMS	4.10k	1	UP	2.5M	No	11	4.0	2.1u	4.0	15	0.5	4	8	40-40B	DIP16b
107♦	TC4040BP	CMS	4.10k	1	UP	2.5M	No	14.9	.05C	500n	4.0	15	300m	4	8	40-40B	DIP16a
108♦	MSM4040RS	CMS	4.10k	1	UP	4.0M	No	3.6	1.0	800n	0.6	16	200m	4	8	40-40B	DIP16 ☑
109♦	CD4040BCJ	CMS	4.10k	1	UP	5.0M	No	11	4.0	150n	6.7 †	15	1.2mQ	4	8	40-40B	DIP16a
110♦	CD4040BCN	CMS	4.10k	1	UP	5.0M	No	11	4.0	150n	6.7 †	15	1.2mQ	4	8	40-40B	DIP16a

11. COUNTERS - Binary, Other Modulus (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG (3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	CD4040BMJ	CMS	4.10k	1	UP	5.0M	No	11	4.0	150n	6.7 †	15	300uQ	5	C	40-40B	DIP16a
2♦	CD4040BMW	CMS	4.10k	1	UP	5.0M	No	11	4.0	150n	6.7 †	15	300uQ	5	C	40-40B	FP88c
3♦	HBC4040AD	CMS	4.10k	1	UP	5.0M	No	10	0C	450n	4.5 †	10	250uQ	5	C	40-40B	MO001AE
4♦	HBC4040AF	CMS	4.10k	1	UP	5.0M	No	10	0C	450n	4.5 †	10	250uQ	5	C	40-40B	MO001AE
5♦	HBC4040AK	CMS	4.10k	1	UP	5.0M	No	10	0C	450n	4.5 †	10	250uQ	5	C	40-40B	MO004AG
6♦	HBF4040AE	CMS	4.10k	1	UP	5.0M	No	10	0C	475n	4.5 †	10	1.0mQ	4	8	40-40B	MO001AC
7♦	HBF4040AF	CMS	4.10k	1	UP	5.0M	No	10	0C	475n	4.5 †	10	1.0mQ	4	8	40-40B	MO001AE
8♦	LC4040B	CMS	4.10k	1	UP	5.5M	No	11.0	4.0	329n		15	300m	4	8	40-40B	DIP16a
9♦	CD4040AD	CMS	4.10k	1	UP	6.0M	No	9.95	0.05C	450n		15	500m	5	C	40-40B	MO001AE
10♦	CD4040AE	CMS	4.10k	1	UP	6.0M	No	9.95	0.05C	475n		15	500m	4	8	40-40B	MO001AC
11♦	CD4040AF	CMS	4.10k	1	UP	6.0M	No	9.95	0.05C	450n		15	500m	5	C	40-40B	MO001AC
12♦	CD4040BD	CMS	4.10k	1	UP	8.0M	No	7.0	3.0	160n	2.9	20	500m	5	C	40-40B	MO001AD
13♦	CD4040BE	CMS	4.10k	1	UP	8.0M	No	7.0	3.0	160n	2.9	20	500m	4	8	40-40B	MO001AB
14♦	CD4040BF	CMS	4.10k	1	UP	8.0M	No	7.0	3.0	160n	2.9	20	500m	5	C	40-40B	MO001AB
15♦	CM4040AD		4.10k	1	UP	10M	No	10	0	125n		10	200m	5	C	40-40B	DIP16a
16♦	CM4040AE		4.10k	1	UP	10M	No	10	0	125n		10	200m	4	8	40-40B	DIP16a
17♦	MB84040B	CMS	4.10k	1	UP	10M	No	10.5	4.5	492n	4.5 *	15	1.2mQ	4	8	40-40B	DIP16a
18♦	MB84040BM	CMS	4.10k	1	UP	10M	No	10.5	4.5	492n	4.5 *	15	1.2mQ	4	8	40-40B	DIP16b
19♦	MSM4040	CMS	4.10k	1	UP	10M	No	7.2	2.0	300n	2.0 *	10	1.4mQ	2	7	40-40B	DIP16a
20♦	883C4040B	CMS	4.10k	1	UP	11M	No	8.2	6.7	130n		15	300m	5	C	40-40B	MO001AG
21♦	BCL4040B	CMS	4.10k	1	UP	11M	No	8.2	6.7	130n		15	300m	5	C	40-40B	MO001AG
22♦	MC14040BAL	CMS	4.10k	1	UP	13M	No	11	4.0	450n	2.5 *	15		5	C	40-40B	DIP16a
23▼	MC14040BALD	CMS	4.10k	1	UP	13M	No	11	4.0	450n	2.5 *	15		5	C	40-40B	DIP16a
24▼	MC14040BALDS	CMS	4.10k	1	UP	13M	No	11	4.0	450n	2.5 *	15		5	C	40-40B	DIP16a
25▼	MC14040BALS	CMS	4.10k	1	UP	13M	No	11	4.0	450n	2.5 *	15		5	C	40-40B	DIP16a
26♦	MC14040BCL	CMS	4.10k	1	UP	13M	No	11	4.0	450n	2.5 *	15		4	8	40-40B	DIP16a
27▼	MC14040BCLD	CMS	4.10k	1	UP	13M	No	11	4.0	450n	2.5 *	15		4	8	40-40B	DIP16a
28▼	MC14040BCLDS	CMS	4.10k	1	UP	13M	No	11	4.0	450n	2.5 *	15		4	8	40-40B	DIP16a
29▼	MC14040BCLS	CMS	4.10k	1	UP	13M	No	11	4.0	450n	2.5 *	15		4	8	40-40B	DIP16a
30♦	MC14040BCP	CMS	4.10k	1	UP	13M	No	11	4.0	450n	2.5 *	15		4	8	40-40B	DIP16a
31▼	MC14040BCPD	CMS	4.10k	1	UP	13M	No	11	4.0	450n	2.5 *	15		4	8	40-40B	DIP16a
32▼	MC14040BCPDS	CMS	4.10k	1	UP	13M	No	11	4.0	450n	2.5 *	15		4	8	40-40B	DIP16a
33▼	MC14040BCPS	CMS	4.10k	1	UP	13M	No	11	4.0	450n	2.5 *	15		4	8	40-40B	DIP16a
34▼	MC14040BD	CMS	4.10k	1	UP	13M	No	11	4.0	450n	2.5 *	15		4	8	40-40B	DIP16a
35♦	4040BDC	CMS	4.10k	1	UP	14M	No	11	4.0	120n	6.7 †	15	9.0mQ	4	8	40-40B	DIP16a
36♦	4040BDM	CMS	4.10k	1	UP	14M	No	11	4.0	120n	6.7 †	15	9.0mQ	5	C	40-40B	DIP16a
37♦	4040BFC	CMS	4.10k	1	UP	14M	No	11	4.0	120n	6.7 †	15	9.0mQ	4	8	40-40B	FP103
38♦	4040BFM	CMS	4.10k	1	UP	14M	No	11	4.0	120n	6.7 †	15	9.0mQ	5	C	40-40B	FP103
39♦	4040BPC	CMS	4.10k	1	UP	14M	No	11	4.0	120n	6.7 †	15	9.0mQ	4	8	40-40B	None
40♦	CD54HCT4040F	CMS	4.10k	1	UP	16M	No	2.00	0.80	60n	2.4	5.0	500m	5	C	40-40B	MS001a
41♦	HEF4040	CMS	4.10k	1	UP	18M	No	11	4.0	140n	6.7 †	15	400m	4	8	40-40B	DL ☑
42♦	HEF4040BPN	CMS	4.10k	1	UP	18M	No	11.0	4.0	140n	6.7 †	15	400m	4	8	40-40B	DIP16b
43♦	CD54HC4040F	CMS	4.10k	1	UP	20M	No	3.15	1.35	53n	1.7	5.0	500m	5	C	40-40B	MS001a
44♦	CD74HCT4040E	CMS	4.10k	1	UP	20M	No	2.0	0.8	50n	2.4	5.0	500m	4	8	40-40B	MS001a
45♦	CD74HCT4040M	CMS	4.10k	1	UP	20M	No	2.0	0.8	50n	2.4	5.0	300m	4	8	40-40	FP148
46▼	HD74HC4040FP	CMS	4.10k	1	UP	20M	No	3.15	1.35	16n	1.2	5.0	500m	4	8	40-40B	FP162
47▼	HD74HC4040P	CMS	4.10k	1	UP	20M	No	3.15	1.35	16n	1.2	5.0	500m	4	8	40-40B	DIP16a
48♦	PC74HC4040P	CMS	4.10k	1	UP	20M	No	3.15	1.35	45n	0.8	5.0	500m	4	C	40-40	DIP16b
49♦	PC74HC4040T	CMS	4.10k	1	UP	20M	No	3.15	1.35	45n	0.8	5.0	300m	4	C	40-40	FP148
50♦	PC74HCT4040P	CMS	4.10k	1	UP	20M	No	2.0	0.8	60n	0.7	5.0	500m	4	C	40-40	DIP16b
51♦	PC74HCT4040T	CMS	4.10k	1	UP	20M	No	2.0	0.8	60n	0.7	5.0	300m	4	C	40-40	FP148
52♦	HCC4040BD	CMS	4.10k	1	UP	24M	No	11	4.0	130n	4.0 *	15	500m	5	C	40-40B	DIP16a
53♦	HCC4040BF	CMS	4.10k	1	UP	24M	No	11	4.0	130n	4.0 *	15	500m	5	C	40-40B	DIP16a
54♦	HCC4040BK	CMS	4.10k	1	UP	24M	No	11	4.0	130n	4.0 *	15	500m	5	C	40-40B	FP131
55♦	HCF4040BE	CMS	4.10k	1	UP	24M	No	11	4.0	130n	4.0 *	15	500m	4	8	40-40B	DIP16a
56♦	HCF4040BF	CMS	4.10k	1	UP	24M	No	11	4.0	130n	4.0 *	15	500m	4	8	40-40B	DIP16a
57♦	CD74HC4040E	CMS	4.10k	1	UP	25M	No	3.15	1.35	44n	1.7	5.0	500m	4	8	40-40B	MS001a
58♦	CD74HC4040M	CMS	4.10k	1	UP	25M	No	3.15	1.35	44n	1.7	5.0	300m	4	8	40-40	FP148
59♦	HEF4040P	CMS	4.10k	1	UP	25M	No	7.0	3.0	150n		10	1.0mQ	4	8	40-40B	DIP16a
60♦	M74HC4040B1(A)	CMS	4.10k	1	UP	25M	No	3.15	1.35	35n	1.2	5.0	500m	4	8	40-40	DIP16a
61♦	M74HC4040C1(A)	CMS	4.10k	1	UP	25M		3.15	1.35	35n	1.2	5.0	500m	4	8	E02-218	LC33
62♦	M74HC4040F1(A)	CMS	4.10k	1	UP	25M	No	3.15	1.35	35n	1.2	5.0	500m	4	8	40-40	DIP16b
63♦	MC54HC4040J(A)	CMS	4.10k	1	UP	30M	No	3.2	1.1	36n	1.1	5.0	500m	5	C	40-40B	DIP16 ☑
64♦	MC74HC4040J(A)	CMS	4.10k	1	UP	30M	No	3.2	1.1	36n	1.1	5.0	500m	4	8	40-40B	DIP16 ☑
65♦	MC74HC4040N(A)	CMS	4.10k	1	UP	30M	No	3.2	1.1	36n	1.1	5.0	500m	4	8	40-40B	DIP16 ☑
66♦	HEF4040BTD	CMS	4.10k	1	UP	35M	No	11.0	4.0	70n	6.7 †	15	200m	4	8	40-40B	FP148
67♦	MN4040B	CMS	4.10k	1	UP	35M	No	11.0	4.0	210n	3.9	15	400m	4	8	40-40B	DIP16a
68♦	PC54HCT4040D(A)	CMS	4.10k	1	UP	50M	No	2.0	0.8	18n	0.7	5.0	500m	5	C	40-40	DIP16b
69♦	PC74HCT4040D(A)	CMS	4.10k	1	UP	50M	No	2.0	0.8	18n	0.7	5.0	500m	4	8	40-40	DIP16b
70♦	M54HC4040F1(A)	CMS	4.10k	1	UP	60M	No	3.15	1.35	29n	1.2	5.0	500m	5	C	40-40	DIP16b
71♦	PC54HC4040D(A)	CMS	4.10k	1	UP	60M	No	3.15	0.9	10n	0.8	5.0	500m	5	C	40-40	DIP16b
72♦	PC74HC4040D(A)	CMS	4.10k	1	UP	60M	No	3.15	0.9	10n	0.8	5.0	500m	4	8	40-40	DIP16b
73▼	TC74HC4040F(A)	CMS	4.10k	1	UP	60M	No	3.15	1.35	36n	1.2	5.0	180m	4	8	40-40B	FP167
74▼	TC74HC4040P(A)	CMS	4.10k	1	UP	60M	No	3.15	1.35	36n	1.2	5.0	500m	4	8	40-40B	DIP16a
75▼	ICM7217BIJI	CMS	5959	1	UP/DOWN	2.0M	Yes	2.4	0.8			5.0	1.0	2	8	E06-27	DIP28a
76▼	ICM7217BIPI	CMS	5959	1	UP/DOWN	2.0M	Yes	2.4	0.8			5.0	1.0	2	8	E06-27	DIP28a
77▼	ICM7217CIJI	CMS	5959	1	UP/DOWN	2.0M	Yes	2.4	0.8			5.0	1.0	2	8	E06-26	DIP28a
78▼	ICM7217CIPI	CMS	5959	1	UP/DOWN	2.0M	Yes	2.4	0.8			5.0	1.0	2	8	E06-26	DIP28a
79♦	MSM5573	CMS	8.19k	1	UP			2.7	0.3			3.0	630u	2	7	E02-125c	DIP14a
80♦	MSM5573A	CMS	8.19k	1	UP			1.1	0.2			1.5	9.0u	2	7	E02-125c	DIP14a
81♦	HEF4060BPN	CMS	16.4k	1	UP		No	11.0	4.0	160n		15	400m	4	8	40-60B	DIP16b
82♦	MSM5574	CMS	16.4k	1	UP			2.7	0.3			3.0	630u	2	7	E02-125d	DIP14a
83♦	MSM5574A	CMS	16.4k	1	UP			1.1	0.2			1.5	9.0u	2	7	E02-125d	DIP14a
84♦	MSM5576	CMS	16.4k	1	UP			2.7	0.3			3.0	630u	2	7	E02-126	DIP14a
85♦	MSM5576A	CMS	16.4k	1	UP			1.1	0.2			1.5	9.0u	2	7	E02-126	DIP14a
86♦	MSM5576RS	CMS	16.4k	1	UP			3.6	0.8		0.6	5.0		3	8	E02-126	DIP14a
87♦	SN74HC4020N	CMS	16.4k	1	UP		No	3.15	0.9	38n	1.2	5.0		4	8	40-20B	DIP16a
88♦	MSM5508	CMS	16.4k	1	UP	2.0M		3.6	0.8	1.0u		5.0	250u	2	7	E02-124a	DIP16a
89♦	MSM5508RS	CMS	16.4k	1	UP	2.0M		3.6	0.8	300n	0.6	5.0		3	8	E02-124a	DIP16a
90♦	M4020BP	CMS	16.4k	1	UP	2.5M	No	11	4.0	2.5u	4.0	15	0.5	4	8	40-20B	DIP16b
91♦	TC4020BP	CMS	16.4k	1	UP	2.5M	No	14.9	.05C	500n	4.0	15	300m	4	8	40-20B	DIP16a
92♦	HBF4060AE	CMS	16.4k	1	UP	2.7M	No	10	0C	950n	4.5 †	10	200m	4	8	40-60B	DIP16a
93♦	HBF4060AF	CMS	16.4k	1	UP	2.7M	No	10	0C	950n	4.5 †	10	200m	4	8	40-60B	DIP16b
94♦	HBC4060AD	CMS	16.4k	1	UP	3.0M	No	10	0C	450n	4.5 †	10	200m	5	C	40-60B	DIP16a
95♦	HBC4060AF	CMS	16.4k	1	UP	3.0M	No	10	0C	450n	4.5 †	10	200m	5	C	40-60B	DIP16b
96♦	HBC4060AK	CMS	16.4k	1	UP	3.0M	No	10	0C	450n	4.5 †	10	200m	5	C	40-60B	FP131
97♦	MM4620AD	CMS	16.4k	1	UP	3.0M	No	4.99	.01C	220n	450m†	5.0	500m	5	C	40-20B	DIP16b
98♦	MM4620AF	CMS	16.4k	1	UP	3.0M	No	4.99	.01C	220n	450m†	5.0	500m	5	C	40-20B	FP98
99♦	MM5620AN	CMS	16.4k	1	UP	3.0M	No	4.99	.01C	220n	450m†	5.0	500m	4	8	40-20B	DIP16a
100♦	CD4020BCJ	CMS	16.4k	1	UP	4.0M	No	11	4.0	400n	6.7 †	15	1.2mQ	4	8	40-20B	DIP16a
101♦	CD4020BCN	CMS	16.4k	1	UP	4.0M	No	11	4.0	400n	6.7 †	15	1.2mQ	4	8	40-20B	DIP16a
102♦	CD4020BMJ	CMS	16.4k	1	UP	4.0M	No	11	4.0	400n	6.7 †	15	300uQ	5	C	40-20B	DIP16a
103♦	CD4020BMW	CMS	16.4k	1	UP	4.0M	No	11	4.0	400n	6.7 †	15	300uQ	5	C	40-20B	FP88c
104♦	CD4060AD	CMS	16.4k	1	UP	4.0M	No	9.95	0.05C	900n		15	500m	5	C	40-60B	MO001AE
105♦	CD4060AE	CMS	16.4k	1	UP	4.0M	No	9.95	0.05C	950n		15	500m	4	8	40-60B	MO001AC
106♦	CD4060AF	CMS	16.4k	1	UP	4.0M	No	9.95	0.05C	900n		15	500m	5	C	40-60B	MO001AC
107♦	CD4060BCJ	CMS	16.4k	1	UP	4.0M	No	11	4.0	400n	6.7 †	15	1.2mQ	4	8	40-60B	DIP16a
108♦	CD4060BCN	CMS	16.4k	1	UP	4.0M	No	11	4.0	400n	6.7 †	15	1.2mQ	4	8	40-60B	DIP16a
109♦	CD4060BMJ	CMS	16.4k	1	UP	4.0M	No	11	4.0	400n	6.7 †	15	300uQ	5	C	40-60B	DIP16a
110♦	CD4060BMW	CMS	16.4k	1	UP	4.0M	No	11	4.0	400n	6.7 †	15	300uQ	5	C	40-60B	FP88c

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. COUNTERS - Binary, Other Modulus (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	MSM4020RS	CMS	16.4k	1	UP	4.0M	No	3.6	1.0	800n	0.6	16	200m	4	8	40-20B	DIP16 ☑
2♦	MB84060B	CMS	16.4k	1	UP	4.5M	No	10.5	4.5	776n	4.5 *	15	1.2mQ	4	8	40-60B	DIP16a
3♦	MB84060BM	CMS	16.4k	1	UP	4.5M	No	10.5	4.5	776n	4.5 *	15	1.2mQ	4	8	40-60B	DIP16b
4♦	LC4020B	CMS	16.4k	1	UP	5.5M	No	11.0	4.0	329n		15	300m	4	8	40-20B	DIP16a
5♦	CD4020AD	CMS	16.4k	1	UP	6.0M	No	9.95	0.05C	225n		15	500m	5	C	40-20B	MO001AE
6♦	CD4020AE	CMS	16.4k	1	UP	6.0M	No	9.95	0.05C	250n		15	500m	4	8	40-20B	MO001AC
7♦	CD4020AF	CMS	16.4k	1	UP	6.0M	No	9.95	0.05C	225n		15	500m	5	C	40-20B	MO001AC
8♦	HBC4020AD	CMS	16.4k	1	UP	7.0M	No	10	0C	150n	4.5 †	10	250uQ	5	C	40-20B	MO001AE
9♦	HBC4020AF	CMS	16.4k	1	UP	7.0M	No	10	0C	150n	4.5 †	10	250uQ	5	C	40-20B	MO001AE
10♦	HBC4020AK	CMS	16.4k	1	UP	7.0M	No	10	0C	150n	4.5 †	10	250uQ	5	C	40-20B	MO004AG
11♦	HBF4020AE	CMS	16.4k	1	UP	7.0M	No	10	0C	150n	4.5 †	10	1.0mQ	4	8	40-20B	MO001AC
12♦	HBF4020AF	CMS	16.4k	1	UP	7.0M	No	10	0C	150n	4.5 †	10	1.0mQ	4	8	40-20B	MO001AE
13♦	CD4020BD	CMS	16.4k	1	UP	8.0M	No	7.0	3.0	160n	2.9	20	500m	5	C	40-20B	MO001AE
14♦	CD4020BE	CMS	16.4k	1	UP	8.0M	No	7.0	3.0	160n	2.9	20	500m	4	8	40-20B	MO001AC
15♦	CD4020BF	CMS	16.4k	1	UP	8.0M	No	7.0	3.0	160n	2.9	20	500m	5	C	40-20B	MO001AG
16♦	CM4020AD		16.4k	1	UP	8.0M	No	10	0C	225n	4.5 †	10	200m	5	C	40-20B	DIP14a
17♦	CM4020AE		16.4k	1	UP	8.0M	No	10	0C	250n	4.5 †	10	200m	4	8	40-20B	DIP14a
18♦	SCL4020B	CMS	16.4k	1	UP	8.0M	No	7.0	3.0	180n	3.0	18	300m	5	C	40-20B	DIP16a
19♦	SCL4060B	CMS	16.4k	1	UP	8.0M	No	7.0	3.0	400n	3.0	18	300m	5	C	40-60B	CH ☑
20♦	MB84020B	CMS	16.4k	1	UP	10M	No	10.5	4.5	556n	4.5 *	15	1.2mQ	4	8	40-20B	DIP16a
21♦	MB84020BM	CMS	16.4k	1	UP	10M	No	10.5	4.5	556n	4.5 *	15	1.2mQ	4	8	40-20B	DIP16b
22♦	MSM4020	CMS	16.4k	1	UP	10M	No	7.2	2.0	300n	2.0 *	10	1.4mQ	2	7	40-20B	DIP16a
23♦	883C4020B	CMS	16.4k	1	UP	11M	No	8.2	6.7	130n		15	300m	5	C	40-20B	MO001AG
24♦	883C4060B	CMS	16.4k	1	UP	11M	No	8.2	6.7	300n		15	300m	5	C	40-60B	MO001AG
25♦	BCL4020B	CMS	16.4k	1	UP	11M	No	8.2	6.7	130n		15	300m	5	C	40-20B	MO001AG
26♦	BCL4060B	CMS	16.4k	1	UP	11M	No	8.2	6.7	300n		15	300m	5	C	40-60B	MO001AG
27▼	MC14020BALD	CMS	16.4k	1	UP	13M	No	11	4.0	1.5u	2.5 *	15		5	C	40-20B	DIP16a
28▼	MC14020BALDS	CMS	16.4k	1	UP	13M	No	11	4.0	1.5u	2.5 *	15		5	C	40-20B	DIP16a
29▼	MC14020BALS	CMS	16.4k	1	UP	13M	No	11	4.0	1.5u	2.5 *	15		5	C	40-20B	DIP16a
30♦	MC14020BCL	CMS	16.4k	1	UP	13M	No	11	4.0	1.5u	2.5 *	15		4	8	40-20B	DIP16a
31▼	MC14020BCLD	CMS	16.4k	1	UP	13M	No	11	4.0	1.5u	2.5 *	15		4	8	40-20B	DIP16a
32▼	MC14020BCLDS	CMS	16.4k	1	UP	13M	No	11	4.0	1.5u	2.5 *	15		4	8	40-20B	DIP16a
33▼	MC14020BCLS	CMS	16.4k	1	UP	13M	No	11	4.0	1.5u	2.5 *	15		4	8	40-20B	DIP16a
34♦	MC14020BCP	CMS	16.4k	1	UP	13M	No	11	4.0	1.5u	2.5 *	15		4	8	40-20B	DIP16a
35▼	MC14020BCPD	CMS	16.4k	1	UP	13M	No	11	4.0	1.5u	2.5 *	15		4	8	40-20B	DIP16a
36▼	MC14020BCPDS	CMS	16.4k	1	UP	13M	No	11	4.0	1.5u	2.5 *	15		4	8	40-20B	DIP16a
37▼	MC14020BCPS	CMS	16.4k	1	UP	13M	No	11	4.0	1.5u	2.5 *	15		4	8	40-20B	DIP16a
38▼	MC14020BD	CMS	16.4k	1	UP	13M	No	11	4.0	1.5u	2.5 *	15		4	8	40-20B	DIP16a
39♦	4020BDC	CMS	16.4k	1	UP	14M	No	11	4.0	120n	6.7 †	15	9.0mQ	4	8	40-20B	DIP16a
40♦	4020BDM	CMS	16.4k	1	UP	14M	No	11	4.0	120n	6.7 †	15	9.0mQ	5	C	40-20B	DIP16a
41♦	4020BFC	CMS	16.4k	1	UP	14M	No	11	4.0	120n	6.7 †	15	9.0mQ	4	8	40-20B	FP103
42♦	4020BFM	CMS	16.4k	1	UP	14M	No	11	4.0	120n	6.7 †	15	9.0mQ	5	C	40-20B	FP103
43♦	4020BPC	CMS	16.4k	1	UP	14M	No	11	4.0	120n	6.7 †	15	9.0mQ	4	8	40-20B	None
44♦	HEF4020P	CMS	16.4k	1	UP	15M	No	9.95	.05C	150n		10	1.0mQ	4	8	40-20B	DIP16a
45♦	CD54HCT4020F	CMS	16.4k	1	UP	16M	No	2.0	0.8	60n	2.4	5.0	500m	5	C	40-20B	MS001a
46♦	CD4060BD	CMS	16.4k	1	UP	16M	No	7.0	3.0	300n	2.9	20	500m	5	C	40-60B	MO001AE
47♦	CD4060BE	CMS	16.4k	1	UP	16M	No	7.0	3.0	300n	2.9	20	500m	4	8	40-60B	MO001AC
48♦	CD4060BF	CMS	16.4k	1	UP	16M	No	7.0	3.0	300n	2.9	20	500m	5	C	40-60B	MO001AC
49▼	HD74HC4060FP	CMS	16.4k	1	UP	16M	No	3.15	1.35	42n	1.2	5.0	500m	4	8	40-60B	FP162
50▼	HD74HC4060P	CMS	16.4k	1	UP	16M	No	3.15	1.35	42n	1.2	5.0	500m	4	8	40-60B	DIP16a
51♦	HEF4060BTD	CMS	16.4k	1	UP	16M	No	11.0	4.0	16n	6.7 †	15	200m	4	8	40-60B	FP148
52♦	MM54HC4020J	CMS	16.4k	1	UP	16M	No	4.2	1.2	61n	1.7	5.0	500m	5	C	40-20B	DIP16a
53♦	MM54HC4060J	CMS	16.4k	1	UP	16M	No	4.2	1.2	62n	1.7	5.0	500m	5	C	40-60B	DIP16a
54♦	HEF4020	CMS	16.4k	1	UP	18M	No	11	4.0	140n	6.7 †	15	400m	4	8	40-20B	DL ☑
55♦	HEF4020BPN	CMS	16.4k	1	UP	18M	No	11.0	4.0	140n	6.7 †	15	400m	4	8	40-20B	DIP16b
56♦	MM74HC4020J	CMS	16.4k	1	UP	19M	No	4.2	1.2	51n	1.7	5.0	500m	4	8	40-20B	DIP16a
57♦	MM74HC4020N	CMS	16.4k	1	UP	19M	No	4.2	1.2	51n	1.7	5.0	500m	4	8	40-20B	DIP16a
58♦	MM74HC4060J	CMS	16.4k	1	UP	19M	No	4.2	1.2	59n	1.7	5.0	500m	4	8	40-60B	DIP16a
59♦	MM74HC4060N	CMS	16.4k	1	UP	19M	No	4.2	1.2	59n	1.7	5.0	500m	4	8	40-60B	DIP16a
60♦	CD54HC4020F	CMS	16.4k	1	UP	20M	No	3.15	1.35	53n	1.7	5.0	500m	5	C	40-20B	MS001a
61♦	CD54HC4060F	CMS	16.4k	1	UP	20M	No	3.15	1.35	90n	1.7	5.0	500m	5	C	40-60B	MS001a
62♦	CD54HCT4060F	CMS	16.4k	1	UP	20M	No	2.00	0.80	100n	1.4	5.0	500m	5	C	40-60B	MS001a
63♦	CD74HCT4020E	CMS	16.4k	1	UP	20M	No	2.0	0.8	50n	2.4	5.0	500m	4	8	40-20B	MS001a
64♦	CD74HCT4020M(A)	CMS	16.4k	1	UP	20M	No	2.0	0.8	50n	2.4	5.0	300m	4	8	40-20	FP148
65▼	HD74HC4020FP	CMS	16.4k	1	UP	20M	No	3.15	1.35	25n	1.2	5.0	500m	4	8	40-20B	FP162
66▼	HD74HC4020P	CMS	16.4k	1	UP	20M	No	3.15	1.35	25n	1.2	5.0	500m	4	8	40-20B	DIP16a
67♦	HEF4060BD	CMS	16.4k	1	UP	20M	No	7.0	3.0	160n	2.9	10	500m	4	8	40-60B	DIP16b
68♦	HEF4060BP	CMS	16.4k	1	UP	20M	No	7.0	3.0	160n	2.9	15	500m	4	8	40-60B	DIP16b
69♦	HEF4060BT	CMS	16.4k	1	UP	20M	No	7.0	3.0	160n	2.9	10	400m	4	8	40-60B	FP148
70♦	PC54HC4060D(A)	CMS	16.4k	1	UP	20M	No	3.15	0.9	99n	0.8	5.0	500m	5	C	40-60	DIP16b
71♦	PC54HCT4060D(A)	CMS	16.4k	1	UP	20M	No	2.0	0.8	99n	0.7	5.0	500m	5	C	40-60	DIP16b
72♦	PC74HC4060P	CMS	16.4k	1	UP	20M	No	3.15	1.35	90n	0.8	5.0	500m	4	C	40-60	DIP16b
73♦	PC74HC4060T	CMS	16.4k	1	UP	20M	No	3.15	1.35	90n	0.8	5.0	300m	4	C	40-60	FP148
74♦	PC74HCT4060P	CMS	16.4k	1	UP	20M	No	2.0	0.8	99n	0.7	5.0	500m	4	C	40-60	DIP16b
75♦	PC74HCT4060T	CMS	16.4k	1	UP	20M	No	2.0	0.8	99n	0.7	5.0	300m	4	C	40-60	FP148
76♦	HCC4020BD	CMS	16.4k	1	UP	24M	No	11	4.0	130n		5.0	500m	5	C	40-20B	DIP16a
77♦	HCC4020BF	CMS	16.4k	1	UP	24M	No	11	4.0	130n		5.0	500m	5	C	40-20B	FP131
78♦	HCC4020BK	CMS	16.4k	1	UP	24M	No	11	4.0	130n		5.0	500m	5	C	40-20B	FP131
79♦	HCC4060BD	CMS	16.4k	1	UP	24M	No	11	4.0	240n	4.0 *	15	500m	5	C	40-60B	DIP16a
80♦	HCC4060BF	CMS	16.4k	1	UP	24M	No	11	4.0	240n	4.0 *	15	500m	5	C	40-60B	DIP16a
81♦	HCC4060BK	CMS	16.4k	1	UP	24M	No	11	4.0	240n	4.0 *	15	500m	5	C	40-60B	FP131
82♦	HCF4020BE	CMS	16.4k	1	UP	24M	No	11	4.0	130n		5.0	500m	4	8	40-20B	DIP16a
83♦	HCF4020BF	CMS	16.4k	1	UP	24M	No	11	4.0	130n		5.0	500m	4	8	40-20B	DIP16a
84♦	HCF4060BE	CMS	16.4k	1	UP	24M	No	11	4.0	240n	4.0 *	15	500m	4	8	40-60B	DIP16a
85♦	HCF4060BF	CMS	16.4k	1	UP	24M	No	11	4.0	240n	4.0 *	15	500m	4	8	40-60B	DIP16a
86♦	PC74HC4060D(A)	CMS	16.4k	1	UP	24M	No	3.15	0.9	83n	0.8	5.0	500m	4	8	40-60	DIP16b
87♦	PC74HCT4060D(A)	CMS	16.4k	1	UP	24M	No	2.0	0.8	83n	0.7	5.0	500m	4	8	40-60	DIP16b
88♦	CD74HC4020E	CMS	16.4k	1	UP	25M	No	3.15	1.35	44n	1.7	5.0	500m	4	8	40-20B	MS001a
89♦	CD74HC4020M(A)	CMS	16.4k	1	UP	25M	No	3.15	1.35	44n	1.7	5.0	300m	4	8	40-20	FP148
90♦	CD74HC4060E	CMS	16.4k	1	UP	25M	No	3.15	1.35	75n	1.7	5.0	500m	4	8	40-60B	MS001a
91♦	CD74HC4060M	CMS	16.4k	1	UP	25M	No	3.15	1.35	75n	1.7	5.0	300m	4	8	40-60	FP148
92♦	CD74HCT4060E	CMS	16.4k	1	UP	25M	No	2.00	0.80	83n	2.4	5.0	500m	4	8	40-60B	MS001a
93♦	CD74HCT4060M	CMS	16.4k	1	UP	25M	No	2.0	0.8	83n	2.4	5.0	300m	4	8	40-60	FP148
94♦	HEF4020BD	CMS	16.4k	1	UP	25M	No	7.0	3.0	90n		10	500m	4	8	40-20B	DIP16b
95♦	HEF4020BP	CMS	16.4k	1	UP	25M	No	7.0	3.0	90n		10	500m	4	8	40-20B	DIP16b
96♦	HEF4020BT	CMS	16.4k	1	UP	25M	No	7.0	3.0	90n		10	200m	4	8	40-20B	FP148
97♦	M74HC4020B1(A)	CMS	16.4k	1	UP	25M	No	3.15	1.35	35n	1.2	5.0	500m	4	8	40-20	DIP16a
98♦	M74HC4020C1(A)	CMS	16.4k	1	UP	25M		3.15	1.35	35n	1.2	5.0	500m	4	8	E02-217	LC33
99♦	M74HC4020F1(A)	CMS	16.4k	1	UP	25M	No	3.15	1.35	35n	1.2	5.0	500m	4	8	40-20	DIP16b
100♦	M74HC4060B1(A)	CMS	16.4k	1	UP	25M	No	3.15	1.35	98n	1.2	5.0	500m	4	8	40-60	DIP16a
101♦	M74HC4060C1(A)	CMS	16.4k	1	UP	25M		3.15	1.35	98n	1.2	5.0	500m	4	8	E02-219	LC33
102♦	M74HC4060F1(A)	CMS	16.4k	1	UP	25M	No	3.15	1.35	98n	1.2	5.0	500m	4	8	40-60	DIP16b
103♦	MC54HC4020J(A)	CMS	16.4k	1	UP	30M	No	3.2	1.1	36n	1.1	5.0	500m	5	C	40-20B	DIP16 ☑
104♦	MC74HC4020J(A)	CMS	16.4k	1	UP	30M	No	3.2	1.1	36n	1.1	5.0	500m	4	8	40-20B	DIP16 ☑
105♦	MC74HC4020N(A)	CMS	16.4k	1	UP	30M	No	3.2	1.1	36n	1.1	5.0	500m	4	8	40-20B	DIP16 ☑
106♦	HEF4020BTD	CMS	16.4k	1	UP	35M	No	11.0	4.0	140n	6.7 †	15	200m	4	8	40-20B	FP148
107♦	UPD74HC4020C(A)	CMS	16.4k	1	UP	40M	N	4.2	1.2	55n		6.0	500m	4	8	74-4020	DIP16a
108♦	PC54HCT4020D(A)	CMS	16.4k	1	UP	50M	No	2.0	0.8	18n	0.7	5.0	500m	5	C	40-20	DIP16b
109♦	PC74HCT4020D(A)	CMS	16.4k	1	UP	50M	No	2.0	0.8	18n	0.7	5.0	500m	4	8	40-20	DIP16b
110♦	PC74HCT4020T	CMS	16.4k	1	UP	50M	No	2.0	0.8	18n	0.7	5.0	300m	4	8	40-20	FP148

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODULUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1♦	M54HC4060F1(A)	CMS	16.4k	1	UP	55M	No	3.15	1.35	81n	1.2	5.0	500m	5	C	40-60	DIP16b	
2♦	74HC4060D	CMS	16.4k	1	UP	60M		3.15	0.9	83n	570m	4.5	0.2	4	8	40-60	FP148	
3♦	74HC4060N	CMS	16.4k	1	UP	60M		3.15	0.9	83n	570m	4.5	0.5	4	8	40-60	DIP16b	
4♦	74HCT4060D	CMS	16.4k	1	UP	60M		2.0	0.8	83n	470m	4.5	0.2	4	8	40-60	FP148	
5♦	74HCT4060N	CMS	16.4k	1	UP	60M		2.0	0.8	83n	470m	4.5	0.5	4	8	40-60	DIP16b	
6♦	M54HC4020F1(A)	CMS	16.4k	1	UP	60M	No	3.15	1.35	29n	1.2	5.0	500m	5	C	40-20	DIP16b	
7♦	PC54HC4020D(A)	CMS	16.4k	1	UP	60M	No	3.15	0.9	12n	0.8	5.0	500m	5	C	40-20	DIP16b	
8♦	PC74HC4020D(A)	CMS	16.4k	1	UP	60M	No	3.15	0.9	12n	0.8	5.0	500m	4	8	40-20	DIP16b	
9♦	PC74HC4020P	CMS	16.4k	1	UP	60M	No	3.15	0.9	12n	0.8	5.0	500m	4	8	40-20	DIP16b	
10♦	PC74HC4020T	CMS	16.4k	1	UP	60M	No	3.15	0.9	12n	0.8	5.0	300m	4	8	40-20	FP148	
11▼	TC74HC4020F(A)	CMS	16.4k	1	UP	60M	No	3.15	1.35	36n	1.2	5.0	180m	4	8	40-20B	FP167	
12▼	TC74HC4020P(A)	CMS	16.4k	1	UP	60M	No	3.15	1.35	36n	1.2	5.0	500m	4	8	40-20B	DIP16a	
13▼	TC74HC4060F(A)	CMS	16.4k	1	UP	60M	No	3.15	1.35	93n	1.2	5.0	180m	4	8	40-60B	FP167	
14▼	TC74HC4060P(A)	CMS	16.4k	1	UP	60M	No	3.15	1.35	93n	1.2	5.0	500m	4	8	40-60B	DIP16a	
15♦	MSM5562	CMS	65.5k	1	UP			2.7	0.3			3.0	630u	2	7	E02-127	DIP14a	
16♦	MSM5562A	CMS	65.5k	1	UP			1.1	0.2			1.5	9.0u	2	7	E02-127	DIP14a	
17♦	MSM5562RS	CMS	65.5k	1	UP			3.6	0.8		0.6	5.0		3	8	E02-127	DIP14a	
18♦	MSM5563	CMS	262k	1	UP			2.7	0.3			3.0	630u	2	7	E02-127a	DIP14a	
19♦	MSM5563A	CMS	262k	1	UP			1.1	0.2			1.5	9.0u	2	7	E02-127a	DIP14a	
20♦	MSM5563RS	CMS	262k	1	UP			3.6	0.8		0.6	5.0		3	8	E02-127a	DIP14a	
21♦	MSM5564	CMS	524k	1	UP			2.7	0.3			3.0	630u	2	7	E02-128	DIP14a	
22♦	MSM5564A	CMS	524k	1	UP			1.1	0.2			1.5	9.0u	2	7	E02-128	DIP14a	
23♦	MSM5564RS	CMS	524k	1	UP			3.6	0.8		0.6	5.0		3	8	E02-128a	DIP14a	
24♦	HCC4045BD	CMS	2.10M	1	UP	24M		11	4.0	1.0u	2.5 *	15	200m	5	C	40-45	DIP16a	
25♦	HCC4045BF	CMS	2.10M	1	UP	24M		11	4.0	1.0u	2.5 *	15	200m	5	C	40-45	None	
26♦	HCC4045BK	CMS	2.10M	1	UP	24M		11	4.0	1.0u	2.5 *	15	200m	5	C	40-45	FP131	
27♦	HCF4045BE	CMS	2.10M	1	UP	24M		11	4.0	1.0u	2.5 *	15	200m	4	8	40-45	DIP16a	
28♦	HCF4045BF	CMS	2.10M	1	UP	24M		11	4.0	1.0u	2.5 *	15	200m	4	8	40-45	None	
29♦	LS7060	NCH	4.29G	1	UP	10M		3.5T	0.6	300n	0.2	5.0		0	7	E02-202	DIP18	☑
30♦	LS7061	NCH	4.29G	1	UP	10M		3.5T	0.6	300n	0.2	5.0		0	7	E02-203a	DIP24	☑
31♦	LS7062	NCH	4.29G	2	UP	10M		3.5T	0.6	300n	0.2	5.0		0	7	E02-202	DIP18	☑
COUNTER, DECADE BCD-OUTPUT																		
35♦	54LS160FM	TTL	10	1	UP		Yes	2.0	0.7	18n	300m		160mQ	5	C	54-160W	FP47b	
36♦	54LS162FM	TTL	10	1	UP		Yes	2.0	0.7	18n	300m		160mQ	5	C	54-162W	FP47b	
37♦	74LS160PC	TTL	10	1	UP		Yes	2.0	0.8	18n	300m		160mQ	0	7	74-160N	DIP16a	
38♦	74LS162PC	TTL	10	1	UP		Yes	2.0	0.8	18n	300m		160mQ	0	7	74-162N	DIP16a	
39♦	9310PC	TTL	10	1	UP		Yes	2.0	0.8	50n			470mQ	0	7	74-160N	DIP16a	
40♦	DM54LS160AW		10	1	UP		Yes									54-160W	None	
41♦	DM54LS162AW		10	1	UP		Yes									54-162W	None	
42♦	DM54162AW		10	1	UP											None	None	
43♦	HEF4737	CMS	10	1	UP			11	4.0		6.7 †		400m	4	8	47-37B	DL	☑
44▼	M54HC690F1	CMS	10	1	UP			3.15	1.35					5	C	74LS690	DIP20c	
45▼	M54HC692F1	CMS	10	1	UP			3.15	1.35					5	C	74LS692	DIP20c	
46▼	M74HC690B1	CMS	10	1	UP			3.15	1.35					4	8	74LS690	DIP20c	
47▼	M74HC690C1	CMS	10	1	UP			3.15	1.35					4	8	E03-107	LC19	
48▼	M74HC690F1	CMS	10	1	UP			3.15	1.35					4	8	74LS690	DIP20c	
49▼	M74HC692B1	CMS	10	1	UP			3.15	1.35					4	8	E03-107	DIP20c	
50▼	M74HC692C1	CMS	10	1	UP			3.15	1.35					4	8	E03-107	LC19	
51▼	M74HC692F1	CMS	10	1	UP			3.15	1.35					4	8	74LS692	DIP20c	
52♦	SN54LS716J	TTL	10	1	UP			2.0	0.7	50n	300m		85m†	5	C	74LS716	DIP16a	
53▼	SN54LS716N	TTL	10	1	UP			2.0	0.7	50n	300m		85m†	5	C	74LS716	DIP16a	
54♦	SN54LS718J	TTL	10	1	UP			2.0	0.7	50n	300m		85m†	5	C	74LS718	DIP16a	
55▼	SN54LS718N	TTL	10	1	UP			2.0	0.7	50n	300m		85m†	5	C	74LS718	DIP16a	
56♦	SN74AS162FN	TTL	10	1	UP			2.0	0.8	10n				0	7	E03-100	LC20	
57♦	MC684L	DTL	10	1	UP	500k		12.5	1.50C				480m†	3	7	6-84P	DIP16b	
58♦	MC684P	DTL	10	1	UP	500k		12.5	1.50C				480m†	3	7	6-84P	DIP16a	
59♦	TC5051P	CMS	10	1	UP	500k		4.9	.05C	2.5u	1.5		300m	3	8	None	DIP16a	
60♦	MM54C90D	CMS	10	1	UP	2.0M	No	3.5	1.5	1.0u	450m†		500m	5	C	74-90N	DIP14a	
61♦	MM74C90N	CMS	10	1	UP	2.0M	No	3.5	1.5	1.0u	450m†		500m	4	8	74-90N	DIP14a	
62♦	MSM5503	CMS	10	1	UP	2.0M		3.6	0.8	1.0u			250u	2	7	None	DIP16a	
63♦	MSM5535	CMS	10	1	UP	2.0M	No	3.6	0.8	1.0u			250u	2	7	74-90N	DIP14a	
64♦	MSM5535RS	CMS	10	1	UP	2.0M		3.6	0.8	1.0u	0.6			3	8	None	DIP14a	
65♦	MM54C160D	CMS	10	1	UP	3.0M	Yes	3.5	1.5	290n	450m†		500m	5	C	74-160	DIP16b	
66♦	MM54C162D	CMS	10	1	UP	3.0M	Yes	3.5	1.5	290n	450m†		500m	5	C	74-162	DIP16b	
67♦	MM74C160N	CMS	10	1	UP	3.0M	Yes	3.5	1.5	290n	450m†		500m	0	7	74-160N	DIP16a	
68♦	MM74C162N	CMS	10	1	UP	3.0M	Yes	3.5	1.5	290n	450m†		500m	0	7	74-162N	DIP16a	
69♦	SCL4160B	CMS	10	1	UP	3.0M	Yes	3.5Δ	1.0*	200n	3.0		100uQ	5	C	74-160N	DIP16a	
70♦	SCL4162B	CMS	10	1	UP	3.0M	Yes	3.5Δ	1.0*	200n	3.0		100uQ	5	C	74-162N	DIP16a	
71♦	M40160BP	CMS	10	1	UP	3.5M	Yes	11.0	4.0	280n	4.0		0.5	4	8	74-160N	DIP16b	
72♦	M40162BP	CMS	10	1	UP	3.5M	Yes	11.0	4.0	280n	4.0		0.5	4	8	74-162N	DIP16b	
73♦	TC40160BP	CMS	10	1	UP	3.5M	Yes	14.9	.05C	280n	4.0		300m	4	8	74-160N	DIP16a	
74♦	TC40162BP	CMS	10	1	UP	3.5M	Yes	14.9	.05C	280n	4.0		300m	4	8	74-162N	DIP16a	
75♦	N8292F	TTL	10	1	UP	5.0M	Yes	2.6	0.4C	120n			65m	0	7	74-196N	DIP14b	
76♦	N8292N	TTL	10	1	UP	5.0M	Yes	2.6	0.4C	120n			65m	0	7	74-196N	DIP14a	
77♦	S8292F	TTL	10	1	UP	5.0M	Yes	2.6	0.4C				69m	5	C	74-196N	DIP14b	
78♦	S8292W	TTL	10	1	UP	5.0M	Yes	2.6	0.4C	120n			65m	5	C	54-196W	FP39e	
79♦	CD40160BCJ	CMS	10	1	UP	7.0M	Yes	11	4.0	160n	6.7 †		1.2mQ	4	8	74-160N	DIP16a	
80♦	CD40160BCN	CMS	10	1	UP	7.0M	Yes	11	4.0	160n	6.7 †		1.2mQ	4	8	74-160N	DIP16a	
81♦	CD40160BMJ	CMS	10	1	UP	7.0M	Yes	11	4.0	160n	6.7 †		300uQ	5	C	74-160N	DIP16a	
82♦	CD40160BMW	CMS	10	1	UP	7.0M	Yes	11	4.0	160n	6.7 †		300uQ	5	C	54-160W	FP88c	
83♦	CD40162BCJ	CMS	10	1	UP	7.0M	Yes	11	4.0	160n	6.7 †		1.2mQ	4	8	74-162N	DIP16a	
84♦	CD40162BCN	CMS	10	1	UP	7.0M	Yes	11	4.0	160n	6.7 †		1.2mQ	4	8	74-162N	DIP16a	
85♦	CD40162BMJ	CMS	10	1	UP	7.0M	Yes	11	4.0	160n	6.7 †		300uQ	5	C	74-162N	DIP16a	
86♦	CD40162BMW	CMS	10	1	UP	7.0M	Yes	11	4.0	160n	6.7 †		300uQ	5	C	54-162W	FP88c	
87♦	40160BDC	CMS	10	1	UP	8.0M	Yes	11	4.0	104n	6.7 †		9.0mQ	4	8	74-160N	DIP16a	
88♦	40160BDM	CMS	10	1	UP	8.0M	Yes	11	4.0	104n	6.7 †		9.0mQ	5	C	74-160N	DIP16a	
89♦	40160BFC	CMS	10	1	UP	8.0M	Yes	11	4.0	104n	6.7 †		9.0mQ	4	8	54-160W	FP103	
90♦	40160BFM	CMS	10	1	UP	8.0M	Yes	11	4.0	104n	6.7 †		9.0mQ	5	C	54-160W	FP103	
91♦	40160BPC	CMS	10	1	UP	8.0M	Yes	11	4.0	104n	6.7 †		9.0mQ	4	8	74-160N	None	
92♦	40162BDC	CMS	10	1	UP	8.0M	Yes	11	4.0	104n	6.7 †		9.0mQ	4	8	74-162N	DIP16a	
93♦	40162BDM	CMS	10	1	UP	8.0M	Yes	11	4.0	104n	6.7 †		9.0mQ	5	C	74-162N	DIP16a	
94♦	40162BFC	CMS	10	1	UP	8.0M	Yes	11	4.0	104n	6.7 †		9.0mQ	4	8	54-162W	FP103	
95♦	40162BFM	CMS	10	1	UP	8.0M	Yes	11	4.0	104n	6.7 †		9.0mQ	5	C	54-162W	FP103	
96♦	40162BPC	CMS	10	1	UP	8.0M	Yes	11	4.0	104n	6.7 †		9.0mQ	4	8	74-162N	DIP16	☑
97♦	MC14160BAL	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			5	C	74-160N	DIP16a	
98▼	MC14160BALD	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			5	C	74-160N	DIP16a	
99▼	MC14160BALDS	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			5	C	74-160N	DIP16a	
100▼	MC14160BALS	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			5	C	74-160N	DIP16a	
101♦	MC14160BCL	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-160N	DIP16a	
102▼	MC14160BCLD	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-160N	DIP16a	
103▼	MC14160BCLDS	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-160N	DIP16a	
104▼	MC14160BCLS	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-160N	DIP16a	
105♦	MC14160BCP	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-160N	DIP16a	
106▼	MC14160BCPD	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-160N	DIP16a	
107▼	MC14160BCPDS	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-160N	DIP16a	
108▼	MC14160BCPS	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-160N	DIP16a	
109▼	MC14160BD	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-160N	DIP16a	
110♦	MC14162BAL	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			5	C	74-162N	DIP16a	

11. COUNTERS - Decade, BCD Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1▼	MC14162BALD	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			5	C	74-162N	DIP16a
2▼	MC14162BALDS	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			5	C	74-162N	DIP16a
3▼	MC14162BALS	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			5	C	74-162N	DIP16a
4♦	MC14162BCL	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-162N	DIP16a
5▼	MC14162BCLD	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-162N	DIP16a
6▼	MC14162BCLDS	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-162N	DIP16a
7▼	MC14162BCLS	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-162N	DIP16a
8♦	MC14162BCP	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-162N	DIP16a
9▼	MC14162BCPD	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-162N	DIP16a
10▼	MC14162BCPDS	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-162N	DIP16a
11▼	MC14162BCPS	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-162N	DIP16a
12▼	MC14162BD	CMS	10	1	UP	8.0M	Yes	11	4.0	250n	2.5 *			4	8	74-162N	DIP16a
13♦	SN74LS716J	TTL	10	1	UP	8.0M		2.0Ø	0.8	45n	300m		85m†	0	7	74-71	DIP16a
14♦	SN74LS716N	TTL	10	1	UP	8.0M		2.0Ø	0.8	45n	300m		85m†	0	7	74-71	DIP16b
15♦	SN74LS718J	TTL	10	1	UP	8.0M		2.0Ø	0.8	78n	300m		85m†	0	7	74LS716	DIP16a
16♦	SN74LS718N	TTL	10	1	UP	8.0M		2.0Ø	0.8	78n	300m		85m†	0	7	74LS716	DIP16b
17♦	CD40160BD	CMS	10	1	UP	8.5M	Yes	7.0	3.0	160n	2.9		500m	5	C	74-160N	MO001AE
18♦	CD40160BE	CMS	10	1	UP	8.5M	Yes	7.0	3.0	160n	2.9		500m	4	8	74-160N	MO001AC
19♦	CD40160BF	CMS	10	1	UP	8.5M	Yes	7.0	3.0	160n	2.9		500m	5	C	74-160N	MO001AG
20♦	CD40162BD	CMS	10	1	UP	8.5M	Yes	7.0	3.0	160n	2.9		500m	5	C	74-162N	MO001AE
21♦	CD40162BE	CMS	10	1	UP	8.5M	Yes	7.0	3.0	160n	2.9		500m	4	8	74-162N	MO001AC
22♦	CD40162BF	CMS	10	1	UP	8.5M	Yes	7.0	3.0	160n	2.9		500m	5	C	74-162N	MO001AG
23♦	FJJ141-7490	TTL	10	1	UP	10M	No	2.0	0.8	100n	1.0 †		160m†	0	7	74-90N	DIP14a
24♦	N7490F	TTL	10	1	UP	10M	No	2.0	0.8	100n	1.0 †		265m	0	7	74-90N	DIP14b
25♦	N7490N	TTL	10	1	UP	10M	No	2.0	0.8	100n	0.4		265m	0	7	74-90N	DIP14a
26♦	N8280F	TTL	10	1	UP	10M	Yes	2.6	0.4C	50n			225m	0	7	74-196N	DIP14b
27♦	N8280N	TTL	10	1	UP	10M	Yes	2.6	0.4C	50n			225m	0	7	74-196N	DIP14a
28♦	N8292Q	TTL	10	1	UP	10M	Yes	2.6	0.4C				69m	0	7	54-196W	TO-88
29♦	S5490F	TTL	10	1	UP	10M	No	2.0	0.8	100n	1.0 †		230m	5	C	74-90N	DIP14b
30♦	S5490W	TTL	10	1	UP	10M	No	2.0	0.8	100n	1.0 †		230m	5	C	54-90W	FP39e
31♦	S8280F	TTL	10	1	UP	10M	Yes	2.6	0.4C	50n			225m	5	C	74-196N	DIP14b
32♦	S8280W	TTL	10	1	UP	10M	Yes	2.6	0.4C	50n			225m	5	C	54-196W	FP39e
33♦	DM54L90J	TTL	10	1	UP	11M	No	2.0	0.7	300n			20m†	5	C	74-90N	DIP14a
34♦	DM54L90W	TTL	10	1	UP	11M	No	2.0	0.7		0.4		20m	5	C	54-90W	FP97c
35♦	DM74L90N	TTL	10	1	UP	11M	No	2.0	0.7	300n			20m†	0	7	74-90N	DIP14a
36♦	DM75L52F	TTL	10	1	UP	11M		2.4	0.7	220n			38m†	5	C	75-52N	FP88b
37♦	DM75L52J	TTL	10	1	UP	11M		2.4	0.7	220n			38m†	5	C	75-52N	DIP16a
38♦	DM75L52N	TTL	10	1	UP	11M		2.4	0.7	220n			38m†	5	C	75-52N	DIP16a
39♦	DM75L52W	TTL	10	1	UP	11M		2.0	0.7	220n	0.4		38m	5	C	75-52N	FP98b
40♦	DM85L52F	TTL	10	1	UP	11M		2.4	0.7	220n			38m†	0	7	75-52N	FP88b
41♦	DM85L52J	TTL	10	1	UP	11M		2.4	0.7	220n			38m†	0	7	75-52N	DIP16a
42♦	DM85L52N	TTL	10	1	UP	11M		2.4	0.7	220n			38m†	0	7	75-52N	DIP16a
43♦	PC74HCT160P	CMS	10	1	UP	11M	Yes	2.0	0.8	65n	0.7		500m	4	C	74-160	DIP16b
44♦	PC74HCT160T	CMS	10	1	UP	11M	Yes	2.0	0.8	65n	0.7		300m	4	C	74-160	FP148
45♦	883C4160B	CMS	10	1	UP	12M	Yes	8.2	6.7	120n			300m	5	C	74-160N	MO001AG
46♦	883C4162B	CMS	10	1	UP	12M	Yes	8.2	6.7	120n			300m	5	C	74-162N	MO001AG
47♦	BCL4160B	CMS	10	1	UP	12M	Yes	8.2	6.7	120n			300m	5	C	74-160N	MO001AG
48♦	BCL4162B	CMS	10	1	UP	12M	Yes	8.2	6.7	120n			300m	5	C	74-162N	MO001AG
49♦	HCC40160BD	CMS	10	1	UP	12M	Yes	11	4.0	120n	4.0 *		500m	5	C	74-160N	DIP16a
50♦	HCC40160BF	CMS	10	1	UP	12M	Yes	11	4.0	120n	4.0 *		500m	5	C	74-160N	DIP16a
51♦	HCC40160BK	CMS	10	1	UP	12M	Yes	11	4.0	120n	4.0 *		500m	5	C	54-160W	FP131
52♦	HCC40162BD	CMS	10	1	UP	12M	Yes	11	4.0	120n	4.0 *		500m	5	C	74-162N	DIP16a
53♦	HCC40162BF	CMS	10	1	UP	12M	Yes	11	4.0	120n	4.0 *		500m	5	C	74-162N	DIP16a
54♦	HCC40162BK	CMS	10	1	UP	12M	Yes	11	4.0	120n	4.0 *		500m	5	C	54-162W	FP131
55♦	HCF40160BE	CMS	10	1	UP	12M	Yes	11	4.0	120n	4.0 *		500m	4	8	74-160N	DIP16a
56♦	HCF40160BF	CMS	10	1	UP	12M	Yes	11	4.0	120n	4.0 *		500m	4	8	74-160N	DIP16a
57♦	HCF40162BE	CMS	10	1	UP	12M	Yes	11	4.0	120n	4.0 *		500m	4	8	74-162N	DIP16a
58♦	HCF40162BF	CMS	10	1	UP	12M	Yes	11	4.0	120n	4.0 *		500m	4	8	74-162N	DIP16a
59♦	HEF40160B	CMS	10	1	UP	12M	Yes	9.95	.05C				100uQ	4	8	74-160N	DIP16b
60♦	HEF40162B	CMS	10	1	UP	12M	Yes	9.95	.05C				100uQ	4	8	74-162N	DIP16b
61♦	74HCT160D	CMS	10	1	UP	13M	Yes	2.0	0.8	63n	0.7			4		74-160	FP162
62♦	74HCT160N	CMS	10	1	UP	13M	Yes	2.0	0.8	63n	0.7			4		74-160	DIP16b
63♦	93L10DC	TTL	10	1	UP	13M	Yes	2.0	0.7	95n			75m†	0	7	74-160N	DIP24a
64♦	93L10DM	TTL	10	1	UP	13M	Yes	2.0	0.7	95n			75m†	5	C	74-160N	DIP24a
65♦	93L10FM	TTL	10	1	UP	13M	Yes	2.0	0.7	95n			75m†	5	C	54-160W	FP79b
66♦	93L10PC	TTL	10	1	UP	13M	Yes	2.0	0.7	95n			75m†	0	7	74-160N	DIP16a
67♦	DM76L76F	TTL	10	1	UP	13M		2.0	0.7	140n			32m†	5	C	E01-79	FP88b
68♦	DM76L76J	TTL	10	1	UP	13M		2.0	0.7	140n			32m†	5	C	E01-79	DIP16a
69♦	DM76L76N	TTL	10	1	UP	13M		2.0	0.7	140n			32m†	5	C	E01-79	DIP16a
70♦	DM76L76W	TTL	10	1	UP	13M		2.0	0.7	140n			32m†	5	C	E01-79	FP88
71♦	DM86L76F	TTL	10	1	UP	13M		2.0	0.7	140n			32m†	0	7	E01-79	FP88b
72♦	DM86L76J	TTL	10	1	UP	13M		2.0	0.7	140n			32m†	0	7	E01-79	DIP16a
73♦	DM86L76N	TTL	10	1	UP	13M		2.0	0.7	140n			32m†	0	7	E01-79	DIP16a
74♦	HEF40160BD	CMS	10	1	UP	14M	Yes	7.0	3.0	95n	2.9 †		500m	4	8	74-160N	DIP16b
75♦	HEF40160BP	CMS	10	1	UP	14M	Yes	7.0	3.0	95n	2.9 †		500m	4	8	74-160N	DIP16b
76♦	HEF40160BT	CMS	10	1	UP	14M	Yes	7.0	3.0	95n	2.9 †		400m	4	8	54-160W	FP148
77♦	HEF40162BD	CMS	10	1	UP	14M	Yes	7.0	3.0	95n	2.9 †		500m	4	8	74-162N	DIP16b
78♦	HEF40162BP	CMS	10	1	UP	14M	Yes	7.0	3.0	95n	2.9 †		500m	4	8	74-162N	DIP16b
79♦	HEF40162BT	CMS	10	1	UP	14M	Yes	7.0	3.0	95n	2.9 †		400m	4	8	54-162W	FP148
80♦	9310DC	TTL	10	1	UP	15M	Yes	2.0	0.8	50n	400m		470mQ	0	7	74-160N	DIP16a
81♦	9310DM	TTL	10	1	UP	15M	Yes	2.0	0.8	50n	400m		470mQ	5	C	74-160N	DIP16a
82♦	9310FM	TTL	10	1	UP	15M	Yes	2.0	0.8	50n	400m		470mQ	5	C	54-160W	FP79b
83♦	DM5490AJ	TTL	10	1	UP	16M	No	2.0	0.8		0.3			5	C	E03-68	DIP14b
84▼	HD74LS290G	TTL	10	1	UP	16M	No	2.0	0.8	50n	300m		400m	2	7	74-290	DIP14a
85♦	HD74LS290P	TTL	10	1	UP	16M	No	2.0	0.8	32n	300m		400m	2	7	74-290	DIP14a
86♦	N74LS90F	TTL	10	1	UP	16M	No	2.0	0.8	50n			75m	0	7	74-90N	DIP14b
87♦	HEF40160	CMS	10	1	UP	17M	Yes	11	4.0	85n	6.7 †		400m	4	8	74-160N	DL Ø
88♦	HEF40160BPN	CMS	10	1	UP	17M	Yes	11.0	4.0	85n	6.7 †		400m	4	8	74-160N	DIP16b
89♦	HEF40162	CMS	10	1	UP	17M	Yes	11	4.0	80n	6.7 †		400m	4	8	74-162N	DL Ø
90♦	HEF40162BPN	CMS	10	1	UP	17M	Yes	11.0	4.0	80n	6.7 †		400m	4	8	74-162N	DIP16b
91♦	TC40H160F	CMS	10	1	UP	17M	Yes	4.0	1.0	60n	.95		180m	4	8	54-160W	FP167
92♦	TC40H160P	CMS	10	1	UP	17M	Yes	4.0	1.0	60n	.95		300m	4	8	74-160N	MO001AC
93♦	TC40H162F	CMS	10	1	UP	17M	Yes	4.0	1.0	60n	.95		180m	4	8	54-162W	FP167
94♦	TC40H162P	CMS	10	1	UP	17M	Yes	4.0	1.0	60n	.95		300m	4	8	74-162N	MO001AC
95♦	SFC490E	TTL	10	1	UP	18M	No	2.0	0.8	75n	1.0		160m†	0	7	74-90N	TO-116
96♦	SFC490EM	TTL	10	1	UP	18M	No	2.0	0.8	75n	1.0		160m†	5	C	74-90N	TO-116
97♦	SFC490ET	TTL	10	1	UP	18M	No	2.0	0.8	75n	1.0		160m†	2	8	74-90N	TO-116
98♦	SFC490PM	TTL	10	1	UP	18M	No	2.0	0.8	75n	1.0		160m†	5	C	54-90W	TO-85
99♦	CD54HC160F	CMS	10	1	UP	20M	Yes	3.15	1.35	62n	1.7		500m	5	C	74-160N	MS001a
100♦	CD54HC162F	CMS	10	1	UP	20M	Yes	3.15	1.35	62n	1.7		500m	5	C	74-162N	MS001a
101♦	CD54HCT160F	CMS	10	1	UP	20M	Yes	2.0	0.8	65n	2.4		500m	5	C	74-160N	MS001a
102♦	CD54HCT162F	CMS	10	1	UP	20M	Yes	2.0	0.8	65n	2.4		500m	5	C	74-162N	MS001a
103♦	CD74HC160E	CMS	10	1	UP	20M	Yes	3.15	1.35	51n	1.7		500m	4	8	74-160N	MS001a
104♦	CD74HC160M	CMS	10	1	UP	20M	Yes	3.15	1.35	51n	1.7		300m	4	8	54-160	FP148
105♦	CD74HC162E	CMS	10	1	UP	20M	Yes	3.15	1.35	51n	1.7		500m	4	8	74-162N	MS001a
106♦	CD74HC162M	CMS	10	1	UP	20M	Yes	3.15	1.35	51n	1.7		300m	4	8	54-162	FP148
107♦	CD74HCT160E	CMS	10	1	UP	20M	Yes	2.0	0.8	54n	2.4		500m	4	8	74-160N	MS001a
108♦	CD74HCT160M	CMS	10	1	UP	20M	Yes	2.0	0.8	54n	2.4		300m	4	8	54-160	FP148
109♦	CD74HCT162E	CMS	10	1	UP	20M	Yes	2.0	0.8	54n	2.4		500m	4	8	74-162N	MS001a
110♦	CD74HCT162M	CMS	10	1	UP	20M	Yes	2.0	0.8	54n	2.4		300m	4	8	54-162	FP148

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. COUNTERS - Decade, BCD Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	HD74HC160FP	CMS	10	1	UP	20M	Yes	3.15	1.35	18n	1.2		500m	4	8	74-160N	FP162
2▼	HD74HC160P	CMS	10	1	UP	20M	Yes	3.15	1.35	18n	1.2		500m	4	8	74-160N	DIP16a
3▼	HD74HC162FP	CMS	10	1	UP	20M	Yes	3.15	1.35	18n	1.2		500m	4	8	74-162N	FP162
4▼	HD74HC162P	CMS	10	1	UP	20M	Yes	3.15	1.35	18n	1.2		500m	4	8	74-162N	DIP16a
5♦	M74HC160B1(A)	CMS	10	1	UP	20M	Yes	3.15	1.35	40n	1.2		500m	4	8	74-160	DIP16a
6♦	M74HC160C1(A)	CMS	10	1	UP	20M		3.15	1.35	40n	1.2		500m	4	8	E03-100	LC33
7♦	M74HC160F1(A)	CMS	10	1	UP	20M	Yes	3.15	1.35	40n	1.2		500m	4	8	74-160	DIP16b
8♦	M74HC162B1(A)	CMS	10	1	UP	20M	Yes	3.15	1.35	40n	1.2		500m	4	8	74-162	DIP16a
9♦	M74HC162C1(A)	CMS	10	1	UP	20M		3.15	1.35	40n	1.2		500m	4	8	E03-100	LC33
10♦	M74HC162F1(A)	CMS	10	1	UP	20M	Yes	3.15	1.35	40n	1.2		500m	4	8	74-162	DIP16b
11♦	N8290F	TTL	10	1	UP	20M	Yes	2.6	0.4C	60n			242m	0	7	74-196N	DIP14b
12♦	N8290N	TTL	10	1	UP	20M	Yes	2.6	0.4C	60n			242m	0	7	74-196N	DIP14a
13♦	PC74HC160P	CMS	10	1	UP	20M	Yes	3.15	1.35	56n	0.8		500m	4	C	74-160	DIP16b
14♦	PC74HC160T	CMS	10	1	UP	20M	Yes	3.15	1.35	56n	0.8		300m	4	C	74-160	FP148
15♦	PC74HCT162P	CMS	10	1	UP	20M	Yes	2.0	1.35	57n	0.7		500m	4	C	74-162	DIP16b
16♦	PC74HCT162T	CMS	10	1	UP	20M	Yes	2.0	1.35	57n	0.7		300m	4	C	74-162	FP148
17♦	S8290F	TTL	10	1	UP	20M	Yes	2.6	0.4C	60n			242m	5	C	74-196N	DIP14b
18♦	S8290W	TTL	10	1	UP	20M	Yes	2.6	0.4C	60n			242m	5	C	54-196W	FP39e
19♦	SN74LS690N	TTL	10	1	UP	20M		2.0	0.8	40n	0.4			0	7	74LS690	DIP20a
20♦	SN74LS692N	TTL	10	1	UP	20M		2.0	0.8	40n	0.4			0	7	74LS692	DIP20a
21♦	74HCT162D	CMS	10	1	UP	21M	Yes	2.0	0.8	61n	0.7			4		74-162	FP162
22♦	74HCT162N	CMS	10	1	UP	21M	Yes	2.0	0.8	61n	0.7			4		74-162	DIP16b
23♦	MM54HC160J	CMS	10	1	UP	21M	Yes	4.2	1.2	55n	1.7		500m	5	C	54-160W	DIP16a
24♦	MM54HC162J	CMS	10	1	UP	21M	Yes	4.2	1.2	55n	1.7		500m	5	C	54-162W	DIP16a
25♦	DM7552J	TTL	10	1	UP	23M		2.0	0.8	70n			330m†	5	C	75-52N	DIP16a
26♦	DM7552W	TTL	10	1	UP	23M		2.0	0.8	70n			330m†	5	C	75-52N	FP88a
27♦	DM8552J	TTL	10	1	UP	23M		2.0	0.8	70n			330m†	0	7	75-52N	DIP16a
28♦	DM8552N	TTL	10	1	UP	23M		2.0	0.8	70n			330m†	0	7	75-52N	DIP16a
29♦	DM8552W	TTL	10	1	UP	23M		2.0	0.8	70n			330m†	0	7	75-52N	FP88a
30♦	74162PC	TTL	10	1	UP	25M	Yes	2.0	0.8	15n				0	7	74-162N	TO-116
31♦	DM54ALS160AJ	TTL	10	1	UP	25M	Yes	2.0	0.8	20n	0.4			5	C	74-160	DIP16a
32♦	DM54ALS162AJ	TTL	10	1	UP	25M	Yes	2.0	0.8	20n	0.4			5	C	74-162	DIP16a
33♦	DM9310J	TTL	10	1	UP	25M	Yes	2.0	0.8		0.4			5	C	54-160	DIP16a
34♦	DM54160AJ	TTL	10	1	UP	25M	Yes	2.0	0.8		0.4			5	C	54-160	DIP16a
35♦	DM54162AJ	TTL	10	1	UP	25M	Yes	2.0	0.8		0.4			5	C	54-162	DIP16a
36▼	HD74LS160G	TTL	10	1	UP	25M	Yes	2.0	0.8	35n	300m		400n	2	7	74-160N	DIP16a
37♦	HD74LS160P	TTL	10	1	UP	25M	Yes	2.0	0.8	15n	300m		400n	2	7	74-160N	DIP16a
38▼	HD74LS162G	TTL	10	1	UP	25M	Yes	2.0	0.8	35n	300m		400n	2	7	74-162N	DIP16a
39♦	HD74LS162P	TTL	10	1	UP	25M	Yes	2.0	0.8	35n	300m		400n	2	7	74-162N	DIP16a
40♦	M53360P	TTL	10	1	UP	25M	Yes	2.0	0.8	38n	400m		305m†	0	7	74-160N	DIP16a
41♦	M53362P	TTL	10	1	UP	25M	Yes	2.0	0.8	38n	400m		305m†	0	7	74-162N	DIP16a
42♦	MB74LS160A	TTL	10	1	UP	25M	Yes	2.0	0.8	35n			160m	2	7	74-160N	DIP16a
43♦	MB74LS160AM	TTL	10	1	UP	25M	Yes	2.0	0.8	35n			160m	2	7	74-160N	DIP16a
44♦	MB74LS162A	TTL	10	1	UP	25M	Yes	2.0	0.8	35n			160m	2	7	74-162N	DIP16a
45♦	MB74LS162AM	TTL	10	1	UP	25M	Yes	2.0	0.8	35n			160m	2	7	74-162N	DIP16b
46♦	MM74HC160J	CMS	10	1	UP	25M	Yes	4.2	1.2	47n	1.7		500m	4	8	74-160N	DIP16a
47♦	MM74HC160N	CMS	10	1	UP	25M	Yes	4.2	1.2	47n	1.7		500m	4	8	74-160N	DIP16a
48♦	MM74HC162J	CMS	10	1	UP	25M	Yes	4.2	1.2	47n	1.7		500m	4	8	74-162N	DIP16a
49♦	MM74HC162N	CMS	10	1	UP	25M	Yes	4.2	1.2	47n	1.7		500m	4	8	74-162N	DIP16a
50♦	N74LS160AF	TTL	10	1	UP	25M	Yes	2.0	0.8	28n			160m	0	7	74-160N	DIP16b
51♦	N74LS160AN	TTL	10	1	UP	25M	Yes	2.0	0.7	35n	0.3		160m	0	7	74-160N	DIP16a
52♦	N74LS162AF	TTL	10	1	UP	25M	Yes	2.0	0.8	27n			160m	0	7	74-162N	DIP16b
53♦	N74LS162AN	TTL	10	1	UP	25M	Yes	2.0	0.8	27n	0.3		160m	0	7	74-162N	DIP16a
54♦	N8280Q	TTL	10	1	UP	25M	Yes	2.6	0.4C	25n			236m	0	7	54-196W	TO-88
55♦	N8288F	TTL	10	1	UP	25M	Yes	2.6	0.4C				236m	0	7	74-196N	DIP14a
56♦	N8288Q	TTL	10	1	UP	25M	Yes	2.6	0.4C				194m	0	7	54-196W	TO-88
57♦	N74160F	TTL	10	1	UP	25M	Yes	2.0	0.8	38n	1.0 †		505m	0	7	74-160N	DIP16b
58♦	N74160N	TTL	10	1	UP	25M	Yes	2.0	0.8	29n	0.4		505m	0	7	74-160N	DIP16a
59♦	N74162F	TTL	10	1	UP	25M	Yes	2.0	0.8	35n	1.0 †		505m	0	7	74-162N	DIP16b
60♦	N74162N	TTL	10	1	UP	25M	Yes	2.0	0.8	35n			505m	0	7	74-162N	DIP16a
61♦	S54LS160AF	TTL	10	1	UP	25M	Yes	2.0	0.7	27n	0.3		160m	5	C	74-160N	DIP16b
62♦	S54LS160AW	TTL	10	1	UP	25M	Yes	2.0	0.7	27n	0.3		160m	5	C	54-160W	FP154
63♦	S54LS162AF	TTL	10	1	UP	25M	Yes	2.0	0.7	27n	0.3		160m	5	C	74-162N	DIP16b
64♦	S54LS162AW	TTL	10	1	UP	25M	Yes	2.0	0.7	27n	0.3		160m	5	C	54-162W	FP154
65♦	S54160F	TTL	10	1	UP	25M	Yes	2.0	0.8	29n	0.4		455m	5	C	74-160N	DIP16b
66♦	S54160W	TTL	10	1	UP	25M	Yes	2.0	0.8	35n	0.4		455m	5	C	54-160W	FP47g
67♦	S54162E	TTL	10	1	UP	25M	Yes	2.0	0.8	35n			325m†	5	C	74-162N	DIP16a
68♦	S54162F	TTL	10	1	UP	25M	Yes	2.0	0.8	35n	1.0 †		455m	5	C	74-162N	DIP16b
69♦	S54162R	TTL	10	1	UP	25M	Yes	2.0	0.8	35n			325m†	5	C	54-162W	FP79a
70♦	S54162W	TTL	10	1	UP	25M	Yes	2.0	0.8	35n	1.0 †		455m	5	C	54-162W	FP47g
71▼	SN74HC160D	CMS	10	1	UP	25M	Yes	3.15	0.9	51n	1.2			4	8	74-160N	FP162
72♦	SN74HC160N	CMS	10	1	UP	25M	Yes	3.15	0.9	51n	1.2			4	8	74-160N	DIP16a
73▼	SN74HC162D	CMS	10	1	UP	25M	Yes	3.15	0.9	54n	1.2			4	8	74-162N	FP162
74♦	SN74HC162N	CMS	10	1	UP	25M	Yes	3.15	0.9	54n	1.2			4	8	74-162N	DIP16a
75♦	74HC162D	CMS	10	1	UP	26M	Yes	3.15	1.35	46n	1.2			4		74-162	FP162
76♦	74HC162N	CMS	10	1	UP	26M	Yes	4.2	1.8	46n	2.4			4		74-162	DIP16b
77♦	74HC160D	CMS	10	1	UP	28M	Yes	3.15	1.35	47n	1.2			4		74-160	FP162
78♦	74HC160N	CMS	10	1	UP	28M	Yes	3.15	1.35	47n	1.2			4		74-160	DIP16b
79♦	DM74ALS160AJ	TTL	10	1	UP	30M	Yes	2.0	0.8	17n	0.3			0	7	74-160	DIP16a
80♦	DM74ALS160AN	TTL	10	1	UP	30M	Yes	2.0	0.8	17n	0.3			0	7	74-160	DIP16a
81♦	DM74ALS162AJ	TTL	10	1	UP	30M	Yes	2.0	0.8	17n	0.3			0	7	74-162	DIP16a
82♦	DM74ALS162AN	TTL	10	1	UP	30M	Yes	2.0	0.8	17n	0.3			0	7	74-162	DIP16a
83♦	MB450	TTL	10	1	UP	30M	Yes	2.0	0.8				475m†	0	7	74-160N	DIP16b
84♦	MB450M	TTL	10	1	UP	30M	Yes	2.0	0.8				475m†	0	7	74-160N	DIP16b
85♦	MB451	TTL	10	1	UP	30M	Yes	2.0	0.8				475m†	0	7	74-160N	DIP16b
86♦	MB451M	TTL	10	1	UP	30M	Yes	2.0	0.8				475m†	0	7	74-160N	DIP16b
87♦	MC54HC160J(A)	CMS	10	1	UP	30M	Yes	3.15	0.9	34n	1.3		500m	5	C	74-160N	DIP16a
88♦	MC54HC162J(A)	CMS	10	1	UP	30M	Yes	3.15	0.9	34n	1.3		500m	5	C	74-162N	DIP16a
89♦	MC74HC160J(A)	CMS	10	1	UP	30M	Yes	3.15	0.9	34n	1.3		500m	4	8	74-160N	DIP16a
90♦	MC74HC160N(A)	CMS	10	1	UP	30M	Yes	3.15	0.9	34n	1.3		500m	4	8	74-160N	DIP16b
91♦	MC74HC162J(A)	CMS	10	1	UP	30M	Yes	3.15	0.9	34n	1.3		500m	4	8	74-162N	DIP16a
92♦	MC74HC162N(A)	CMS	10	1	UP	30M	Yes	3.15	0.9	34n	1.3		500m	4	8	74-162N	DIP16b
93▼	MC838L	DTL	10	1	UP	30M		2.6	.45		1.0		150m†	0	7	9-38L	TO-116
94▼	MC838P	DTL	10	1	UP	30M		2.6	.45		1.0		150m†	0	7	9-38L	DIP14a
95▼	MC839L	DTL	10	1	UP	30M		2.6	.45		1.0		150m†	0	7	9-39L	TO-116
96▼	MC839P	DTL	10	1	UP	30M		2.6	.45		1.0		150m†	0	7	9-39L	DIP14a
97♦	MC938L	DTL	10	1	UP	30M		2.6	0.4		1.0		150m†	5	C	9-38L	TO-116
98♦	MC939L	DTL	10	1	UP	30M		2.6	0.4		1.0		150m†	5	C	9-39L	TO-116
99♦	N74LS196F	TTL	10	1	UP	30M	Yes	2.0	0.8	52n			135m	0	7	74-196N	DIP14b
100♦	N74LS196N	TTL	10	1	UP	30M	Yes	2.0	0.8	52n			135m	0	7	74-196N	DIP14a
101♦	S54LS196F	TTL	10	1	UP	30M	Yes	2.0	0.7	52n			135m	5	C	74-196N	DIP14b
102♦	S54LS196W	TTL	10	1	UP	30M	Yes	2.0	0.7	52n			135m	5	C	54-196W	FP39e
103♦	54LS90FM	TTL	10	1	UP	32M	No	2.0	0.7	50n	400m*		75m	5	C	54-90W	FP52
104♦	74LS90DC	TTL	10	1	UP	32M	No	2.0	0.8	18n	300m		75mQ	0	7	74-90N	TO-116
105♦	74LS90PC	TTL	10	1	UP	32M	No	2.0	0.8	18n	300m		75mQ	0	7	74-90N	TO-116
106♦	54160DM	TTL	10	1	UP	32M	Yes	2.0	0.8	38n	400m*		305m†	5	C	74-160N	DIP16b
107♦	54160FM	TTL	10	1	UP	32M	Yes	2.0	0.8	38n	400m*		305m†	5	C	54-160W	FP93c
108♦	54162FM	TTL	10	1	UP	32M	Yes	2.0	0.8	38n	400m*		305m†	5	C	54-162W	FP93c
109♦	74160DC	TTL	10	1	UP	32M	Yes	2.0	0.8	38n	400m*		305m†	0	7	74-160N	DIP16b
110♦	74160PC	TTL	10	1	UP	32M	Yes	2.0	0.8	38n	400m*		305m†	0	7	74-160N	None

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. COUNTERS - Decade, BCD Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	DM54LS160AJ	TTL	10	1	UP	32M	Yes	2.0	0.7	45n	0.3			5	C	74-160	DIP16a
2♦	DM54LS162AJ	TTL	10	1	UP	32M	Yes	2.0	0.7	45n	0.3			5	C	74-162	DIP16a
3♦	DM74LS160AN	TTL	10	1	UP	32M	Yes	2.0	0.8	14n	0.4		93m	0	7	74-160N	DIP16a
4♦	DM74LS162AN	TTL	10	1	UP	32M	Yes	2.0	0.8	14n	0.4		93m	0	7	74-162N	DIP16a
5♦	DM5490J	TTL	10	1	UP	32M	No	2.0	0.8	80n			225mQ	5	C	74-90N	DIP14a
6♦	DM5490W	TTL	10	1	UP	32M	No	2.0	0.8	80n			225mQ	5	C	54-90W	FP97a
7♦	DM7490N	TTL	10	1	UP	32M	No	2.0	0.8	80n			225mQ	0	7	74-90N	DIP14a
8♦	DN74LS160AP2	TTL	10	1	UP	32M	Yes	2.0	0.8	28n	700m		400m	2	7	74-160	DIP16a
9♦	DN74LS160AP5	TTL	10	1	UP	32M	Yes	2.0	0.8	28n	700m		400m	2	7	74-160	FP178
10♦	DN74LS162AP2	TTL	10	1	UP	32M	Yes	2.0	0.8	28n	700m		400m	2	7	74-162	DIP16a
11♦	DN74LS162AP5	TTL	10	1	UP	32M	Yes	2.0	0.8	28n	700m		400m	2	7	74-162	FP178
12▼	HD74LS90G	TTL	10	1	UP	32M	No	2.0	0.8	48n	300m		400m	2	7	74-90N	DIP14a
13♦	HD74LS90P	TTL	10	1	UP	32M	No	2.0	0.8	48n	300m		400m	2	7	74-90N	DIP14a
14♦	N74LS90N	TTL	10	1	UP	32M	No	2.0	0.8	50n	0.3		75m	0	7	74-90N	DIP14a
15♦	N74LS290D	TTL	10	1	UP	32M	No	2.0	0.8	50n	0.3		75m	0	7	74-290N	FP147
16♦	N74LS290N	TTL	10	1	UP	32M	No	2.0	0.8	50n	0.3		75m	0	7	74-290N	DIP14a
17♦	S54LS90F	TTL	10	1	UP	32M	No	2.0	0.7	50n	0.3		75m	5	C	74-90N	DIP14b
18♦	S54LS90W	TTL	10	1	UP	32M	No	2.0	0.7	50n	0.3		75m	5	C	54-90W	FP153
19♦	S54LS290F	TTL	10	1	UP	32M	No	2.0	0.7	50n	0.3		75m	5	C	74-290N	DIP14b
20♦	S54LS290W	TTL	10	1	UP	32M	No	2.0	0.7	50n	0.3		75m	5	C	54-290W	FP153
21♦	SN54LS160AJ	TTL	10	1	UP	32M	Yes	2.0	0.7	35n	0.3			5	C	74-160N	DIP16a
22▼	SN54LS160AN	TTL	10	1	UP	32M	Yes	2.0	0.7	35n	0.3			5	C	74-160N	DIP16a
23♦	SN54LS162AJ	TTL	10	1	UP	32M	Yes	2.0	0.7	35n	0.3		93m†	5	C	74-162N	DIP16a
24▼	SN54LS162AN	TTL	10	1	UP	32M	Yes	2.0	0.7	35n	0.3		93m†	5	C	74-162N	DIP16a
25♦	SN74LS160AJ	TTL	10	1	UP	32M	Yes	2.0	0.8	35n	0.4			0	7	74-160N	DIP16a
26♦	SN74LS160AN	TTL	10	1	UP	32M	Yes	2.0	0.8	35n	0.4			0	7	74-160N	DIP16a
27♦	SN74LS162AJ	TTL	10	1	UP	32M	Yes	2.0	0.8	35n	0.4		93m	0	7	74-162N	DIP16a
28♦	SN74LS162AN	TTL	10	1	UP	32M	Yes	2.0	0.8	35n	0.4		93m	0	7	74-162N	DIP16a
29♦	SN54162J	TTL	10	1	UP	32M	Yes	2.0	0.8	38n	0.4		305m†	5	C	74-162N	DIP16a
30♦	SN74160N	TTL	10	1	UP	32M	Yes	2.0	0.8	38n	0.4		305m†	5	C	74-160N	DIP16a
31♦	SN74162N	TTL	10	1	UP	32M	Yes	2.0	0.8	38n	0.4		305m†	5	C	74-162N	DIP16a
32▼	TC74HC690P	CMS	10	1	UP	33M	Yes	3.15	1.35	66n	1.2		500m	4	8	74LS690	DIP20a
33▼	TC74HC692P	CMS	10	1	UP	33M	Yes	3.15	1.35	65n	1.2		500m	4	8	E03-107	DIP20a
34♦	DM54S160J	TTL	10	1	UP	35M	Yes	2.0	0.8		0.3			5	C	E03-80	DIP16a
35♦	DM54S162J	TTL	10	1	UP	35M	Yes	2.0	0.8		0.3			5	C	E03-80	DIP16a
36♦	DM7555J	TTL	10	1	UP	35M		2.0	0.8	22n	0.4			5	C	75-55N	DIP16a
37♦	DM7555W	TTL	10	1	UP	35M		2.0	0.8	22n	0.4			5	C	75-55N	FP98b
38♦	DM8310N	TTL	10	1	UP	35M	Yes	2.0	0.8	27n	0.4			0	7	74-160N	DIP16a
39♦	DM8316N	TTL	10	1	UP	35M	Yes	2.0	0.8	27n	0.4			0	7	54-161N	DIP16a
40♦	DM9310W	TTL	10	1	UP	35M	Yes	2.0	0.8	27n	0.4			5	C	54-160W	FP98b
41♦	DM54160AW	TTL	10	1	UP	35M	Yes	2.0	0.8	14n	0.4		315m	5	C	54-160W	FP98b
42♦	DM74160AN	TTL	10	1	UP	35M	Yes	2.0	0.8	14n	0.4		315m	0	7	74-160N	DIP16a
43♦	DM74160N	TTL	10	1	UP	35M	Yes	2.0	0.8	35n			455mQ	0	7	74-160N	DIP16a
44♦	DM74162AN	TTL	10	1	UP	35M	Yes	2.0	0.8	14n	0.4		315m	0	7	74-162N	DIP16a
45♦	DM74162N	TTL	10	1	UP	35M	Yes	2.0	0.8	35n			455mQ	0	7	74-162N	DIP16a
46♦	HEF40160BTD	CMS	10	1	UP	35M	Yes	11.0	4.0	85n	6.7 †		200m	4	8	54-160W	FP148
47♦	HEF40162BTD	CMS	10	1	UP	35M	Yes	11.0	4.0	80n	6.7 †		200m	4	8	54-162W	FP148
48♦	5490ADM	TTL	10	1	UP	40M	No	2.0	0.8	50n	400m*		160m	5	C	74-90N	DIP14a
49♦	5490AFM	TTL	10	1	UP	40M	No	2.0	0.8	50n	400m*		160m	5	C	54-90W	FP52
50♦	5490DM	TTL	10	1	UP	40M	No	2.0	0.8	50n	400m*		160m	5	C	74-90N	TO-116
51♦	7490ADC	TTL	10	1	UP	40M	No	2.0	0.8	50n	400m*		160m	0	7	74-90N	DIP14a
52♦	7490APC	TTL	10	1	UP	40M	No	2.0	0.8	50n	400m*		160m	0	7	74-90N	DIP14a
53♦	74290PC	TTL	10	1	UP	40M	No	2.0	0.8	50n	400m*		160m	0	7	74-290N	DIP14a
54♦	DM54LS196J	TTL	10	1	UP	40M		2.0	0.7	53n	0.3			5	C	74LS196	DIP14a
55♦	DM54LS196W	TTL	10	1	UP	40M	Yes	2.0	0.8	15n	0.4		80m	5	C	54-196W	FP97c
56♦	DM74LS196N	TTL	10	1	UP	40M	Yes	2.0	0.8	15n	0.3		80m	0	7	74-196N	DIP14a
57♦	DN74LS196P1	TTL	10	1	UP	40M	Yes	2.0	0.8	44n	700m		400m	2	7	74-196	DIP14a
58♦	DN74LS196P4	TTL	10	1	UP	40M		2.0	0.8	44n	700m		400m	2	7	74LS196	FP177
59♦	M74ALS162AP	TTL	10	1	UP	40M	Yes	2.0	0.8	27n	0.4		120m	2	7	74-162N	DIP16b
60♦	PC54HC160D(A)	CMS	10	1	UP	40M	Yes	3.15	0.9	17n	0.8		500m	5	C	74-160	DIP16b
61♦	PC54HC162D(A)	CMS	10	1	UP	40M	Yes	3.15	0.9	17n	0.8		500m	5	C	74-162	DIP16b
62♦	PC54HCT160D(A)	CMS	10	1	UP	40M	Yes	2.0	0.8	19n	0.7		500m	5	C	74-160	DIP16b
63♦	PC54HCT162D(A)	CMS	10	1	UP	40M	Yes	2.0	0.8	19n	0.7		500m	5	C	74-162	DIP16b
64♦	PC74HC160D(A)	CMS	10	1	UP	40M	Yes	3.15	0.9	17n	0.8		500m	4	8	74-160	DIP16b
65♦	PC74HC162D(A)	CMS	10	1	UP	40M	Yes	3.15	0.9	17n	0.8		500m	4	8	74-162	DIP16b
66♦	PC74HC162P	CMS	10	1	UP	40M	Yes	3.15	0.9	17n	0.8		500m	4	8	74-162	DIP16b
67♦	PC74HC162T	CMS	10	1	UP	40M	Yes	3.15	0.9	17n	0.8		300m	4	8	74-162	FP148
68♦	PC74HCT160D(A)	CMS	10	1	UP	40M	Yes	2.0	0.8	19n	0.7		500m	4	8	74-160	DIP16b
69♦	PC74HCT162D(A)	CMS	10	1	UP	40M	Yes	2.0	0.8	19n	0.7		500m	4	8	74-162	DIP16b
70♦	SN54LS196J	TTL	10	1	UP	40M	Yes	2.0	0.7	44n	0.3		80m†	5	C	74-196N	DIP14a
71▼	SN74ALS160BD	TTL	10	1	UP	40M	Yes	2.0	0.8	20n	0.3			0	7	74-160N	FP162
72▼	SN74ALS160BN	TTL	10	1	UP	40M	Yes	2.0	0.8	20n	0.3			0	7	74-160N	DIP16a
73▼	SN74ALS162BD	TTL	10	1	UP	40M	Yes	2.0	0.8	20n	0.4			0	7	74-162N	FP162
74▼	SN74ALS162BN	TTL	10	1	UP	40M	Yes	2.0	0.8	20n	0.4			0	7	74-162N	DIP16a
75♦	SN74LS196D	TTL	10	1	UP	40M	Yes	2.0	0.8	44n	0.4		80m†	0	7	74-196	FP147
76♦	SN74LS196J	TTL	10	1	UP	40M	Yes	2.0	0.8	44n	0.4		80m†	0	7	74-196N	DIP14a
77♦	SN74LS196N	TTL	10	1	UP	40M	Yes	2.0	0.8	63n	300m			0	7	74-196N	DIP14a
78♦	UPD74HC160C(A)	CMS	10	1	UP	40M	Yes	4.2	1.2	45n			500m	4	8	74-160	DIP16a
79♦	UPD74HC162C(A)	CMS	10	1	UP	40M	Yes	4.2	1.2	45n			500m	4	8	74-160	DIP16a
80♦	DM54LS90J	TTL	10	1	UP	42M	No	2.0	0.7	60n	0.3			5	C	74-90	DIP14a
81♦	DM54LS90W	TTL	10	1	UP	42M	No	2.0	0.8	20n	0.4		45m	5	C	54-90W	FP97c
82♦	DM54LS290J	TTL	10	1	UP	42M	No	2.0	0.7		0.3			5	C	E03-68	DIP14b
83♦	DM54LS290W	TTL	10	1	UP	42M	No	2.0	0.8	16n	0.4		45m	5	C	54-290W	FP97c
84♦	DM74LS90N	TTL	10	1	UP	42M	No	2.0	0.8	60n	0.3			0	7	74-90	DIP14a
85♦	DM74LS290N	TTL	10	1	UP	42M	No	2.0	0.8	16n	0.4		45m	5	C	74-290N	DIP14a
86♦	DN74LS90P1	TTL	10	1	UP	42M	No	2.0	0.8	50n	700m		400m	2	7	74-90	DIP14a
87♦	DN74LS90P4	TTL	10	1	UP	42M	No	2.0	0.8	50n	700m		400m	2	7	74-90	FP177
88♦	DN74LS290P1	TTL	10	1	UP	42M	No	2.0	0.8	50n	700m		400m	2	7	74-290	DIP14a
89♦	DN74LS290P4	TTL	10	1	UP	42M	No	2.0	0.8	50n	700m		400m	2	7	74-290	FP177
90♦	N82S90F	TTL	10	1	UP	42M	Yes	2.6	0.5C	30n			440m	0	7	74-196N	DIP14b
91♦	N82S90N	TTL	10	1	UP	42M	Yes	2.6	0.5C	30n			440m	0	7	74-196N	DIP14a
92♦	SN54LS90J	TTL	10	1	UP	42M	No	2.0	0.7	50n	0.3			5	C	74-90N	DIP14a
93▼	SN54LS90N	TTL	10	1	UP	42M	No	2.0	0.7	50n	0.3			5	C	74-90N	DIP14a
94♦	SN54LS290J	TTL	10	1	UP	42M	No	2.0	0.7	50n	0.3			5	C	74-290N	DIP14a
95▼	SN54LS290N	TTL	10	1	UP	42M	No	2.0	0.7	50n	0.3			5	C	74-290N	DIP14a
96♦	SN74LS90D	TTL	10	1	UP	42M	No	2.0	0.8	50n	0.4		45m†	0	7	74-90	FP147
97♦	SN74LS90J	TTL	10	1	UP	42M	No	2.0	0.8	50n	0.4			0	7	74-90N	DIP14a
98♦	SN74LS90N	TTL	10	1	UP	42M	No	2.0	0.8	50n	0.4			0	7	74-90N	DIP14a
99♦	SN74LS290D	TTL	10	1	UP	42M	No	2.0	0.8	50n				0	7	74-290	FP147
100♦	SN74LS290J	TTL	10	1	UP	42M	No	2.0	0.8	50n	0.4			0	7	74-290N	DIP14a
101♦	SN74LS290N	TTL	10	1	UP	42M	No	2.0	0.8	50n	0.4			0	7	74-290N	DIP14a
102♦	SN5490AJ	TTL	10	1	UP	42M	No	2.0	0.8	50n	1.0 †		145m†	5	C	74-90N	DIP14a
103♦	SN7490AN	TTL	10	1	UP	42M	No	2.0	0.8	50n	1.0 †		145m†	0	7	74-90N	DIP16a
104♦	SN54290J	TTL	10	1	UP	42M	No	2.0	0.8	50n	0.4		210m	5	C	74-290N	DIP14a
105♦	SN74290N	TTL	10	1	UP	42M	No	2.0	0.8	50n	0.4		210m	0	7	74-290N	DIP14a
106♦	DM7280J	TTL	10	1	UP	45M	Yes	2.8	0.4C	45n			130m†	5	C	74-196N	DIP14a
107♦	DM7280W	TTL	10	1	UP	45M	Yes	2.8	0.4C	45n			130m†	5	C	54-196W	FP97a
108♦	DM8280J	TTL	10	1	UP	45M	Yes	2.8	0.4C	45n			130m†	0	7	74-196N	DIP14a
109♦	DM8280N	TTL	10	1	UP	45M	Yes	2.8	0.4C	45n			130m†	0	7	74-196N	DIP14a
110♦	DM8280W	TTL	10	1	UP	45M	Yes	2.8	0.4C	45n			130m†	0	7	54-196W	FP97a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. COUNTERS - Decade, BCD Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1♦	M54HC160F1(A)	CMS	10	1	UP	45M	Yes	3.15	1.35	33n	1.2		500m	5	C	74-160	DIP16b	
2♦	M54HC162F1(A)	CMS	10	1	UP	45M	Yes	3.15	1.35	33n	1.2		500m	5	C	74-162	DIP16b	
3♦	54LS290DM	TTL	10	1	UP	50M	No	2.0	0.7	50n	300m		75mQ	5	C	74-290N	TO-116	
4♦	54LS290FM	TTL	10	1	UP	50M	No	2.0	0.7	50n	300m		75mQ	5	C	54-290W	TO-86	
5♦	74LS290DC	TTL	10	1	UP	50M	No	2.0	0.8	50n	300m		75mQ	0	7	74-290N	TO-116	
6♦	74LS290PC	TTL	10	1	UP	50M	No	2.0	0.8	50n	300m		75mQ	0	7	74-290N	TO-116	
7♦	DM7555N	TTL	10	1	UP	50M		2.0	0.8	27n			375m†	5	C	75-55N	DIP16a	
8♦	DM8555N	TTL	10	1	UP	50M		2.0	0.8	27n			375m†	0	7	75-55N	DIP16a	
9♦	DM54196J	TTL	10	1	UP	50M	Yes	2.0	0.8	45n			150m†	5	C	74-196N	DIP14a	
10♦	DM74196N	TTL	10	1	UP	50M	Yes	2.0	0.8	45n			150m†	0	7	74-196N	DIP14a	
11▼	TC74HC160F(A)	CMS	10	1	UP	50M	Yes	3.15	1.35	41n	1.2		180m	4	8	74-160N	FP167	
12▼	TC74HC160P(A)	CMS	10	1	UP	50M	Yes	3.15	1.35	41n	1.2		500m	4	8	74-160N	DIP16a	
13▼	TC74HC162F(A)	CMS	10	1	UP	50M	Yes	3.15	1.35	41n	1.2		180m	4	8	74-162N	FP167	
14▼	TC74HC162P(A)	CMS	10	1	UP	50M	Yes	3.15	1.35	41n	1.2		500m	4	8	74-162N	DIP16a	
15♦	M74ALS160AP	TTL	10	1	UP	52M	Yes	2.0	0.8	29n	0.4		120m	2	7	74-160N	DIP16b	
16♦	M74LS160AP	TTL	10	1	UP	55M	Yes	2.0	0.8	35n	0.4		176m	2	7	74-160	DIP16b	
17♦	M74LS162AP	TTL	10	1	UP	55M	Yes	2.0	0.8	35n	0.4		176m	2	7	74-162N	DIP16b	
18♦	54LS196FM	TTL	10	1	UP	60M	Yes	2.0	0.8	26n	300m		100mQ	5	C	54-196W	FP52	
19♦	74LS196PC	TTL	10	1	UP	60M	Yes	2.0	0.8	26n	300m		100mQ	0	7	74-196N	TO-116	
20♦	54196FM	TTL	10	1	UP	60M	Yes	2.0	0.8	26n	300m		100mQ	5	C	54-196W	FP52	
21♦	N8290Q	TTL	10	1	UP	60M	Yes	2.6	0.4C				255m	0	7	54-196W	TO-88	
22♦	DM54AS162J	TTL	10	1	UP	65M	Yes	2.0	0.8	14n	0.3			5	C	74-162	DIP16a	
23♦	54196DM	TTL	10	1	UP	70M	Yes	2.0	0.8	42n	400m*		240m†	5	C	74-196N	TO-116	
24♦	74196DC	TTL	10	1	UP	70M	Yes	2.0	0.8	42n	400m*		240m†	0	7	74-196N	TO-116	
25♦	74196PC	TTL	10	1	UP	70M	Yes	2.0	0.8	42n	400m*		240m†	0	7	74-196N	DIP14	☑
26♦	DM54S160W	TTL	10	1	UP	70M	Yes	2.0	0.8	9.0n	0.3		475m	5	C	54-160W	FP98b	
27♦	DM54S162W	TTL	10	1	UP	70M	Yes	2.0	0.8	9.0n	0.3		475m	5	C	54-162W	FP98b	
28♦	DM74S160N	TTL	10	1	UP	70M	Yes	2.0	0.8	9.0n	0.3		475m	0	7	74-160N	DIP16a	
29♦	DM74S162N	TTL	10	1	UP	70M	Yes	2.0	0.8	9.0n	0.3		475m	0	7	74-162N	DIP16a	
30♦	SN54S162J	TTL	10	1	UP	70M	Yes	2.0	0.8	25n	0.3		475m†	5	C	74-162N	DIP16a	
31♦	SN74S162D	TTL	10	1	UP	70M	Yes	2.0	0.8	25n	0.3		475m†	0	7	74-162	FP148	
32♦	SN74S162N	TTL	10	1	UP	70M	Yes	2.0	0.8	25n	0.3		475m†	0	7	74-162N	DIP16a	
33♦	SN74196N	TTL	10	1	UP	70M	Yes	2.0	0.8	42n	0.4			0	7	74-196N	DIP14a	
34♦	DM74AS160J	TTL	10	1	UP	75M	Yes	2.0	0.8	13n	0.3			0	7	74-160	DIP16a	
35♦	DM74AS160N	TTL	10	1	UP	75M	Yes	2.0	0.8	13n	0.3			0	7	74-160	DIP16a	
36♦	DM74AS162J	TTL	10	1	UP	75M	Yes	2.0	0.8	13n	0.3			0	7	74-162	DIP16a	
37♦	DM74AS162N	TTL	10	1	UP	75M	Yes	2.0	0.8	13n	0.3			0	7	74-162	DIP16a	
38♦	M74LS90P	TTL	10	1	UP	75M	No	2.0	0.8	50n	0.4		45m†	2	7	74-90N	DIP14a	
39♦	M74LS290P	TTL	10	1	UP	75M	No	2.0	0.8	50n	0.4		45m†	2	7	74-290N	DIP14a	
40▼	SN74AS160D	TTL	10	1	UP	75M	Yes	2.0	0.8	13n	0.3			0	7	74-160N	FP162	
41♦	SN74AS160N	TTL	10	1	UP	75M	Yes	2.0	0.8	13n	0.3			0	7	74-160N	DIP16a	
42▼	SN74AS162D	TTL	10	1	UP	75M	Yes	2.0	0.8	13n	0.3			0	7	74-162N	FP162	
43♦	SN74AS162N	TTL	10	1	UP	75M	Yes	2.0	0.8	13n	0.3			0	7	74-162N	DIP16a	
44♦	DM54S196J	TTL	10	1	UP	80M	Yes	2.0	0.8		0.3			5	C	54-196W	DIP14b	
45♦	M74LS196P	TTL	10	1	UP	80M	Yes	2.0	0.8	62n	0.4		60m†	2	7	74-176N	DIP14a	
46♦	93S10DC	TTL	10	1	UP	100M	Yes	2.0	0.8	14n			635m	0	7	74-160N	DIP16a	
47♦	93S10DM	TTL	10	1	UP	100M	Yes	2.0	0.8	14n			635m	5	C	74-160N	DIP16a	
48♦	93S10FM	TTL	10	1	UP	100M	Yes	2.0	0.8	14n			635m	5	C	54-160W	FP79b	
49♦	93S10PC	TTL	10	1	UP	100M	Yes	2.0	0.8	14n			635m	0	7	74-160N	DIP16a	
50♦	DM54S196W	TTL	10	1	UP	100M	Yes	2.0	0.8	11n	0.3		375m	5	C	54-196W	FP97c	
51♦	DM74S196N	TTL	10	1	UP	100M	Yes	2.0	0.8	11n	0.3		375m	0	7	74-196N	DIP14a	
52♦	N74S196F	TTL	10	1	UP	100M	Yes	2.6	0.5C		1.0 †		461m	0	7	74-196N	DIP14b	
53♦	SN74S160J	TTL	10	1	UP	100M	Yes	2.0	0.8	14n			635mQ	0	7	74-160N	DIP16b	
54♦	SN74S160N	TTL	10	1	UP	100M	Yes	2.0	0.8	14n			635mQ	0	7	74-160N	DIP16a	
55♦	74F569L1C	TTL	10	1	UP	115M		2.0	0.8	13n				0	7	E02-235	LC19	
56♦	74F569QC	TTL	10	1	UP	115M		2.0	0.8	13n				0	7	E02-235	LC26	
57♦	54F160ADM	TTL	10	1	UP	120M	Yes	2.0	0.8	16n				5	C	74-160	DIP16b	
58♦	54F160AL1M	TTL	10	1	UP	120M		2.0	0.8	16n				5	C	E03-100	LC19	
59♦	54F160DM	TTL	10	1	UP	120M	Yes	2.0	0.8	7.5n				5	C	74-160N	DIP16b	
60♦	54F160FM	TTL	10	1	UP	120M	Yes	2.0	0.8	7.5n				5	C	54-160W	FP101	
61♦	54F162ADM	TTL	10	1	UP	120M	Yes	2.0	0.8	16n				5	C	74-162	DIP16b	
62♦	54F162AL1M	TTL	10	1	UP	120M		2.0	0.8	16n				5	C	E03-100	LC19	
63♦	54F162DM	TTL	10	1	UP	120M	Yes	2.0	0.8	7.5n				5	C	74-162N	DIP16b	
64♦	54F162FM	TTL	10	1	UP	120M	Yes	2.0	0.8	7.5n				5	C	54-162W	FP101	
65♦	74F160ADC	TTL	10	1	UP	120M	Yes	2.0	0.8	15n				0	7	74-160	DIP16b	
66♦	74F160AL1C	TTL	10	1	UP	120M		2.0	0.8	15n				0	7	E03-100	LC19	
67♦	74F160APC	TTL	10	1	UP	120M	Yes	2.0	0.8	15n				0	7	74-160	DIP16a	
68♦	74F160AQC	TTL	10	1	UP	120M		2.0	0.8	15n				0	7	E03-100	LC26	
69♦	74F160ASC	TTL	10	1	UP	120M	Yes	2.0	0.8	15n				0	7	54-160	FP148	
70♦	74F160DC	TTL	10	1	UP	120M	Yes	2.0	0.8	7.5n				0	7	74-160N	DIP16b	
71♦	74F160PC	TTL	10	1	UP	120M	Yes	2.0	0.8	7.5n				0	7	74-160N	None	
72♦	74F162ADC	TTL	10	1	UP	120M	Yes	2.0	0.8	15n				0	7	74-162	DIP16b	
73♦	74F162AL1C	TTL	10	1	UP	120M		2.0	0.8	15n				0	7	E03-100	LC19	
74♦	74F162APC	TTL	10	1	UP	120M	Yes	2.0	0.8	15n				0	7	74-162	DIP16a	
75♦	74F162AQC	TTL	10	1	UP	120M		2.0	0.8	15n				0	7	E03-100	LC26	
76♦	74F162ASC	TTL	10	1	UP	120M	Yes	2.0	0.8	15n				0	7	54-162	FP148	
77♦	74F162DC	TTL	10	1	UP	120M	Yes	2.0	0.8	7.5n				0	7	74-162N	DIP16b	
78♦	74F162PC	TTL	10	1	UP	120M	Yes	2.0	0.8	7.5n				0	7	74-162N	DIP16	☑
79♦	MC54F160AJ	TTL	10	1	UP	120M	Yes	2.0	0.8	15n	0.5			5	C	54-160W	DIP16a	
80▼	MC54F160AN	TTL	10	1	UP	120M	Yes	2.0	0.8	15n	0.5			5	C	54-160W	DIP16a	
81♦	MC54F162AJ	TTL	10	1	UP	120M	Yes	2.0	0.8	15n	0.5			5	C	54-162W	DIP16a	
82▼	MC54F162AN	TTL	10	1	UP	120M	Yes	2.0	0.8	15n	0.5			5	C	54-162W	DIP16a	
83♦	MC74F160AJ	TTL	10	1	UP	120M	Yes	2.0	0.8	15n	0.5			4	8	54-160W	DIP16a	
84♦	MC74F160AN	TTL	10	1	UP	120M	Yes	2.0	0.8	15n	0.5			4	8	54-160W	DIP16b	
85♦	MC74F162AJ	TTL	10	1	UP	120M	Yes	2.0	0.8	15n	0.5			4	8	54-162W	DIP16a	
86♦	MC74F162AN	TTL	10	1	UP	120M	Yes	2.0	0.8	15n	0.5			4	8	54-162W	DIP16b	
87♦	N74F160AD(A)	TTL	10	1	UP	120M	Yes	2.0	0.8	11n				0	7	74-160	FP148	
88♦	N74F160AN(A)	TTL	10	1	UP	120M	Yes	2.0	0.8	11n				0	7	74-160	DIP16a	
89♦	N74F162AD(A)	TTL	10	1	UP	120M	Yes	2.0	0.8	8.5n				0	7	74-162	FP148	
90♦	N74F162AN(A)	TTL	10	1	UP	120M	Yes	2.0	0.8	8.5n				0	7	74-162	DIP16a	
91♦	SN54S196J	TTL	10	1	UP	140M	Yes	2.0	0.8	18n	0.3		375m†	5	C	74-196N	DIP14a	
92♦	SN74S196D	TTL	10	1	UP	140M	Yes	2.0	0.8	18n	0.3		375m†	0	7	74-196	FP147	
93♦	SN74S196N	TTL	10	1	UP	140M	Yes	2.0	0.8	18n	0.3		375m†	0	7	74-196N	DIP14a	
94♦	F10010DM	ECL	10	1	UP	200M		-1.1	-1.4	5.0n	145m*		598mQ	5	C	None	DIP16a	
95♦	F10010FM	ECL	10	1	UP	200M		-1.1	-1.4	5.0n	145m*		598mQ	5	C	None	FP103	
96♦	F95010DC	ECL	10	1	UP	200M		-1.1	-1.4	5.0n	140m*		598mQ	0	7	None	DIP16a	
97♦	HEF4522	CMS	10	1	DOWN			11	4.0		6.7 †		400m	4	8	45-22B	DL	☑
98♦	HEF4522BPN	CMS	10	1	DOWN			11.0	4.0		6.7 †		400m	4	8	45-22B	DIP16b	
99♦	SCL4522B	CMS	10	1	DOWN	2.0M		3.5Δ	1.0*	415n	3.0		100uQ	5	C	45-22B	DIP16a	
100♦	MC14522BCL	CMS	10	1	DOWN	3.0M		11	4.0	340n	2.5 *		1.2mQ	4	8	45-22B	DIP16a	
101▼	MC14522BCLD	CMS	10	1	DOWN	3.0M		11	4.0	340n	2.5 *		1.2mQ	4	8	45-22B	DIP16a	
102▼	MC14522BCLDS	CMS	10	1	DOWN	3.0M		11	4.0	340n	2.5 *		1.2mQ	4	8	45-22B	DIP16a	
103▼	MC14522BCLS	CMS	10	1	DOWN	3.0M		11	4.0	340n	2.5 *		1.2mQ	4	8	45-22B	DIP16a	
104♦	MC14522BCP	CMS	10	1	DOWN	3.0M		11	4.0	340n	2.5 *		1.2mQ	4	8	45-22B	DIP16a	
105▼	MC14522BCPD	CMS	10	1	DOWN	3.0M		11	4.0	340n	2.5 *		1.2mQ	4	8	45-22B	DIP16a	
106▼	MC14522BCPDS	CMS	10	1	DOWN	3.0M		11	4.0	340n	2.5 *		1.2mQ	4	8	45-22B	DIP16a	
107▼	MC14522BCPS	CMS	10	1	DOWN	3.0M		11	4.0	340n	2.5 *		1.2mQ	4	8	45-22B	DIP16a	
108▼	MC14522BDW	CMS	10	1	DOWN	3.0M		11	4.0	340n	2.5 *		1.2mQ	4	8	45-22B	DIP16a	
109♦	MC14522BAL	CMS	10	1	DOWN	4.0M		11	4.0	240n	2.5 *		300uQ	5	C	45-22B	DIP16a	
110▼	MC14522BALD	CMS	10	1	DOWN	4.0M		11	4.0	240n	2.5 *		300uQ	5	C	45-22B	DIP16a	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. COUNTERS - Decade, BCD Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1▼	MC14522BALDS	CMS	10	1	DOWN	4.0M		11	4.0	240n	2.5 *		300uQ	5	C	45-22B	DIP16a
2▼	MC14522BALS	CMS	10	1	DOWN	4.0M		11	4.0	240n	2.5 *		300uQ	5	C	45-22B	DIP16a
3♦	TC4522BP	CMS	10	1	DOWN	5.5M		14.9	.05C	370n	2.5 *		300m	4	8	45-22B	DIP16a
4♦	883C4522B	CMS	10	1	DOWN	6.6M		8.2	6.7	240n			300m	5	C	45-22B	MO001AG
5♦	BCL4522B	CMS	10	1	DOWN	6.6M		8.2	6.7	240n			300m	5	C	45-22B	MO001AG
6♦	CD4522BC	CMS	10	1	DOWN	7.7M		7.0	3.0	50n	4.5 †		500m	4	8	45-22B	DL ☑
7♦	CD4522BM	CMS	10	1	DOWN	7.7M		7.0	3.0	50n	4.5 †		500m	5	C	45-22B	DL ☑
8♦	CD4522BD(A)	CMS	10	1	DOWN	8.0M	Yes	11	4	320n	3.9		500	5	A	E03-110	MO001AE
9♦	CD4522BE(A)	CMS	10	1	DOWN	8.0M	Yes	11	4	320n	3.9		500	4	8	E03-110	MO001AC
10♦	CD4522BF(A)	CMS	10	1	DOWN	8.0M	Yes	11	4	320n	3.9		500	5	A	E03-110	MO001AC
11♦	CD4522BK(A)	CMS	10	1	DOWN	8.0M	Yes	11	4	320n	3.9		500	5	A	E03-110	MO004AG
12♦	CD54HCT40102F	CMS	10	1	DOWN	9M	Yes	2.0	0.8	105n	2.4		500m	5	C	40-102	MS001a
13♦	CD54HC40102F	CMS	10	1	DOWN	10M	Yes	3.15	1.35	105n	1.7		500m	5	C	40-102	MS001a
14♦	PC54HCT40102D(A)	CMS	10	1	DOWN	15M	Yes	2.0	0.8	26n	0.7		500m	5	C	40-102	DIP16b
15♦	PC54HC40102D(A)	CMS	10	1	DOWN	16M	Yes	3.15	0.9	25n	0.8		500m	5	C	40-102	DIP16b
16♦	HEF4522BD	CMS	10	1	DOWN	25M	No	7.0	3.0	130n	2.9 †		500m	4	8	45-22B	DIP16b
17♦	HEF4522BP	CMS	10	1	DOWN	25M	No	7.0	3.0	130n	2.9 †		500m	4	8	45-22B	DIP16b
18♦	HEF4522BT	CMS	10	1	DOWN	25M	No	7.0	3.0	130n	2.9 †		400m	4	8	45-22B	FP148
19♦	HEF4522BTD	CMS	10	1	DOWN	32M		11.0	4.0	140n	6.7 †		200m	4	8	45-22B	FP148
20♦	GXB10137	ECL	10	1	UP/DOWN			-1.1	-1.4	2.0n				0	7	E03-35	DIP16b
21♦	HEF4510BTD	CMS	10	1	UP/DOWN		Yes	1.5	3.5	150n			200m	4	8	45-10B	FP148
22▼	M54HC190F1	CMS	10	1	UP/DOWN		Yes							5	C	54-190W	DIP16a
23▼	M54HC192F1	CMS	10	1	UP/DOWN			3.15	1.35					5	C	54-192W	DIP16a
24▼	M54HC696F1	CMS	10	1	UP/DOWN			3.15T	1.35					5	C	74LS696	DIP20c
25▼	M54HC698F1	CMS	10	1	UP/DOWN			3.15T	1.35					5	C	74LS698	DIP20c
26▼	M74HC190B1	CMS	10	1	UP/DOWN		Yes							4	8	74-190N	DIP16a
27▼	M74HC190C1	CMS	10	1	UP/DOWN		Yes							4	8	E02-212a	LC19
28▼	M74HC190F1	CMS	10	1	UP/DOWN		Yes							4	8	74-190N	DIP16a
29▼	M74HC192B1	CMS	10	1	UP/DOWN			3.15	1.35					4	8	74-192N	DIP16a
30▼	M74HC192C1	CMS	10	1	UP/DOWN			3.15	1.35					4	8	E02-213a	LC19
31▼	M74HC192F1	CMS	10	1	UP/DOWN			3.15	1.35					4	8	74-192N	DIP16a
32▼	M74HC696B1	CMS	10	1	UP/DOWN			3.15T	1.35					4	8	74LS696	DIP20c
33▼	M74HC696C1	CMS	10	1	UP/DOWN			3.15T	1.35					4	8	E03-108	LC19
34▼	M74HC696F1	CMS	10	1	UP/DOWN			3.15T	1.35					4	8	74LS696	DIP20c
35▼	M74HC698B1	CMS	10	1	UP/DOWN			3.15T	1.35					4	8	74LS698	DIP20c
36▼	M74HC698C1	CMS	10	1	UP/DOWN			3.15T	1.35					4	8	E03-108	LC19
37▼	M74HC698F1	CMS	10	1	UP/DOWN			3.15T	1.35					4	8	74LS698	DIP20c
38♦	M53392P	TTL	10	1	UP/DOWN		Yes	2.0	0.8		1.0 †			0	7	74-192N	DIP16a
39♦	MC54HC190J(A)	CMS	10	1	UP/DOWN		Yes	3.15	0.9		1.3		500m	5	C	74-190	DIP16a
40♦	MC54HC192J(A)	CMS	10	1	UP/DOWN		Yes	3.15	0.9		1.3		500m	5	C	74-192	DIP16a
41♦	MC74HC190J(A)	CMS	10	1	UP/DOWN		Yes	3.15	0.9		1.3		500m	4	8	74-190	DIP16a
42♦	MC74HC190N(A)	CMS	10	1	UP/DOWN		Yes	3.15	0.9		1.3		500m	4	8	74-190	DIP16b
43♦	MC74HC192J(A)	CMS	10	1	UP/DOWN		Yes	3.15	0.9		1.3		500m	4	8	74-192	DIP16a
44♦	MC74HC192N(A)	CMS	10	1	UP/DOWN		Yes	3.15	0.9		1.3		500m	4	8	74-192	DIP16b
45♦	N8285Q	TTL	10	1	UP/DOWN			2.6	0.4C				420m	0	7	E02-51a	TO-88
46♦	N74F192D(A)	TTL	10	1	UP/DOWN	125	Yes	2.0	0.8	13n				0	7	74-192	FP148
47♦	N74F192N(A)	TTL	10	1	UP/DOWN	125	Yes	2.0	0.8	13n				0	7	74-192	DIP16a
48♦	MSM5511RS	CMS	10	1	UP/DOWN	100k	Yes	3.6	0.8		0.6			3	8	45-10	DIP24a
49♦	MSM4510RS	CMS	10	1	UP/DOWN	1.5M	Yes	3.6	1.0	1.0u	0.6		200m	4	8	45-10B	DIP16 ☑
50♦	MSM5503RS	CMS	10	1	UP/DOWN	2.0M		3.6	0.8	1.0u	0.6			3	8	E03-88	DIP16a
51♦	MSM40192RS	CMS	10	1	UP/DOWN	2.0M	Yes	3.6	1.0	1.0u	0.6		200m	4	8	74-192N	DIP16 ☑
52♦	TC40192BP	CMS	10	1	UP/DOWN	2.5M	Yes	14.9	.05C	300n	4.0		300m	4	8	74-192N	DIP16a
53♦	M4510BP	CMS	10	1	UP/DOWN	3.0M	Yes	11	4.0	600n	4.0		0.5	4	8	45-10B	DIP16b
54♦	TC4510BP	CMS	10	1	UP/DOWN	3.0M	Yes	14.9	.05C	250n	4.0		300m	4	8	45-10B	DIP16a
55♦	CD4510BD	CMS	10	1	UP/DOWN	4.0M	Yes	7.0	3.0	200n	2.9		500m	5	C	45-10B	MO001AE
56♦	CD4510BE	CMS	10	1	UP/DOWN	4.0M	Yes	7.0	3.0	200n	2.9		500m	4	8	45-10B	MO001AC
57♦	CD4510BF	CMS	10	1	UP/DOWN	4.0M	Yes	7.0	3.0	200n	2.9		500m	5	C	45-10B	MO001AC
58♦	CD4510BK	CMS	10	1	UP/DOWN	4.0M	Yes	7.0	3.0	200n	2.9		500m	5	C	45-10B	MO004AG
59♦	MM54C192D	CMS	10	1	UP/DOWN	4.0M	Yes	3.5	1.5	250n	450m†		500m	5	C	74-192N	DIP16b
60♦	MM74C192N	CMS	10	1	UP/DOWN	4.0M	Yes	3.5	1.5	250n	450m†		500m	0	7	74-192N	DIP16a
61♦	SCL4192B	CMS	10	1	UP/DOWN	4.0M	Yes	3.5Δ	1.0*	250n			300m	5	C	74-192N	MO001AG
62♦	SCL4510B	CMS	10	1	UP/DOWN	4.0M	Yes	3.5Δ	1.0*	200n	3.0		100uQ	5	C	45-10B	DIP16a
63♦	40192BDC	CMS	10	1	UP/DOWN	5.0M	Yes	11	4.0	270n	6.7 †		9.0mQ	4	8	74-192N	DIP16a
64♦	40192BDM	CMS	10	1	UP/DOWN	5.0M	Yes	11	4.0	270n	6.7 †		9.0mQ	5	C	74-192N	DIP16a
65♦	40192BFC	CMS	10	1	UP/DOWN	5.0M	Yes	11	4.0	270n	6.7 †		9.0mQ	4	8	54-192W	FP103
66♦	40192BFM	CMS	10	1	UP/DOWN	5.0M	Yes	11	4.0	270n	6.7 †		9.0mQ	5	C	54-192W	FP103
67♦	40192BPC	CMS	10	1	UP/DOWN	5.0M	Yes	11	4.0	270n	6.7 †		9.0mQ	4	8	74-192N	DIP16 ☑
68♦	CD4510BCJ	CMS	10	1	UP/DOWN	5.0M	Yes	11	4.0	200n	6.7 †		1.2mQ	4	8	45-10B	DIP16a
69♦	CD4510BCN	CMS	10	1	UP/DOWN	5.0M	Yes	11	4.0	200n	6.7 †		1.2mQ	4	8	45-10B	DIP16a
70♦	CD4510BMJ	CMS	10	1	UP/DOWN	5.0M	Yes	11	4.0	200n	6.7 †		300uQ	5	C	45-10B	DIP16a
71♦	CD4510BMW	CMS	10	1	UP/DOWN	5.0M	Yes	11	4.0	200n	6.7 †		300uQ	5	C	45-10B	FP88c
72♦	MSM40192	CMS	10	1	UP/DOWN	5.0M	Yes	7.2	2.0	500n	2.0 *		1.4mQ	2	7	74-192N	DIP16a
73♦	TC40H192P	CMS	10	1	UP/DOWN	5.0M	Yes	4.0	1.0	135n	1.0		300m	4	8	74-192N	DIP16a
74♦	4510BDC	CMS	10	1	UP/DOWN	6.0M	Yes	11	4.0	196n	6.7 †		9.0mQ	4	8	45-10B	DIP16a
75♦	4510BDM	CMS	10	1	UP/DOWN	6.0M	Yes	11	4.0	196n	6.7 †		9.0mQ	5	C	45-10B	DIP16a
76♦	4510BFC	CMS	10	1	UP/DOWN	6.0M	Yes	11	4.0	196n	6.7 †		9.0mQ	4	8	45-10B	FP103
77♦	4510BFM	CMS	10	1	UP/DOWN	6.0M	Yes	11	4.0	196n	6.7 †		9.0mQ	5	C	45-10B	FP103
78♦	4510BPC	CMS	10	1	UP/DOWN	6.0M		11	4.0	196n	6.7 †		9.0mQ	4	8	E01-73	None
79♦	DM75L60J	TTL	10	1	UP/DOWN	6.0M	Yes	2.0	0.7		0.4			5	C	E02-198	DIP16a
80♦	DM75L63J	TTL	10	1	UP/DOWN	6.0M	Yes	2.0	0.7		0.4			5	C	E02-198	DIP16a
81♦	CD40192BCJ	CMS	10	1	UP/DOWN	7.5M	Yes	11	4.0	150n	6.7 †		1.2mQ	4	8	74-192N	DIP16a
82♦	CD40192BCN	CMS	10	1	UP/DOWN	7.5M	Yes	11	4.0	150n	6.7 †		1.2mQ	4	8	74-192N	DIP16a
83♦	CD40192BMJ	CMS	10	1	UP/DOWN	7.5M	Yes	11	4.0	150n	6.7 †		300uQ	5	C	74-192N	DIP16a
84♦	CD40192BMW	CMS	10	1	UP/DOWN	7.5M	Yes	11	4.0	150n	6.7 †		300uQ	5	C	54-192W	FP88c
85♦	CD40192BD	CMS	10	1	UP/DOWN	8.0M	Yes	7.0	3.0	240n	2.9		500m	5	C	74-192N	MO001AD
86♦	CD40192BE	CMS	10	1	UP/DOWN	8.0M	Yes	7.0	3.0	240n	2.9		500m	4	8	74-192N	MO001AB
87♦	CD40192BF	CMS	10	1	UP/DOWN	8.0M	Yes	7.0	3.0	240n	2.9		500m	5	C	74-192N	MO001AB
88♦	HEF40192P	CMS	10	1	UP/DOWN	8.0M	Yes	7.0	3.0	30n			1.0mQ	4	8	74-192N	DIP16a
89♦	MC14510BAL	CMS	10	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *			5	C	45-10B	DIP16a
90▼	MC14510BALD	CMS	10	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *			5	C	45-10B	DIP16a
91▼	MC14510BALDS	CMS	10	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *			5	C	45-10B	DIP16a
92▼	MC14510BALS	CMS	10	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *			5	C	45-10B	DIP16a
93♦	MC14510BCL	CMS	10	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *			4	8	45-10B	DIP16a
94▼	MC14510BCLD	CMS	10	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *			4	8	45-10B	DIP16a
95▼	MC14510BCLDS	CMS	10	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *			4	8	45-10B	DIP16a
96▼	MC14510BCLS	CMS	10	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *			4	8	45-10B	DIP16a
97♦	MC14510BCP	CMS	10	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *			4	8	45-10B	DIP16a
98▼	MC14510BCPD	CMS	10	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *			4	8	45-10B	DIP16a
99▼	MC14510BCPDS	CMS	10	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *			4	8	45-10B	DIP16a
100▼	MC14510BCPS	CMS	10	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *			4	8	45-10B	DIP16a
101▼	MC14510BD	CMS	10	1	UP/DOWN	8.0M	Yes	11	4.0	300n	2.5 *			4	8	45-10B	DIP16a
102♦	UPD4510BG	CMS	10	1	UP/DOWN	8.0M	Yes	11.0	4.0	300n	3.9		200m	4	8	45-10B	FP162
103♦	PC74HC190P	CMS	10	1	UP/DOWN	10M	Yes	3.15	1.35	66n	0.8		500m	4	C	74-190	DIP16b
104♦	PC74HC190T	CMS	10	1	UP/DOWN	10M	Yes	3.15	1.35	66n	0.8		300m	4	C	74-190	FP148
105♦	883C4192B	CMS	10	1	UP/DOWN	11M	Yes	8.2	6.7	180n			300m	5	C	74-192	MO001AG
106♦	883C4510B	CMS	10	1	UP/DOWN	11M	Yes	8.2	6.7	150n			300m	5	C	45-10	MO001AG
107♦	BCL4192B	CMS	10	1	UP/DOWN	11M	Yes	8.2	6.7	180n			300m	5	C	74-192N	MO001AG
108♦	BCL4510B	CMS	10	1	UP/DOWN	11M	Yes	8.2	6.7	150n			300m	5	C	45-10	MO001AG
109♦	HCC4510BD	CMS	10	1	UP/DOWN	11M	Yes	11	4.0	150n	2.5 *		200m	5	C	45-10B	DIP16a
110♦	HCC4510BF	CMS	10	1	UP/DOWN	11M	Yes	11	4.0	150n	2.5 *		200m	5	C	45-10B	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. COUNTERS - Decade, BCD Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	5 TYPE NUMBER	TECHN	1 MODU-LUS	2 CKTS PER PKG	3 MODE	4 f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	HCC4510BK	CMS	10	1	UP/DOWN	11M	Yes	11	4.0	150n	2.5 *		200m	5 C	45-10B	FP131
2♦	HCF4510BE	CMS	10	1	UP/DOWN	11M	Yes	11	4.0	150n	2.5 *		200m	4 8	45-10B	DIP16a
3♦	HCF4510BF	CMS	10	1	UP/DOWN	11M	Yes	11	4.0	150n	2.5 *		200m	4 8	45-10B	DIP16a
4♦	PC74HCT190P	CMS	10	1	UP/DOWN	11M	Yes	2.0	0.8	66n	0.7		500m	4 C	74-190	DIP16b
5♦	PC74HCT190T	CMS	10	1	UP/DOWN	11M	Yes	2.0	0.8	66n	0.7		300m	4 C	74-190	FP148
6♦	DM54L192J	TTL	10	1	UP/DOWN	12M	Yes	2.0	0.7	150n			40m†	5 C	74-192N	DIP16a
7♦	DM74L192N	TTL	10	1	UP/DOWN	12M	Yes	2.0	0.7	150n			40m†	0 7	74-192N	DIP16a
8♦	DM75L60W	TTL	10	1	UP/DOWN	12M		2.0	0.7	60n	0.4		40m	5 C	E02-198	FP98b
9♦	DM75L63W	TTL	10	1	UP/DOWN	12M		2.0	0.7	60n	0.4		40m	5 C	E02-198	FP98b
10♦	DM85L60N	TTL	10	1	UP/DOWN	12M	Yes	2.0	0.7	60n	0.3		40m	0 7	74-192N	DIP16a
11♦	HEF4510B	CMS	10	1	UP/DOWN	12M	Yes	9.95	.05C	150n			100uQ	4 8	45-10B	DIP16b
12♦	74HCT190D	CMS	10	1	UP/DOWN	13M	Yes	2.0	0.8	55n	0.7			4	74-190	FP162
13♦	74HCT190N	CMS	10	1	UP/DOWN	13M	Yes	2.0	0.8	55n	0.7			4	74-190	DIP16b
14♦	CD54HC190F	CMS	10	1	UP/DOWN	13M	Yes	3.15	1.35	66n	1.7		500m	4 8	74-190	MS001a
15♦	CD54HC192F	CMS	10	1	UP/DOWN	13M	Yes	3.15	1.35	65n	1.0		500m	5 C	74-192N	MO001AG
16♦	CD54HCT190F	CMS	10	1	UP/DOWN	13M	Yes	2.0	0.8	66n	2.4		500m	4 8	74-190	MS001a
17♦	CD54HCT192F	CMS	10	1	UP/DOWN	13M	Yes	3.15	1.35	65n	2.4		500m	5 C	74-192N	MO001AG
18♦	HEF40192	CMS	10	1	UP/DOWN	13M	Yes	11	4.0	205n	6.7 †		400m	4 8	74-192N	DL ☑
19♦	HEF40192BPN	CMS	10	1	UP/DOWN	13M	Yes	11.0	4.0	205n	6.7 †		400m	4 8	74-192N	DIP16b
20♦	MM54HC192J	CMS	10	1	UP/DOWN	13M	Yes	4.2	1.2	74n	1.7		500m	5 C	74-192N	DIP16a
21♦	74HC190D	CMS	10	1	UP/DOWN	14M	Yes	3.15	1.35	47n	1.2			4	74-190	FP162
22♦	74HC190N	CMS	10	1	UP/DOWN	14M	Yes	3.15	1.35	47n	1.2			4	74-190	DIP16b
23♦	HEF40192BD	CMS	10	1	UP/DOWN	14M	Yes	7.0	3.0	165n	2.9 †		500m	4 8	74-192N	DIP16b
24♦	HEF40192BP	CMS	10	1	UP/DOWN	14M	Yes	7.0	3.0	165n	2.9 †		500m	4 8	74-192N	DIP16b
25♦	HEF40192BT	CMS	10	1	UP/DOWN	14M	Yes	7.0	3.0	165n	2.9 †		400m	4 8	54-192W	FP148
26♦	SN54HC190J	CMS	10	1	UP/DOWN	14M	Yes	3.15	0.9	72n	1.2			5 C	74-190N	DIP16a
27♦	SN54HC192J	CMS	10	1	UP/DOWN	14M	Yes	3.15	0.90	78n	1.2			5 C	74-192N	DIP16a
28♦	MM54HC190J(A)	CMS	10	1	UP/DOWN	15M	Yes	4.2	1.2	73n	1.7		500m	5 C	74-190N	DIP16a
29♦	CD74HC190E	CMS	10	1	UP/DOWN	16M	Yes	3.15	1.35	55n	1.7		500m	4 8	74-190	MS001a
30♦	CD74HC190M	CMS	10	1	UP/DOWN	16M	Yes	3.15	1.35	55n	1.7		300m	5 C	54-190	FP148
31♦	CD74HC192E	CMS	10	1	UP/DOWN	16M	Yes	3.15	1.35	54n	1.0		500m	4 8	74-192N	DIP16b
32♦	CD74HC192M	CMS	10	1	UP/DOWN	16M	Yes	3.15	1.35	54n	1.7		300m	4 8	54-192	FP148
33♦	CD74HCT190E	CMS	10	1	UP/DOWN	16M	Yes	2.0	0.8	55n	2.4		500m	4 8	74-190	MS001a
34♦	CD74HCT190M	CMS	10	1	UP/DOWN	16M	Yes	2.0	0.8	55n	2.4		300m	5 C	54-190	FP148
35♦	CD74HCT192E	CMS	10	1	UP/DOWN	16M	Yes	3.15	1.35	54n	2.4		500m	4 8	74-192N	DIP16b
36♦	CD74HCT192M	CMS	10	1	UP/DOWN	16M	Yes	3.15	1.35	54n	1.7		300m	4 8	54-192	FP148
37▼	HD74HC192FP	CMS	10	1	UP/DOWN	16M	Yes	3.15	1.35	21n	1.2		500m	4 8	74-192N	FP162
38▼	HD74HC192P	CMS	10	1	UP/DOWN	16M	Yes	3.15	1.35	21n	1.2		500m	4 8	74-192N	DIP16a
39♦	MM74HC192J	CMS	10	1	UP/DOWN	16M	Yes	4.2	1.2	61n	1.7		500m	4 8	74-192N	DIP16a
40♦	MM74HC192N	CMS	10	1	UP/DOWN	16M	Yes	4.2	1.2	61n	1.7		500m	4 8	74-192N	DIP16a
41♦	HEF4510	CMS	10	1	UP/DOWN	17M	Yes	11	4.0	150n	6.7 †		400m	4 8	45-10B	DL ☑
42♦	HEF4510BPN	CMS	10	1	UP/DOWN	17M	Yes	11.0	4.0	150n	6.7 †		400m	4 8	45-10B	DIP16b
43♦	SN74HC190N	CMS	10	1	UP/DOWN	17M	Yes	3.15	0.90	60n	1.2			4 8	74-190N	DIP16a
44♦	SN74HC192N	CMS	10	1	UP/DOWN	17M	Yes	3.15	0.90	65n	1.2			4 8	74-192N	DIP16a
45♦	AM25LS2568DMB	TTL	10	1	UP/DOWN	18M	Yes	2.0	0.8	17n				5 C	74LS568N	DIP20b
46♦	AM25LS2569DMB	TTL	10	1	UP/DOWN	18M	Yes	2.0	0.8	17n				5 C	74LS568N	DIP20b
47♦	MM74HC190J(A)	CMS	10	1	UP/DOWN	18M	Yes	4.2	1.2	61n	1.7		500m	4 8	74-190N	DIP16a
48♦	MM74HC190N(A)	CMS	10	1	UP/DOWN	18M	Yes	4.2	1.2	61n	1.7		500m	4 8	74-190N	DIP16a
49♦	SN54ALS568AFH	TTL	10	1	UP/DOWN	18M	Yes	2.0	0.8	31n				5 C	74LS568N	LC19
50♦	54LS190FM	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	36n	300m		175mQ	5 C	54-190W	FP93c
51♦	AM25LS2568DC	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	45n	300m*		225m	0 7	74LS568N	DIP20b
52♦	AM25LS2568DCB	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.7	17n				0 7	74LS568N	DIP20b
53♦	AM25LS2568PC	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	45n	300m*		225m	0 7	74LS568N	DIP20b
54♦	AM25LS2568PCB	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.7	17n				0 7	74LS568N	DIP20b
55♦	AM25LS2569DCB	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.7	17n				0 7	74LS568N	DIP20b
56♦	AM25LS2569PCB	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.7	17n				0 7	74LS568N	DIP20b
57♦	CD54HCT4510F	CMS	10	1	UP/DOWN	20M	Yes	2.0	0.8	66n	0.7		500m	5 C	45-10	MO001AC
58♦	DM54ALS190J	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	25n	0.4			5 C	74-190	DIP16a
59♦	DM54ALS192J	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	23n	0.4			5 C	74-192	DIP16a
60▼	HD74HC190FP	CMS	10	1	UP/DOWN	20M	Yes	3.15	1.35	22n	1.2		500m	4 8	74-190N	FP162
61▼	HD74HC190P	CMS	10	1	UP/DOWN	20M	Yes	3.15	1.35	22n	1.2		500m	4 8	74-190N	DIP16a
62▼	HD74LS190G	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	52n	300m		400m	2 7	74-190	DIP16a
63♦	HD74LS190P	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	24n	300m		400m	2 7	74-190	DIP16a
64♦	M74ALS568AP	TTL	10	1	UP/DOWN	20M	Yes	2.0T	0.8	29n	0.4		150m	2 7	74LS568N	DIP20a
65♦	MB74LS190	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	50n			175m	2 7	74-190N	DIP16a
66♦	MB74LS190M	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	50n			175m	2 7	74-190N	DIP16b
67♦	N74LS190F	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	52n			175m	0 7	74-190N	DIP16b
68♦	N74LS190N	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	52n			175m	0 7	74-190N	DIP16a
69♦	N74190F	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	52n	1.0 †		525m	0 7	74-190N	DIP16b
70♦	N74190N	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	50n	0.4		525m	0 7	74-190N	DIP16a
71♦	S54LS190F	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.7	52n			175m	5 C	74-190N	DIP16b
72♦	S54LS190W	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.7	52n			175m	5 C	54-190W	FP47g
73♦	S54190F	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	50n	0.4		525m	5 C	74-190N	DIP16b
74♦	S54190W	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	50n	0.4		525m	5 C	54-190W	FP154
75♦	SN54LS696J	TTL	10	1	UP/DOWN	20M		2.0T	0.7	40n	0.3			5 C	74LS696	DIP20b
76▼	SN74ALS568ADW	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	16n	0.4			0 7	74LS568N	FP169
77♦	SN74ALS568AN	TTL	10	1	UP/DOWN	20M	Yes	2.0	0.8	16n	0.4			0 7	74LS568N	DIP20a
78♦	SN74LS696N	TTL	10	1	UP/DOWN	20M		2.0T	0.8	40n	0.4			0 7	74LS696	DIP20a
79♦	SN74LS698N	TTL	10	1	UP/DOWN	20M		2.0T	0.8	40n	0.4			0 7	74LS698	DIP20a
80♦	74HC192D	CMS	10	1	UP/DOWN	21M	Yes	3.15	1.35	46n	1.2			4	74-192	FP162
81♦	74HC192N	CMS	10	1	UP/DOWN	21M	Yes	3.15	1.35	46n	1.2			4	74-192	DIP16b
82▼	HD74HC668FP	CMS	10	1	UP/DOWN	21M	Yes	3.15	1.35	56n	1.2		500m	4 8	74HC668	FP167
83▼	HD74HC668P	CMS	10	1	UP/DOWN	21M	Yes	3.15	1.35	56n	1.2		500m	4 8	74HC668	DIP16a
84♦	M74ALS190P	TTL	10	1	UP/DOWN	23M	Yes	2.0	0.8		0.3		121m	2 7	74-190	DIP16b
85♦	M74ALS192P	TTL	10	1	UP/DOWN	23M	Yes	2.0	0.8	31n	0.3			2 7	74-192	DIP16b
86♦	CD54HC4510F	CMS	10	1	UP/DOWN	24M	Yes	3.15	1.35	66n	1.2		500m	5 C	45-10	MO001AC
87♦	CD74HCT4510E	CMS	10	1	UP/DOWN	24M	Yes	2.0	0.8	66n	0.4		500m	4 8	45-10	MS001a
88♦	CD74HCT4510M	CMS	10	1	UP/DOWN	24M	Yes	2.0	0.8	64n	0.7		400m	4 8	45-10	MS012c
89♦	HEF4510BD	CMS	10	1	UP/DOWN	24M	Yes	7.0	3.0	120n			500m	4 8	45-10B	DIP16b
90♦	HEF4510BP	CMS	10	1	UP/DOWN	24M	Yes	7.0	3.0	120n			500m	4 8	45-10B	DIP16b
91♦	HEF4510BT	CMS	10	1	UP/DOWN	24M	Yes	7.0	3.0	120n			400m	4 8	45-10B	FP148
92♦	54LS168DM	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.7	30n	400m*		170mQ	5 C	74S168N	DIP16a
93♦	54LS168FM	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.7	30n	400m*		170mQ	5 C	54S168W	FP103
94♦	74HCT192D	CMS	10	1	UP/DOWN	25M	Yes	2.0	0.8	55n	0.7			4	74-192	FP162
95♦	74HCT192N	CMS	10	1	UP/DOWN	25M	Yes	2.0	0.8	55n	0.7			4	74-192	DIP16b
96♦	74LS168DC	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	30n	300m*		170mQ	0 7	74S168N	DIP16a
97♦	74LS168PC	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	30n	300m*		170mQ	0 7	74S168N	DIP16 ☑
98♦	54190FM	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	50n	400m*		325m†	5 C	54-190W	FP103
99♦	54192FM	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	47n	400m*		325m	5 C	54-192W	FP93c
100♦	74190PC	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	50n	400m*		325m†	0 7	74-190N	None
101♦	DM54ALS168BJ	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	20n	0.4			5 C	74S168	DIP16a
102♦	DM54LS190J	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.7	62n	0.3			5 C	74-190	DIP16a
103♦	DM54LS190W	TTL	10	1	UP/DOWN	25M		2.0	0.8	20n	0.4		100m	5 C	E02-187	FP98b
104♦	DM74ALS190J	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	21n	0.3			0 7	74-190	DIP16a
105♦	DM74ALS190N	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	21n	0.3			0 7	74-190	DIP16a
106♦	DM74ALS192J	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	19n	0.3			0 7	74-192	DIP16a
107♦	DM74ALS192N	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	19n	0.3			0 7	74-192	DIP16a
108♦	DM74LS190N	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	20n	0.4		100m	0 7	74-190N	DIP16a
109♦	DM54190J	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	54n			525mQ	5 C	74-190N	DIP16a
110♦	DM74190J	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	54n			525mQ	0 7	74-190N	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODULUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1♦	DM74190N	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	54n			525mQ	0	7	74-190N	DIP16a	
2♦	DM74190W	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	54n			525mQ	0	7	54-190W	FP88a	
3♦	DN74LS190P2	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	50n	700m		400m	2	7	74-190	DIP16a	
4♦	DN74LS190P5	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	50n	700m		400m	2	7	74-190	FP178	
5▼	HD74LS192G	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	47n	300m		400m	2	7	74-192N	DIP16a	
6♦	HD74LS192P	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	22n	300m		400m	2	7	74-192N	DIP16a	
7▼	HD74LS668G	TTL	10	1	UP/DOWN	25M		2.0	0.8	60n	300m		400m	2	7	74-668	DIP16a	
8♦	HD74LS668P	TTL	10	1	UP/DOWN	25M		2.0	0.8	36n	300m		400m	2	7	74-668	DIP16a	
9♦	M53390P	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	50n			325m†	0	7	74-190N	DIP16a	
10♦	MB74LS192	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	47n			170m	2	7	74-192N	DIP16a	
11♦	MB74LS192M	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	47n			170m	2	7	74-192N	DIP16b	
12♦	N74LS168AF	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	35n			170m	0	7	74S168N	DIP16b	
13♦	N74LS168AN	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	23n	0.3		170m	0	7	74S168N	DIP16a	
14♦	N74LS192F	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	47n			170m	0	7	74-192N	DIP16b	
15♦	N74LS192N	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	47n	0.3		170m	0	7	74-192N	DIP16a	
16♦	N74LS568F	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	35n			215m	0	7	74LS568N	DIP20b	
17♦	N74LS568N	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	35n			215m	0	7	74LS568N	DIP20a	
18♦	N74190W	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	52n	1.0 †		525m	0	7	54-190W	FP47g	
19♦	N74192F	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	47n	1.0 †		510m	0	7	74-192N	DIP16b	
20♦	N74192N	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	47n	0.4		510m	0	7	74-192N	DIP16a	
21♦	S54LS168AF	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.7	23n	0.3		170m	5	C	74S168N	DIP16b	
22♦	S54LS168AW	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.7	23n	0.3		170m	5	C	54S168W	FP154	
23♦	S54LS192F	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.7	47n	0.3		170m	5	C	74-192N	DIP16b	
24♦	S54LS192W	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.7	47n	0.3		170m	5	C	54-192W	FP154	
25♦	S54LS568F	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.7	35n			215m	5	C	74LS568N	DIP20b	
26♦	S54192E	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	47n				5	C	74-192N	DIP16a	
27♦	S54192F	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	40n	1.0 †		445m	5	C	74-192N	DIP16b	
28♦	S54192R	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	47n				5	C	54-192W	FP79a	
29♦	S54192W	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	40n	1.0 †		445m	5	C	54-192W	FP	☑
30♦	SN54LS168J	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.7	30n			170m	5	C	74S168N	DIP16a	
31♦	SN54LS190J	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.7	52n	0.3		100m†	5	C	74-190N	DIP16a	
32▼	SN54LS190N	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.7	52n	0.3		100m†	5	C	74-190N	DIP16a	
33♦	SN54LS568J	TTL	10	1	UP/DOWN	25M	Yes	2.0Ø	0.7		300m			5	C	74LS568N	DIP20	
34▼	SN54LS568N	TTL	10	1	UP/DOWN	25M	Yes	2.0Ø	0.7		300m			5	C	74LS568N	DIP20	
35▼	SN74ALS190D	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	21n	400m			0	7	74-190N	FP162	
36♦	SN74ALS190N	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	21n	400m			0	7	74-190N	DIP16b	
37▼	SN74ALS192D	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	30n	300m			0	7	74-192N	FP162	
38♦	SN74ALS192N	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	30n	300m			0	7	74-192N	DIP16b	
39♦	SN74LS168J	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	30n			170m	0	7	74S168N	DIP16a	
40♦	SN74LS168N	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	30n			170m	0	7	74S168N	DIP16a	
41♦	SN74LS190D	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	40n	0.4		100m†	0	7	74-190	FP148	
42♦	SN74LS190J	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	52n	0.3		100m†	0	7	74-190N	DIP16a	
43♦	SN74LS190N	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	52n	0.3		100m†	0	7	74-190N	DIP16a	
44♦	SN74LS568J	TTL	10	1	UP/DOWN	25M	Yes	2.0Ø	0.8		300m			0	7	74LS568N	DIP20	
45♦	SN74LS568N	TTL	10	1	UP/DOWN	25M	Yes	2.0Ø	0.8		300m			0	7	74LS568N	DIP20b	
46♦	SN54190J	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	50n	0.4		325m†	5	C	74-190N	DIP16a	
47♦	SN74190N	TTL	10	1	UP/DOWN	25M	Yes	2.0	0.8	50n	0.4		325m†	0	7	74-190N	DIP16a	
48♦	HEF40192BTD	CMS	10	1	UP/DOWN	26M	Yes	11.0	4.0	205n	6.7 †		200m	4	8	54-192W	FP148	
49♦	AM2501DC	TTL	10	1	UP/DOWN	27M		1.7	0.85	60n			480mQ	0	7	E01-46	DIP24a	
50♦	UPD74HC192C(A)	CMS	10	1	UP/DOWN	27M	Y	4.2	1.2	55n			500m	4	8	74-192	DIP16a	
51♦	CD74HC4510E	CMS	10	1	UP/DOWN	28M	Yes	3.15	1.35	64n	1.2		500m	4	8	45-10	MS001a	
52♦	CD74HC4510M	CMS	10	1	UP/DOWN	28M	Yes	3.15	1.35	64n	1.2		400m	4	8	45-10	MS012c	
53♦	M74ALS168AP	TTL	10	1	UP/DOWN	28M	Yes	2.0	0.8	28n				2	7	74S168	DIP16b	
54♦	54192DM	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8	47n	400m*		325m†	5	C	74-192N	DIP16b	
55♦	74192DC	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8	47n	400m*		325m†	0	7	74-192N	DIP16b	
56♦	74192PC	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8	47n	400m*		325m†	0	7	74-192N	DIP16	☑
57♦	DM74ALS168BJ	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8	16n	0.3			0	7	74S168	DIP16a	
58♦	DM74ALS168BN	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8	16n	0.3			0	7	74S168	DIP16a	
59♦	DM7560J	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8	47n			510mQ	5	C	74-192N	DIP16a	
60♦	DM7560W	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8	47n			510mQ	5	C	54-192W	FP88a	
61♦	DM8560J	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8	47n			510mQ	0	7	74-192N	DIP16a	
62♦	DM8560N	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8	47n			510mQ	0	7	74-192N	DIP16a	
63♦	DM54192J	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8	47n			510mQ	5	C	74-192N	DIP16a	
64♦	DM54192W	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8	47n			510mQ	5	C	54-192W	FP88a	
65♦	DM74192J	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8	47n			510mQ	0	7	74-192N	DIP16a	
66♦	DM74192N	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8	47n			510mQ	0	7	74-192N	DIP16a	
67♦	MB456	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8				325m†	0	7	74-190N	DIP16b	
68♦	MB456M	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8				325m†	0	7	74-190N	DIP16b	
69♦	MB457	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8				325m†	0	7	74-190N	DIP16b	
70♦	MB457M	TTL	10	1	UP/DOWN	30M	Yes	2.0	0.8				325m†	0	7	74-190N	DIP16b	
71♦	N8285F	TTL	10	1	UP/DOWN	30M		2.0	0.8				360m	0	7	E02-51a	DIP14a	
72♦	PC74HC192P	CMS	10	1	UP/DOWN	30M	Yes	3.15	1.35	65n				4	C	74-192	DIP16b	
73♦	PC74HC192T(A)	CMS	10	1	UP/DOWN	30M	Yes	3.15	1.35	65n	0.8		300m	4	C	74-192	FP148	
74♦	PC74HCT192P	CMS	10	1	UP/DOWN	30M	Yes	2.0	0.8	65n	0.7		500m	4	C	74-192	DIP16b	
75♦	PC74HCT192T	CMS	10	1	UP/DOWN	30M	Yes	2.0	0.8	65n				4	C	74-192	FP148	
76♦	DM54LS168AJ	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.7	44n	0.3			5	C	74S168	DIP16a	
77♦	DM54LS192J	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.7	54n	0.3			5	C	74-192	DIP16a	
78♦	DM54LS192W	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	26n	0.4		95m	5	C	54-192W	FP98b	
79♦	DM74LS192N	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	26n	0.4		95m	0	7	74-192N	DIP16a	
80♦	DN74LS192P2	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	47n	700m		400m	2	7	74-192	DIP16a	
81♦	DN74LS192P5	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	47n	700m		400m	2	7	74-192	FP178	
82♦	SFC4192E	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	47n			325m†	0	7	74-192N	DIP16a	
83♦	SFC4192EM	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	47n			325m†	5	C	74-192N	DIP16a	
84♦	SFC4192ET	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	47n			325m†	2	8	74-192N	DIP16a	
85♦	SN54LS168AJ	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.7	35n			170m	5	C	74S168N	DIP16a	
86▼	SN54LS168AN	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.7	35n			170m	5	C	74S168N	DIP16a	
87♦	SN54LS192J	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.7	47n	300m			5	C	74-192N	DIP16a	
88▼	SN54LS192N	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.7	47n	300m			5	C	74-192N	DIP16a	
89♦	SN54LS668J	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.7	60n	0.3		170mQ	5	C	74S168N	DIP16a	
90▼	SN54LS668N	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.7	60n	0.3		170mQ	5	C	74S168N	DIP16a	
91♦	SN74LS168AJ	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	35n			170m	0	7	74S168N	DIP16a	
92♦	SN74LS168AN	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	35n			170m	0	7	74S168N	DIP16a	
93♦	SN74LS192D	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	47n	0.4		95m†	0	7	74-192	FP148	
94♦	SN74LS192J	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	47n	0.4		95m†	0	7	74-192N	DIP16a	
95♦	SN74LS192N	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	47n	300m			0	7	74-192N	DIP16a	
96♦	SN74LS668J	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	60n	0.4		170mQ	0	7	74S168N	DIP16a	
97♦	SN54192J	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	47n			325m†	5	C	74-192N	DIP16a	
98♦	SN74192N	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	47n			325m†	0	7	74-192N	DIP16a	
99▼	TC74HC192F(A)	CMS	10	1	UP/DOWN	32M	Yes	3.15	1.35	48n	1.2		180m	4	8	74-192N	FP167	
100▼	TC74HC192P(A)	CMS	10	1	UP/DOWN	32M	Yes	3.15	1.35	48n	1.2		500m	4	8	74-192N	DIP16a	
101♦	ZN74192E	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	47n	1.0 †		325m†	0	7	74-192N	TO-116	
102♦	ZN74192J	TTL	10	1	UP/DOWN	32M	Yes	2.0	0.8	47n	1.0 †		325m†	0	7	74-192N	DIP14a	
103▼	TC74HC696P	CMS	10	1	UP/DOWN	33M	Yes	3.15T	1.35	65n	1.02		500m	4	8	74LS696	DIP20a	
104♦	74LS190PC	TTL	10	1	UP/DOWN	35M	Yes	2.0	0.8	36n	300m		175mQ	0	7	74-190N	DIP16a	
105♦	N74LS568AN	TTL	10	1	UP/DOWN	35M	Yes	2.0	0.8	25n	0.3			0	7	74LS568N	DIP20	☑
106♦	S54LS568AF	TTL	10	1	UP/DOWN	35M	Yes	2.0	0.7	25n	0.3			5	C	74LS568N	DIP20	☑
107♦	54LS192DM	TTL	10	1	UP/DOWN	40M	Yes	2.0	0.7	22n	300m		170mQ	5	C	74-192N	DIP16b	
108♦	54LS192FM	TTL	10	1	UP/DOWN	40M	Yes	2.0	0.7	22n	300m		170mQ	5	C	54-192W	FP47b	
109♦	74LS192DC	TTL	10	1	UP/DOWN	40M	Yes	2.0	0.8	22n	300m		170mQ	0	7	74-192N	DIP16b	
110♦	74LS192PC	TTL	10	1	UP/DOWN	40M	Yes	2.0	0.8	22n	300m		170mQ	0	7	74-192N	DIP16a	

11. COUNTERS – Decade, BCD Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	M74LS190P	TTL	10	1	UP/DOWN	40M	Yes	2.0	0.8	52n	0.4		100m†	2	7	74-190N	DIP16a
2♦	M74LS192P	TTL	10	1	UP/DOWN	40M	Yes	2.0	0.8	32n	400m*		95m†	2	7	74-192N	DIP16b
3♦	N74S168AD	TTL	10	1	UP/DOWN	40M	Yes	2.0	0.8	15n	0.3			0	7	74S168N	FP148
4♦	N74S168AN	TTL	10	1	UP/DOWN	40M	Yes	2.0	0.8	15n	0.4			0	7	74S168	DIP16a
5♦	N74S168F	TTL	10	1	UP/DOWN	40M	Yes	2.0	0.8	15n	0.4			0	7	74S168N	DIP16a
6♦	N74S168N	TTL	10	1	UP/DOWN	40M	Yes	2.0	0.8	15n	0.4			5	C	74S168N	DIP16b
7♦	PC54HC190D	CMS	10	1	UP/DOWN	40M	Yes	2.0	0.8	22n	0.7		500m	4	8	74-190	DIP16b
8♦	PC54HC192D(A)	CMS	10	1	UP/DOWN	40M	Yes	3.15	0.9	20n	0.8		500m	5	C	74-192	DIP16b
9♦	PC54HCT190D(A)	CMS	10	1	UP/DOWN	40M	Yes	2.0	0.8	22n	0.7		500m	5	C	74-190	DIP16b
10♦	PC54HCT192D(A)	CMS	10	1	UP/DOWN	40M	Yes	2.0	0.8	22n	0.7		500m	5	C	74-192	DIP16b
11♦	PC74HC190D(A)	CMS	10	1	UP/DOWN	40M	Yes	3.15	0.9	20n	0.8		500m	4	8	74-190	DIP16b
12♦	PC74HC192D(A)	CMS	10	1	UP/DOWN	40M	Yes	3.15	0.9	20n	0.8		500m	4	8	74-192	DIP16b
13♦	PC74HCT190D(A)	CMS	10	1	UP/DOWN	40M	Yes	2.0	0.8	22n	0.7		500m	4	8	74-190	DIP16b
14♦	S54S168AF	TTL	10	1	UP/DOWN	40M	Yes	2.0	0.8	15n	0.3			5	C	74S168N	DIP16b
15♦	S54S168F	TTL	10	1	UP/DOWN	40M	Yes	2.0	0.8	15n	0.4			5	C	74S168N	DIP16a
16▼	SN74ALS168BD	TTL	10	1	UP/DOWN	40M	Yes	2.0	0.8	20n	0.4			0	7	74S168N	FP162
17▼	SN74ALS168BN	TTL	10	1	UP/DOWN	40M	Yes	2.0	0.8	20n	0.4			0	7	74S168N	DIP16a
18♦	74HC4510D	CMS	10	1	UP/DOWN	45M		4.2	1.8	17n	2.4			4		45-10	FP162
19♦	74HC4510N	CMS	10	1	UP/DOWN	45M		4.2	1.8	17n	2.4			4		45-10	DIP16b
20♦	74HCT4510D	CMS	10	1	UP/DOWN	45M		2.0	0.8	19n	1.2			4		45-10	FP162
21♦	74HCT4510N	CMS	10	1	UP/DOWN	45M		2.0	0.8	19n	1.2			4		45-10	DIP16b
22♦	PC54HC4510D(A)	CMS	10	1	UP/DOWN	45M	Yes	3.15	0.9	17n	0.8		500m	5	C	45-10	DIP16b
23♦	PC54HCT4510D(A)	CMS	10	1	UP/DOWN	45M	Yes	2.0	0.8	19n	0.7		500m	5	C	45-10	DIP16b
24♦	PC74HC4510D(A)	CMS	10	1	UP/DOWN	45M	Yes	3.15	0.9	17n	0.8		500m	4	8	45-10	DIP16b
25♦	PC74HC4510P	CMS	10	1	UP/DOWN	45M	Yes	3.15	1.35	17n	0.8		500m	4	C	45-10	DIP16b
26♦	PC74HC4510T	CMS	10	1	UP/DOWN	45M	Yes	3.15	1.35	17n	0.8		300m	4	C	45-10	FP148
27♦	PC74HCT4510D(A)	CMS	10	1	UP/DOWN	45M	Yes	2.0	0.8	19n	0.7		500m	4	8	45-10	DIP16b
28♦	PC74HCT4510P	CMS	10	1	UP/DOWN	45M	Yes	2.0	0.8	19n	0.7		500m	4	C	45-10	DIP16b
29♦	PC74HCT4510T	CMS	10	1	UP/DOWN	45M	Yes	2.0	0.8	19n	0.7		300m	4	C	45-10	FP148
30▼	TC74HC190F	CMS	10	1	UP/DOWN	45M	Yes	3.15	1.35	44n	1.2		180m	4	8	74-190N	FP167
31▼	TC74HC190P(A)	CMS	10	1	UP/DOWN	45M	Yes	3.15	1.35	44n	1.2		500m	4	8	74-190N	DIP16a
32♦	SN74S168N	TTL	10	1	UP/DOWN	55M	Yes	2.0	0.8	28n	0.3		500m†	0	7	74S168N	DIP16a
33♦	DM54AS168J	TTL	10	1	UP/DOWN	65M	Yes	2.0	0.8	14n	0.3			5	C	74S168	DIP16a
34♦	SN54S168J	TTL	10	1	UP/DOWN	70M	Yes	2.0	0.8	28n	0.3		500m†	5	C	74S168N	DIP16a
35♦	DM74AS168J	TTL	10	1	UP/DOWN	75M	Yes	2.0	0.8	13n	0.3			0	7	74S168	DIP16a
36♦	DM74AS168N	TTL	10	1	UP/DOWN	75M	Yes	2.0	0.8	13n	0.3			0	7	74S168	DIP16a
37▼	SN74AS168D	TTL	10	1	UP/DOWN	75M	Yes	2.0	0.8	13n	0.3			0	7	74S168N	FP162
38♦	SN74AS168N	TTL	10	1	UP/DOWN	75M	Yes	2.0	0.8	13n	0.3			0	7	74S168N	DIP16a
39♦	N74F168D(A)	TTL	10	1	UP/DOWN	90M	Yes	2.0	0.8	13n				0	7	74S168	FP148
40♦	N74F168N(A)	TTL	10	1	UP/DOWN	90M	Yes	2.0	0.8	13n				0	7	74S168	DIP16a
41♦	MC74F190J	TTL	10	1	UP/DOWN	110M	Yes	2.0	0.8	18n	300m			0	7	74-190N	DIP16a
42♦	MC74F190N	TTL	10	1	UP/DOWN	110M	Yes	2.0	0.8	18n	300m			0	7	74-190N	DIP16b
43♦	54F168DM	TTL	10	1	UP/DOWN	115M	Yes	2.0	0.8	16n				5	C	74S168	DIP16b
44♦	54F168L1M	TTL	10	1	UP/DOWN	115M		2.0	0.8	16n				5	C	E03-101	LC19
45♦	54F568DM	TTL	10	1	UP/DOWN	115M	Yes	2.0	0.8	11n				5	C	74LS568	DIP20b
46♦	54F568L1M	TTL	10	1	UP/DOWN	115M		2.0	0.8	11n				5	C	E02-235	LC19
47♦	74F168DC	TTL	10	1	UP/DOWN	115M	Yes	2.0	0.8	17n				0	7	74S168	DIP16b
48♦	74F168L1C	TTL	10	1	UP/DOWN	115M		2.0	0.8	17n				0	7	E03-101	LC19
49♦	74F168PC	TTL	10	1	UP/DOWN	115M	Yes	2.0	0.8	17n				0	7	74S168	DIP16a
50♦	74F168QC	TTL	10	1	UP/DOWN	115M		2.0	0.8	17n				0	7	E03-101	LC26
51♦	74F168SC	TTL	10	1	UP/DOWN	115M	Yes	2.0	0.8	17n				0	7	54S168	FP148
52♦	74F568DC	TTL	10	1	UP/DOWN	115M	Yes	2.0	0.8	13n				0	7	74LS568	DIP20b
53♦	74F568L1C	TTL	10	1	UP/DOWN	115M		2.0	0.8	13n				0	7	E02-235	LC19
54♦	74F568PC	TTL	10	1	UP/DOWN	115M	Yes	2.0	0.8	13n				0	7	74LS568	DIP20a
55♦	74F568QC	TTL	10	1	UP/DOWN	115M		2.0	0.8	13n				0	7	E02-235	LC26
56▼	N74F568	TTL	10	1	UP/DOWN	115M	Yes	2.0	0.8	13n				0	7	74LS568	DIP20a
57▼	N74F568D(A)	TTL	10	1	UP/DOWN	115M	Yes	2.0T	0.8	13n				0	7	74LS568	FP169
58▼	N74F568N(A)	TTL	10	1	UP/DOWN	115M	Yes	2.0T	0.8	13n				0	7	74LS568	DIP20a
59♦	54F190DM	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	16n				5	C	74-190	DIP16b
60♦	54F190L1M	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	16n				5	C	E02-212a	LC19
61♦	54F192DM	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	16n				5	C	74-192	DIP16b
62♦	54F192L1M	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	16n				5	C	E02-213a	LC19
63♦	74F190DC	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	14n				0	7	74-190	DIP16b
64♦	74F190L1C	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	14n				0	7	E02-212a	LC19
65♦	74F190PC	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	14n				0	7	74-190	DIP16a
66♦	74F190QC	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	14n				0	7	E02-212a	LC26
67♦	74F190SC	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	14n				0	7	54-190	FP148
68♦	74F192DC	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	15n				0	7	74-192	DIP16b
69♦	74F192L1C	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	15n				0	7	E02-213a	LC19
70♦	74F192PC	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	15n				0	7	74-192	DIP16a
71♦	74F192QC	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	15n				0	7	E02-213a	LC26
72♦	74F192SC	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	15n				0	7	54-192	FP148
73♦	MC54F192J	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	13n	300m		370m†	5	C	74-192N	DIP16a
74▼	MC54F192N	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	13n	300m		370m†	5	C	74-192N	DIP16a
75♦	MC74F192J	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	13n	300m		370m†	0	7	74-192N	DIP16a
76♦	MC74F192N	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	13n	300m		370m†	0	7	74-192	DIP16b
77♦	N74F190D(A)	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	12n				0	7	74-190	FP148
78♦	N74F190N(A)	TTL	10	1	UP/DOWN	125M	Yes	2.0	0.8	12n				0	7	74-190	DIP16a
79♦	10137F	ECL	10	1	UP/DOWN	150M	Yes	-1.1	-1.4	5.0n			624m†	3	8	E03-35	DIP16a
80♦	10137N	ECL	10	1	UP/DOWN	150M	Yes	-1.1	-1.4	5.0n			625m†	3	8	E03-35	DIP16a
81♦	MB10137	ECL	10	1	UP/DOWN	150M		-1.1	-1.4	3.3n			625m†	3	8	E03-35	DIP16b
82♦	MB10137M	ECL	10	1	UP/DOWN	150M		-1.1	-1.4	3.3n			625m†	3	8	E03-35	DIP16b
83♦	MC10137L	ECL	10	1	UP/DOWN	150M		-1.1	-1.4	11n			625m†	3	8	E03-35	DIP16a
84▼	MC10137LD	ECL	10	1	UP/DOWN	150M		-1.1	-1.4	11n			625m†	3	8	E03-35	DIP16a
85▼	MC10137LDS	ECL	10	1	UP/DOWN	150M		-1.1	-1.4	11n			625m†	3	8	E03-35	DIP16a
86♦	MC10137P	ECL	10	1	UP/DOWN	150M		-1.1	-1.4	11n			625m†	3	8	E03-35	DIP16b
87▼	MC10137PD	ECL	10	1	UP/DOWN	150M		-1.1	-1.4	11n			625m†	3	8	E03-35	DIP16b
88▼	MC10137PDS	ECL	10	1	UP/DOWN	150M		-1.1	-1.4	11n			625m†	3	8	E03-35	DIP16b
89♦	F10137DC	ECL	10	1	UP/DOWN	250M		-1.1	-1.4	6.9n	145m*		702mQ	0	7	E03-67	DIP16a
90♦	F10537DM	ECL	10	1	UP/DOWN	250M		-1.1	-1.4	6.9n	145m*		702mQ	5	C	E03-67	DIP16a
91♦	F10537FM	ECL	10	1	UP/DOWN	250M		-1.1	-1.4	6.9n	145m*		702mQ	5	C	E03-67	FP103
92♦	4518BDC	CMS	10	2	UP		No	11	4.0	168n	6.7 †		9.0mQ	4	8	45-18B	DIP16a
93♦	4518BDM	CMS	10	2	UP		No	11	4.0	168n	6.7 †		9.0mQ	5	C	45-18B	DIP16a
94▼	M54HC4518F1	CMS	10	2	UP		No	3.15	1.35					4	8	45-18B	DIP16a
95▼	M74HC4518B1	CMS	10	2	UP		No	3.15	1.35					4	8	45-18B	DIP16a
96▼	M74HC4518C1	CMS	10	2	UP		No	3.15	1.35					4	8	E03-115	DIP16a
97▼	M74HC4518F1	CMS	10	2	UP		No	3.15	1.35					4	8	45-18B	DIP16a
98♦	M74LS490P	TTL	10	2	UP		No	2.0	0.8	54n	0.3		137m	2	7	74-490N	DIP16b
99♦	SCL4518B	CMS	10	2	UP	3.0M	No	3.5Δ	1.0*	225n	3.0		100uQ	5	C	45-18B	DIP16a
100♦	CD4518BCJ	CMS	10	2	UP	4.0M	No	11	4.0	170n	6.7 †		1.2mQ	4	8	45-18B	DIP16a
101♦	CD4518BCN	CMS	10	2	UP	4.0M	No	11	4.0	170n	6.7 †		1.2mQ	4	8	45-18B	DIP16a
102♦	CD4518BMJ	CMS	10	2	UP	4.0M	No	11	4.0	170n	6.7 †		300uQ	5	C	45-18B	DIP16a
103♦	CD4518BMW	CMS	10	2	UP	4.0M	No	11	4.0	170n	6.7 †		300uQ	5	C	45-18B	FP88c
104♦	M4518BP	CMS	10	2	UP	4.0M	No	11	4.0	240n	4.0		0.5	4	8	45-18B	DIP16b
105♦	MSM4518RS	CMS	10	2	UP	4.0M	No	3.6	1.0	800n	0.6		200m	4	8	45-18B	DIP16 ☑
106♦	TC4518BP	CMS	10	2	UP	4.0M	No	14.9	.05C	240n	4.0		300m	4	8	45-18B	DIP16a
107♦	4518BFC	CMS	10	2	UP	6.0M	No	11	4.0	168n	6.7 †		9.0mQ	4	8	45-18B	FP103
108♦	4518BFM	CMS	10	2	UP	6.0M	No	11	4.0	168n	6.7 †		9.0mQ	5	C	45-18B	FP103
109♦	4518BPC	CMS	10	2	UP	6.0M	No	11	4.0	168n	6.7 †		9.0mQ	4	8	45-18B	None
110♦	CD4518BD	CMS	10	2	UP	6.0M	No	7.0	3.0	230n	2.9		500m	5	C	45-18B	MO001AE

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

11. COUNTERS - Decade, BCD Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	CD4518BE	CMS	10	2	UP	6.0M	No	7.0	3.0	230n	2.9		500m	4	8	45-18B	MO001AB
2♦	CD4518BF	CMS	10	2	UP	6.0M	No	7.0	3.0	230n	2.9		500m	5	C	45-18B	MO001AC
3♦	HCC4518BD	CMS	10	2	UP	6.0M	No	10	0	260n	4.5 †		200m	5	C	45-18B	DIP16a
4♦	HCC4518BF	CMS	10	2	UP	6.0M	No	10	0	260n	4.5 †		200m	5	C	45-18B	DIP16a
5♦	HCC4518BK	CMS	10	2	UP	6.0M	No	10	0	260n	4.5 †		200m	5	C	45-18B	FP131
6♦	HCF4518BE	CMS	10	2	UP	6.0M	No	10	0	260n	4.5 †		200m	4	8	45-18B	DIP16a
7♦	HCF4518BF	CMS	10	2	UP	6.0M	No	10	0	260n	4.5 †		200m	4	8	45-18B	DIP16a
8♦	883C4518B	CMS	10	2	UP	8.0M	No	8.2	6.7	160n			300m	5	C	45-18	MO001AG
9♦	BCL4518B	CMS	10	2	UP	8.0M	No	8.2	6.7	160n			300m	5	C	45-18	MO001AG
10♦	MB84518B	CMS	10	2	UP	8.0M	No	10.5	4.5	180n	4.5 *		1.2mQ	4	8	45-18	DIP16a
11♦	MB84518BM	CMS	10	2	UP	8.0M	No	10.5	4.5	180n	4.5 *		1.2mQ	4	8	45-18	DIP16b
12♦	MC14518BAL	CMS	10	2	UP	8.0M	No	11	4.0	170n	2.5 *			5	C	45-18B	DIP16a
13▼	MC14518BALD	CMS	10	2	UP	8.0M	No	11	4.0	170n	2.5 *			5	C	45-18B	DIP16a
14▼	MC14518BALDS	CMS	10	2	UP	8.0M	No	11	4.0	170n	2.5 *			5	C	45-18B	DIP16a
15▼	MC14518BALS	CMS	10	2	UP	8.0M	No	11	4.0	170n	2.5 *			5	C	45-18B	DIP16a
16♦	MC14518BCL	CMS	10	2	UP	8.0M	No	11	4.0	170n	2.5 *			4	8	45-18B	DIP16a
17▼	MC14518BCLD	CMS	10	2	UP	8.0M	No	11	4.0	170n	2.5 *			4	8	45-18B	DIP16a
18▼	MC14518BCLDS	CMS	10	2	UP	8.0M	No	11	4.0	170n	2.5 *			4	8	45-18B	DIP16a
19▼	MC14518BCLS	CMS	10	2	UP	8.0M	No	11	4.0	170n	2.5 *			4	8	45-18B	DIP16a
20♦	MC14518BCP	CMS	10	2	UP	8.0M	No	11	4.0	170n	2.5 *			4	8	45-18B	DIP16a
21▼	MC14518BCPD	CMS	10	2	UP	8.0M	No	11	4.0	170n	2.5 *			4	8	45-18B	DIP16a
22▼	MC14518BCPDS	CMS	10	2	UP	8.0M	No	11	4.0	170n	2.5 *			4	8	45-18B	DIP16a
23▼	MC14518BCPS	CMS	10	2	UP	8.0M	No	11	4.0	170n	2.5 *			4	8	45-18B	DIP16a
24▼	MC14518BDW	CMS	10	2	UP	8.0M	No	11	4.0	170n	2.5 *			4	8	45-18B	DIP16a
25♦	MSM4518	CMS	10	2	UP	8.0M	No	7.2	2.0	400n	2.0 *		1.4mQ	2	7	45-18B	DIP16a
26♦	HEF4518	CMS	10	2	UP	10M	No	11	4.0	105n	6.7 †		400m	4	8	45-18B	DL ☑
27♦	HEF4518BPN	CMS	10	2	UP	10M	No	11.0	4.0	105n	6.7 †		400m	4	8	45-18B	DIP16b
28♦	HEF4518P	CMS	10	2	UP	10M	No	7.0	3.0	35n			1.0mQ	4	8	45-18B	DIP16a
29▼	HD74HC490FP	CMS	10	2	UP	16M	No	3.15	1.35	13n	1.2		500m	4	8	74-490N	FP162
30▼	HD74HC490P	CMS	10	2	UP	16M	No	3.15	1.35	13n	1.2		500m	4	8	74-490N	DIP16a
31♦	CD54HC4518F	CMS	10	2	UP	17M	No	3.15	1.35	83n	1.7		500m	5	C	45-18	MS001a
32♦	CD54HCT4518F	CMS	10	2	UP	17M	No	2.0	0.8	90n	2.4		500m	5	C	45-18	MS001a
33♦	PC74HCT4518P	CMS	10	2	UP	17M	No	2.0	0.8	80n	0.7		500m	4	C	45-18	DIP16b
34♦	PC74HCT4518T	CMS	10	2	UP	17M	No	2.0	0.8	80n	0.7		300m	4	C	45-18	FP148
35♦	74HCT4518D	CMS	10	2	UP	20M		2.0	0.8	66n	1.2			4		45-18	FP162
36♦	74HCT4518N	CMS	10	2	UP	20M		2.0	0.8	66n	1.2			4		45-18	DIP16b
37♦	74LS390DC	TTL	10	2	UP	20M	No	2.0	0.8	35n	300m*			0	7	74-390N	DIP16a
38♦	74LS390PC	TTL	10	2	UP	20M	No	2.0	0.8	35n	300m*			0	7	74-390N	DIP16 ☑
39♦	CD74HC4518E	CMS	10	2	UP	20M	No	3.15	1.35	69n	1.7		500m	4	8	45-18	MS001a
40♦	CD74HC4518M	CMS	10	2	UP	20M	No	3.15	1.35	69n	1.7		300m	4	8	45-18	FP148
41♦	CD74HCT4518E	CMS	10	2	UP	20M	No	2.0	0.8	75n	2.4		500m	4	8	45-18	MS001a
42♦	CD74HCT4518M	CMS	10	2	UP	20M	No	2.0	0.8	75n	2.4		300m	4	8	45-18	FP148
43▼	HD74LS390G	TTL	10	2	UP	20M	No	2.0	0.8	60n			400m	2	7	74-390N	DIP16a
44♦	HD74LS390P	TTL	10	2	UP	20M	No	2.0	0.8				400m	2	7	74-390N	DIP16a
45♦	MM54HC390J	CMS	10	2	UP	20M	No	4.2	1.2	75n	1.7		500m	5	C	54-390W	DIP16a
46♦	PC74HC4518P	CMS	10	2	UP	20M	No	3.15	1.35	72n	0.8		500m	4	C	45-18	DIP16b
47♦	PC74HC4518T	CMS	10	2	UP	20M	No	3.15	1.35	72n	0.8		300m	4	C	45-18	FP148
48▼	HD74HC4518FP	CMS	10	2	UP	21M	No	3.15	1.35	50n	1.2		500m	4	8	45-18B	FP162
49▼	HD74HC4518P	CMS	10	2	UP	21M	No	3.15	1.35	50n	1.2		500m	4	8	45-18B	DIP16a
50♦	HEF4518BTD	CMS	10	2	UP	21M	No	11.0	4.0	105n	6.7 †		200m	4	8	45-18B	FP148
51♦	MN4518B	CMS	10	2	UP	21M	No	11.0	4.0	150n	3.9		400m	4	8	45-18	DIP16a
52▼	HD74LS490G	TTL	10	2	UP	25M	No	2.0	0.8	54n	300m		400m	2	7	74-490	DIP16a
53♦	HD74LS490P	TTL	10	2	UP	25M	No	2.0	0.8	37n	300m		400m	2	7	74-490	DIP16a
54♦	N74LS390D	TTL	10	2	UP	25M	No	2.0	0.8	60n	0.3		130m	0	7	74-390N	DIP16b
55♦	N74LS390N	TTL	10	2	UP	25M	No	2.0	0.8	60n	0.3		130m	0	7	74-390N	DIP16a
56♦	N74LS490F	TTL	10	2	UP	25M	No	2.0	0.8	54n			130m	0	7	74-490N	DIP16b
57▼	SN74HC490D	CMS	10	2	UP	25M	No	3.15	0.9	59n	1.2			4	8	74-490N	FP162
58♦	74HC4518D	CMS	10	2	UP	28M		4.2	2.8	51n	2.4			4		45-18	FP162
59♦	74HC4518N	CMS	10	2	UP	28M		4.2	2.8	51n	2.4			4		45-18	DIP16b
60♦	M74HC390C1(A)	CMS	10	2	UP	29M		3.15	1.35	46n	1.2		500m	4	8	E11-02	LC33
61♦	HEF4518BD	CMS	10	2	UP	30M	No	7.0	3.0	110n	2.9 †		500m	4	8	45-18B	DIP16b
62♦	HEF4518BP	CMS	10	2	UP	30M	No	7.0	3.0	110n	2.9 †		500m	4	8	45-18B	DIP16b
63♦	HEF4518BT	CMS	10	2	UP	30M	No	7.0	3.0	110n	2.9 †		400m	4	8	45-18	FP148
64♦	TC40H390F	CMS	10	2	UP	30M	No	4.0	1.0	63n	.95		180m	4	8	54-390W	FP167
65♦	DM54LS390J	TTL	10	2	UP	35M	No	2.0	0.7		0.3			5	C	E01-113	DIP16a
66♦	DM74LS390N	TTL	10	2	UP	35M	No	2.0	0.8	20n	0.4			5	C	74-390N	DIP16a
67♦	DN74LS390P2	TTL	10	2	UP	35M	No	2.0	0.8	60n	700m		400m	2	7	74-390	DIP16a
68♦	DN74LS390P5	TTL	10	2	UP	35M	No	2.0	0.8	60n	700m		400m	2	7	74-390	FP178
69♦	DN74LS490P2	TTL	10	2	UP	35M	No	2.0	0.8	54n	700m		400m	2	7	74-490	DIP16a
70♦	DN74LS490P5	TTL	10	2	UP	35M	No	2.0	0.8	54n	700m		400m	2	7	74-490	FP178
71♦	N74LS490N	TTL	10	2	UP	35M	No	2.0	0.8	54n	0.3		130m	0	7	74-490N	DIP16a
72♦	S54LS490F	TTL	10	2	UP	35M	No	2.0	0.7	54n	0.3		130m	5	C	74-490N	DIP16b
73♦	S54LS490W	TTL	10	2	UP	35M		2.0	0.7	54n	0.3		130m	5	C	54-490W	FP47g
74♦	SN54LS490J	TTL	10	2	UP	35M	No	2.0	0.7	54n	0.3			5	C	74-490N	DIP16a
75▼	SN54LS490N	TTL	10	2	UP	35M	No	2.0	0.7	54n	0.3			5	C	74-490N	DIP16a
76♦	SN74LS390D	TTL	10	2	UP	35M	No	2.0	0.8	60n	0.4			0	7	74-390	FP148
77♦	SN74LS390J	TTL	10	2	UP	35M	No	2.0	0.8	60n	0.4			0	7	74-390N	DIP16a
78♦	SN74LS390N	TTL	10	2	UP	35M	No	2.0	0.8	60n	0.4			0	7	74-390N	DIP16a
79♦	SN74LS490J	TTL	10	2	UP	35M	No	2.0	0.8	54n	300m			0	7	74-490N	DIP16a
80♦	SN74LS490N	TTL	10	2	UP	35M	No	2.0	0.8	54n	300m			0	7	74-490N	DIP16a
81♦	SN54390J	TTL	10	2	UP	35M	No	2.0	0.8	60n	0.4		210m†	5	C	74-390N	DIP16a
82♦	SN74390N	TTL	10	2	UP	35M	No	2.0	0.8	60n	0.4		210m†	0	7	74-390N	DIP16a
83♦	SN74490N	TTL	10	2	UP	35M	No	2.0	0.8	54n	0.4		225m†	0	7	74-490N	DIP16a
84♦	54LS490DM	TTL	10	2	UP	40M	No	2.0	0.7	45n	400m*		130mQ	5	C	74-490N	DIP16a
85♦	54LS490FM	TTL	10	2	UP	40M		2.0	0.7	45n	400m*		130mQ	5	C	54-490W	FP103
86♦	74LS490PC	TTL	10	2	UP	40M	No	2.0	0.8	45n	300m*		130mQ	0	7	74-490N	None
87♦	CD74HC390M(A)	CMS	10	2	UP	41M	No	3.15	1.35	63n	1.2		400m	4	8	74-390	MS012c
88♦	PC54HC4518D(A)	CMS	10	2	UP	50M	No	3.15	0.9	12n	0.8		500m	5	C	45-18	DIP16b
89♦	PC54HCT4518D(A)	CMS	10	2	UP	50M	No	2.0	0.8	14n	0.7		500m	5	C	45-18	DIP16b
90♦	PC74HC4518D(A)	CMS	10	2	UP	50M	No	3.15	0.9	12n	0.8		500m	4	8	45-18	DIP16b
91♦	PC74HCT4518D(A)	CMS	10	2	UP	50M	No	2.0	0.8	14n	0.7		500m	4	8	45-18	DIP16b
92▼	TC74HC4518F	CMS	10	2	UP	53M	No	3.15	1.35	48n	1.2		180m	4	8	45-18B	FP167
93▼	TC74HC4518P(A)	CMS	10	2	UP	53M	No	3.15	1.35	48n	1.2		500m	4	8	45-18B	DIP16a
94♦	SN74LS68D	TTL	10	2	UP	70M		2.0	0.8	40n	0.8			0	7	74LS68	FP148
95♦	SN74LS68N	TTL	10	2	UP	70M		2.0	0.8	40n	0.8			0	7	74LS68	DIP16a
96♦	M74LS390P	TTL	10	2	UP	80M	No	2.0	0.8	35n	0.4		75m†	2	7	74-390N	DIP16b
97♦	M74LS668P	TTL	10	2	UP/DOWN		Yes	2.0	0.8	60n	0.3		178m	2	7	74S168N	DIP16b
98♦	SN74LS668N	TTL	10	2	UP/DOWN	32M	Yes	2.0	0.8	60n	0.4		170mQ	0	7	74S168N	DIP16a
99♦	HEF4737BPN	CMS	10	4	UP			11.0	4.0		6.7 †		400m	4	8	47-37B	DIP18b
100♦	54176DM	TTL	12	1	UP	35M	Yes	2.0	0.8	75n			240m	5	C	74-176N	DIP14a
101♦	54176FM	TTL	12	1	UP	35M	Yes	2.0	0.8	75n			240m	5	C	54-176W	FP52
102♦	74176DC	TTL	12	1	UP	35M	Yes	2.0	0.8	75n			240m	0	7	74-176N	DIP14a
103♦	74176PC	TTL	12	1	UP	35M	Yes	2.0	0.8	75n			240m	0	7	74-176N	DIP14a
104♦	DM54176J	TTL	12	1	UP	45M	Yes	2.8	0.4C	45n			130m†	5	C	74-176N	DIP14a
105♦	DM74176J	TTL	12	1	UP	45M	Yes	2.8	0.4C	45n			130m†	0	7	74-176N	DIP14a
106♦	DM74176N	TTL	12	1	UP	45M	Yes	2.8	0.4C	45n			130m†	0	7	74-176N	DIP14a
107♦	DM74176W	TTL	12	1	UP	45M	Yes	2.8	0.4C	45n			130m†	0	7	54-176W	FP97a
108♦	SN54176J	TTL	12	1	UP	50M	Yes	2.0	0.8	51n	0.3		150m†	5	C	74-176N	DIP14a
109♦	SN74176N	TTL	12	1	UP	50M	Yes	2.0	0.8	51n	0.3		150m†	0	7	74-176N	DIP14a
110♦	54HCT390C(A)	CMS	12	2	UP		No							5	C	74-390N	DIP16a

11. COUNTERS - Decade, BCD Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG (3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	54HCT390D(A)	CMS	12	2	UP		No							5	C	74-390N	DIP16c
2♦	74HCT390C(A)	CMS	12	2	UP		No							4	8	74-390N	DIP16a
3♦	74HCT390P(A)	CMS	12	2	UP		No							4	8	74-390N	DIP16a
4♦	PC74HCT390P	CMS	12	2	UP	18M	No	2.0	0.8	77n	0.7		500m	4	C	74-390	DIP16b
5♦	54LS390DM	TTL	12	2	UP	20M	No	2.0	0.7	35n	400m*			5	C	74-390N	DIP16a
6♦	54LS390FM	TTL	12	2	UP	20M	No	2.0	0.7	35n	400m*			5	C	54-390W	FP103
7♦	74SC390C(A)	CMS	12	2	UP	20M	No							4	8	74-390N	DIP16a
8♦	74SC390D(A)	CMS	12	2	UP	20M	No							4	8	74-390N	DIP16c
9♦	74SC390P(A)	CMS	12	2	UP	20M	No							4	8	74-390N	DIP16a
10♦	PC74HCT390T	CMS	12	2	UP	20M	No	2.0	1.35	63n	0.7		300m	4	C	74-390	FP148
11♦	S54LS390F	TTL	12	2	UP	20M	No	2.0	0.7	60n			130m	5	C	74-390N	DIP16b
12♦	S54LS390W	TTL	12	2	UP	20M	No	2.0	0.7	60n			130m	5	C	54-390W	FP47g
13▼	HD74HC390FP	CMS	12	2	UP	21M	No	3.15	1.35	11n	1.2		500m	4	8	74-390N	FP162
14▼	HD74HC390P	CMS	12	2	UP	21M	No	3.15	1.35	11n	1.2		500m	4	8	74-390N	DIP16a
15♦	74HCT390D(A)	CMS	12	2	UP	22M	No	2.0	0.8	64n	0.7			4	8	74-390N	FP162
16♦	74HCT390N	CMS	12	2	UP	22M	No	2.0	0.8	64n	0.7			4		74-390	DIP16b
17♦	MM74HC390J	CMS	12	2	UP	24M	No	4.2	1.2	62n	1.7		500m	4	8	74-390N	DIP16a
18♦	MM74HC390N	CMS	12	2	UP	24M	No	4.2	1.2	62n	1.7		500m	4	8	74-390N	DIP16a
19♦	74HC390D	CMS	12	2	UP	28M	No	3.15	1.35	45n	1.2			4		74-390	FP162
20♦	74HC390N	CMS	12	2	UP	28M	No	3.15	1.35	45n	1.2			4		74-390	DIP16b
21♦	M74HC390B1(A)	CMS	12	2	UP	29M	No	3.15	1.35	46n	1.2		500m	4	8	74-390	DIP16a
22♦	M74HC390F1(A)	CMS	12	2	UP	29M	No	3.15	1.35	46n	1.2		500m	4	8	74-390	DIP16b
23♦	MC54HC390J(A)	CMS	12	2	UP	30M	No	3.2	2.4	20n			500m	5	C	74-390N	DIP16a
24♦	MC74HC390J(A)	CMS	12	2	UP	30M	No	3.2	2.4	20n			500m	4	8	74-390N	DIP16a
25♦	MC74HC390N(A)	CMS	12	2	UP	30M	No	3.2	2.4	20n			500m	4	8	74-390N	DIP16b
26♦	DM54LS390W	TTL	12	2	UP	35M	No	2.0	0.8	20n	0.4			5	C	74-390	FP98b
27♦	SN54LS390J	TTL	12	2	UP	35M	No	2.0	0.7	60n	0.3			5	C	74-390N	DIP16a
28▼	SN54LS390N	TTL	12	2	UP	35M	No	2.0	0.7	60n	0.3			5	C	74-390N	DIP16a
29♦	CD74HC390E	CMS	12	2	UP	41M	No	3.85	1.10	63n	1.2		500m	4	8	74-390N	MS001a
30♦	CD74HCT390E	CMS	12	2	UP	45M	No	2.00	0.80	63n	0.7		500m	4	8	74-390N	MS001a
31♦	CD74HCT390M(A)	CMS	12	2	UP	45M	No	2.0	0.8	63n	0.7		400m	4	8	74-390	MS012c
32♦	CD54HC390F	CMS	12	2	UP	50M	No	3.15	1.35	52n	1.2		500m	5	C	74-390N	MO001AC
33♦	CD54HCT390F	CMS	12	2	UP	50M	No	2.00	0.80	52n	0.7		500m	5	C	74-390N	MO001AG
34♦	PC54HC390D(A)	CMS	12	2	UP	50M	No	3.15	0.9	24n	0.8		500m	5	C	74-390	DIP16b
35♦	PC54HCT390D(A)	CMS	12	2	UP	50M	No	2.0	0.8	26n	0.7		500m	5	C	74-390	DIP16b
36♦	PC74HC390D(A)	CMS	12	2	UP	50M	No	3.15	0.9	24n	0.8		500m	4	8	74-390	DIP16b
37♦	PC74HC390P	CMS	12	2	UP	50M	No	3.15	0.9	24n	0.8		500m	4	8	74-390	DIP16b
38♦	PC74HC390T	CMS	12	2	UP	50M	No	3.15	0.9	24n	0.8		300m	4	8	74-390	FP148
39♦	PC74HCT390D(A)	CMS	12	2	UP	50M	No	2.0	0.8	26n	0.7		500m	4	8	74-390	DIP16b
40♦	UPD74HC390C(A)	CMS	12	2	UP	60M	No	4.2	1.2	55n			500m	4	8	74-390	DIP16a
41♦	M54HC390F1(A)	CMS	12	2	UP	62M	No	3.15	1.35	38n	1.2		500m	5	C	74-390	DIP16b
42▼	TC74HC390F(A)	CMS	13	2	UP	63M	No	3.15	1.35	46n	1.2		180m	4	8	74-390N	FP167
43▼	TC74HC390P(A)	CMS	13	2	UP	63M	No	3.15	1.35	46n	1.2		500m	4	8	74-390N	DIP16a
44♦	MC54F190J	TTL	16	1	UP/DOWN	110M	Yes	2.0	0.8	18n	300m			5	C	74-190N	DIP16a
45▼	MC54F190N	TTL	16	1	UP/DOWN	110M	Yes	2.0	0.8	18n	300m			5	C	74-190N	DIP16a
46♦	57149328L	TTL	100	1	UP			2.0T	0.8					5	C	E05-40	LC44
47♦	571493JS	TTL	100	1	UP	10M	Yes	2.0T	0.8	35n	0.4			5	C	E05-40	DIP24
48♦	571493W	TTL	100	1	UP	10M		2.0T	0.8	35n	0.4			5	C	E05-40	DIP24e
49♦	671493JS	TTL	100	1	UP	12M	Yes	2.0	0.8		0.4			0	7	E05-40	DIP24
50♦	671493NS	TTL	100	1	UP	12M	Yes	2.0T	0.8		0.4			0	7	E05-40	DIP24e
51♦	PC74HCT40102P	CMS	100	1	DOWN	9.0M	Yes	2.0	0.8	105n	0.7		500m	4	C	40-102	DIP16b
52♦	PC74HCT40102T	CMS	100	1	DOWN	9.0M	Yes	2.0	0.8	105n	0.7		300m	4	C	40-102	FP148
53♦	PC74HC40102P	CMS	100	1	DOWN	10M	Yes	3.15	1.35	90n	0.8		500m	4	C	40-102	DIP16b
54♦	PC74HC40102T	CMS	100	1	DOWN	10M	Yes	3.15	1.35	90n	0.8		300m	4	C	40-102	FP148
55♦	74HCT40102D	CMS	100	1	DOWN	11M		2.0	0.8	87n	0.7			4		40-102	FP162
56♦	74HCT40102N	CMS	100	1	DOWN	11M		2.0	0.8	87n	0.7			4		40-102	DIP16b
57♦	CD74HCT40102E	CMS	100	1	DOWN	11M	Yes	2.0	0.8	88n	2.4		500m	4	8	40-102	MS001a
58♦	CD74HCT40102M	CMS	100	1	DOWN	11M	Yes	2.0	0.8	88n	2.4		300m	4	8	40-102	FP148
59♦	CD74HC40102E	CMS	100	1	DOWN	12M	Yes	3.15	1.35	88n	1.7		500m	4	8	40-102	MS001a
60♦	CD74HC40102M	CMS	100	1	DOWN	12M	Yes	3.15	1.35	88n	1.7		300m	4	8	40-102	FP148
61♦	74HC40102D	CMS	100	1	DOWN	14M		3.15	1.35	64n	1.2			4		40-102	FP162
62♦	74HC40102N	CMS	100	1	DOWN	14M		3.15	1.35	64n	1.2			4		40-102	DIP16b
63♦	PC74HCT40102D(A)	CMS	100	1	DOWN	15M	Yes	2.0	0.8	26n	0.7		500m	4	8	40-102	DIP16b
64♦	PC74HC40102D(A)	CMS	100	1	DOWN	16M	Yes	3.15	0.9	25n	0.8		500m	4	8	40-102	DIP16b
65▼	TC74HC40102P(A)	CMS	100	1	DOWN	36M	Yes	3.15	1.35	61n	0.8		500m	4	8	40-102	DIP16b
66♦	MC14553BAL	CMS	1.0k	1	UP	7.0M	No	11	4.0	600n	2.5 *			5	C	45-53B	DIP16a
67▼	MC14553BALD	CMS	1.0k	1	UP	7.0M	No	11	4.0	600n	2.5 *			5	C	45-53B	DIP16a
68▼	MC14553BALDS	CMS	1.0k	1	UP	7.0M	No	11	4.0	600n	2.5 *			5	C	45-53B	DIP16a
69▼	MC14553BALS	CMS	1.0k	1	UP	7.0M	No	11	4.0	600n	2.5 *			5	C	45-53B	DIP16a
70♦	MC14553BCL	CMS	1.0k	1	UP	7.0M	No	11	4.0	600n	2.5 *			4	8	45-53B	DIP16a
71▼	MC14553BCLD	CMS	1.0k	1	UP	7.0M	No	11	4.0	600n	2.5 *			4	8	45-53B	DIP16a
72▼	MC14553BCLDS	CMS	1.0k	1	UP	7.0M	No	11	4.0	600n	2.5 *			4	8	45-53B	DIP16a
73▼	MC14553BCLS	CMS	1.0k	1	UP	7.0M	No	11	4.0	600n	2.5 *			4	8	45-53B	DIP16a
74♦	MC14553BCP	CMS	1.0k	1	UP	7.0M	No	11	4.0	600n	2.5 *			4	8	45-53B	DIP16a
75▼	MC14553BCPD	CMS	1.0k	1	UP	7.0M	No	11	4.0	600n	2.5 *			4	8	45-53B	DIP16a
76▼	MC14553BCPDS	CMS	1.0k	1	UP	7.0M	No	11	4.0	600n	2.5 *			4	8	45-53B	DIP16a
77▼	MC14553BCPS	CMS	1.0k	1	UP	7.0M	No	11	4.0	600n	2.5 *			4	8	45-53B	DIP16a
78▼	MC14553BDW	CMS	1.0k	1	UP	7.0M	No	11	4.0	600n	2.5 *			4	8	45-53B	DIP16a
79♦	HEF4534BD	CMS	10k	1	UP/DOWN	12M	No	7.0	3.0	260n	2.9 †		500m	4	8	45-34B	DIP24b
80♦	HEF4534BP	CMS	10k	1	UP/DOWN	12M	No	7.0	3.0	260n	2.9 †		500m	4	8	45-34B	DIP24b
81♦	HEF4534BT	CMS	10k	1	UP/DOWN	12M	No	7.0	3.0	260n	2.9 †		400m	4	8	45-34B	FP170
82▼	HEF4737BD	CMS	20k	1	UP	16M		7.0	3.0	240n	2.9 †		500m	4	8	47-37B	DIP18b
83♦	HEF4737BP	CMS	20k	1	UP	16M		7.0	3.0	240n	2.9 †		500m	4	8	47-37B	DIP18b
84▼	HEF4737VD	CMS	20k	1	UP	16M		7.0	3.0	240n	2.9 †		500m	4	8	47-37B	DIP18b
85▼	HEF4737VP	CMS	20k	1	UP	16M		7.0	3.0	240n	2.9 †		500m	4	8	47-37B	DIP18b
86♦	MSM5502RS	CMS	100k	1	UP	2.0M		3.6	0.8	2.0u	0.6			3	8	E03-87	DIP16a
87♦	MC14534BAL	CMS	100k	1	UP/DOWN	5.0M	No	12	4.5	2.3u	2.5 *			5	C	45-34B	DIP24a
88▼	MC14534BALD	CMS	100k	1	UP/DOWN	5.0M	No	12	4.5	2.3u	2.5 *			5	C	45-34B	DIP24a
89▼	MC14534BALDS	CMS	100k	1	UP/DOWN	5.0M	No	12	4.5	2.3u	2.5 *			5	C	45-34B	DIP24a
90▼	MC14534BALS	CMS	100k	1	UP/DOWN	5.0M	No	12	4.5	2.3u	2.5 *			5	C	45-34B	DIP24a
91♦	MC14534BCL	CMS	100k	1	UP/DOWN	5.0M	No	12	4.5	2.3u	2.5 *			4	8	45-34B	DIP24a
92▼	MC14534BCLD	CMS	100k	1	UP/DOWN	5.0M	No	12	4.5	2.3u	2.5 *			4	8	45-34B	DIP24a
93▼	MC14534BCLDS	CMS	100k	1	UP/DOWN	5.0M	No	12	4.5	2.3u	2.5 *			4	8	45-34B	DIP24a
94▼	MC14534BCLS	CMS	100k	1	UP/DOWN	5.0M	No	12	4.5	2.3u	2.5 *			4	8	45-34B	DIP24a
95♦	MC14534BCP	CMS	100k	1	UP/DOWN	5.0M	No	12	4.5	2.3u	2.5 *			4	8	45-34B	DIP24a
96▼	MC14534BCPD	CMS	100k	1	UP/DOWN	5.0M	No	12	4.5	2.3u	2.5 *			4	8	45-34B	DIP24a
97▼	MC14534BCPDS	CMS	100k	1	UP/DOWN	5.0M	No	12	4.5	2.3u	2.5 *			4	8	45-34B	DIP24a
98▼	MC14534BCPS	CMS	100k	1	UP/DOWN	5.0M	No	12	4.5	2.3u	2.5 *			4	8	45-34B	DIP24a
99♦	HEF4534	CMS	100k	1	UP/DOWN	10M	No	11	4.0	600n	6.7 †		400m	4	8	45-34B	DL ☑
100♦	LS7031	PCH	1.0M	1	UP	5.0M		14	11	10n	3.8 *		825m	2	7	E03-82	DIP40a

COUNTER, DECADE 1-OF-10-OUTPUT

104♦	K176IE8	MOS	10	1	UP	2.0M	No	8.2	0.3			9.0		1	7	40-17	None
105♦	MSM4017RS	CMS	10	1	UP	2.0M	No	3.6	1.0	1.0u	0.6	16	200m	4	8	40-17B	DIP16 ☑
106♦	MM4617AD	CMS	10	1	UP	2.5M	No	4.99	.01C	500n	450m	5.0	500m	5	C	40-17B	DIP16b
107♦	MM4617AF	CMS	10	1	UP	2.5M	No	4.99	.01C	500n	450m	5.0	500m	5	C	40-17B	FP98
108♦	MM5617AN	CMS	10	1	UP	2.5M	No	4.99	.01C	500n	450m	5.0	500m	4	8	40-17B	DIP16a
109♦	M4017BP	CMS	10	1	UP	3.5M	No	11.0	4.0	350n	4.0	15	0.5	4	8	40-17B	DIP16b
110♦	TC4017BP	CMS	10	1	UP	3.5M	No	14.9	.05C	350n	4.0	15	300m	4	8	40-17B	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. COUNTERS - Decade, 1-of-10 Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG (3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	CD4017AD	CMS	10	1	UP	5.0M	No	9.95	0.05C	400n	4.5 †	15	500m	5	C	40-17B	MO001AE
2♦	CD4017AE	CMS	10	1	UP	5.0M	No	9.95	0.05C	500n	4.5 †	15	500m	4	8	40-17B	MO001AC
3♦	CD4017AF	CMS	10	1	UP	5.0M	No	9.95	0.05C	400n	4.5 †	15	500m	5	C	40-17B	MO001AC
4♦	CD4017BD	CMS	10	1	UP	5.0M	No	7.0	3.0	270n	2.9	20	500m	5	C	40-17B	MO001AE
5♦	CD4017BE	CMS	10	1	UP	5.0M	No	7.0	3.0	270n	2.9	20	500m	4	8	40-17B	MO001AC
6♦	CD4017BF	CMS	10	1	UP	5.0M	No	7.0	3.0	270n	2.9	20	500m	5	C	40-17B	MO001AC
7♦	CM4017AD	CMS	10	1	UP	5.0M	No	10	0C	400n	4.5 †	10	200m	5	C	40-17B	DIP16a
8♦	CM4017AE	CMS	10	1	UP	5.0M	No	10	0C	500n	4.5 †	10	200m	4	8	40-17B	DIP16a
9♦	HBC4017AD	CMS	10	1	UP	5.0M	No	10	0C	400n	4.5 †	10	100uQ	5	C	40-17B	MO001AE
10♦	HBC4017AF	CMS	10	1	UP	5.0M	No	10	0C	400n	4.5 †	10	100uQ	5	C	40-17B	MO001AE
11♦	HBC4017AK	CMS	10	1	UP	5.0M	No	10	0C	400n	4.5 †	10	100uQ	5	C	40-17B	MO004AG
12♦	HBF4017AE	CMS	10	1	UP	5.0M	No	10	0C	500n	4.5 †	10	1.0mQ	4	8	40-17B	MO001AC
13♦	HBF4017AF	CMS	10	1	UP	5.0M	No	10	0C	500n	4.5 †	10	1.0mQ	4	8	40-17B	MO001AE
14♦	MSM4017	CMS	10	1	UP	5.0M	No	7.2	2.0	500n	2.0 *	10	1.4mQ	2	7	40-17B	DIP16a
15♦	SFF24017AEV	CMS	10	1	UP	5.0M	No	9.99	.01C	500n	3.0 *	10	200m	4	8	40-17B	DIP16a
16♦	SFF24017AKM	CMS	10	1	UP	5.0M	No	9.99	.01C	400n	3.0 *	10	200m	5	C	40-17B	DIP16a
17♦	CD4017BCJ	CMS	10	1	UP	6.0M	No	11	4.0	320n	6.7 †	15	1.2mQ	4	8	40-17B	DIP16a
18♦	CD4017BCN	CMS	10	1	UP	6.0M	No	11	4.0	320n	6.7 †	15	1.2mQ	4	8	40-17B	DIP16a
19♦	CD4017BMJ	CMS	10	1	UP	6.0M	No	11	4.0	320n	6.7 †	15	300uQ	5	C	40-17B	DIP16a
20♦	CD4017BMW	CMS	10	1	UP	6.0M	No	11	4.0	320n	6.7 †	15	300uQ	5	C	40-17B	FP88c
21♦	4017BDC	CMS	10	1	UP	8.0M	No	11	4.0	228n	6.7 †	15	9.0mQ	4	8	40-17B	DIP16a
22♦	4017BDM	CMS	10	1	UP	8.0M	No	11	4.0	228n	6.7 †	15	9.0mQ	5	C	40-17B	DIP16a
23♦	4017BFC	CMS	10	1	UP	8.0M	No	11	4.0	228n	6.7 †	15	9.0mQ	4	8	40-17B	FP103
24♦	4017BFM	CMS	10	1	UP	8.0M	No	11	4.0	228n	6.7 †	15	9.0mQ	5	C	40-17B	FP103
25♦	4017BPC	CMS	10	1	UP	8.0M	No	11	4.0	228n	6.7 †	15	9.0mQ	4	8	40-17B	None
26♦	MB84017B	CMS	10	1	UP	8.0M	No	10.5	4.5	240n	4.5 *	15	1.2mQ	4	8	40-17B	DIP16a
27♦	MB84017BM	CMS	10	1	UP	8.0M	No	10.5	4.5	240n	4.5 *	15	1.2mQ	4	8	40-17B	DIP16b
28♦	HEF4017	CMS	10	1	UP	12M	No	11	4.0	125n	6.7 †	15	400m	4	8	40-17B	DL ☑
29♦	HEF4017BPN	CMS	10	1	UP	12M	No	11.0	4.0	125n	6.7 †	15	400m	4	8	40-17B	DIP16b
30♦	HEF4017P	CMS	10	1	UP	13M	No	7.0	3.0	31n		10	14mQ	4	8	40-17B	DIP16a
31♦	CD54HCT4017F	CMS	10	1	UP	15M	No	2.00	0.80	75n	2.4	5.0	500m	5	C	40-17B	MS001a
32♦	MM54HC4017J	CMS	10	1	UP	15M	No	4.2	1.2	65n	1.7	5.0	500m	5	C	40-17B	DIP16a
33♦	883C4017B	CMS	10	1	UP	16M	No	8.2	6.7	300n		15	300m	5	C	40-17	MO001AG
34♦	BCL4017B	CMS	10	1	UP	16M	No	8.2	6.7	300n		15	300m	5	C	40-17B	MO001AG
35♦	HCC4017BD	CMS	10	1	UP	16M	No	11	4.0	250n		15	500m	5	C	40-17B	DIP16a
36♦	HCC4017BF	CMS	10	1	UP	16M	No	11	4.0	250n		15	500m	5	C	40-17B	DIP16a
37♦	HCC4017BK	CMS	10	1	UP	16M	No	11	4.0	250n		15	500m	5	C	40-17B	FP131
38♦	HCF4017BE	CMS	10	1	UP	16M	No	11	4.0	250n		15	500m	4	8	40-17B	DIP16a
39♦	HCF4017BF	CMS	10	1	UP	16M	No	11	4.0	250n		15	500m	4	8	40-17B	DIP16a
40♦	SCL4017B	CMS	10	1	UP	16M	No	7.0	3.0	350n		18	300m	5	C	40-17B	DL ☑
41♦	CD54HC4017F	CMS	10	1	UP	17M	No	3.15	1.35	69n	1.7	5.0	500m	5	C	40-17B	MS001a
42♦	CD74HCT4017E	CMS	10	1	UP	18M	No	2.00	0.80	63n	2.4	5.0	500m	4	8	40-17B	MS001a
43♦	CD74HCT4017M	CMS	10	1	UP	18M	No	2.0	0.8	63n	2.4	5.0	300m	4	8	40-17	FP148
44♦	M74ALS560AP	TTL	10	1	UP	18M		2.0T	0.8	56n	0.4	5.0	198m	2	7	74ALS560	DIP20a
45♦	MM74HC4017J	CMS	10	1	UP	18M	No	4.2	1.2	54n	1.7	5.0	500m	4	8	40-17B	DIP16a
46♦	MM74HC4017N	CMS	10	1	UP	18M	No	4.2	1.2	54n	1.7	5.0	500m	4	8	40-17B	DIP16a
47♦	CD74HC4017E	CMS	10	1	UP	20M	No	3.15	1.35	58n	1.7	5.0	500m	4	8	40-17B	MS001a
48♦	CD74HC4017M	CMS	10	1	UP	20M	No	3.15	1.35	58n	1.7	5.0	300m	4	8	40-17	FP148
49♦	M74HC4017B1(A)	CMS	10	1	UP	20M	No	3.15	1.35	47n	1.2	5.0	500m	4	8	40-17	DIP16a
50♦	M74HC4017C1(A)	CMS	10	1	UP	20M		3.15	1.35	47n	1.2	5.0	500m	4	8	E11-04	LC33
51♦	M74HC4017F1(A)	CMS	10	1	UP	20M	No	3.15	1.35	47n	1.2	5.0	500m	4	8	40-17	DIP16b
52♦	PC74HC4017P(A)	CMS	10	1	UP	20M	No	3.15	1.35	75n	0.8	5.0	500m	4	C	40-17	DIP16b
53♦	PC74HC4017T(A)	CMS	10	1	UP	20M	No	3.15	1.35	75n	0.8	5.0	300m	4	C	40-17	FP148
54♦	PC74HCT4017P(A)	CMS	10	1	UP	20M	No	2.0	0.8	75n	0.7	5.0	500m	4	C	40-17	DIP16b
55♦	PC74HCT4017T(A)	CMS	10	1	UP	20M	No	2.0	0.8	75n	0.7	5.0	300m	4	C	40-17	FP148
56▼	SN74ALS560ADW	TTL	10	1	UP	20M	Yes	2.0	0.8	30n	0.4	5.0		0	7	74ALS560	FP169
57♦	SN74ALS560AN	TTL	10	1	UP	20M	Yes	2.0	0.8	30n	0.4	5.0		0	7	74ALS560	DIP20a
58♦	74HCT4017D	CMS	10	1	UP	24M		2.0	0.8		1.2	5.0		4		40-17	FP162
59♦	74HCT4017N	CMS	10	1	UP	24M		2.0	0.8		1.2	5.0		4		40-17	DIP16b
60♦	HEF4017BD	CMS	10	1	UP	24M	No	7.0	3.0	110n		10	500m	4	8	40-17B	DIP16b
61♦	HEF4017BP	CMS	10	1	UP	24M	No	7.0	3.0	110n		10	500m	4	8	40-17B	DIP16b
62♦	HEF4017BT	CMS	10	1	UP	24M	No	7.0	3.0	110n		10	400m	4	8	40-17B	FP148
63♦	HEF4017BTD	CMS	10	1	UP	24M	No	11.0	4.0	125n	6.7 †	15	200m	4	8	40-17B	FP148
64♦	MN4017B	CMS	10	1	UP	24M	No	11.0	4.0	180n	3.9	15	400m	4	8	40-17B	DIP16a
65▼	HD74HC4017FP	CMS	10	1	UP	27M	No	3.15	1.35	58n	1.2	5.0	500m	4	8	40-17B	FP162
66▼	HD74HC4017P	CMS	10	1	UP	27M	No	3.15	1.35	58n	1.2	5.0	500m	4	8	40-17B	DIP16a
67♦	74HC4017D	CMS	10	1	UP	28M		4.2	1.8		2.4	5.0		4		40-17	FP162
68♦	74HC4017N	CMS	10	1	UP	28M		4.2	1.8		2.4	5.0		4		40-17	DIP16b
69♦	MC54HC4017J(A)	CMS	10	1	UP	30M	No	3.2	2.4	40n		6.0	500m	5	C	40-17B	DIP16a
70♦	MC74HC4017J(A)	CMS	10	1	UP	30M	No	3.2	2.4	40n		6.0	500m	4	8	40-17B	DIP16a
71♦	MC74HC4017N(A)	CMS	10	1	UP	30M	No	3.2	2.4	40n		6.0	500m	4	8	40-17B	DIP16b
72♦	SN74HC4017N(A)	CMS	10	1	UP	31M	No	3.15	0.90		1.2	5.0		4	8	40-17B	DIP16a
73♦	9319FM	TTL	10	1	UP	35M		2.0	0.8	50n		5.0	300m	5	C	None	FP93c
74♦	9319PC	TTL	10	1	UP	35M		2.0	0.8	50n		5.0	300m	0	7	E06-28	None
75♦	9320FM	TTL	10	1	UP	35M		2.0	0.8	50n		5.0	300m	5	C	E06-28	FP93c
76♦	M54HC4017F1(A)	CMS	10	1	UP	41M	No	3.15	1.35	39n	1.2	5.0	500m	5	C	40-17	DIP16b
77▼	TC74HC4017F(A)	CMS	10	1	UP	45M	No	3.15	1.35	49n	1.2	5.0	180m	4	8	40-17B	FP167
78▼	TC74HC4017P(A)	CMS	10	1	UP	45M	No	3.15	1.35	49n	1.2	5.0	500m	4	8	40-17B	DIP16a
79♦	PC54HCT4017D(A)	CMS	10	1	UP	50M	No	2.0	0.8	16n	0.7	5.0	500m	5	C	40-17	DIP16b
80♦	PC74HCT4017D(A)	CMS	10	1	UP	50M	No	2.0	0.8	16n	0.7	5.0	500m	4	8	40-17	DIP16b
81♦	PC54HC4017D(A)	CMS	10	1	UP	60M	No	3.15	0.9	14n	0.8	5.0	500m	5	C	40-17	DIP16b
82♦	PC74HC4017D(A)	CMS	10	1	UP	60M	No	3.15	0.9	14n	0.8	5.0	500m	4	8	40-17	DIP16b

COUNTER, DECADE 7-SEGMENT-OUTPUT

86▼	MIC50398N	PCH		1	UP/DOWN	1.0M	Yes	9.0	2.0	1.5u		10	670m	0	7	E04-03	DIP28a
87▼	MIC50399N	PCH		1	UP/DOWN	1.0M	Yes	9.0	2.0	3.0u		10	670m	0	7	E03-114	DIP28a
88▼	MSM5521RS	CMS	10	1	UP	2.0M		3.6	0.8	2.0u	0.6	5.0		3	8	E03-90	DIP16a
89▼	MSM5522RS	CMS	10	1	UP	2.0M		3.6	0.8	2.0u	0.6	5.0		3	8	E03-90a	DIP16a
90♦	SCL4026AB	CMS	10	1	UP	2.5M	No	3.5△	1.0*	500n		15		5	C	40-26B	DIP16 ☑
91♦	SCL4033AB	CMS	10	1	UP	2.5M	No	3.5△	1.0*	500n		15		5	C	40-33B	DIP16 ☑
92♦	CD4026AD	CMS	10	1	UP	5.0M	No	9.95	0.05C	500n		15	500m	5	C	40-26B	MO001AE
93♦	CD4026AE	CMS	10	1	UP	5.0M	No	9.95	0.05C	700n		15	500m	4	8	40-26B	MO001AC
94♦	CD4026AF	CMS	10	1	UP	5.0M	No	9.95	0.05C	500n		15	500m	5	C	40-26B	MO001AC
95♦	CD4033AD	CMS	10	1	UP	5.0M	No	9.95	0.05C	500n		15	500m	5	C	40-33B	MO001AE
96♦	CD4033AE	CMS	10	1	UP	5.0M	No	9.95	0.05C	700n		15	500m	4	8	40-33B	MO001AC
97♦	CD4033AF	CMS	10	1	UP	5.0M	No	9.95	0.05C	500n		15	500m	5	C	40-33B	MO001AC
98♦	CM4026AD	CMS	10	1	UP	5.0M	No	10	0C	500n	4.5 †	10	200m	5	C	40-26B	DIP16a
99♦	CM4026AE	CMS	10	1	UP	5.0M	No	10	0C	700n	4.5 †	10	200m	4	8	40-26B	DIP16a
100♦	CM4033AD	CMS	10	1	UP	5.0M	No	10	0C	500n	4.5 †	10	200m	5	C	40-33B	DIP16a
101♦	CM4033AE	CMS	10	1	UP	5.0M	No	10	0C	700n	4.5 †	10	200m	4	8	40-33B	DIP16a
102♦	HBC4026AD	CMS	10	1	UP	5.0M	No	10	0C	500n	4.5 †	10	100uQ	5	C	40-26B	MO001AE
103♦	HBC4026AF	CMS	10	1	UP	5.0M	No	10	0C	500n	4.5 †	10	100uQ	5	C	40-26B	MO001AE
104♦	HBC4026AK	CMS	10	1	UP	5.0M	No	10	0C	500n	4.5 †	10	100uQ	5	C	40-26B	MO004AG
105♦	HBC4033AD	CMS	10	1	UP	5.0M	No	10	0C	500n	4.5 †	10	100uQ	5	C	40-33B	MO001AE
106♦	HBC4033AF	CMS	10	1	UP	5.0M	No	10	0C	500n	4.5 †	10	100uQ	5	C	40-33B	MO001AE
107♦	HBC4033AK	CMS	10	1	UP	5.0M	No	10	0C	500n	4.5 †	10	100uQ	5	C	40-33B	MO004AG
108♦	HBF4026AE	CMS	10	1	UP	5.0M	No	10	0C	700n	4.5 †	10	1.0mQ	4	8	40-26B	MO001AC
109♦	HBF4026AF	CMS	10	1	UP	5.0M	No	10	0C	700n	4.5 †	10	1.0mQ	4	8	40-26B	MO001AE
110♦	HBF4033AE	CMS	10	1	UP	5.0M	No	10	0C	700n	4.5 †	10	1.0mQ	4	8	40-33B	MO001AC

11. COUNTERS - Decade, Seven Segment Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	HBF4033AF	CMS	10	1	UP	5.0M	No	10	0C	700n	4.5 †	10	1.0mQ	4	8	40-33B	MO001AE
2♦	CD4026BD	CMS	10	1	UP	5.5M	No	7.0	3.0	200n	2.9	20	500m	5	C	40-26B	MO001AE
3♦	CD4026BE	CMS	10	1	UP	5.5M	No	7.0	3.0	200n	2.9	20	500m	4	8	40-26B	MO001AC
4♦	CD4026BF	CMS	10	1	UP	5.5M	No	7.0	3.0	200n	2.9	20	500m	5	C	40-26B	MO001AC
5♦	CD4033BD	CMS	10	1	UP	5.5M	No	7.0	3.0	200n	2.9	20	500m	5	C	40-33B	MO001AE
6♦	CD4033BE	CMS	10	1	UP	5.5M	No	7.0	3.0	200n	2.9	20	500m	4	8	40-33B	MO001AC
7♦	CD4033BF	CMS	10	1	UP	5.5M	No	7.0	3.0	200n	2.9	20	500m	5	C	40-33B	MO001AC
8♦	CD4033BH	CMS	10	1	UP	7.5M	No	11	4.0	90n	4.0 *	15	500m	5	C	40-33B	CH129
9♦	HCC4026BD	CMS	10	1	UP	7.5M	No	11	4.0	220n	4.0 *	15	500m	5	C	40-26B	DIP16a
10♦	HCC4026BF	CMS	10	1	UP	7.5M	No	11	4.0	220n	4.0 *	15	500m	5	C	40-26B	DIP16a
11♦	HCC4026BK	CMS	10	1	UP	7.5M	No	11	4.0	220n	4.0 *	15	500m	5	C	40-26B	FP131
12♦	HCC4033BD	CMS	10	1	UP	7.5M	No	11	4.0	90n	4.0 *	15	500m	5	C	40-33B	DIP16a
13♦	HCC4033BF	CMS	10	1	UP	7.5M	No	11	4.0	90n	4.0 *	15	500m	5	C	40-33B	DIP16a
14♦	HCC4033BK	CMS	10	1	UP	7.5M	No	11	4.0	90n	4.0 *	15	500m	5	C	40-33B	FP131
15♦	HCF4026BE	CMS	10	1	UP	7.5M	No	11	4.0	220n	4.0 *	15	500m	4	8	40-26B	DIP14a
16♦	HCF4026BF	CMS	10	1	UP	7.5M	No	11	4.0	220n	4.0 *	15	500m	4	8	40-26B	DIP16a
17♦	HCF4033BE	CMS	10	1	UP	7.5M	No	11	4.0	90n	4.0 *	15	500m	4	8	40-33B	DIP16a
18♦	HCF4033BF	CMS	10	1	UP	7.5M	No	11	4.0	90n	4.0 *	15	500m	4	8	40-33B	DIP16a
19♦	MC4050L	TTL	10	1	UP	35M		2.4	0.4C			5.0	450m†	0	7	74-450	DIP16b
20♦	MC4050P	TTL	10	1	UP	35M		2.4	0.4C			5.0	450m†	0	7	74-450	DIP16a
21♦	SFF5100E	MOS	10	1	UP/DOWN	1.0M		3.0	0.8			-15	600m			K06-1	DIP24 ☑
22♦	SFF5100K	MOS	10	1	UP/DOWN	1.0M		3.0	0.8			-15	600m			K06-1	DIP24 ☑
23▼	MIC5007N	PCH	9999	1	UP	250k		4.0	.8	15u		5.0		0	7	E03-111	DIP16a
24▼	MIC5007P	PCH	9999	1	UP	250k		4.0	.8	15u		5.0		0	7	E03-111	DIP16a
25▼	MIC50395N	PCH	9999	1	UP/DOWN	1.0M	Yes	9.0	2.0	3.0u		10		0	7	E03-112	DIP40 ☑
26▼	MIC50396N	PCH	9999	1	UP/DOWN	1.0M		9.0	2.0	3.0u		10		0	7	E03-112	DIP40 ☑
27▼	MIC50397N	PCH	9999	1	UP/DOWN	1.0M		9.0	2.0	3.0u		10		0	7	E03-112	DIP40 ☑
28▼	RS50395	PCH	9999	1	UP/DOWN	1.0M	Yes	9.0	2.0	3.0u		10		0	7	E03-112	DIP40 ☑
29▼	MM74C945CQH	CMS	9999	1	UP/DOWN	3.0M	No	3.5	0.8	800n	1.1	5.0	500m	0	7	74MMZ945	LC28
30▼	MM74C945N	CMS	9999	1	UP/DOWN	3.0M	No	3.5	0.8	800n	1.1	5.0	500m	4	8	74MM945	DIP40a
31▼	MM74C947CQH	CMS	9999	1	UP/DOWN	3.0M	No	3.5	0.8	800n	1.1	5.0	500m	0	7	74MMZ945	LC28
32▼	MM74C947N	CMS	9999	1	UP/DOWN	3.0M	No	3.5	0.8	800n	1.1	5.0	500m	4	8	74MM945	DIP40b
33♦	ICM7227BIJI	CMS	10k	1	UP	200k	Yes	2.4	2.2		2.0	5.0	1.0	2	7	E03-77b	DIP28a
34▼	MIC5002N	PCH	10k	1	UP	250k		4.0	.8	15u		5.0		0	7	E04-01	DIP28a
35▼	MIC5002P	PCH	10k	1	UP	250k		4.0	.8	15u		5.0		0	7	E04-01	DIP28b
36▼	MIC5005N	PCH	10k	1	UP	250k		4.0	.8	15u		5.0		0	7	E04-02	DIP24b
37▼	MIC5005P	PCH	10k	1	UP	250k		4.0	.8	15u		5.0		0	7	E04-01	DIP24a
38▼	LC7961	CMS	10k	1	UP	500k				3.0u		8.8	600m	3	7	E01-161	DIP20c
39♦	ICM7217AIPI	CMS	10k	1	UP	2.0M		4.1	3.7			5.0		2	7	E03-77a	DIP28a
40♦	ICM7217C	CMS	10k	1	UP	2.0M		4.1	3.7			5.0		2	7	E03-77	DIP28a
41▼	ICM7217IJI	CMS	10k	1	UP	2.0M		1.3	0.8			5.0		2	7	E03-77	DIP28a
42♦	ICM7227AIPI	CMS	10k	1	UP	2.0M		3.0	1.5			5.0		2	7	E03-77c	DIP28a
43♦	ICM7227IJI	CMS	10k	1	UP	2.0M		3.0	1.5			5.0		2	7	E03-77b	DIP28a
44▼	ICM7217AIJI	CMS	10k	1	UP/DOWN	2.0M	Yes	2.4	0.8			5.0	1.0	2	8	E03-77	DIP28a
45▼	ICM7217IPI	CMS	10k	1	UP/DOWN	2.0M	Yes	2.4	0.8			5.0	1.0	2	8	E03-77	DIP28a
46▼	ICM7236AIPL	CMS	15k	1	UP	15M		3.0	2.0			6.5	500m	2	8	E03-103	DIP40a
47▼	ICM7236IPL	CMS	15k	1	UP	15M		3.0	2.0			6.5	500m	2	8	E03-103	DIP40a
48▼	ICM7225CQ	CMS	20k	1	UP		No	2.0	1.0			5.0	1.0	0	7	E03-74	LC28
49▼	ICM7224CQ	CMS	20k	1	UP	19k	No	2.0	1.0			5.0	1.0	0	7	E03-73	LC28
50▼	ICM7224AIPL	CMS	20k	1	UP	15M		3	2			5.0	50uQ	2	7	E03-73	DIP40b
51▼	ICM7224IPL	CMS	20k	1	UP	15M		3	2			5.0	50uQ	2	8	E03-73	DIP40b
52▼	ICM7225AIPL	CMS	20k	1	UP	15M		3	2			5.0	50uQ	2	7	E03-74	DIP40b
53▼	ICM7225IPL	CMS	20k	1	UP	15M		3	2			5.0	50uQ	2	8	E03-74	DIP40b
54♦	MSM5953RS	CMS	100k	1	UP	50k		3.6	1.0		0.6	16	200m	2	7	E01-168	DIP16 ☑
55♦	MSM5512RS	CMS	100k	1	UP	2.0M		3.6	0.8	1.0u	0.6	5.0		3	8	E01-168	DIP24a
56♦	RS9106	PCH	1.0M	1	UP	200k		4.0	1.0			-15		5	8	E05-32	DIP24 ☑
57♦	TC5070P	CMS	1.0M	1	UP	2.0M		14.9	.050C	1.5u	1.5	5.0	300m	4	8	E01-158	DIP42b
58♦	TC5071P	CMS	1.0M	1	UP	2.0M		14.9	.05C	1.5u	1.5	5.0	300m	4	8	E01-158	DIP42b
59♦	TC5072P	CMS	1.0M	1	UP	2.0M		14.9	.05C	1.5u	1.5	5.0	300m	4	8	E01-158	DIP42b
60♦	ICM7227CIPI	CMS	1.0M	1	UP/DOWN	200k		2.4	2.2		2.0	5.0	.50	2	7	E06-25	DIP28a
61♦	LS7055	PCH	1.0M	1	UP/DOWN	250k		14	0.5C	3.0u	4.5	15		2	7	E03-84	DIP40a
62♦	LS7056	PCH	1.0M	1	UP/DOWN	250k		14	0.5C	3.0u	4.5	15		2	7	E03-84	DIP40 ☑
63▼	ICM7208IPI	CMS	10M	1	UP	10M						5.0	35m	2	7	E03-72	DIP28a
64▼	ICM7226AIJL	CMS	10M	1	UP	14M		3.5	1.0			6.5	1.0	2	8	E03-102	DIP40a
65♦	ICM7216AIJI	MOS	100M	1	UP	10M		3.5	1.0			5.0	1.0	2	7	K05-30	DIP28a
66♦	ICM7216BIPI	MOS	100M	1	UP	10M		3.5	1.0			5.0	1.0	2	7	K05-30a	DIP28a
67♦	ICM7216CIJI	MOS	100M	1	UP	10M		3.5	1.0			5.0	500m	2	7	K05-30b	DIP28a
68♦	ICM7216DIPI	MOS	100M	1	UP	10M		3.5	1.0			5.0	500m	2	7	K05-30c	DIP28a
69▼	ICM7226EV	PCM	100M	1	UP	10M						5.0				K05-33	None
70▼	RS7216A	MOS	100M	1	UP	10M	No	3.5	1.0			5.0	1.0	2	7	K05-30	DIP28
71▼	RS7216C	MOS	100M	1	UP	10M	No	3.5	1.0			5.0	1.0	2	7	K05-30a	DIP28

COUNTER, OCTAL 1-OF-8-OUTPUT

75♦	MSM4022RS	CMS	8	1	UP	2.0M	No	3.6	1.0	1.0u	0.6	16	200m	4	8	40-22B	DIP16 ☑
76♦	MM4622AD	CMS	8	1	UP	2.5M	No	4.99	.01C	500n	450m†	5.0	500m	5	C	40-22B	DIP16b
77♦	MM4622AF	CMS	8	1	UP	2.5M	No	4.99	.01C	500n	450m†	5.0	500m	5	C	40-22B	FP98
78♦	MM5622AN	CMS	8	1	UP	2.5M	No	4.99	.01C	500n	450m†	5.0	500m	4	8	40-22B	DIP16a
79♦	CD4022BCJ	CMS	8	1	UP	3.0M	No	11	4.0	320n	6.7 †	15	1.2mQ	4	8	40-22B	DIP16a
80♦	CD4022BCN	CMS	8	1	UP	3.0M	No	11	4.0	320n	6.7 †	15	1.2mQ	4	8	40-22B	DIP16a
81♦	CD4022BMJ	CMS	8	1	UP	3.0M	No	11	4.0	320n	6.7 †	15	300uQ	5	C	40-22B	DIP16a
82♦	CD4022BMW	CMS	8	1	UP	3.0M	No	11	4.0	320n	6.7 †	15	300uQ	5	C	40-22B	FP88c
83♦	M4022BP	CMS	8	1	UP	3.5M	No	11.0	4.0	350n	4.0	15	0.5	4	8	40-22B	DIP16b
84♦	TC4022BP	CMS	8	1	UP	3.5M	No	14.9	.05C	350n	4.0	15	300m	4	8	40-22B	DIP16a
85♦	CD4022AD	CMS	8	1	UP	5.0M	No	9.95	0.05C	400n		15	500m	5	C	40-22B	MO001AE
86♦	CD4022AE	CMS	8	1	UP	5.0M	No	9.95	0.05C	800n		15	500m	4	8	40-22B	MO001AC
87♦	CD4022AF	CMS	8	1	UP	5.0M	No	9.95	0.05C	400n		15	500m	5	C	40-22B	MO001AC
88♦	CD4022BD	CMS	8	1	UP	5.0M	No	7.0	3.0	270n	2.9	20	500m	5	C	40-22B	MO001AE
89♦	CD4022BE	CMS	8	1	UP	5.0M	No	7.0	3.0	270n	2.9	20	500m	4	8	40-22B	MO001AC
90♦	CD4022BF	CMS	8	1	UP	5.0M	No	7.0	3.0	270n	2.9	20	500m	5	C	40-22B	MO001AC
91♦	CM4022AD	CMS	8	1	UP	5.0M	No	10	0C	225n	4.5 †	10	200m	5	C	40-22B	DIP16a
92♦	CM4022AE	CMS	8	1	UP	5.0M	No	10	0C	250n	4.5 †	10	200m	4	8	40-22B	DIP16a
93♦	HBC4022AD	CMS	8	1	UP	5.0M	No	10	0C	400n	4.5 †	10	100uQ	5	C	40-22B	MO001AE
94♦	HBC4022AF	CMS	8	1	UP	5.0M	No	10	0C	400n	4.5 †	10	100uQ	5	C	40-22B	MO001AE
95♦	HBC4022AK	CMS	8	1	UP	5.0M	No	10	0C	400n	4.5 †	10	100uQ	5	C	40-22B	MO004AG
96♦	HBF4022AE	CMS	8	1	UP	5.0M	No	10	0C	800n	4.5 †	10	1.0mQ	4	8	40-22B	MO001AC
97♦	HBF4022AF	CMS	8	1	UP	5.0M	No	10	0C	800n	4.5 †	10	1.0mQ	4	8	40-22B	MO001AE
98♦	883C4022B	CMS	8	1	UP	6.0M	No	8.2	6.7	360n		15	300m	5	C	40-22B	MO001AG
99♦	BCL4022B	CMS	8	1	UP	6.0M	No	8.2	6.7	360n		15	300m	5	C	40-22B	MO001AG
100♦	SCL4022B	CMS	8	1	UP	6.0M	No	7.0	3.0	600n		18	300m	5	C	40-22B	DL ☑
101♦	MB84022B	CMS	8	1	UP	8.0M	No	10.5	4.5	240n	4.5 *	15	1.2mQ	4	8	40-22B	DIP16a
102♦	MB84022BM	CMS	8	1	UP	8.0M	No	10.5	4.5	240n	4.5 *	15	1.2mQ	4	8	40-22B	DIP16b
103♦	HEF4022P	CMS	8	1	UP	10M	No	7.0	3.0	110n		10	1.0mQ	4	8	40-22B	DIP16a
104♦	HEF4022	CMS	8	1	UP	12M	No	11	4.0	125n	6.7 †	15	400m	4	8	40-22B	DL ☑
105♦	HEF4022BPN	CMS	8	1	UP	12M	No	11.0	4.0	125n	6.7 †	15	400m	4	8	40-22B	DIP16b
106♦	HCC4022BD	CMS	8	1	UP	16M	No	11	4.0	130n		5.0	500m	5	C	40-22B	DIP16a
107♦	HCC4022BF	CMS	8	1	UP	16M	No	11	4.0	130n		5.0	500m	5	C	40-22B	DIP16a
108♦	HCC4022BK	CMS	8	1	UP	16M	No	11	4.0	130n		5.0	500m	5	C	40-22B	FP131
109♦	HCF4022BE	CMS	8	1	UP	16M	No	11	4.0	130n		5.0	500m	4	8	40-22B	DIP16a
110♦	HCF4022BF	CMS	8	1	UP	16M	No	11	4.0	130n		5.0	500m	4	8	40-22B	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. COUNTERS - Octal, 1-of-8 Output (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG (3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	MC14022BAL	CMS	8	1	UP	16M	No	11	4.0	350n	2.5 *	15		5	C	40-22B	DIP16a
2▼	MC14022BALD	CMS	8	1	UP	16M	No	11	4.0	350n	2.5 *	15		5	C	40-22B	DIP16a
3▼	MC14022BALDS	CMS	8	1	UP	16M	No	11	4.0	350n	2.5 *	15		5	C	40-22B	DIP16a
4▼	MC14022BALS	CMS	8	1	UP	16M	No	11	4.0	350n	2.5 *	15		5	C	40-22B	DIP16a
5♦	MC14022BCL	CMS	8	1	UP	16M	No	11	4.0	350n	2.5 *	15		4	8	40-22B	DIP16a
6▼	MC14022BCLD	CMS	8	1	UP	16M	No	11	4.0	350n	2.5 *	15		4	8	40-22B	DIP16a
7▼	MC14022BCLDS	CMS	8	1	UP	16M	No	11	4.0	350n	2.5 *	15		4	8	40-22B	DIP16a
8▼	MC14022BCLS	CMS	8	1	UP	16M	No	11	4.0	350n	2.5 *	15		4	8	40-22B	DIP16a
9♦	MC14022BCP	CMS	8	1	UP	16M	No	11	4.0	350n	2.5 *	15		4	8	40-22B	DIP16a
10▼	MC14022BCPD	CMS	8	1	UP	16M	No	11	4.0	350n	2.5 *	15		4	8	40-22B	DIP16a
11▼	MC14022BCPDS	CMS	8	1	UP	16M	No	11	4.0	350n	2.5 *	15		4	8	40-22B	DIP16a
12▼	MC14022BCPS	CMS	8	1	UP	16M	No	11	4.0	350n	2.5 *	15		4	8	40-22B	DIP16a
13▼	MC14022BD	CMS	8	1	UP	16M	No	11	4.0	350n	2.5 *	15		4	8	40-22B	DIP16a
14♦	M74HC4022B1(A)	CMS	8	1	UP	20M	No	3.15	1.35	47n	1.2	5.0	500m	4	8	40-22	DIP16a
15♦	M74HC4022F1(A)	CMS	8	1	UP	20M	No	3.15	1.35	47n	1.2	5.0	500m	4	8	40-22	DIP16b
16▼	SN74HC7022N(A)	CMS	8	1	UP	20M	No	3.15	0.9		1.2	5.0		4	8	74HC7022	DIP16a
17♦	4022BDC	CMS	8	1	UP	24M	No	11	4.0	60n	6.7 †	15	9.0mQ	4	8	40-22B	DIP16a
18♦	4022BDM	CMS	8	1	UP	24M	No	11	4.0	60n	6.7 †	15	9.0mQ	5	C	40-22B	DIP16a
19♦	4022BFC	CMS	8	1	UP	24M	No	11	4.0	60n	6.7 †	15	9.0mQ	4	8	40-22B	FP103
20♦	4022BFM	CMS	8	1	UP	24M	No	11	4.0	60n	6.7 †	15	9.0mQ	5	C	40-22B	FP103
21♦	4022BPC	CMS	8	1	UP	24M	No	11	4.0	60n	6.7 †	15	9.0mQ	4	8	40-22B	None
22♦	HEF4022BTD	CMS	8	1	UP	24M	No	11.0	4.0	125n	6.7 †	15	200m	4	8	40-22B	FP148
23▼	HD74HC4022FP	CMS	8	1	UP	27M	No	3.15	1.35	58n	1.2	5.0	500m	4	8	40-22B	FP162
24▼	HD74HC4022P	CMS	8	1	UP	27M	No	3.15	1.35	58n	1.2	5.0	500m	4	8	40-22B	DIP16a
25♦	M54HC4022F1(A)	CMS	8	1	UP	40M	No	3.15	1.35	39n	1.2	5.0	500m	5	C	40-22	DIP16b
26▼	TC74HC4022F(A)	CMS	8	1	UP	43M	No	3.15	1.35	49n	1.2	5.0	180m	4	8	40-22B	FP167
27▼	TC74HC4022P(A)	CMS	8	1	UP	43M	No	3.15	1.35	49n	1.2	5.0	500m	4	8	40-22B	DIP16a
28♦	HEF4022BT	CMS	256	1	UP	15M	No	3.0	7.0	145n		10	400m	4	8	40-22B	FP148
29♦	HEF4022BD	CMS	256	1	UP	16M	No	3.0	7.0	145n		10	500m	4	8	40-22B	DIP16b
30♦	HEF4022BP	CMS	256	1	UP	16M	No	3.0	7.0	145n		10	500m	4	8	40-22B	DIP16b
COUNTER, MODULO-N																	
34♦	DM8556N	TTL		1	UP	50M		2.0	0.8	27n		5.0	375m†	0	7	75-56N	DIP16a
35♦	MC4019F	TTL	4	2	UP			2.5	0.4	35n		5.0	250m†	0	7	E07-19	FP85
36♦	MC4019L	TTL	4	2	UP			2.5	0.4	35n		5.0	250m†	0	7	E07-19	DIP16a
37♦	MC4019P	TTL	4	2	UP			2.5	0.4	35n		5.0	250m†	0	7	E07-19	DIP16b
38♦	MC4319F	TTL	4	2	UP			2.4	0.4	35n		5.0	250m†	5	C	E07-19	FP85
39♦	MC4319L	TTL	4	2	UP			2.4	0.4	35n		5.0	250m†	5	C	E07-19	DIP16a
40♦	MC4319P	TTL	4	2	UP			2.4	0.4	35n		5.0	250m†	5	C	E07-19	DIP16b
41♦	MC4317F	TTL	5	2	UP			2.4	0.4	35n		5.0	250m†	5	C	E07-17	FP85
42♦	MC4317L	TTL	5	2	UP			2.4	0.4	35n		5.0	250m†	5	C	E07-17	DIP16a
43♦	MC4317P	TTL	5	2	UP			2.4	0.4	35n		5.0	250m†	5	C	E07-17	DIP16b
44♦	MC4016F	TTL	10	1	UP			2.5	0.4	35n		5.0	250m†	0	7	E07-16	FP85
45♦	MC4016L	TTL	10	1	UP			2.5	0.4	35n		5.0	250m†	0	7	E07-16	DIP16a
46♦	MC4016P	TTL	10	1	UP			2.5	0.4	35n		5.0	250m†	0	7	E07-16	DIP16b
47♦	MC4017F	TTL	10	1	UP			2.5	0.4	35n		5.0	250m†	0	7	E07-17	FP85
48♦	MC4017L	TTL	10	1	UP			2.5	0.4	35n		5.0	250m†	0	7	E07-17	DIP16a
49♦	MC4017P	TTL	10	1	UP			2.5	0.4	35n		5.0	250m†	0	7	E07-17	DIP16b
50♦	MC4018F	TTL	10	1	UP			2.5	0.4	35n		5.0	250m†	0	7	E07-18	FP85
51♦	MC4018L	TTL	10	1	UP			2.5	0.4	35n		5.0	250m†	0	7	E07-18	DIP16a
52♦	MC4018P	TTL	10	1	UP			2.5	0.4	35n		5.0	250m†	0	7	E07-18	DIP16b
53♦	MC4316F	TTL	10	1	UP			2.4	0.4	35n		5.0	250m†	5	C	E07-16	FP85
54♦	MC4316L	TTL	10	1	UP			2.4	0.4	35n		5.0	250m†	5	C	E07-16	DIP16a
55♦	MC4316P	TTL	10	1	UP			2.4	0.4	35n		5.0	250m†	5	C	E07-16	DIP16b
56♦	M4018BP	CMS	10	1	UP	3.0M	Yes	11.0	4.0	500n	4.0	15	0.5	4	8	40-18B	DIP16b
57♦	TC4018BP	CMS	10	1	UP	3.0M	Yes	14.9	.05C	150n	4.0	15	300m	4	8	40-18B	DIP16a
58♦	MC14018BAL	CMS	10	1	UP	4.0M	Yes	11	4.0	100n	2.5 *	15	300uQ	5	C	40-18B	DIP16a
59▼	MC14018BALD	CMS	10	1	UP	4.0M	Yes	11	4.0	100n	2.5 *	15	300uQ	5	C	40-18B	DIP16a
60▼	MC14018BALDS	CMS	10	1	UP	4.0M	Yes	11	4.0	100n	2.5 *	15	300uQ	5	C	40-18B	DIP16a
61▼	MC14018BALS	CMS	10	1	UP	4.0M	Yes	11	4.0	100n	2.5 *	15	300uQ	5	C	40-18B	DIP16a
62♦	MC14018BCL	CMS	10	1	UP	4.0M	Yes	11	4.0	100n	2.5 *	15	1.2mQ	4	8	40-18B	DIP16a
63▼	MC14018BCLD	CMS	10	1	UP	4.0M	Yes	11	4.0	100n	2.5 *	15	1.2mQ	4	8	40-18B	DIP16a
64▼	MC14018BCLDS	CMS	10	1	UP	4.0M	Yes	11	4.0	100n	2.5 *	15	1.2mQ	4	8	40-18B	DIP16a
65▼	MC14018BCLS	CMS	10	1	UP	4.0M	Yes	11	4.0	100n	2.5 *	15	1.2mQ	4	8	40-18B	DIP16a
66♦	MC14018BCP	CMS	10	1	UP	4.0M	Yes	11	4.0	100n	2.5 *	15	1.2mQ	4	8	40-18B	DIP16a
67▼	MC14018BCPD	CMS	10	1	UP	4.0M	Yes	11	4.0	100n	2.5 *	15	1.2mQ	4	8	40-18B	DIP16a
68▼	MC14018BCPDS	CMS	10	1	UP	4.0M	Yes	11	4.0	100n	2.5 *	15	1.2mQ	4	8	40-18B	DIP16a
69▼	MC14018BCPS	CMS	10	1	UP	4.0M	Yes	11	4.0	100n	2.5 *	15	1.2mQ	4	8	40-18B	DIP16a
70▼	MC14018BD	CMS	10	1	UP	4.0M	Yes	11	4.0	100n	2.5 *	15	1.2mQ	4	8	40-18B	DIP16a
71♦	4018BDC	CMS	10	1	UP	4.5M	Yes	11	4.0	200n	6.7 †	15	9.0mQ	4	8	40-18B	DIP16a
72♦	4018BDM	CMS	10	1	UP	4.5M	Yes	11	4.0	200n	6.7 †	15	9.0mQ	5	C	40-18B	DIP16a
73♦	4018BFC	CMS	10	1	UP	4.5M	Yes	11	4.0	200n	6.7 †	15	9.0mQ	4	8	40-18B	FP103
74♦	4018BFM	CMS	10	1	UP	4.5M	Yes	11	4.0	200n	6.7 †	15	9.0mQ	5	C	40-18B	FP103
75♦	4018BPC	CMS	10	1	UP	4.5M	Yes	11	4.0	200n	6.7 †	15	9.0mQ	4	8	40-18B	None
76♦	CD4018AD	CMS	10	1	UP	5.0M	Yes	9.95	0.05C	400n	4.5 †	15	500m	5	C	40-18B	MO001AE
77♦	CD4018AE	CMS	10	1	UP	5.0M	Yes	9.95	0.05C	500n	4.5 †	15	500m	4	8	40-18B	MO001AC
78♦	CD4018AF	CMS	10	1	UP	5.0M	Yes	9.95	0.05C	400n	4.5 †	15	500m	5	C	40-18B	MO001AC
79♦	CD4018BCJ	CMS	10	1	UP	5.0M	Yes	11	4.0	200n	6.7 †	15	1.2mQ	4	8	40-18B	DIP16a
80♦	CD4018BCN	CMS	10	1	UP	5.0M	Yes	11	4.0	200n	6.7 †	15	1.2mQ	4	8	40-18B	DIP16a
81♦	CD4018BMJ	CMS	10	1	UP	5.0M	Yes	11	4.0	200n	6.7 †	15	300uQ	5	C	40-18B	DIP16a
82♦	CD4018BMW	CMS	10	1	UP	5.0M	Yes	11	4.0	200n	6.7 †	15	300uQ	5	C	40-18B	FP88c
83♦	CM4018AD	CMS	10	1	UP	5.0M	Yes	10	0C	400n	4.5 †	10	200m	5	C	40-18B	DIP16a
84♦	CM4018AE	CMS	10	1	UP	5.0M	Yes	10	0C	500n	4.5 †	10	200m	4	8	40-18B	DIP16a
85♦	HBC4018AD	CMS	10	1	UP	5.0M	Yes	10	0C	400n	4.5 †	10	100uQ	5	C	40-18B	MO001AE
86♦	HBC4018AF	CMS	10	1	UP	5.0M	Yes	10	0C	400n	4.5 †	10	100uQ	5	C	40-18B	MO001AE
87♦	HBC4018AK	CMS	10	1	UP	5.0M	Yes	10	0C	400n	4.5 †	10	100uQ	5	C	40-18B	MO004AG
88♦	HBF4018AE	CMS	10	1	UP	5.0M	Yes	10	0C	500n	4.5 †	10	1.0mQ	4	8	40-18B	MO001AC
89♦	HBF4018AF	CMS	10	1	UP	5.0M	Yes	10	0C	500n	4.5 †	10	1.0mQ	4	8	40-18B	MO001AE
90♦	SCL4018B	CMS	10	1	UP	5.0M	Yes	3.5Δ	1.0*	350n	3.0	15	100uQ	5	C	40-18B	DIP16a
91♦	883C4018B	CMS	10	1	UP	6.0M	Yes	8.2	6.7	240n		15	300m	5	C	40-18B	MO001AG
92♦	BCL4018B	CMS	10	1	UP	6.0M	Yes	8.2	6.7	240n		15	300m	5	C	40-18B	MO001AG
93♦	CD4018BD	CMS	10	1	UP	7.0M	Yes	7.0	3.0	180n	2.9	20	500m	5	C	40-18B	MO001AE
94♦	CD4018BE	CMS	10	1	UP	7.0M	Yes	7.0	3.0	180n	2.9	20	500m	4	8	40-18B	MO001AC
95♦	CD4018BF	CMS	10	1	UP	7.0M	Yes	7.0	3.0	180n	2.9	20	500m	5	C	40-18B	MO001AC
96♦	HEF4018	CMS	10	1	UP	8.0M	Yes	11	4.0	105n	6.7 †	15	400m	4	8	40-18B	DL ☑
97♦	HEF4018BPN	CMS	10	1	UP	8.0M	Yes	11.0	4.0	105n	6.7 †	15	400m	4	8	40-18B	DIP16b
98♦	HEF4018P	CMS	10	1	UP	10M	Yes	7.0	3.0	115n	4.5 †	10	100uQ	4	8	40-18B	DIP16a
99♦	HEF4018BD	CMS	10	1	UP	11M	Yes	7.0	3.0	135n		10	500m	4	8	40-18B	DIP16b
100♦	HEF4018BP	CMS	10	1	UP	11M	Yes	7.0	3.0	135n		10	500m	4	8	40-18B	DIP16b
101♦	HEF4018BT	CMS	10	1	UP	11M	Yes	7.0	3.0	135n		10	400m	4	8	40-18B	FP148
102♦	HEF4018BTD	CMS	10	1	UP	16M	Yes	11.0	4.0	95n	6.7 †	15	200m	4	8	40-18B	FP148
103♦	HCC4018BD	CMS	10	1	UP	17M	Yes	11	4.0	130n	2.5 †	15	500m	5	C	40-18B	DIP16a
104♦	HCC4018BF	CMS	10	1	UP	17M	Yes	11	4.0	130n	2.5 †	15	500m	5	C	40-18B	DIP16a
105♦	HCC4018BK	CMS	10	1	UP	17M	Yes	11	4.0	130n	2.5 †	15	500m	5	C	40-18B	FP131
106♦	HCF4018BE	CMS	10	1	UP	17M	Yes	11	4.0	130n	2.5 †	15	500m	4	8	40-18B	DIP16a
107♦	HCF4018BF	CMS	10	1	UP	17M	Yes	11	4.0	130n	2.5 †	15	500m	4	8	40-18B	DIP16a
108▼	MC4023L	TTL	12	1	UP	30M		2.5Δ	0.4C	16n		5.0	200m†	0	7	4-023P	TO-116
109▼	MC4023P	TTL	12	1	UP	30M		2.5Δ	0.4C	16n		5.0	200m†	0	7	4-023P	TO-116
110♦	MC4318F	TTL	16	1	UP			2.4	0.4	35n		5.0	250m†	5	C	E07-18	FP85

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. COUNTERS - Modulo-N (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG
(3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODU-LUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE		(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	MC4318L	TTL	16	1	UP			2.4	0.4	35n		5.0	250m†	5	C	E07-18	DIP16a
2♦	MC4318P	TTL	16	1	UP			2.4	0.4	35n		5.0	250m†	5	C	E07-18	DIP16b
3♦	9305FM	TTL	16	1	UP	20M		2.0	0.8	57n	400m	5.0	330m	5	C	E06-8	TO-86
4♦	9305PC	TTL	16	1	UP	20M		2.0	0.8	55n	400m	5.0	325mQ	0	7	E06-8	DIP14a
5♦	DM7556J	TTL	16	1	UP	25M	Yes	2.0	0.8		0.4	5.0		5	C	75-56	DIP16a
6♦	DM7556W	TTL	16	1	UP	35M		2.0	0.8	22n	0.4			5	C	75-56N	FP98b
7♦	DM7556N	TTL	16	1	UP	50M		2.0	0.8	27n		5.0	375m†	5	C	75-56N	DIP16a
8▼	TQ1112(A)	GA	16	1	UP/DOWN	1.0G	Yes	1.1	1.5		100m	5.0	2.0			E07-21	LC44-1
9♦	SFF24018AEV	CMS	32	1	UP	5.0M	Yes	9.99	.01C	500n	3.0 *	10	200m	4	8	40-18B	DIP16a
10♦	SFF24018AKM	CMS	32	1	UP	5.0M	Yes	9.99	.01C	400n	3.0 *	10	200m	5	C	40-18B	DIP16a

COUNTER, SPECIAL-FEATURE

14♦	S360B114(A)	BIP		2	UP	3.0M		2.0	0.8		700m	5.0	400m	0	7	E02-223	DIP28a
15♦	S360B110	IIL		3	UP							5.0		0	7	E06-34	DIP40 ☑
16♦	S360B110C	IIL		3	UP							5.0		0	7	E06-34	DIP40 ☑
17♦	LS7066	NCH	576	1	UP/DOWN	5.0M		2.0	0.8		0.2			0	7	E08-6	None
18▼	SP9215DC(A)	ECL	1.0k	1	UP/DOWN	50M		-1.1	-1.4	20n	0.2	-5.	800m†	3	8	E08-3	DIP28a
19▼	SP9215DG(A)	ECL	1.0k	1	UP/DOWN	50M		-1.1	-1.4	20n	0.2	-5.	800m†	3	8	E08-3	DIP28a

Counters for use under software control are described in D.A.T.A.'s MICROPROCESSOR ICs.

12. CLOCKS/MULTIVIBRATORS - Astable Multivibrator

IN ORDER OF: (1) TYPE MV (2) CKTS PER PKG (3) f MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[1] TYPE	[3] f MAX (Hz)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	CLEAR	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG (V)	SUPPLY VOLTAGE RATED POS (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
MULTIVIBRATOR, ASTABLE																				
4♦	4047BDC	CMS	AST		11	4.0	Yes	25e	0	15	45n			9.0mQ	6.7 †	4	8	1	40-47	TO-116
5♦	4047BDM	CMS	AST		11	4.0	Yes	25e	0	15	45n			9.0mQ	6.7 †	5	C	1	40-47	TO-116
6	4047BFC	CMS	AST		11	4.0	Yes	25e	0	15	45n			9.0mQ	6.7 †	4	8	1	40-47	FP21h
7	4047BFM	CMS	AST		11	4.0	Yes	25e	0	15	45n			9.0mQ	6.7 †	5	C	1	40-47	FP21h
8♦	4047BPC	CMS	AST		11	4.0	Yes	25e	0	15	45n			9.0mQ	6.7 †	4	8	1	40-47	DIP14a
9	BCL4047B	CMS	AST		8.2	6.7	Yes		0	15	80n			300m		5	C	1	40-47	MO001AA
10	CD4047AD	CMS	AST		9.95	0.05C	Yes		0	15	500n	20n	20n	500m		5	C	1	40-47	MO001AD
11	CD4047AE	CMS	AST		9.95	0.05C	Yes		0	15	650n	20n	20n	500m		4	8	1	40-47	MO001AB
12	CD4047AF	CMS	AST		9.95	0.05C	Yes		0	15	500n	20n	20n	500m		5	C	1	40-47	MO001AB
13♦	CD4047BCJ	CMS	AST		11	4.0	Yes	16e	0	15	400n			1.2mQ	6.7 †	4	8	1	40-47	DIP14a
14♦	CD4047BCN	CMS	AST		11	4.0	Yes	16e	0	15	400n			1.2mQ	6.7 †	4	8	1	40-47	DIP14a
15	CD4047BD	CMS	AST		7.0	3.0	Yes	18e	0	20	350n	20n	20n	500m	2.9	5	C	1	40-47	MO001AD
16	CD4047BE	CMS	AST		7.0	3.0	Yes	18e	0	20	350n	20n	20n	500m	2.9	4	8	1	40-47	MO001AB
17	CD4047BF	CMS	AST		7.0	3.0	Yes	18e	0	20	350n	20n	20n	500m	2.9	5	C	1	40-47	MO001AB
18♦	CD4047BMJ	CMS	AST		11	4.0	Yes	19e	0	15	400n			300uQ	6.7 †	5	C	1	40-47	DIP14a
19	CD4047BMW	CMS	AST		11	4.0	Yes	19e	0	15	400n			300uQ	6.7 †	5	C	1	40-47	FP97c
20	CM4047AD	CMS	AST		10	0	Yes		0	15	150n			200m	4.5 †	5	C	1	40-47	DL ☑
21	CM4047AE	CMS	AST		10	0	Yes		0	15	150n			200m	4.5 †	4	8	1	40-47	DL ☑
22	CM4047AF	CMS	AST		10	0	Yes		0	15	150n			200m	4.5 †	5	C	1	40-47	FP ☑
23♦	H227B1	DTL	AST		8.0	6.0		25	0	16	1.0u			500mQ	5.0	0	7	1	C01-14	DIP14b
24	HBC4047AD	CMS	AST		10	0C	Yes		5.0	15	150n			100uQ	4.5 †	5	C	1	40-47	MO001AD
25	HBC4047AK	CMS	AST		10	0C	Yes		5.0	15	150n			100uQ	4.5 †	5	C	1	40-47	MO004AF
26	HBF4047AE	CMS	AST		10	0C	Yes		5.0	15	150n			1.0mQ	4.5 †	4	8	1	40-47	MO001AB
27♦	HCC4047BD	CMS	AST		11	4.0	Yes		0	15	150n	20n†	20n†	200m	2.5 *	5	C	1	40-47	DIP14a
28♦	HCC4047BF	CMS	AST		11	4.0	Yes		0	15	150n	20n†	20n†	200m	2.5 *	5	C	1	40-47	DIP14a
29	HCC4047BK	CMS	AST		11	4.0	Yes		0	15	150n	20n†	20n	200m	2.5 *	5	C	1	40-47	FP130
30♦	HCF4047BE	CMS	AST		11	4.0	Yes		0	15	150n	20n†	20n†	200m	2.5 *	4	8	1	40-47	DIP14a
31♦	HCF4047BF	CMS	AST		11	4.0	Yes		0	15	150n	20n†	20n†	200m	2.5 *	4	8	1	40-47	DIP14a
32	HEF4047	CMS	AST		11	4.0	Yes	16	0	15				400m	6.7 †	4	8	1	40-47	DL ☑
33♦	HEF4047B	CMS	AST		9.95	.05C	Yes		0	10				100uQ		4	8	1	40-47	TO-116
34♦	HEF4047BD	CMS	AST		7.0	3.0	Yes		0	10	90n	60n	60n	500m	2.9	4	8	1	40-47	DIP14a
35♦	HEF4047BP	CMS	AST		7.0	3.0	Yes		0	10	90n	60n	60n	500m	2.9	4	8	1	40-47	DIP14a
36♦	HEF4047BPN	CMS	AST		11.0	4.0	Yes	16	0	15				400m	6.7 †	4	8	1	40-47	DIP14b
37♦	HEF4047BT	CMS	AST		7.0	3.0	Yes		0	10	90n	60n	60n	400m	2.9	4	8	1	40-47	FP147
38	HEF4047BTD	CMS	AST		11.0	4.0	Yes	50e	0	15	100n			200m	6.7 †	4	8	1	40-47	FP147
39♦	TC4047BP	CMS	AST		14.9	.05C	Yes		0	15	500n	160n	80n	300m	4.0	4	8	1	40-47	DIP14a
40▼	XR2242CP		AST	1.0M	15	0.4C		2a	0	5.0	1.0u	180n†	180n†	300m		0	7	1	J06-8	DIP8 ☑
41	DLO31-2	TTL	AST	2.0M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
42	DLO31F2	TTL	AST	2.0M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
43♦	TTLOS2	TTL	AST	2.0M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
44	DLO31-2.5	TTL	AST	2.5M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
45	DLO31F2.5	TTL	AST	2.5M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
46	DLO31-3	TTL	AST	3.0M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
47	DLO31F3	TTL	AST	3.0M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
48♦	TTLOS3	TTL	AST	3.0M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
49	DLO31-3.5	TTL	AST	3.5M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
50	DLO31F3.5	TTL	AST	3.5M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
51	DLO31-4	TTL	AST	4.0M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
52	DLO31F4	TTL	AST	4.0M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
53♦	TTLOS4	TTL	AST	4.0M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
54♦	MN6057	CMS	AST	4.1M					0					300m		3	7	1	C01-34	DIP8b
55♦	MN6092	CMS	AST	4.1M					0	1.5				300m		3	7	1	C01-29	DIP8a
56♦	MN6093	CMS	AST	4.1M				12	0					300m		-	8	1	C01-35	DIP8b
57♦	MN6251	CMS	AST	4.1M					0					300m		3	7	1	C01-32	DIP8b
58	DLO31-4.5	TTL	AST	4.5M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
59	DLO31F4.5	TTL	AST	4.5M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
60	DLO31-5	TTL	AST	5.0M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
61	DLO31F5	TTL	AST	5.0M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
62♦	TTLOS5	TTL	AST	5.0M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
63	DLO31-5.5	TTL	AST	5.5M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
64	DLO31F5.5	TTL	AST	5.5M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
65	DLO31-6	TTL	AST	6.0M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
66	DLO31F6	TTL	AST	6.0M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
67	DLO31-7	TTL	AST	7.0M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
68	DLO31F7	TTL	AST	7.0M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
69	DLO31-8	TTL	AST	8.0M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
70	DLO31F8	TTL	AST	8.0M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
71	DLO31-9	TTL	AST	9.0M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
72	DLO31F9	TTL	AST	9.0M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
73	DLO31-10	TTL	AST	10M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
74	DLO31F10	TTL	AST	10M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
75♦	TTLOS10	TTL	AST	10M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
76	DLO31-11	TTL	AST	11M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
77	DLO31F11	TTL	AST	11M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
78	DLO31-12	TTL	AST	12M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
79	DLO31F12	TTL	AST	12M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
80	DLO31-13	TTL	AST	13M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
81	DLO31F13	TTL	AST	13M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
82	DLO31-14	TTL	AST	14M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
83	DLO31F14	TTL	AST	14M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
84	DLO31-15	TTL	AST	15M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
85	DLO31F15	TTL	AST	15M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
86♦	TTLOS15	TTL	AST	15M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
87	DLO31-20	TTL	AST	20M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
88	DLO31F20	TTL	AST	20M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
89♦	TTLOS20	TTL	AST	20M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
90▼	UPD71011C	CMS	AST	20M	2.6	0.8	No			5.0		20n	12n	150m		4	8	1	C01-42	DIP18b
91▼	UPD71011G	CMS	AST	20M	2.6	0.8	No			5.0		20n	12n	150m		4	8	1	C01-42	FP16B
92	DLO31-25	TTL	AST	25M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
93	DLO31F25	TTL	AST	25M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
94♦	TTLOS25	TTL	AST	25M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
95▼	UPD71084C	CMS	AST	25M	2.6	0.8	No			5.0		20n	12n	150m		4	8	1	C01-43	DIP18b
96▼	UPD71084G	CMS	AST	25M	2.6	0.8	No			5.0		20n	12n	150m		4	8	1	C01-43	FP16B
97	DLO31-30	TTL	AST	30M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
98	DLO31F30	TTL	AST	30M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
99♦	HEF4541BD	CMS	AST	30M†	7.0	3.0	Yes		0	10	330n	60n	60n	500m		4	8	1	45-41B	DIP14a
100♦	HEF4541BP	CMS	AST	30M†	7.0	3.0	Yes		0	10	330n	60n	60n	500m		4	8	1	45-41B	DIP14a
101♦	HEF4541BT	CMS	AST	30M†	7.0	3.0	Yes		0	10	330n	60n	60n	400m		4	8	1	45-41B	FP147
102♦	TTLOS30	TTL	AST	30M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
103	DLO31-35	TTL	AST	35M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
104	DLO31F35	TTL	AST	35M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
105♦	TTLOS35	TTL	AST	35M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
106	DLO31-40	TTL	AST	40M					0	5.0	4.0n			394m		0	7	1	C04-55	MD30b
107	DLO31F40	TTL	AST	40M	2.0	0.8				5.0						0	7	1	C01-41	MD14O
108♦	TTLOS40	TTL	AST	40M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
109♦	TTLOS45	TTL	AST	45M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
110♦	TTLOS50	TTL	AST	50M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. CLOCKS/MULTIVIBRATORS – Astable Multivibrator (Cont'd)

IN ORDER OF: (1) TYPE MV (2) CKTS PER PKG (3) f MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[1] TYPE	[3] f MAX (Hz)	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	CLEAR	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG (V)	POS (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[2] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	TTLOS60	TTL	AST	60M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
2♦	TTLOS70	TTL	AST	70M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
3♦	TTLOS80	TTL	AST	80M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
4♦	TTLOS90	TTL	AST	90M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
5♦	TTLOS100	TTL	AST	100M	2.0	0.8	No	10		5.0					0.4	0	7	1	CO1-40	DIP14e
6♦	MC1658L	ECT	AST	175M	-.96	-1.6C			8.0	0		2.7n	2.7n			3	8	1	C01-16	DIP16b
7▼	MC1658LD	ECT	AST	175M	-.96	-1.6C			8.0	0		2.7n	2.7n			3	8	1	C01-16	DIP16b
8▼	MC1658LDS	ECT	AST	175M	-.96	-1.6C			8.0	0		2.7n	2.7n			3	8	1	C01-16	DIP16b
9♦	MC1658P	ECT	AST	175M	-.96	-1.6C			8.0	0		2.7n	2.7n			3	8	1	C01-16	DIP16a
10▼	MC1658PD	ECT	AST	175M	-.96	-1.6C			8.0	0		2.7n	2.7n			3	8	1	C01-16	DIP16a
11▼	MC1658PDS	ECT	AST	175M	-.96	-1.6C			8.0	0		2.7n	2.7n			3	8	1	C01-16	DIP16a
12♦	SP1658DG	ECL	AST	190M	.96	1.62C			5.2	0		3.5n	3.0n		960m	3	8	1	C01-16	DIP16b
13♦	SP1658DP	ECL	AST	190M	.96	1.62C			5.2	0		3.5n	3.0n		960m	0	7	1	C01-16	DIP16b
14♦	SP1658LC(A)	ECL	AST	190M	.96	1.62C			5.2	0		3.5n	3.0n		960m	3	8	1	C01-16	LC19
15♦	MC4024F	TTL	AST	30M	2.5	0.4C		7	0	5.0				150m†		0	7	2	4-024	TO-86
16♦	MC4024L,P	TTL	AST	30M	2.5	0.4C		7	0	5.0				150m†		0	7	2	4-024	TO-116
17♦	MC4324F	TTL	AST	30M	2.4	0.4C		7	0	5.0				150m†		5	C	2	4-024	TO-86
18♦	MC4324L	TTL	AST	30M	2.4	0.4C		7	0	5.0				150m†		5	C	2	4-024	TO-116
19♦	DN850	RTL	AST	35k	9.0	0.4			0	12	100n	200n†	50n†	186m†		2	7	3	F04-1	DIP14b
20♦	LM175D(1)		AST	200M	2.1	0.4C			0	5.0		50n	50n	500m		5	C	3	C06-13	DIP14a
21♦	LM275D(1)		AST	200M	2.1	0.4C			0	5.0		50n	50n	500m		2	8	3	C06-13	DIP14a
22♦	LM375D(1)		AST	200M	2.1	0.4C			0	5.0		50n	50n	500m		0	7	3	C06-13	DIP14a
23♦	LM375N(1)		AST	200M	2.1	0.4C			0	5.0		50n	50n	500m		0	7	3	C06-13	DIP14a

MULTIVIBRATOR, MONOSTABLE

27▼	HD74HC123AFP	CMS	MON		3.15	1.35	Yes		0	5.0	60n	6.0n	6.0n	500m	1.2	4	8		74-123	FP162
28▼	HD74HC123AP	CMS	MON		3.15	1.35	Yes		0	5.0	60n	6.0n	6.0n	500m	1.2	4	8		74-123	DIP16a
29▼	HD74HC423AFP(A)	CMS	MON		3.15	1.35	YES		0	5.0	51n	6.0n	6.0n	500m	1.2	4	8		74HC423	FP162
30▼	HD74HC423AP(A)	CMS	MON		3.15	1.35	YES		0	5.0	60n	6.0n	6.0n	500m	1.2	4	8		74HC423	DIP16a
31▼	MIC5009N	PCH	MON	2.0M	4.0	.8	Y		12	5.0	200n					0	7		C04-65	DIP16a
32▼	MIC5009P	PCH	MON	2.0M	4.0	.8	Y		12	5.0	200n					0	7		C04-65	DIP16a
33	941FM	DTL	MON		2.0			20	0	5.0	40n			54m		5	C	1	54S05W	FP21h
34♦	941HM	DTL	MON		2.0			20	0	5.0	40n			54m		5	C	1	54S05	TO-100
35♦	951DM	DTL	MON		2.5	.45C		10	0	5.0	40n			54m		5	C	1	9-51	TO-116
36	951FM	DTL	MON		2.5	.45C		10	0	5.0	40n			54m		5	C	1	9-51	FP21h
37♦	951HM	DTL	MON		2.5	.45C		20	0	5.0	40n			54m		5	C	1	9-51	TO-100
38♦	9601DC	TTL	MON		1.8	0.85		12	0	5.0	75n			100mQ		0	7	1	J04-38	DIP14a
39♦	9601DM	TTL	MON		1.7	.90		12	0	5.0	75n			100mQ		5	C	1	J04-38	DIP14a
40	9601FM	TTL	MON		1.7	.90		12	0	5.0	75n			100mQ		5	C	1	J04-38	FP106
41♦	9951BC	DTL	MON		3.2	0.5C		10	0	5.0	40n			54m		0	7	1	9-51	DIP14a
42♦	9951DC	DTL	MON		3.2	0.5C		10	0	5.0	40n			54m		0	7	1	9-51	DIP14a
43♦	9951DM	DTL	MON		2.5	.45C		10	0	5.0	40n			54m		5	C	1	9-51	DIP14b
44♦	9951FC	DTL	MON		3.2	0.5C		10	0	5.0	40n			54m		0	7	1	9-51	DIP14b
45	9951FM	DTL	MON		2.5	.45C		10	0	5.0	40n			54m		5	C	1	9-51	FP28g
46♦	54121DM	TTL	MON		2.0	0.8		10	0	5.0	20n			115m†	1.0 †	5	C	1	74-121	TO-116
47	54121FM	TTL	MON		2.0	0.8		10	0	5.0	20n			200m	1.0 †	5	C	1	54-121	FP21h
48♦	54122DM	TTL	MON		2.0	0.8		10	0	5.0	65n			140m	1.0	5	C	1	74-122	TO-116
49	54122FM	TTL	MON		2.0	0.8		10	0	5.0	65n			140m	1.0	5	C	1	54-122	FP21h
50♦	74121DC	TTL	MON		2.0Δ	0.8*		10	0	5.0	20n			200m		0	7	1	74-121	TO-116
51♦	74121PC	TTL	MON		2.0	0.8		10	0	5.0	20n			200m	1.0 †	0	7	1	74-121	DIP14a
52♦	74122DC	TTL	MON		2.0	0.8		10	0	5.0	65n			140m	1.0	0	7	1	74-122	TO-116
53♦	74122PC	TTL	MON		2.0Δ	0.8*		10	0	5.0	65n			140m		0	7	1	74-122	TO-116
54♦	DM8601J	TTL	MON		1.8	0.85			0	5.0	65n			125mQ		0	7	1	J04-38	DIP14a
55♦	DM8601N	TTL	MON		1.8	0.85			0	5.0	65n			125mQ		0	7	1	J04-38	DIP14a
56	DM8601W	TTL	MON		1.8	0.85			0	5.0	65n			125mQ		0	7	1	J04-38	FP97a
57♦	DM9601J	TTL	MON		1.7	.90			0	5.0	65n			125mQ		5	C	1	J04-38	DIP14a
58♦	DM9601N	TTL	MON		1.7	.90			0	5.0	65n			125mQ		5	C	1	J04-38	DIP14a
59	DM9601W	TTL	MON		1.7	.90			0	5.0	65n			125mQ		5	C	1	J04-38	FP97a
60♦	DM54121J	TTL	MON		3.3	.23C		10	0	5.0	50n			90m†	1.2 †	5	C	1	74-121	DIP14a
61	DM54121W	TTL	MON		3.3	.23C		10	0	5.0	50n			90m†	1.2 †	5	C	1	54-121	FP97a
62♦	DM74121J	TTL	MON		3.3	.23C		10	0	5.0	50n			90m†	1.2 †	0	7	1	74-121	DIP14a
63♦	DM74121N	TTL	MON		3.3	.23C		10	0	5.0	50n			90m†	1.2 †	0	7	1	74-121	DIP14a
64♦	FJK101-74121	TTL	MON		2.0	0.8		10	0	5.0	80n			90m†	1.0 †	0	7	1	74-121	DIP14a
65♦	H117D1	HNL	MON		8.0	6.0			0	20	600n				5.0	0	7	1	C01-14a	DIP14a
66♦	H117D6	HNL	MON		8.0	6.0			0	16	600n				5.0	4	8	1	C01-14a	DIP14a
67▼	HD74LS122G	TTL	MON		2.0Δ	0.8*	Yes		0	5.0	56n	40n#		400m	300m	2	7	1	74-122	DIP14a
68♦	HD74LS122P	TTL	MON		2.0Δ	0.8*	Yes		0	5.0	42n	40n#		400m	300m	2	7	1	74-122	DIP14a
69♦	M74LS122P	TTL	MON		2.0	0.8	Yes		0.5	7.0	5.0u				0.4	2	7	1	74-122	DIP14a
70♦	M53321P	TTL	MON		2.0	0.8		10	0	7.0	30n			115m†	1.0 †	0	7	1	74-121	DIP14a
71♦	M53322P	TTL	MON		2.0	0.8	Yes	10	0	5.0	65n			147m	1.0	0	7	1	74-122	DIP14a
72♦	MB74LS122	TTL	MON		2.0	0.8	Yes	20	0	5.0	56n			55m		2	7	1	74-122	DIP14a
73♦	MB74LS122M	TTL	MON		2.0	0.8	Yes	20	0	5.0	56n			55m		2	7	1	74-122	DIP14a
74♦	MC54HC221J(A)	CMS	MON		3.15	0.9	Yes	10	0.5	7.0				500m	1.3	5	C	1	74-221	DIP16a
75♦	MC74HC221J(A)	CMS	MON		3.15	0.9	Yes	10	0.5	7.0				500m	1.3	4	8	1	74-221	DIP16a
76♦	MC74HC221N(A)	CMS	MON		3.15	0.9	Yes	10	0.5	7.0				500m	1.3	4	8	1	74-221	DIP16b
77♦	MC951L	DTL	MON		2.6	.40		10	0	5.0	40n			30m†		5	C	1	9-51	TO-116
78▼	MC10198FN	ECT	MON		-.98	-1.6			8.0	0		4.0n	4.0n	415m†		3	8	1	C08-22	DIP16a
79♦	MC10198L	ECT	MON		-.98	-1.6			8.0	0		4.0n	4.0n	415m†		3	8	1	C08-22	DIP16a
80▼	MC10198LD	ECT	MON		-.98	-1.6			8.0	0		4.0n	4.0n	415m†		3	8	1	C08-22	DIP16a
81▼	MC10198LDS	ECT	MON		-.98	-1.6			8.0	0		4.0n	4.0n	415m†		3	8	1	C08-22	DIP16a
82♦	MC10198P	ECT	MON		-.98	-1.6			8.0	0		4.0n	4.0n	415m†		3	8	1	C08-22	DIP16b
83▼	MC10198PD	ECT	MON		-.98	-1.6			8.0	0		4.0n	4.0n	415m†		3	8	1	C08-22	DIP16b
84▼	MC10198PDS	ECT	MON		-.98	-1.6			8.0	0		4.0n	4.0n	415m†		3	8	1	C08-22	DIP16b
85♦	N8T22A	TTL	MON		2.4	.40C		8	0	5.0	40n			132m		0	7	1	74-122	TO-116
86♦	N8T22F	TTL	MON		1.9	.90		8	0	5.0	45n			125m		0	7	1	74-122	DIP14b
87♦	N8T22N	TTL	MON		1.9	0.9	Yes		0	7.0	65n				0.5	0	7	1	74-122	DIP14a
88	N74121D	TTL	MON		2.4	0.4C		10	0.5	7.0	80n	7.0n	7.0n	200m		0	7	1	74-121	FP147
89♦	N74121F	TTL	MON		2.4	.40C		10	0	5.0	20n			200m		0	7	1	74-121	DIP14b
90♦	N74121N	TTL	MON		2.4	0.4C		10	0.5	7.0	80n	7.0n	7.0n	200m		0	7	1	74-121	DIP14a
91	N74122W	TTL	MON		2.4	.40C		10	0	5.0	80n			200m		0	7	1	54-121	FP39e
92♦	N74122F	TTL	MON		2.4	.40C		10	0	5.0	65n			140m		0	7	1	74-122	DIP14b
93♦	N74122N	TTL	MON		2.4	.40C		10	0	5.0	65n			140m		0	7	1	74-122	DIP14a
94	RM988CJ	DTL	MON		2.0	1.0		10		5.0					1.0	5		1	None	FP52j
95♦	RM988DC	DTL	MON		2.0	1.0		10		5.0					1.0	5		1	None	DIP14e
96♦	S8T22F	TTL	MON		1.9	.90		8	0	5.0	45n			125m		5	C	1	74-122	DIP14b
97♦	S8T22N	TTL	MON		1.9	.90		8	0	5.0	45n			125m		5	C	1	74-122	DIP14a
98♦	S54121F	TTL	MON		2.4	0.4C		10	0.5	7.0	80n	7.0n	7.0n	200m		5	C	1	74-121	DIP14b
99♦	S54121Q	TTL	MON		2.4	.40C		10	0	5.0	80n					5	C	1	54-121	TO-88
100	S54121W	TTL	MON		2.4	0.4C		10	0.5	7.0	80n	7.0n	7.0n	200m		5	C	1	54-121	FP153
101♦	S54122F	TTL	MON		2.4	.40C		10	0	5.0	65n			140mQ		5	C	1	74-122	DIP14b
102♦	S54122Q	TTL	MON		2.4	.40C		20	0	5.0	40n					5	C	1	54-122	TO-88
103	S54122W	TTL	MON		2.4	.40C		10	0	5.0	65n			140m		5	C	1	54-122	FP39e
104	SFC951E	DTL	MON		3.2	.45		10	0	5.0						0	7	1	9-51	FP28g
105♦	SFC4121E	TTL	MON		2.0	0.8		10	0	5.0	30n			115m†	1.0 †	0	7	1	74-121	TO-116
106♦	SFC4121EM	TTL	MON		2.0	0.8		10	0	5.0	30n			115m†	1.0 †	5	C	1	74-121	TO-116
107♦	SFC4121ET	TTL	MON		2.0	0.8		10	0	5.0	30n			115m†	1.0 †	2	8	1	74-121	TO-116
108♦	SFC4121PM	TTL	MON		2.0	0.8		10	0	5.0	30n			115m†	1.0 †	5	C	1	54-121	TO-85
109♦	SFC4122E	TTL	MON		2.0	0.8	Yes	10	0	5.0	40n			154m	1.0	0	7	1	74-122	TO-116
110♦	SFC4122EM	TTL	MON		2.0	0.8	Yes	10	0	5.0	40n			154m	1.0	5	C	1	74-122	TO-116

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. CLOCKS/MULTIVIBRATORS - Monostable Multivibrator (Cont'd)

IN ORDER OF: (1) TYPE MV (2) CKTS PER PKG (3) f MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[1] TYPE MV	[3] f MAX (Hz)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	CLEAR	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG (V)	SUPPLY VOLTAGE RATED POS (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[2] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE DRAWING INDEX FOR PAGE NUMBER) OUTLINE DRAWING
1♦	SFC4122ET	TTL	MON		2.0	0.8	Yes	10	0	5.0	40n			154m	1.0	2	8	1	74-122	TO-116
2♦	SFC4122PM	TTL	MON		2.0	0.8	Yes	10	0	5.0	40n			154m	1.0	5	C	1	74-122	TO-85
3♦	SN54LS122J	TTL	MON		2.0	0.7			0	5.5	56n				0.3	5	C	1	74-122	DIP14a
4▼	SN54LS122N	TTL	MON		2.0	0.7			0	5.5	56n				0.3	5	C	1	74-122	DIP14a
5	SN74LS122D	TTL	MON		2.0	0.8			0	.25	56n	40n#			0.4	0	7	1	74-122	FP147
6♦	SN74LS122J	TTL	MON		2.0	0.8			0	.25	56n	40n#			0.4	0	7	1	74-122	DIP14a
7♦	SN74LS122N	TTL	MON		2.0	0.8			0	.25	56n	40n#			0.4	0	7	1	74-122	DIP14a
8♦	SN74LS422N	TTL	MON		2.0	0.8			0	7.0	56n	40n#			0.4	0	7	1	74-422	DIP14a
9♦	SN54121J	TTL	MON		2.0	0.8		10	0	7.0	80n	50n#		200m	0.4	5	C	1	74-121	DIP14a
10♦	SN54122J	TTL	MON		2.0	0.8			0	5.5	40n	40n#			0.4	5	C	1	74-122	DIP14a
11♦	SN74121N	TTL	MON		2.0	0.8		10	0	7.0	80n	50n#		200m	0.4	0	7	1	74-121	DIP14a
12♦	SN74122N	TTL	MON		2.0	0.8			0	.25	40n	40n#			0.4	0	7	1	74-122	DIP14a
13	SP362A	DTL	MON		3.5	.40		5	0	5.0	35n		40n†	125m		0	7	1	None	DL ☑
14♦	XR320P	TTL	MON		10.4	1.5C		62	0	12		100n†	40n†	625m		0	7	1	C01-21	DIP14a
15♦	ZN1010E	TTL	MON		2.0	0.8		10	0	5.0	35n					5	C	1	J04-42	DIP14a
16♦	ZN1010F	TTL	MON		2.0	0.8		10	0	5.0	35n					-	C	1	J04-42	TO-85
17♦	LS7210(1)	PCH	MON	160k	3.5	1.5			0	18	6.0m	3.0u#				2	7	1	J06-14	DIP14 ☑
18	SCL4047B	CMS	MON	1.0M	15.3	.45	Yes		0	12	200n	20n	20n	500m	4.0	5	C	1	40-47	DL ☑
19	74HC123D	CMS	MON		3.15	1.35	No	10		5.0	54n	6n	6n		1.2	4		2	74-123	FP162
20♦	74HC123N	CMS	MON		3.15	1.35	No	10		5.0	54n	6n	6n		1.2	4		2	74-123	DIP16b
21	74HC221D	CMS	MON		3.15	1.35	NO			5.0	30n				1.2	0		2	74-221	FP162
22♦	74HC221N	CMS	MON		3.15	1.35	NO			5.0	30n				1.2	0		2	74-221	DIP16b
23	74HC423D	CMS	MON		3.15	1.35	No	10		5.0	54n	6n	6n		1.2	4		2	74HC423	FP162
24♦	74HC423N	CMS	MON		3.15	1.35	No	10		5.0	54n	6n	6n		1.2	4		2	74HC423	DIP16b
25	74HC4538D	CMS	MON		3.15	1.35	No	10		5.0	54n	6n	6n		1.2	4		2	45-38	FP162
26♦	74HC4538N	CMS	MON		3.15	1.35	No	10		5.0	54n	6n	6n		1.2	4		2	45-38	DIP16b
27	74HCT123D	CMS	MON		2.0	0.8	No	10		5.0	64n	6n	6n		0.7	4		2	74-123	FP162
28♦	74HCT123N	CMS	MON		2.0	0.8	No	10		5.0	64n	6n	6n		0.7	4		2	74-123	DIP16b
29	74HCT221D	CMS	MON		2.0	0.8	NO			5.0	30n				0.7	0		2	74-221	FP162
30♦	74HCT221N	CMS	MON		2.0	0.8	NO			5.0	30n				0.7	0		2	74-221	DIP16b
31	74HCT423D	CMS	MON		2.0	0.8	No	10		5.0	64n	6n	6n		0.7	4		2	74HC423	FP162
32♦	74HCT423N	CMS	MON		2.0	0.8	No	10		5.0	64n	6n	6n		0.7	4		2	74HC423	DIP16b
33	74HCT4538D	CMS	MON		2.0	0.8	No	10		5.0	75n	6n	6n		0.7	4		2	45-38	FP162
34♦	74HCT4538N	CMS	MON		2.0	0.8	No	10		5.0	75n	6n	6n		0.7	4		2	45-38	DIP16b
35♦	96L02DC	TTL	MON		2.0	.70		6	0	5.0	110n			80mQ	300m	0	7	2	45-28	DIP16a
36♦	96L02DM	TTL	MON		2.0	.70		6	0	5.0	110n			80mQ	300m	5	C	2	45-28	DIP16a
37	96L02FM	TTL	MON		2.0	.70		6	0	5.0	110n			80mQ	300m	5	C	2	45-28	FP103
38	96L02PC	TTL	MON		2.0	.70		6	0	5.0	110n			80mQ	300m	0	7	2	45-28	None
39♦	96LS02DC	TTL	MON		2.0	0.8		22	0	5.0	38n			180mQ		0	7	2	45-28	DIP16a
40♦	96LS02DM	TTL	MON		2.0	.70		11	0	5.0	38n			180mQ		5	C	2	45-28	DIP16a
41	96LS02FM	TTL	MON		2.0	.70		11	0	5.0	38n			180mQ		5	C	2	45-28	FP103
42	96LS02PC	TTL	MON		2.0	0.8		22	0	5.0	38n			180mQ		0	7	2	45-28	None
43♦	96S02DC	TTL	MON		2.0	0.8		10	0	5.0	27n			350mQ	300m	0	7	2	45-28	DIP16a
44	96S02PC	TTL	MON		2.0	0.8		10	0	5.0	27n			350mQ	300m	0	7	2	45-28	None
45	883C4528B	CMS	MON		8.2	6.7	Yes		0	15	70n			300m		5	C	2	45-28	MO001AG
46♦	941DM	DTL	MON		2.0	0.85		20	0	5.0	250n			500m	450m	0	7	2	74-05N	TO-116
47♦	4528BDC	CMS	MON		11	4.0	Yes		0	15	45n				6.7	4	8	2	45-28	DIP16a
48♦	4528BDM	CMS	MON		11	4.0	Yes		0	15	45n				6.7	5	C	2	45-28	DIP16a
49	4528BFC	CMS	MON		11	4.0	Yes		0	15	45n				6.7	4	8	2	45-28	FP103
50	4528BFM	CMS	MON		11	4.0	Yes		0	15	45n				6.7	5	C	2	45-28	FP103
51	4528BPC	CMS	MON		11	4.0	Yes		0	15	45n				6.7	4	8	2	45-28	None
52♦	9601PC	TTL	MON		2.0	0.8		24	0	5.0	40n			125m		0	7	2	C08-02	DIP14a
53♦	9602DC	TTL	MON		1.9	0.85		7	0	5.0	100n			260mQ	400m	0	7	2	45-28	DIP16a
54♦	9602DM	TTL	MON		2.0	0.85		7	0	5.0	90n			245mQ	400m	5	C	2	45-28	DIP16a
55	9602FM	TTL	MON		2.0	0.85		7	0	5.0	90n			245mQ	400m	5	C	2	45-28	FP103
56	9602PC	TTL	MON		1.9	0.85		7	0	5.0	100n			260mQ		0	7	2	45-28	None
57♦	54123DM	TTL	MON		2.0	0.8	Yes	10	0	5.0	45n			363m	1.0	5	C	2	54-123	DIP16a
58	54123FM	TTL	MON		2.0	0.8	Yes	10	0	5.0	45n			330mQ	1.0	5	C	2	54-123	FP103
59♦	74123DC	TTL	MON		2.0	0.8	Yes	10	0	5.0	45n			330mQ	1.0	0	7	2	74-123	DIP16a
60	74123PC	TTL	MON		2.0	0.8	Yes	10	0	5.0	45n			330mQ	1.0	0	7	2	74-123	None
61♦	AM26S02DC	TTL	MON		2.0	0.8			0	5.0	23n			375m		0	7	2	45-28	DIP16a
62♦	AM26S02PC	TTL	MON		2.0	0.8			0	5.0	23n			375m		0	7	2	45-28	DIP16a
63	BCL4528B	CMS	MON		8.2	6.7	Yes		0	15	70n			300m		5	C	2	45-28	MO001AG
64▼	BU4538B	CMS	MON		7.0	3.0		e	0	10		90n†	50n†	550m	2.9	4	8	2	45-28B	DIP16c
65▼	BU4538BF	CMS	MON		7.0	3.0		e	0	10		90n†	50n†	550m	2.9	4	8	2	45-28B	FP162
66	CD54HC123F	CMS	MON		3.85	1.10	Yes		0	7.0				500m	1.0	5	C	2	74-123	MO001AG
67	CD54HC221F	CMS	MON		3.15	1.35	Yes	10	0	7.0		6.0n	6.0n	500m	1.7	5	C	2	74-221	MS001a
68	CD54HC423F(A)	CMS	MON		3.15	1.35	Yes	10	0	7.0				500m	1.7	5	C	2	74-123	MS001a
69	CD54HC4538F	CMS	MON		3.15	1.35	Yes	10	0	7.0	75n	6.0n	6.0n	500m	1.7	5	C	2	45-28	MS001a
70	CD54HCT123F	CMS	MON		2.00	0.80	Yes		0	7.0				500m	2.4	5	C	2	74-123	MO001AG
71	CD54HCT221F	CMS	MON		2.0	0.8	Yes	10	0	7.0		6.0n	6.0n	500m	2.4	5	C	2	74-221	MS001a
72	CD54HCT423F(A)	CMS	MON		2.0	0.8	Yes	10	0	7.0				500m	2.4	5	C	2	74-123	MS001a
73	CD54HCT4538F	CMS	MON		2.00	0.80	Yes	10	0	7.0	90n	6.0n	6.0n	500m	2.4	5	C	2	45-28	MS001a
74♦	CD74HC123E	CMS	MON		3.85	1.10	Yes		0	7.0				500m	1.0	4	8	2	74-123	DIP16b
75	CD74HC123M(A)	CMS	MON		3.15	1.35	Yes	10	0	7.0				300m	1.7	4	8	2	54-123	FP148
76	CD74HC221E	CMS	MON		3.15	1.35	Yes	10	0	7.0		6.0n	6.0n	500m	1.7	4	8	2	74-221	MS001a
77	CD74HC221M	CMS	MON		3.15	1.35	Yes	10	0	7.0		6.0n	6.0n	300m	1.7	4	8	2	54-221	FP148
78	CD74HC423E(A)	CMS	MON		3.15	1.35	Yes	10	0	7.0				500m	1.7	4	8	2	74-123	MS001a
79	CD74HC423M(A)	CMS	MON		3.15	1.35	Yes	10	0	7.0				300m	1.7	4	8	2	54-123	FP148
80	CD74HC4538E	CMS	MON		3.15	1.35	Yes	10	0	7.0	63n	6.0n	6.0n	500m	1.7	4	8	2	45-28	MS001a
81	CD74HC4538M	CMS	MON		3.15	1.35	Yes	10	0	7.0	63n	6.0n	6.0n	300m	1.7	4	8	2	45-28	FP148
82♦	CD74HCT123E	CMS	MON		2.00	0.80	Yes		0	7.0				500m	2.4	4	8	2	74-123	DIP16b
83	CD74HCT123M(A)	CMS	MON		2.05	0.8	Yes	10	0	7.0				300m	2.4	4	8	2	54-123	FP148
84	CD74HCT221E	CMS	MON		2.0	0.8	Yes	10	0	7.0		6.0n	6.0n	500m	2.4	4	8	2	74-221	MS001a
85	CD74HCT221M	CMS	MON		2.0	0.8	Yes	10	0	7.0		6.0n	6.0n	300m	2.4	4	8	2	54-221	FP148
86	CD74HCT423E(A)	CMS	MON		2.0	0.8	Yes	10	0	7.0				500m	2.4	4	8	2	74-123	MS001a
87	CD74HCT423M(A)	CMS	MON		2.0	0.8	Yes	10	0	7.0				300m	2.4	4	8	2	54-123	FP148
88♦	CD74HCT4538E	CMS	MON		2.00	0.80	Yes		0	7.0		6.0n	6.0n	500m	2.4	4	8	2	45-28	DIP16b
89	CD74HCT4538M	CMS	MON		2.0	0.8	Yes	10	0	7.0	75n	6.0n	6.0n	300m	2.4	4	8	2	45-28	FP148
90	CD4098BD	CMS	MON		11	4.0			0	15	1.0u			500m	4.0	5	C	2	40-98	MO001AE
91	CD4098BE	CMS	MON		11	4.0			0	15	1.0u			500m	4.0	4	8	2	40-98	MO001AC
92	CD4098BF	CMS	MON		11	4.0			0	15	1.0u			500m	4.0	5	C	2	40-98	MO001AC
93♦	CD4538BD	CMS	MON		7.0	3.0	Yes	37e	0	20	300n	20n	20n	500m	2.9	5	C	2	45-28	MO001AE
94♦	CD4538BE	CMS	MON		7.0	3.0	Yes	37e	0	20	300n	20n	20n	500m	2.9	4	8	2	45-28	MO001AC
95♦	CD4538BF	CMS	MON		7.0	3.0	Yes	37e	0	20	300n	20n	20n	500m	2.9	5	C	2	45-28	MO001AC
96♦	DM74L123N	TTL	MON		2.4	0.4	Yes	10	0	5.0	65n			363m	1.0	0	7	2	74-123	DIP16a
97♦	DM74LS221N	TTL	MON		2.0	0.8	Yes	10	0	7.0	80n					0	7	2	74-221	DIP16a
98♦	DM7853J	TTL	MON		2.0	0.8			0	5.0	100n			360mQ		5	C	2	74-123	DIP16a
99	DM7853W	TTL	MON		2.0	0.8			0	5.0	100n			360mQ		5	C	2	54-123	FP88a
100♦	DM8602J	TTL	MON		1.8	0.85			0	5.0	110n			250mQ		0	7	2	45-28	DIP16a
101♦	DM8602N	TTL	MON		1.8	0.85			0	5.0	110n			250mQ		0	7	2	45-28	DIP16a
102	DM8602W	TTL	MON		1.8	0.85			0	5.0	110n			250mQ		0	7	2	45-28	FP88a
103♦	DM8853J	TTL	MON		2.0	0.8			0	5.0	110n			360mQ		0	7	2	74-123	DIP16a
104♦	DM8853N	TTL	MON		2.0	0.8			0	5.0	110n			360mQ		0	7	2	74-123	DIP16a
105	DM8853W	TTL	MON		2.0	0.8			0	5.0	110n			360mQ		0	7	2	54-123	FP88a
106♦	DM9602J	TTL	MON		1.7	.90	Yes		0	5.0	100n			225mQ		5	C	2	45-28	DIP16a
107♦	DM9602N	TTL	MON		1.7	.90	Yes		0	5.0	100n			225mQ		5	C	2	45-28	DIP16a
108	DM9602W	TTL	MON		1.7	.90	Yes		0	5.0	100n			225mQ		5	C	2	45-28	FP88a
109♦	DM54123J	TTL	MON		2.0	0.8	Yes			5.0	40n				0.4	5	C	2	54-123	DIP16b
110♦	DM74123N	TTL	MON		2.4	0.4	Yes	10	0	5.0	65n			363m	1.0	0	7	2	74-123	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. CLOCKS/MULTIVIBRATORS - Monostable Multivibrator (Cont'd)

IN ORDER OF: (1) TYPE MV (2) CKTS PER PKG (3) f MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[1] T M V P E	[3] f MAX (Hz)	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	C L E A R	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG (V)	POS (V)	tpd MAX (s)	OUTPUT tr MAX (s)	tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[2] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	DN74LS123P2	TTL	MON		2.0	0.8	Yes	20	0.5	7.0	20n			400	700m	2	7	2	74-123	DIP16a
2	DN74LS123P5	TTL	MON		2.0	0.8	Yes	20	0.5	7.0	20n			400	700m	2	7	2	74-123	FP178
3	HCC4098BD	CMS	MON		10	.01C			0	10	75n				4.5	5	C	2	40-98	MO001AE
4	HCC4098BF	CMS	MON		10	.01C			0	10	75n				4.5	5	C	2	40-98	MO001AC
5	HCC4098BK	CMS	MON		10	.01C			0	10	75n				4.5	5	C	2	40-98	MO004AG
6	HCF4098BE	CMS	MON		10	.01C			0	10	75n				4.5	4	8	2	40-98	MO001AC
7	HCF4098BF	CMS	MON		10	.01C			0	10	75n				4.5	4	8	2	40-98	MO001AC
8♦	HD74HC123	CMS	MON		4.2	1.8	Yes		0	7.0	380n	6.0n	6.0n	500m	1.4	4	8	2	74-123	DIP16a
9▼	HD74HC221AFP(A)	CMS	MON		3.15	1.35	YES		0	5.0	45n	6.0n	6.0n	500m	1.2	4	8	2	74-221N	FP162
10▼	HD74HC221AP(A)	CMS	MON		3.15	1.35	YES		0	5.0	45n	6.0n	6.0n	500m	1.2	4	8	2	74-221N	DIP16a
11▼	HD74HC4538FP	CMS	MON		3.15	1.35	Yes		0	5.0	22n	6.0n	6.0n	500m	1.2	4	8	2	45-28	FP162
12▼	HD74HC4538P	CMS	MON		3.15	1.35	Yes		0	5.0	22n	6.0n	6.0n	500m	1.2	4	8	2	45-28	DIP16a
13▼	HD74LS123G	TTL	MON		2.0Δ	0.8*	Yes		0	5.0	56n	40n#		400m	300m	2	7	2	74-123	DIP16a
14♦	HD74LS123P	TTL	MON		2.0Δ	0.8*	Yes		0	5.0	42n	40n#		400m	300m	2	7	2	74-123	DIP16a
15▼	HD74LS221G	TTL	MON		2.0Δ	0.8*	Yes		0	5.0	80n	30n#		400m	1.2 †	2	7	2	74-221	DIP16a
16♦	HD74LS221P	TTL	MON		2.0Δ	0.8*	Yes		0	5.0	65n	30n#		400m	1.2 †	2	7	2	74-221	DIP16a
17♦	HEF4528B	CMS	MON		10	.05C	Yes		0	10	175n					4	8	2	45-28	DIP16b
18♦	HEF4528BD	CMS	MON		7.0	3.0	Yes		0	10	100n	60n	60n	500m	2.9 †	4	8	2	45-28	DIP16b
19♦	HEF4528BP	CMS	MON		7.0	3.0	Yes		0	10	100n	60n	60n	500m	2.9 †	4	8	2	45-28	DIP16b
20♦	HEF4528BT	CMS	MON		7.0	3.0	Yes		0	10	100n	60n	60n	400m	2.9 †	4	8	2	45-28	FP148
21♦	HEF4538BD	CMS	MON		7.0	3.0	Yes		0	10	190n	60n	60n	500m	2.9 †	4	8	2	45-28	DIP16b
22♦	HEF4538BP	CMS	MON		7.0	3.0	Yes		0	10	190n	60n	60n	500m	2.9 †	4	8	2	45-28	DIP16b
23♦	HEF4538BT	CMS	MON		7.0	3.0	Yes		0	10	190n	60n	60n	400m	2.9 †	4	8	2	45-28	FP148
24	HEF4538BTD	CMS	MON		11.0	4.0	Yes	50e	0	15	40n			200m	6.7 †	4	8	2	45-28	FP148
25	K155AG1	TTL	MON		2.4	0.4			0	5.0		70n	80n			1	7	2	None	None
26♦	LC4528B	CMS	MON		3.5	1.5	Yes		0	20				300m		4	8	2	45-28	DIP16a
27▼	M54HC123F1	CMS	MON		3.15	1.35	Yes			5.0						5	C	2	54-123	DIP16d
28▼	M54HC221F1	CMS	MON		3.15	1.35	Yes			5.0						5	C	2	54-221	DIP16a
29▼	M54HC423F1	CMS	MON		3.15	1.35	Yes			5.0						5	C	2	54LS423W	DIP16a
30▼	M54HC4538F1(A)	CMS	MON				Yes											2	45-28B	DIP16a
31▼	M74HC123B1	CMS	MON		3.15	1.35	Yes			5.0						4	8	2	74-123	DIP16d
32▼	M74HC123C1	CMS	MON		3.15	1.35	Yes			5.0						4	8	2	C08-18	LC19
33▼	M74HC123F1	CMS	MON		3.15	1.35	Yes			5.0						4	8	2	74-123	DIP16d
34▼	M74HC221B1	CMS	MON		3.15	1.35	Yes			5.0						4	8	2	74-221N	DIP16a
35▼	M74HC221C1	CMS	MON		3.15	1.35	Yes			5.0						4	8	2	C08-19	LC19
36▼	M74HC221F1	CMS	MON		3.15	1.35	Yes			5.0						4	8	2	74-221N	DIP16a
37▼	M74HC423B1	CMS	MON		3.15	1.35	Yes			5.0						4	8	2	74HC423	DIP16a
38▼	M74HC423C1	CMS	MON		3.15	1.35	Yes			5.0						4	8	2	C08-20	LC19
39▼	M74HC423F1	CMS	MON		3.15	1.35	Yes			5.0						4	8	2	74HC423	DIP16a
40▼	M74HC4538B1(A)	CMS	MON				Yes											2	45-28B	DIP16a
41▼	M74HC4538C1(A)	CMS	MON				Yes											2	C08-21	DIP16a
42▼	M74HC4538F1(A)	CMS	MON				Yes											2	45-28B	DIP16a
43♦	M74LS123P	TTL	MON		2.0	0.8	Yes		0.5	7.0	5.0u				0.4	2	7	2	74-123	DIP16b
44♦	M74LS221P	TTL	MON		2.0	0.8	Yes		0.5	7.0	7.5m				0.4	2	7	2	74-221	DIP16b
45♦	M74LS423P	TTL	MON		2.0	0.8	Yes		0.5	7.0	5.0u				0.4	2	7	2	74HC423	DIP16b
46♦	M4528BP	CMS	MON		11.0	4.0	Yes	50	0	15		160n	80n	0.5	4.0 *	4	8	2	45-28	DIP16b
47♦	M4538BP	CMS	MON		11.0	4.0	Yes	50	0	15		160n	80n	0.5	4.0 *	4	8	2	45-28	DIP16b
48♦	M53323P	TTL	MON		2.4	0.4	Yes	10	0	5.0	65n			347m	1.0	0	7	2	74-123	DIP16a
49♦	MB74LS123	TTL	MON		2.0	0.8	Yes	20	0	5.0	56n			100m		2	7	2	74-123	DIP16a
50♦	MB74LS123M	TTL	MON		2.0	0.8	Yes	20	0	5.0	56n			100m		2	7	2	74-123	DIP16b
51♦	MB74LS221	TTL	MON		2.0	0.8		20	0	5.0	80n			135m		2	7	2	74-221N	DIP16a
52♦	MB74LS221M	TTL	MON		2.0	0.8		20	0	5.0	80n			135m		2	7	2	74-221N	DIP16b
53♦	MB440	TTL	MON		2.4	0.4	Yes	10	0	5.0				220m		0	7	2	74-123	DIP16b
54♦	MB440M	TTL	MON		2.4	0.4	Yes	10	0	5.0				220m		0	7	2	74-123	DIP16b
55♦	MC54HC4538J(A)	CMS	MON		3.8	1.1	Yes		0	6.0	45n			500m		5	C	2	45-28	DIP16a
56♦	MC74HC4538J(A)	CMS	MON		3.8	1.1	Yes		0	6.0	45n	-		500m		4	8	2	45-28	DIP16a
57♦	MC74HC4538N(A)	CMS	MON		3.8	1.1	Yes		0	6.0	45n			500m		4	8	2	45-28	DIP16b
58▼	MC667L	DTL	MON		12.5	1.5C		10	0	15	140n			240m		3	7	2	J04-40	TO-116
59▼	MC667P	DTL	MON		12.5	1.5C		10	0	15	140n			240m		3	7	2	J04-40	DIP14a
60♦	MC14528BAL	CMS	MON		11	4.0	Yes		0	15	400n	110n	55n		2.5	5	C	2	45-28	DIP16a
61▼	MC14528BALD	CMS	MON		11	4.0	Yes		0	15	400n	110n	55n		2.5	5	C	2	45-28	DIP16a
62▼	MC14528BALDS	CMS	MON		11	4.0	Yes		0	15	400n	110n	55n		2.5	5	C	2	45-28	DIP16a
63▼	MC14528BALS	CMS	MON		11	4.0	Yes		0	15	400n	110n	55n		2.5	5	C	2	45-28	DIP16a
64♦	MC14528BCL	CMS	MON		11	4.0	Yes		0	15	400n	160n	80n		2.5	4	8	2	45-28	DIP16a
65▼	MC14528BCLD	CMS	MON		11	4.0	Yes		0	15	400n	160n	80n		2.5	4	8	2	45-28	DIP16a
66▼	MC14528BCLDS	CMS	MON		11	4.0	Yes		0	15	400n	160n	80n		2.5	4	8	2	45-28	DIP16a
67▼	MC14528BCLS	CMS	MON		11	4.0	Yes		0	15	400n	160n	80n		2.5	4	8	2	45-28	DIP16a
68♦	MC14528BCP	CMS	MON		11	4.0	Yes		0	15	400n	160n	80n		2.5	4	8	2	45-28	DIP16a
69▼	MC14528BCPD	CMS	MON		11	4.0	Yes		0	15	400n	160n	80n		2.5	4	8	2	45-28	DIP16a
70▼	MC14528BCPDS	CMS	MON		11	4.0	Yes		0	15	400n	160n	80n		2.5	4	8	2	45-28	DIP16a
71▼	MC14528BCPS	CMS	MON		11	4.0	Yes		0	15	400n	160n	80n		2.5	4	8	2	45-28	DIP16a
72▼	MC14528BD	CMS	MON		11	4.0	Yes		0	15	400n	160n	80n		2.5	4	8	2	45-28	DIP16a
73♦	MC14538BAL	CMS	MON		11	4.0	Yes		0	15	100n	80n	80n		2.5	4	8	2	45-28	DIP16a
74▼	MC14538BALD	CMS	MON		11	4.0	Yes		0	15	100n	80n	80n		2.5	4	8	2	45-28	DIP16a
75▼	MC14538BALDS	CMS	MON		11	4.0	Yes		0	15	100n	80n	80n		2.5	4	8	2	45-28	DIP16a
76▼	MC14538BALS	CMS	MON		11	4.0	Yes		0	15	100n	80n	80n		2.5	4	8	2	45-28	DIP16a
77♦	MC14538BCL	CMS	MON		11	4.0	Yes		0	15	100n	80n	80n		2.5	5	C	2	45-28	DIP16a
78▼	MC14538BCLD	CMS	MON		11	4.0	Yes		0	15	100n	80n	80n		2.5	5	C	2	45-28	DIP16a
79▼	MC14538BCLDS	CMS	MON		11	4.0	Yes		0	15	100n	80n	80n		2.5	5	C	2	45-28	DIP16a
80▼	MC14538BCLS	CMS	MON		11	4.0	Yes		0	15	100n	80n	80n		2.5	5	C	2	45-28	DIP16a
81♦	MC14538BCP	CMS	MON		11	4.0	Yes		0	15	100n	80n	80n		2.5	0	7	2	45-28	DIP16a
82▼	MC14538BCPD	CMS	MON		11	4.0	Yes		0	15	100n	80n	80n		2.5	0	7	2	45-28	DIP16a
83▼	MC14538BCPDS	CMS	MON		11	4.0	Yes		0	15	100n	80n	80n		2.5	0	7	2	45-28	DIP16a
84▼	MC14538BCPS	CMS	MON		11	4.0	Yes		0	15	100n	80n	80n		2.5	0	7	2	45-28	DIP16a
85▼	MC14538BDW	CMS	MON		11	4.0	Yes		0	15	100n	80n	80n		2.5	0	7	2	45-28	DIP16a
86♦	MM54C221D	CMS	MON		3.5	1.5	Yes			15	250n				450m	5	C	2	74-221	DIP16a
87♦	MM54HC123J	CMS	MON		4.2	1.2	Yes		0.5	7.0	400n	6.0n†	6.0n†	500m	1.7	5	C	2	54-123	DIP16a
88♦	MM54HC221J	CMS	MON		4.2	1.2	Yes		0.5	7.0	400n	6.0n†	6.0n†	500m	1.7	5	C	2	54-221	DIP16a
89♦	MM54HC423J	CMS	MON		4.2	1.2	Yes		0.5	7.0	400n	6.0n†	6.0n†	500m	1.7	5	C	2	74HC423	DIP16a
90♦	MM54HC4538J	CMS	MON		4.2	1.2	Yes		0.5	7.0	20n	6.0n†	6.0n†	500m	1.7	5	C	2	45-28	DIP16a
91♦	MM74C221N	CMS	MON		3.5	1.5	Yes			15	250n				450m	5	C	2	74-221	DIP16a
92♦	MM74HC123J	CMS	MON		4.2	1.2	Yes		0	7.0	400n	6.0n†	6.0n†	500m	1.7	4	8	2	74-123	DIP16a
93♦	MM74HC123N	CMS	MON		4.2	1.2	Yes		0	7.0	400n	6.0n†	6.0n†	500m	1.7	4	8	2	74-123	DIP16a
94♦	MM74HC221J	CMS	MON		4.2	1.2	Yes		0	7.0	400n	6.0n†	6.0n†	500m	1.7	4	8	2	74-221	DIP16a
95♦	MM74HC221N	CMS	MON		4.2	1.2	Yes		0	7.0	400n	6.0n†	6.0n†	500m	1.7	4	8	2	74-221	DIP16a
96♦	MM74HC423J	CMS	MON		4.2	1.2	Yes		0	7.0	400n	6.0n†	6.0n†	500m	1.7	4	8	2	74HC423	DIP16a
97♦	MM74HC423N	CMS	MON		4.2	1.2	Yes		0	7.0	400n	6.0n†	6.0n†	500m	1.7	4	8	2	74HC423	DIP16a
98♦	MM74HC4538J	CMS	MON		4.2	1.2	Yes		0	7.0	17n	6.0n†	6.0n†	500m	1.7	4	8	2	45-28	DIP16a
99♦	MM74HC4538N	CMS	MON		4.2	1.2	Yes		0	7.0	17n	6.0n†	6.0n†	500m	1.7	4	8	2	45-28	DIP16a
100♦	MN4528B	CMS	MON		11.0	4.0	Yes		0	15	30n	60n	60n	400m	3.9	4	8	2	45-28	DIP16a
101♦	N74LS123AF	TTL	MON		2.0	0.8	Yes	10	0.5	7.0					0.3	0	7	2	74-123	DIP16 ☑
102♦	N74LS123AN	TTL	MON		2.0	0.8	Yes	10	0.5	7.0					0.3	0	7	2	74-123	DIP16 ☑
103♦	N74LS221F	TTL	MON		2.4	.40C		20	0	5.0	20n			135m		0	7	2	74-221	DIP16b
104♦	N74LS221N	TTL	MON		2.4	.40C		20	0	5.0	20n			135m		0	7	2	74-221	DIP16a
105♦	N9602B	TTL	MON		1.65	0.85	Yes	10	0	5.0	48n			260mQ	1.0	0	7	2	45-28	DIP16a
106♦	N9602F	TTL	MON		1.65	0.85	Yes	10	0	5.0	48n			260mQ	1.0	0	7	2	45-28	DIP16b
107	N9602W	TTL	MON		1.65	0.85	Yes	10	0	5.0	48n			260mQ	1.0	0	7	2	45-28	FP47g
108	N74123D	TTL	MON		2.4	0.4C	Yes	10	0.5	7.0	40n	7.0n	7.0n	200m		0	7	2	74-123	FP148
109♦	N74123F	TTL	MON		2.4	.40C		10	0	5.0	65n			330m		0	7	2	74-123	DIP16b
110♦	N74123N	TTL	MON		2.4	0.4C	Yes	10	0.5	7.0	40n	7.0n	7.0n	200m		0	7	2	74-123	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

IN ORDER OF: (1) TYPE MV (2) CKTS PER PKG (3) f MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[1] T M Y V P E	[3] f MAX (Hz)	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	C L E A R	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG (V)	POS (V)	tpd MAX (s)	OUTPUT tr MAX (s)	tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[2] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1	N74221D	TTL	MON		2.4	0.4C	Yes	10	0.5	7.0	80n	7.0n	7.0n	400m		0	7	2	74-221	FP148
2♦	N74221F	TTL	MON		2.4	.40C		10	0	5.0	20n			400m		0	7	2	74-221	DIP16b
3♦	N74221N	TTL	MON		2.4	0.4C	Yes	10	0.5	7.0	80n	7.0n	7.0n			0	7	2	74-221	DIP16a
4♦	PC54HC123D(A)	CMS	MON		3.15	0.9	Yes	10	0	7.0	105n	6.0n	6.0n	500m	0.8	5	C	2	74-123	DIP16b
5♦	PC54HC221D(A)	CMS	MON		3.15	0.9	Yes	10	0	7.0	30n	6.0n	6.0n	500m	0.8	5	C	2	74-221	DIP16b
6♦	PC54HC423D(A)	CMS	MON		3.15	0.9	Yes	10	0	7.0	105n	6.0n	6.0n	500m	0.8	5	C	2	74HC423	DIP16b
7♦	PC54HC4538D(A)	CMS	MON		3.15	0.9		10	0	7.0	23n	6.0n	6.0n	500m	0.8	5	C	2	45-38	DIP16b
8♦	PC54HCT123D(A)	CMS	MON		2.0	0.8	Yes	10	0	7.0	105n	6.0n	6.0n	500m	0.7	5	C	2	74-123	DIP16b
9♦	PC54HCT221D(A)	CMS	MON		2.0	0.8	Yes	10	0	7.0	32n	6.0n	6.0n	500m	0.7	5	C	2	74-221	DIP16b
10♦	PC54HCT423D(A)	CMS	MON		2.0	0.8	Yes	10	0	7.0	105n	6.0n	6.0n	500m	0.7	5	C	2	74HC423	DIP16b
11♦	PC54HCT4538D(A)	CMS	MON		2.0	0.8		10	0	7.0	25n	6.0n	6.0n	500m	0.7	5	C	2	45-38	DIP16b
12♦	PC74HC123D(A)	CMS	MON		3.15	0.9	Yes	10	0	7.0	88n	6.0n	6.0n	500m	0.8	4	8	2	74-123	DIP16b
13♦	PC74HC123P	CMS	MON		3.15	1.35	Yes	10	0	5.0	77n	6.0n	6.0n	500m	0.8	4	C	2	74-123	DIP16b
14	PC74HC123T	CMS	MON		3.15	1.35	Yes	10	0	5.0	77n	6.0n	6.0n	300m	0.8	4	C	2	74-123	FP148
15♦	PC74HC221D(A)	CMS	MON		3.15	0.9	Yes	10	0	7.0	30n	6.0n	6.0n	500m	0.8	4	8	2	74-221	DIP16b
16♦	PC74HC221P	CMS	MON		3.15	1.35	Yes	10	0	5.0	30n	6.0n	6.0n	500m	0.8	4	C	2	74-221	DIP16b
17	PC74HC221T	CMS	MON		3.15	1.35	Yes	10	0	5.0	30n	6.0n	6.0n	300m	0.8	4	C	2	74-221	FP148
18♦	PC74HC423D(A)	CMS	MON		3.15	0.9	Yes	10	0	7.0	88n	6.0n	6.0n	500m	0.8	4	8	2	74HC423	DIP16b
19♦	PC74HC423P	CMS	MON		3.15	1.35	Yes	10	0	5.0	77n	6.0n	6.0n	500m	0.8	4	C	2	74HC423	DIP16b
20	PC74HC423T	CMS	MON		3.15	1.35	Yes	10	0	5.0	77n	6.0n	6.0n	300m	0.8	4	C	2	74HC423	FP148
21♦	PC74HC4538D(A)	CMS	MON		3.15	0.9		10	0	7.0	23n	6.0n	6.0n	500m	0.8	4	8	2	45-38	DIP16b
22♦	PC74HC4538P	CMS	MON		3.15	1.35	Yes	10	0	5.0	75n	6.0n	6.0n	500m	0.8	4	C	2	45-38	DIP16b
23	PC74HC4538T	CMS	MON		3.15	1.35	Yes	10	0	5.0	75n	6.0n	6.0n	300m	0.8	4	C	2	45-38	FP148
24♦	PC74HCT123D(A)	CMS	MON		2.0	0.8	Yes	10	0	7.0	105n	6.0n	6.0n	500m	0.7	4	8	2	74-123	DIP16b
25♦	PC74HCT123P	CMS	MON		2.0	0.8	Yes	10	0	5.0	77n	6.0n	6.0n	500m	0.7	4	C	2	74-123	DIP16b
26	PC74HCT123T	CMS	MON		2.0	0.8	Yes	10	0	5.0	77n	6.0n	6.0n	300m	0.7	4	C	2	74-123	FP148
27♦	PC74HCT221D(A)	CMS	MON		2.0	0.8	Yes	10	0	7.0	32n	6.0n	6.0n	500m	0.7	4	8	2	74-221	DIP16b
28♦	PC74HCT221P	CMS	MON		2.0	0.8	Yes	10	0	5.0	32n	6.0n	6.0n	500m	0.7	4	C	2	74-221	DIP16b
29	PC74HCT221T	CMS	MON		2.0	0.8	Yes	10	0	5.0	32n	6.0n	6.0n	300m	0.7	4	C	2	74-221	FP148
30♦	PC74HCT423D(A)	CMS	MON		2.0	0.8	Yes	10	0	7.0	88n	6.0n	6.0n	500m	0.7	4	8	2	74HC423	DIP16b
31♦	PC74HCT423P	CMS	MON		2.0	0.8	Yes	10	0	5.0	77n	6.0n	6.0n	500m	0.7	4	C	2	74HC423	DIP16b
32	PC74HCT423T	CMS	MON		2.0	0.8	Yes	10	0	5.0	77n	6.0n	6.0n	300m	0.7	4	C	2	74HC423	FP148
33♦	PC74HCT4538D(A)	CMS	MON		2.0	0.8		10	0	7.0	25n	6.0n	6.0n	500m	0.7	4	8	2	45-38	DIP16b
34♦	PC74HCT4538P	CMS	MON		2.0	0.8	Yes	10	0	5.0	90n	6.0n	6.0n	500m	0.7	4	C	2	45-38	DIP16b
35	PC74HCT4538T	CMS	MON		2.0	0.8	Yes	10	0	5.0	90n	6.0n	6.0n	300m	0.7	4	C	2	45-38	FP148
36♦	S54LS123AF	TTL	MON		2.4	.40C			0	5.0	65n			100m		5	C	2	74-123	DIP16b
37	S54LS123AW	TTL	MON		2.4	.40C			0	5.0	65n			100m		5	C	2	54-123	FP47g
38♦	S54LS221F	TTL	MON		2.4	.40C			0	5.0	20n			135m		5	C	2	74-221	DIP16b
39	S54LS221W	TTL	MON		2.4	.40C			0	5.0	20n			135m		5	C	2	54-221	FP47g
40♦	S9602B	TTL	MON		1.65	0.85	Yes	10	0	5.0	43n			225mQ	1.0	5	C	2	45-28	DIP16a
41♦	S9602F	TTL	MON		1.65	0.85	Yes	10	0	5.0	43n			225mQ	1.0	5	C	2	45-28	DIP16b
42	S9602W	TTL	MON		1.65	0.85	Yes	10	0	5.0	43n			225mQ	1.0	5	C	2	45-28	FP47g
43♦	S54123E	TTL	MON		2.0	0.8		20	0	5.0	40n			330mQ		5	C	2	74-123	DIP16a
44♦	S54123F	TTL	MON		2.4	0.4C	Yes	10	0.5	7.0	40n	7.0n	7.0n	200m		5	C	2	74-123	DIP16b
45	S54123W	TTL	MON		2.4	0.4C	Yes	10	0.5	7.0	40n	7.0n	7.0n	200m		5	C	2	54-123	FP154
46♦	S54221F	TTL	MON		2.4	0.4C	Yes	10	0.5	7.0	80n	7.0n	7.0n			5	C	2	74-221	DIP16b
47	S54221W	TTL	MON		2.4	0.4C	Yes	10	0.5	7.0	80n	7.0n	7.0n			5	C	2	54-221	FP154
48♦	SCL4528B(1)	CMS	MON		3.5Δ	1.0*			0	15	540n					5	C	2	45-28B	DIP16 ☑
49♦	SFC4123E	TTL	MON		2.0	0.8	Yes	20	0	5.0	40n			363m	1.0	0	7	2	74-123	DIP16a
50♦	SFC4123EM	TTL	MON		2.0	0.8	Yes	20	0	5.0	40n			363m	1.0	5	C	2	74-123	DIP16a
51♦	SFC4123ET	TTL	MON		2.0	0.8	Yes	20	0	5.0	40n			363m	1.0	2	8	2	74-123	DIP16a
52♦	SN54LS123J	TTL	MON		2.0	0.7			0	5.5	56n				0.3	5	C	2	74-123	DIP16a
53▼	SN54LS123N	TTL	MON		2.0	0.7			0	5.5	56n				0.3	5	C	2	74-123	DIP16a
54♦	SN54LS221J	TTL	MON		2.0	0.7			0	5.0	80n			23m†	300m	5	C	2	74-221	DIP16a
55▼	SN54LS221N	TTL	MON		2.0	0.7			0	5.0	80n			23m†	300m	5	C	2	74-221	DIP16a
56	SN74LS123D	TTL	MON		2.0	0.8			0	.25	56n	40n#			0.4	0	7	2	74-123	FP148
57♦	SN74LS123J	TTL	MON		2.0	0.8			0	.25	56n	40n#			0.4	0	7	2	74-123	DIP16a
58♦	SN74LS123N	TTL	MON		2.0	0.8			0	.25	56n	40n#			0.4	0	7	2	74-123	DIP16a
59	SN74LS221D	TTL	MON		2.0	0.8	Yes		0	7.0	80n			23m†	0.4	0	7	2	74-221	FP148
60♦	SN74LS221J	TTL	MON		2.0	0.8	Yes		0	7.0	80n			23m†	0.4	0	7	2	74-221	DIP16a
61♦	SN74LS221N	TTL	MON		2.0	0.8	Yes		0	7.0	80n			23m†	0.4	0	7	2	74-221	DIP16a
62	SN74LS423D	TTL	MON		2.0	0.8	Yes		0	7.0	56n				0.4	0	7	2	74HC423	FP148
63♦	SN74LS423N	TTL	MON		2.0	0.8	Yes		0	7.0	56n	40n#			0.4	0	7	2	74HC423	DIP16a
64♦	SN54123J	TTL	MON		2.0	0.8			0	5.5	40n	40n#			0.4	5	C	2	74-123	DIP16a
65♦	SN54221J	TTL	MON		3.4	.20C		10	0	5.0	80n	20n#		400m	1.2 †	5	C	2	74-221	DIP16a
66♦	SN74123N	TTL	MON		2.0	0.8			0	.25	40n	40n#			0.4	0	7	2	74-123	DIP16a
67♦	SN74221N	TTL	MON		3.4	.20C		10	0	5.0	80n	20n#		400m	1.2 †	0	7	2	74-221	DIP16a
68▼	TC74HC123F(A)	CMS	MON		3.15	1.35	Yes	10d	0	5.0	60n	19n	19n	180m	1.4	4	8	2	74-123	FP167
69▼	TC74HC123P(A)	CMS	MON		3.15	1.35	Yes	10d	0	5.0	60n	19n	19n	500m	1.4	4	8	2	74-123	DIP16a
70▼	TC74HC221F	CMS	MON		3.15	1.35	Yes	10d	0	5.0	70n	6.0n	6.0n	180m	1.7	4	8	2	74-221	FP167
71▼	TC74HC221P	CMS	MON		3.15	1.35	Yes	10d	0	5.0	70n	6.0n	6.0n	500m	1.7	4	8	2	74-221	DIP16a
72▼	TC74HC423F(A)	CMS	MON		3.15	1.35	Yes	10d	0	5.0	60n	19n	19n	180m	0.8	4	8	2	74HC423	FP167
73▼	TC74HC423P(A)	CMS	MON		3.15	1.35	Yes	10d	0	5.0	60n	19n	19n	500m	0.8	4	8	2	74HC423	DIP16b
74▼	TC74HC4538F(A)	CMS	MON		3.15	1.35	Yes	10d	0	5.0	63n	19n	19n	180m	1.2	4	8	2	45-28	FP167
75▼	TC74HC4538P(A)	CMS	MON		3.15	1.35	Yes	10d	0	5.0	63n	19n	19n	500m	1.2	4	8	2	45-28	DIP16a
76♦	TC4528BP	CMS	MON		14.9	.05C	Yes		0	15	400n	160n	80n		4.0	5	C	2	45-28	DIP16a
77♦	UPD74HC123AC(A)	CMS	MON		4.2	1.2	Y		0	6.0	22n	500n	500n	500n		4	8	2	74LS123	DIP16a
78	UPD4528BG	CMS	MON		11.0	4.0	Yes		0	20	30n			200m	3.9	4	8	2	45-28	FP162
79	UPD4538BG	CMS	MON		11.0	4.0	Yes		0	20	25n			200m	3.9	4	8	2	45-28	FP162
80♦	HEF4538BDF	CMS	MON	100k	11.0	4.0	Yes		0	15	40n	20n	20n	400m	6.7 †	4	8	2	45-28	DIP16b
81♦	HEF4538BPN	CMS	MON	100k	11.0	4.0	Yes		0	15	40n	20n	20n	400m	6.7 †	4	8	2	45-28	DIP16b
82	SN74LS31D	TTL	MON		2.0	0.8			0	7.0	95n				0.4	0	7	6	74LS31	FP148
83♦	SN74LS31N	TTL	MON		2.0	0.8			0	7.0	95n				0.4	0	7	6	74LS31	DIP16a

OSCILLATOR, VOLTAGE-CONTROLLED

87▼	OSC1758-400	CMS	VCO	10k	2.0	0.8	N		15	15				4.0		0	7		C07-17	MD18 ☑
88▼	OSC1758-500	CMS	VCO	10k	2.0	0.8	N		15	15				4.0		0	7		C07-17	MD18 ☑
89▼	K1523AA	BIP	VCO	22M	2.4	0.4	NO	10		5.0		8.0n	8.0n			0	7		C07-17	MD27
90	PDO800-20	TTL	VCO	196k					0	5.0				1.1		0	7	1	C04-56	MD30h
91	PDO800-18	TTL	VCO	218k					0	5.0				1.1		0	7	1	C04-56	MD30h
92	PDO800-16	TTL	VCO	245k					0	5.0				1.1		0	7	1	C04-56	MD30h
93	PDO800-14	TTL	VCO	280k					0	5.0				1.1		0	7	1	C04-56	MD30h
94	PDO800-12	TTL	VCO	327k					0	5.0				1.1		0	7	1	C04-56	MD30h
95	PDO800-10	TTL	VCO	392k					0	5.0				1.1		0	7	1	C04-56	MD30h
96	PDO800-8	TTL	VCO	490k					0	5.0				1.1		0	7	1	C04-56	MD30h
97	PDO800-6	TTL	VCO	680k					0	5.0				1.1		0	7	1	C04-56	MD30h
98	PDO800-4	TTL	VCO	980k					0	5.0				1.1		0	7	1	C04-56	MD30h
99	PDO800-2	TTL	VCO	1.9M					0	5.0				1.1		0	7	1	C04-56	MD30h
100	CCO100A	TTL	VCO	4.0M	2.4	0.5		10	0	5.5		10n	10n			0	7	1	None	None
101	CCO50A	TTL	VCO	23M	2.4	0.5		10	0	5.5		10n	10n			0	7	1	None	None
102▼	SN54LS624J	TTL	VCO	25M	2.0	0.8			0	7.0	90n			.18	0.4	5	C	1	74LS624	DIP14a
103▼	SN54LS628J	TTL	VCO	25M	2.0	0.7			0	7.0	90n			.18	0.3	5	C	1	74LS628	DIP14a
104♦	SN74LS624D	TTL	VCO	25M	2.0	0.8				5.0					0.4	0	7	1	74LS624	FP147
105▼	SN74LS624N	TTL	VCO	25M	2.0	0.8			0	7.0	90n			.18	0.4	0	7	1	74LS624	DIP14a
106	SN74LS628D	TTL	VCO	25M	2.0	0.8			0	7.0					0.4	0	7	1	74LS628	FP147
107	CCO25A	TTL	VCO	70M	2.4	0.5		10	0	5.5		10n	10n			0	7	1	None	None
108♦	F11C58DC	ECT	VCO	155M	-.96	-1.6C		83g	5.2	0	8.5n			166mQ	145m*	0	7	1	C07-07	DIP16a
109▼	SN54LS626J	TTL	VCO	12M	2.0	0.7			0	7.0	90n			.28	0.3	5	C	2	74LS626	DIP16a
110♦	SN74LS625D	TTL	VCO	12M	2.0	0.8				5.0					0.4	0	7	2	74LS625	FP148

12. CLOCKS/MULTIVIBRATORS – Voltage-controlled Oscillator (Cont'd)

IN ORDER OF: (1) TYPE MV (2) CKTS PER PKG (3) f MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[1] T M Y V P E	[3] f MAX (Hz)	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	C L E A R	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG (V)	POS (V)	tpd MAX (s)	OUTPUT tr MAX (s)	tf MAX (s)	PD RATED MAX (W)	NOISE REJECT MAX (V)	OPER. TEMP. RANGE CODE -	+	[2] CKTS PER PKG	(SEE DRAWING INDEX FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	SN74LS625N	TTL	VCO	12M	2.0	0.8			0	7.0	90n			.28	0.4	0	7	2	74LS625	DIP16a
2▼	SN74LS626N	TTL	VCO	12M	2.0	0.8			0	7.0	90n			.28	0.4	0	7	2	74LS626	DIP16a
3▼	SN74LS627N	TTL	VCO	12M	2.0	0.8			0	7.0	90n			.28	0.4	0	7	2	74LS627	DIP14a
4♦	F11C24DC	ECT	VCO	25M	2.5	0.5C		83g	0	5.0				185mQ	145m*	0	7	2	C07-06	TO-116
5♦	F11C24DM	ECT	VCO	25M	2.4	0.5C		83g	0	5.0				185mQ	145m*	5	C	2	C07-06	TO-116
6♦	MC4024L	TTL	VCO	25M	2.5	0.4C			8.0	0				150mt		0	7	2	4-024	TO-116
7♦	MC4024P	TTL	VCO	25M	2.5	0.4C			8.0	0				150mt		0	7	2	4-024	DIP14a
8▼	SN54LS629J	TTL	VCO	25M	2.0	0.7			0	7.0	90n			.28	0.3	5	C	2	74LS629	DIP14a
9♦	SN74LS628N	TTL	VCO	25M	2.0	0.8			0	7.0	90n			.18	0.4	0	7	2	74LS628	DIP14a
10	SN74LS629D	TTL	VCO	25M	2.0	0.8			0	7.0					0.4	0	7	2	74LS629	FP148
11♦	SN74LS629N	TTL	VCO	25M	2.0	0.8			0	7.0	90n			.28	0.4	0	7	2	74LS629	DIP16a
12♦	SN54S124J	TTL	VCO	85M	2.0	0.8	Yes	30	0	7.0	70n			525mt	0.3	5	C	2	74LS124	DIP16a
13	SN74S124D	TTL	VCO	85M	2.0	0.8	Yes		0	7.0	70n				0.3	0	7	2	74LS124	FP148
14♦	SN74S124N	TTL	VCO	85M	2.0	0.8	Yes	60	0	7.0	70n			525mt	0.3	0	7	2	74LS124	DIP16a
15	DLO32F2	TTL	VCO	2.0M				20		5.2						0		7	CO1-41	MD140
16	DLO32F2.5	TTL	VCO	2.5M				20		5.2						0		7	CO1-41	MD140
17	DLO32F3	TTL	VCO	3M				20		5.2						0		7	CO1-41	MD140
18	DLO32F3.5	TTL	VCO	3.5M				20		5.2						0		7	CO1-41	MD140
19	DLO32F4	TTL	VCO	4M				20		5.2						0		7	CO1-41	MD140
20	DLO32F4.5	TTL	VCO	4.5M				20		5.2						0		7	CO1-41	MD140
21	DLO32F5	TTL	VCO	5M				20		5.2						0		7	CO1-41	MD140
22	DLO32F5.5	TTL	VCO	5.5M				20		5.2						0		7	CO1-41	MD140
23	DLO32F6	TTL	VCO	6M				20		5.2						0		7	CO1-41	MD140
24	DLO32F7	TTL	VCO	7M				20		5.2						0		7	CO1-41	MD140
25	DLO32F8	TTL	VCO	8M				20		5.2						0		7	CO1-41	MD140
26	DLO32F9	TTL	VCO	9M				20		5.2						0		7	CO1-41	MD140
27	DLO32F10	TTL	VCO	10M				20		5.2						0		7	CO1-41	MD140
28	DLO32F11	TTL	VCO	11M				20		5.2						0		7	CO1-41	MD140
29	DLO32F12	TTL	VCO	12M				20		5.2						0		7	CO1-41	MD140
30	DLO32F13	TTL	VCO	13M				20		5.2						0		7	CO1-41	MD140
31	DLO32F14	TTL	VCO	14M				20		5.2						0		7	CO1-41	MD140
32	DLO32F15	TTL	VCO	15M				20		5.2						0		7	CO1-41	MD140
33	DLO32F20	TTL	VCO	20M				20		5.2						0		7	CO1-41	MD140
34	DLO32F25	TTL	VCO	25M				20		5.2						0		7	CO1-41	MD140
35	DLO32F30	TTL	VCO	30M				20		5.2						0		7	CO1-41	MD140
36	DLO32F35	TTL	VCO	35M				20		5.2						0		7	CO1-41	MD140
37	DLO32F40	TTL	VCO	40M				20		5.2						0		7	CO1-41	MD140

OSCILLATOR, CRYSTAL-CONTROLLED

41▼	CD22777E(A)	CMS	XCO	33k			No			5.0				500m		4	8		C04-62	MS001AB
42▼	K1160AA	BIP	XCO	10M	2.4	0.4	NO	10		5.0		15n	15n			0	7		C07-17	MD27
43▼	K1144AM	BIP	XCO	20M	2.4	0.4	NO	10		5.0		8.0n	8.0n			0	7		C07-17	MD27
44▼	K1514AA	BIP	XCO	20M	2.4	0.4	NO	10		9.6						3	9		C04-66	MD144
45▼	K1515AA	BIP	XCO	20M	2.4	0.4	NO	10		9.6						3	9		C04-66	MD144
46▼	K1516AA	BIP	XCO	20M	2.4	0.4	NO	10		9.6						3	9		C04-67	MD145
47▼	K1516AF	BIP	XCO	20M	2.4	0.4	NO	10		9.6						3	9		C04-67	MD145
48▼	K1518AA	BIP	XCO	20M	2.4	0.4	NO	10		9.6						3	9		C04-67	MD145
49▼	K1519AA	BIP	XCO	26M	2.4	0.4	NO	10		5.0						0	7		C07-17a	MD27
50▼	K1519AB	BIP	XCO	26M	2.4	0.4	NO	10		5.0						0	7		C07-17a	MD27
51▼	K1520AA	BIP	XCO	26M	2.4	0.4	NO	10		5.0						0	7		C07-17a	MD27
52▼	RCS401	CMS	XCO	27M						5.0	10n								None	None
53▼	K1145AM	BIP	XCO	50M	2.4	0.4	NO	10		5.0		15n	15n			0	7		C07-17	MD27
54▼	K1100AM	BIP	XCO	70M	2.4	0.4	NO	10		5.0		15n	15n			0	7		C07-17	MD27
55▼	K1114AM	BIP	XCO	70M	2.4	0.4	NO	10		5.0		15n	15n			0	7		C07-17	MD27
56▼	K1115AM	BIP	XCO	70M	2.4	0.4	NO	10		5.0		15n	15n			0	7		C07-17	MD27
57▼	K1116AM	BIP	XCO	70M	2.4	0.4	NO	10		5.0		15n	15n			0	7		C07-17	MD27
58▼	K1149AA	BIP	XCO	125M	-0.8	-1.8	NO	10		5.0		2.0n	2.0n			0	7		C07-17c	MD27
59▼	K1149AB	BIP	XCO	125M	-0.8	-1.8	NO	10		5.0		2.0n	2.0n			0	7		C07-17d	MD27
60▼	K1149AC	BIP	XCO	125M	-0.8	-1.8	NO	10		5.0		2.0n	2.0n			0	7		C07-17e	MD27
61▼	K1149AM	BIP	XCO	125M	-0.8	-1.8	NO	10		5.0		2.0n	2.0n			0	7		C07-17b	MD27
62▼	K1149BC	BIP	XCO	125M	-0.8	-1.8	NO	10		5.0		2.0n	2.0n			0	7		C07-17g	MD27
63▼	K1149BM	BIP	XCO	125M	-0.8	-1.8	NO	10		5.0		2.0n	2.0n			0	7		C07-17f	MD27
64♦	DQXO3	CMS	XCO	10k					0	6.0				15mQ		4	8	1	None	TO-5
65	DQXO3SM(A)	CMS	XCO	10k						5.0						5	C	1	C04-60	LC52
66▼	DS1215(A)	CMS	XCO	32k	2.2	0.8			0	5.5						0	7	1	12DS15	DIP16a
67♦	SAJ250A(2)		XCO	32k	.90	3.0			0	3.0						1	6	1	C04-35	TO-99
68♦	SAJ250B(2)		XCO	32k	.90	3.0			0	3.0						1	6	1	C04-35	DIP8b
69	SQXO2	TTL	XCO	200k	5.0	0		2	0	5.0		1.0u	1.0u	15mQ		4	8	1	None	CN44b
70♦	PXO32768	TTL	XCO	327k	5.0	1.0			0.3	10	1.0u	70n	30n			1	7	1	C04-54	DIP16a
71♦	PXO600	TTL	XCO	600k	5.0	1.0			0.3	10	1.0u	70n	30n			1	7	1	C04-54	DIP16a
72♦	PXO768	TTL	XCO	768k	5.0	1.0			0.3	10	1.0u	70n	30n			1	7	1	C04-54	DIP16a
73♦	PXO1000	TTL	XCO	1.0M	5.0	1.0			0.3	10	1.0u	70n	30n			1	7	1	C04-54	DIP16a
74♦	SX1H	CMS	XCO	1.5M												4		1	C04-63	TO-12
75♦	SX1V	CMS	XCO	1.5M												4		1	C04-64	TO-12
76♦	ICM7209IPA(1)	CMS	XCO	2M	4.0	0.4		5	0	5.0		25n	25n	300m	2.0	2	7	1	C04-46	DIP8a
77♦	LQXO4	CMS	XCO	2.0M					0	6.0				9.0mQ		4	8	1	None	TO-5
78♦	MC12060L	TTL	XCO	2.0M	2.4	0.5C			0	5.0	4.3n	4.0n	4.0n			0	7	1	C04-37	DIP16b
79♦	MC12060P	TTL	XCO	2.0M	2.4	0.5C			0	5.0	4.3n	4.0n	4.0n			0	7	1	C04-37	DIP16a
80♦	MC12560L	TTL	XCO	2.0M	2.4	0.5C			0	5.0	4.3n	4.0n	4.0n			5	C	1	C04-37	DIP16b
81	SQXO2SM(A)	CMS	XCO	2.0M						5.0						5	C	1	C04-60	LC52
82	CP2143	TTL	XCO	3.0M	2.4	0.4			0	5.0	100n	30n	25n	500u		0	7	1	C04-48	None
83♦	M58434P(2)		XCO	4.1M					0	1.9				300m		2	7	1	C04-49	DIP8a
84♦	M58435P(2)		XCO	4.1M					0	1.9				300m		2	7	1	C04-49	DIP8a
85♦	SXO7525PH-D(A)	CMS	XCO	4.2M	4.5	0.4	No			5.5		25nt	25nt			1	7	1	C04-59	DIP14b
86	SXO7525PH-G(A)	CMS	XCO	4.2M	4.5	0.4	No					25nt	25nt			1	7	1	C04-59	FP191
87	SXO7525PH-J(A)	CMS	XCO	4.2M	4.5	0.4	No					25nt	25nt			1	7	1	C04-59	LC51
88♦	ICM7213IPD(1)	CMS	XCO	10M					0	3.0				500uQ		2	7	1	C04-47	DIP16a
89♦	SP705B	TTL	XCO	10M	2.6	0.4C			0	5.0		20n	20n	175mQ		0	7	1	C04-38	DIP14a
90♦	SXO5050CT-D(A)	TTL	XCO	17M	2.4	0.4	No	10		5.0		10n	10n			5	C	1	C04-57	DIP8
91	SXO5050CT-G(A)	TTL	XCO	17M	2.4	0.4	No	10		5.0		10n	10n			5	C	1	C04-58	FP190
92	SXO5050CT-J(A)	TTL	XCO	17M	2.4	0.4	No	10		5.0		10n	10n			5	C	1	C04-58	LC49
93	SXO5050CT-L(A)	TTL	XCO	17M	2.4	0.4	No	10		5.0		10n	10n			5	C	1	C04-58	LC50
94♦	F2152	CMS	XCO	20M						5.0								1	C04-59	DIP14b
95♦	MC12061L	TTL	XCO	20M	2.4	0.5C			0	5.0	4.3n	4.0n	4.0n			0	7	1	C04-37	DIP16b
96▼	MC12061LD	TTL	XCO	20M	2.4	0.5C			0	5.0	4.3n	4.0n	4.0n			0	7	1	C04-37	DIP16b
97▼	MC12061LDS	TTL	XCO	20M	2.4	0.5C			0	5.0	4.3n	4.0n	4.0n			0	7	1	C04-37	DIP16b
98♦	MC12061P	TTL	XCO	20M	2.4	0.5C			0	5.0	4.3n	4.0n	4.0n			0	7	1	C04-37	DIP16a
99▼	MC12061PD	TTL	XCO	20M	2.4	0.5C			0	5.0	4.3n	4.0n	4.0n			0	7	1	C04-37	DIP16a
100▼	MC12061PDS	TTL	XCO	20M	2.4	0.5C			0	5.0	4.3n	4.0n	4.0n			0	7	1	C04-37	DIP16a
101♦	MC12561L	TTL	XCO	20M	2.4	0.5C			0	5.0	4.3n	4.0n	4.0n			5	C	1	C04-37	DIP16b
102♦	SXO5050CH-D(A)	CMS	XCO	25M	2.4	0.4	No	10		5.0		10n	10n			5	C	1	C04-57	DIP8
103	SXO5050CH-G(A)	CMS	XCO	25M	2.4	0.4	No	10		5.0		10n	10n			5	C	1	C04-58	FP190
104♦	SXO5050CH-J(A)	CMS	XCO	25M	2.4	0.4	No	10		5.0		10n	10n			5	C	1	C04-58	LC49
105	SXO5050CH-L(A)	CMS	XCO	25M	2.4	0.4	No	10		5.0		10n	10n			5	C	1	C04-58	LC50
106♦	SN54LS320J	TTL	XCO	30M	2.0	0.7		33d	0	7.0		70n	30n	40m	0.3	5	C	1	74LS320	DIP16a
107♦	SN54LS321J	TTL	XCO	30M	2.0	0.7		33d	0	7.0		70n	30n	40m	0.3	5	C	1	74LS321	DIP16a
108♦	SN74LS320N	TTL	XCO	30M	2.0	0.8		66d	0	7.0		70n	30n	40m	0.4	0	7	1	74LS320	DIP16a
109♦	SN74LS321N	TTL	XCO	30M	2.0	0.8		66d	0	7.0		70n	30n	40m	0.4	0	7	1	74LS321	DIP16a

13. FREQUENCY DIVIDERS - Baud Rate Generator

IN ORDER OF: (1) TYPE CODE (2) f MAX
(3) MAXIMUM MODULUS & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[1] TYPE CODE	MODULUS [3] MAX	MODULUS MIN	[2] f MAX (Hz)	NSOTAGE	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING	
BAUD RATE GENERATOR																			
4♦	AY5-8116	NMS	BAUD					2.0	0.8			0	5.0		0	7	H03-111	DIP18	
5♦	AY5-8116T	NMS	BAUD					2.0	0.8			0	5.0		0	7	H03-111	DIP18	
6♦	AY5-8136	NMS	BAUD					2.0	0.8			0	5.0		0	7	H03-112	DIP18	
7♦	AY5-8136T	NMS	BAUD					2.0	0.8			0	5.0		0	7	H03-112	DIP18	
8♦	BR2941L	NMS	BAUD					3.5	0.8			0	12		0	7	None	None	
9♦	COM5016	NMS	BAUD					2.0	0.8			0	18.0		0	7	H03-113	DIP18	☑
10♦	COM5016T	NMS	BAUD					2.0	0.8			0	18.0		0	7	H03-113	DIP18	☑
11♦	COM5036	NMS	BAUD					2.0	0.8			0	18.0		0	7	H03-117	DIP18	☑
12♦	COM5036T	NMS	BAUD					2.0	0.8			0	18.0		0	7	H03-117	DIP18	☑
13♦	COM8046	NMS	BAUD					2.0	0.8			0	8.0		0	7	H03-119	DIP16	☑
14♦	COM8046T	NMS	BAUD					2.0	0.8			0	8.0		0	7	H03-119	DIP16	☑
15♦	COM8116	MOS	BAUD					2.0	0.8			0	8.0		0	7	H03-114	DL	☑
16♦	COM8116T	MOS	BAUD					2.0	0.8			0	8.0		0	7	H03-114	DL	☑
17♦	COM8126	NMS	BAUD					2.0	0.8			0	8.0		0	7	H03-115	DIP14	☑
18♦	COM8126T	NMS	BAUD					2.0	0.8			0	8.0		0	7	H03-115	DIP14	☑
19♦	COM8136	NMS	BAUD					2.0	0.8			0	8.0		0	7	H03-118	DIP18	☑
20♦	COM8136T	NMS	BAUD					2.0	0.8			0	8.0		0	7	H03-118	DIP18	☑
21♦	COM8146	NMS	BAUD					2.0	0.8			0	8.0		0	7	H03-116	DIP14	☑
22♦	COM8146T	NMS	BAUD					2.0	0.8			0	8.0		0	7	H03-116	DIP14	☑
23♦	COM8156	MOS	BAUD					2.0	0.8				5.0		0	7	H03-110	DIP18	
24♦	COM8156T	MOS	BAUD					2.0	0.8				5.0		0	7	H03-110	DIP18	
25♦	IM4702IPE		BAUD					3.5	1.5				5.0		4	8	K02-28	DIP16b	
26♦	IM4712IJE		BAUD					3.5	1.5				5.0		4	8	K02-28	DIP16b	
27♦	IM4712IPE		BAUD					3.5	1.5				5.0		4	8	K02-28	DIP16b	
28♦	MC14411L	CMS	BAUD					3.5	1.5			0	5.25	28m	4	8	44-11	DIP24a	
29▼	MC14411LD	CMS	BAUD					3.5	1.5			0	5.25	28m	4	8	44-11	DIP24a	
30♦	MC14411P	CMS	BAUD					3.5	1.5			0	5.25	28m	4	8	44-11	DIP24a	
31▼	MC14411PD	CMS	BAUD					3.5	1.5			0	5.25	28m	4	8	44-11	DIP24a	
32♦	MC145411L	CMS	BAUD					3.5	1.5			0	5.25	45m	4	8	H03-109	DIP16a	
33♦	MC145411P	CMS	BAUD					3.5	1.5			0	5.25	45m	4	8	H03-109	DIP16b	
34♦	RS4702B	TTL	BAUD					3.5	1.5			0	5.5		4	8	K02-28	DIP16	
35▼	K1135AA	BIP	PROG			19k		2.0	0.8	3.2m	0.5		5.0		0	7	H01-56	MD143	
36▼	K1135BA	BIP	PROG			19k		2.0	0.8	3.2m	0.5		5.0		0	7	H01-56	MD143	
37▼	K1135CA	BIP	PROG			19k		2.0	0.8	3.2m	0.5		5.0		0	7	H01-56	MD143	
38▼	HD1-4702-9	CMS	BAUD	22	8	2.5M	6	3.5	1.5	1.6m	50m	0	7.0		4	8	K02-28	DIP16a	
39▼	HD3-4702-9	CMS	BAUD	22	8	2.5M	6	3.5	1.5	1.6m	50m	0	7.0		4	8	K02-28	DIP16a	
40▼	COM5026	NCH	BAUD			5.0M		2.0	0.8	3.2m	0.5	0	18.0		0	7	50CO26	DIP14	
41▼	COM5026T	NCH	BAUD			5.0M		2.0	0.8	3.2m	0.5	0	18.0		0	7	50CO26	DIP14	
42▼	COM5046	NCH	BAUD			5.0M		2.0	0.8	3.2m	0.5	0	18.0		0	7	50CO26	DIP14	
43▼	COM5046T	NCH	BAUD			5.0M		2.0	0.8	3.2m	0.5	0	18.0		0	7	50CO26	DIP14	
44▼	BR1941L	NCH	BAUD	32767	2	5.0M		3.5	0.8	3.2m	.40	0	12	376m	0	7	H01-9	DL	☑
45♦	AY5-8126	NMS	BAUD	524k	6	5.1M		2.0	0.8			0	8.0		0	7	H03-115	DIP14	
46♦	AY5-8126T	NMS	BAUD	524k	6	5.1M		2.0	0.8			0	8.0		0	7	H03-115	DIP14	
47♦	AY5-8146	NMS	BAUD	524k	6	5.1M		2.0	0.8			0	8.0		0	7	H03-116	DIP14	
48♦	AY5-8146T	NMS	BAUD	524k	6	5.1M		2.0	0.8			0	8.0		0	7	H03-116	DIP14	
49♦	WD1943-00AD	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
50♦	WD1943-00CD	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
51♦	WD1943-00M	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
52♦	WD1943-02AD	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
53♦	WD1943-02CD	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
54♦	WD1943-02M	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
55♦	WD1943-03AD	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
56♦	WD1943-03CD	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
57♦	WD1943-03M	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
58♦	WD1943-04AD	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
59♦	WD1943-04CD	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
60♦	WD1943-04M	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
61♦	WD1943-05AD	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
62♦	WD1943-05CD	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
63♦	WD1943-05M	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
64♦	WD1943-06AD	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
65♦	WD1943-06CD	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
66♦	WD1943-06M	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-111	DIP18	
67♦	WD1943XXA	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18a	
68♦	WD1943XXCD	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18a	
69♦	WD1943XXL	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18a	
70♦	WD1943XXM	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
71♦	WD1943XXN	NMS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18a	
72♦	WD1945-00AD	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
73♦	WD1945-00CD	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
74♦	WD1945-00M	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
75♦	WD1945-02AD	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
76♦	WD1945-02CD	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		6	F	H03-112	DIP18	
77♦	WD1945-02M	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
78♦	WD1945-03AD	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
79♦	WD1945-03CD	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
80♦	WD1945-03M	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
81♦	WD1945-04AD	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
82♦	WD1945-04CD	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
83♦	WD1945-04M	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
84♦	WD1945-05AD	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
85♦	WD1945-05CD	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
86♦	WD1945-05M	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
87♦	WD1945-06AD	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
88♦	WD1945-06CD	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
89♦	WD1945-06M	MOS	BAUD	32.77k	4	6M		2.0	0.8			0	5.0		0	7	H03-112	DIP18	
FREQUENCY DIVIDER, FIXED MODULUS																			
93	LM3216(2)	PCH	FIX	64		100k	6	1	8			30	0	200m	1	7	H03-55	None	
94♦	MM5554N(2)	PCH	FIX	64		500k	6	.30	-18			27	0	250m	0	7	H03-22	DIP14a	
95♦	SFF5002K	PCH	FIX	8		1.0M	7	-1.0	-9.0C	.50m	-9.0	12	0	70m†	0	7	H03-1	TO-116	
96♦	SFF5002KT	PCH	FIX	8		1.0M	7	-1.0	-9.0C	.50m	-9.0	12	0	70m†	2	8	H03-1	TO-116	
97♦	SAJ110	TTL	FIX	128		1.0M†	7	6.0	1.0			0	9.0	200m	2	C	H03-46	DIP14b	
98♦	SAJ141	CMS	FIX	1000	10	1.0M	3	-1.2	-4.5		2.0	16		80m	0	7	H03-59	DIP8a	
99♦	SA1034(2)	ECL	FIX	4		1.1M	2			5.0m		-5.2	0		4	8	H03-64	DIP14a	
100♦	SA1534	ECL	FIX	4		1.5M	2			5.0m		-5.2	0		4	8	H03-64	DIP14a	
101▼	HD1-4702-2	CMS	FIX	22	8	2.5M†	6	3.5	1.5	1.6m	50m	0	7.0		5	C	K02-28	DIP16a	
102▼	HD1-4702-8	CMS	FIX	22	8	2.5M†	6	3.5	1.5	1.6m	50m	0	7.0		5	C	K02-28	DIP16a	
103▼	HD3-4702-2	CMS	FIX	22	8	2.5M†	6	3.5	1.5	1.6m	50m	0	7.0		5	C	K02-28	DIP16a	
104▼	HD3-4702-8	CMS	FIX	22	8	2.5M†	6	3.5	1.5	1.6m	50m	0	7.0		5	C	K02-28	DIP16a	
105▼	HD4-4702-2	CMS	FIX	22	8	2.5M†	6	3.5	1.5	1.6m	50m	0	7.0		5	C	K02-28	LC11	
106▼	HD4-4702-8	CMS	FIX	22	8	2.5M†	6	3.5	1.5	1.6m	50m	0	7.0		5	C	K02-28	LC11	
107▼	HD4-4702-9	CMS	FIX	22	8	2.5M†	6	3.5	1.5	1.6m	50m	0	7.0		4	8	K02-28	LC11	
108▼	M54812L	IIL	FIX	32	4	4M	4			1.6m	0.4	0.0	5.5		1	6	H03-103	SL10A	
109▼	M54813L	IIL	FIX	32	4	4M	4			1.6m	0.4	0.0	5.5		1	6	H03-104	SL10A	
110▼	M54815L	IIL	FIX	400	4	4M	3			3.2m	0.4	0.0	5.5		1	6	H03-105	SL10A	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

13. FREQUENCY DIVIDERS - Fixed Modulus (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) f MAX
(3) MAXIMUM MODULUS & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[1] TYPE CODE	MODULUS [3] MAX	MODULUS MIN	[2] f MAX (Hz)	NOTAGE	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1▼	M54816P	IIL	FIX	16384	4	4.2M	14			5.0m	0.4	0.0	5.5		1	6	H03-107	DIP14a
2▼	M54814P	IIL	FIX	4.194M	4	4.2M	22			5.0m	0.4	0.0	5.5		1	6	H03-106	DIP14a
3♦	SCL4445B	CMS	FIX	2.097M		6.0M†	21	3.5△	1.0*	1.3m	.50	0.5	18	100uQ	5	C	44-45	DIP16a
4	CD4521BD	CMS	FIX	16.77M		6.5M	24	11	4		0.05		15	500m	5	C	45-21	MO001AE
5	CD4521BE	CMS	FIX	16.77M		6.5M	24	11	4		0.05		15	500m	4	8	45-21	MO001AC
6	CD4521BF	CMS	FIX	16.77M		6.5M	24	11	4		0.05		15	500m	5	C	45-21	MO001AC
7♦	CD4521BK	CMS	FIX	16.77M		6.5M	24	11	4		0.05		15	500m	5	C	45-21	MO004AG
8♦	MC14017BCL	CMS	FIX	10		6.7M	4	11	4.0	3.0m	1.5	0	15	400uQ	4	8	40-17B	DIP16b
9▼	MC14017BCLD	CMS	FIX	10		6.7M	4	11	4.0	3.0m	1.5	0	15	400uQ	4	8	40-17B	DIP16b
10▼	MC14017BCLDS	CMS	FIX	10		6.7M	4	11	4.0	3.0m	1.5	0	15	400uQ	4	8	40-17B	DIP16b
11▼	MC14017BCLS	CMS	FIX	10		6.7M	4	11	4.0	3.0m	1.5	0	15	400uQ	4	8	40-17B	DIP16b
12♦	MC14017BCP	CMS	FIX	10		6.7M	4	11	4.0	3.0m	1.5	0	15	400uQ	4	8	40-17B	DIP16a
13▼	MC14017BCPD	CMS	FIX	10		6.7M	4	11	4.0	3.0m	1.5	0	15	400uQ	4	8	40-17B	DIP16a
14▼	MC14017BCPDS	CMS	FIX	10		6.7M	4	11	4.0	3.0m	1.5	0	15	400uQ	4	8	40-17B	DIP16a
15▼	MC14017BCPS	CMS	FIX	10		6.7M	4	11	4.0	3.0m	1.5	0	15	400uQ	4	8	40-17B	DIP16a
16▼	MC14017BD	CMS	FIX	10		6.7M	4	11	4.0	3.0m	1.5	0	15	400uQ	4	8	40-17B	DIP16a
17♦	TC5036P	CMS	FIX	131k		8.0M	17	3.5	1.5	.44m	0.4	0	5.0	300m	4	8	None	DIP14a
18♦	TC5048P	CMS	FIX	131k		8.0M	17	3.5	1.5	.44m	0.4	0	5.0	300m	4	8	None	DIP14a
19♦	M4521BP	CMS	FIX	16.77M		8.0M	24	11.0	4.0	2.4m	1.5	0	18	0.5	4	8	45-21B	DIP16b
20♦	TC4521BP	CMS	FIX	16.77M		8.9M	24	14.9	.05C	3.0m	1.5	0	15	300m	4	8	45-21B	DIP16a
21♦	MC14521BAL	CMS	FIX	16.77M		9.0M†	24	11.0	4.0	3.0m	1.5	0	15	300uQ	5	C	45-21B	DIP16b
22▼	MC14521BALD	CMS	FIX	16.77M		9.0M†	24	11.0	4.0	3.0m	1.5	0	15	300uQ	5	C	45-21B	DIP16b
23▼	MC14521BALDS	CMS	FIX	16.77M		9.0M†	24	11.0	4.0	3.0m	1.5	0	15	300uQ	5	C	45-21B	DIP16b
24▼	MC14521BALS	CMS	FIX	16.77M		9.0M†	24	11.0	4.0	3.0m	1.5	0	15	300uQ	5	C	45-21B	DIP16b
25♦	MC14521BCL	CMS	FIX	16.77M		9.0M†	24	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-21B	DIP16b
26▼	MC14521BCLD	CMS	FIX	16.77M		9.0M†	24	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-21B	DIP16b
27▼	MC14521BCLDS	CMS	FIX	16.77M		9.0M†	24	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-21B	DIP16b
28▼	MC14521BCLS	CMS	FIX	16.77M		9.0M†	24	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-21B	DIP16b
29♦	MC14521BCP	CMS	FIX	16.77M		9.0M†	24	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-21B	DIP16a
30▼	MC14521BCPD	CMS	FIX	16.77M		9.0M†	24	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-21B	DIP16a
31▼	MC14521BCPDS	CMS	FIX	16.77M		9.0M†	24	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-21B	DIP16a
32▼	MC14521BCPS	CMS	FIX	16.77M		9.0M†	24	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-21B	DIP16a
33▼	MC14521BD	CMS	FIX	16.77M		9.0M†	24	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-21B	DIP16a
34♦	MC14017BAL	CMS	FIX	10		9.3M	4	11	4.0	3.0m	1.5	0	15	100uQ	5	C	40-17B	DIP16b
35▼	MC14017BALD	CMS	FIX	10		9.3M	4	11	4.0	3.0m	1.5	0	15	100uQ	5	C	40-17B	DIP16b
36▼	MC14017BALDS	CMS	FIX	10		9.3M	4	11	4.0	3.0m	1.5	0	15	100uQ	5	C	40-17B	DIP16b
37▼	MC14017BALS	CMS	FIX	10		9.3M	4	11	4.0	3.0m	1.5	0	15	100uQ	5	C	40-17B	DIP16b
38♦	M54408P	TTL	FIX			10M		2.4	0.8			0	5.0	450m	0	7	K06-12	DIP14a
39♦	4045BDC	CMS	FIX	2.097M		10M	21	11.	1.0			0	15.		4	8	40-45	DIP16
40♦	4045BDM	CMS	FIX	2.097M		10M	21	11.	1.0			0	15.		5	C	40-45	DIP16
41	4045BFC	CMS	FIX	2.097M		10M	21	11.	1.0			0	15.		4	8	40-45	FP1
42	4045BFM	CMS	FIX	2.097M		10M	21	11.	1.0			0	15.		5	C	40-45	FP1
43♦	4045BPC	CMS	FIX	2.097M		10M	21	11.	1.0			0	15.		4	8	40-45	MO001AD
44♦	CD4045AD		FIX	2.097M		10M	21	9.95	0.05C	3.9m	0.5	0.5	15	500m	5	C	40-45	MO001AD
45♦	CD4045AE		FIX	2.097M		10M	21	9.95	0.05C	2.0m	0.5	0.5	15	500m	4	8	40-45	MO001AC
46♦	CD4045AF		FIX	2.097M		10M	21	9.95	0.05C	3.9m	0.5	0.5	15	500m	5	C	40-45	MO001AG
47♦	CD4045AK		FIX	2.097M		10M	21	9.95	0.05C	3.9m	0.5	0.5	15	500m	5	C	40-45	MO001AG
48♦	CD4045BD	CMS	FIX	2.097M		10M	21	11.	4.0			0	15.	500m	5	C	40-45	MO001AD
49♦	CD4045BE	CMS	FIX	2.097M		10M	21	11.	4.0			0	15.	500m	4	8	40-45	MO001AD
50♦	CD4045BF	CMS	FIX	2.097M		10M	21	11.	4.0			0	15.	500m	5	C	40-45	MO001AD
51♦	CD4045BH	CMS	FIX	2.097M		10M	21	11.	4.0			0	15.	500m	5	C	40-45	MO001AD
52	CM4045AD	CMS	FIX	2.097M		10M	21	10.				0	15.		5	C	40-45	DL ☑
53	CM4045AE	CMS	FIX	2.097M		10M	21	10.				0	15.		4	8	40-45	DL ☑
54♦	HBC4045AD	CMS	FIX	2.097M		10M	21	10.				0	15.	200m	5	C	40-45	DIP16
55♦	HBC4045AF	CMS	FIX	2.097M		10M	21	10.				0	15.	200m	5	C	40-45	DIP16
56	HBC4045AK	CMS	FIX	2.097M		10M	21	10.				0	15.	200m	5	C	40-45	FP1
57▼	HBF4045AE	CMS	FIX	2.097M		10M	21	10.				0	15.	200m	4	8	40-45	DIP16
58▼	HBF4045AF	CMS	FIX	2.097M		10M	21	10.				0	15.	200m	4	8	40-45	DIP16
59	883C4445B	CMS	FIX	4		12M	21	8.2	6.7	3.4m	1.5	0	15	300m	5	C	44-45	MO001AG
60	BCL4445B	CMS	FIX	4		12M	21	8.2	6.7	3.4m	1.5	0	15	300m	5	C	44-45	MO001AG
61♦	SN74LS56P	TTL	FIX	50		15M	3	2.0	0.8	16m	0.5	0	7.0		0	7	74LS56	DIP8a
62♦	SN74LS57P	TTL	FIX	60		15M	3	2.0	0.8	16m	0.5	0	7.0		0	7	74LS57	DIP8a
63♦	SP8790A		FIX	4		20M	2	3.5	1.5	6.0m	.40	0	5.0	40m†	5	C	H03-16	TO-100
64♦	SP8790B		FIX	4		20M	2	3.5	1.5	6.0m	.40	0	5.0	40m†	0	7	H03-16	TO-100
65	HEF4521	CMS	FIX	16.77M		35M	24	11	4.0	3.0m	1.5	0	15	400m	4	8	45-21B	DL ☑
66♦	HEF4521BPN	CMS	FIX	16.77M		35M	24	11.0	4.0	3.0m	1.5	0	15	400m	4	8	45-21B	DIP16b
67	HEF4521BTD	CMS	FIX	16.77M		35M	24	11.0	4.0	3.0m	1.5	0	15	200m	4	8	45-21B	FP148
68♦	SP8794A	CMS	FIX	8		60M	3	9.0	0.4			0	5.0		5	C	H03-83	TO-8
69♦	SP8794B	CMS	FIX	8		60M	3	9.0	0.4			0	5.0		3	7	H03-83	TO-8
70♦	SP8659A	ECT	FIX	16		100M	4	9.0	0.4C	10m☑		0	5.2		5	C	H03-10	TO-100
71♦	SP8659B	ECT	FIX	16		100M	4	9.0	0.4C	10m☑		0	5.2		0	7	H03-10	TO-100
72♦	SP8657A	ECT	FIX	20		100M	5	9.0	0.4C	10m☑		0	5.2		5	C	H03-10	TO-100
73♦	SP8657B	ECT	FIX	20		100M	5	9.0	0.4C	10m☑		0	5.2		0	7	H03-10	TO-100
74♦	SP8655A	ECT	FIX	32		100M	5	9.0	0.4C	10m☑		0	5.2		5	C	H03-10	TO-100
75♦	SP8655B	ECT	FIX	32		100M	5	9.0	0.4C	10m☑		0	5.2		0	7	H03-10	TO-100
76♦	DS8626N	ECL	FIX	40		120M	3	2.4	0.4			0	5.2		0	7	H04-2	DIP8a
77♦	DS8629N	ECL	FIX	100		120M	3	2.4	0.5			0	5.2		0	7	H04-2	DIP8a
78♦	SP8601A	ECT	FIX	4		150M	2	-.80	-1.4	2.0m		5.2	0		5	C	H03-3	TO-100
79♦	SP8601B	ECT	FIX	4		150M	2	-.80	-1.4	2.0m		5.2	0		0	7	H03-3	TO-100
80♦	SP8660	TTL	FIX	10		150M	4	9.0	0.4C			0	5.0		3	7	H03-76a	DIP8b
81♦	SP8660C(A)	TTL	FIX	10		150M	4					0	5.25	50m	3	7	H03-76a	DIP8b
82♦	SP8629	TTL	FIX	100		150M	3	2.0	0.5C	8.0m	0.5	0	5.2		3	7	H03-68	DIP8b
83♦	SP8660A	ECT	FIX	10		180M	4	9.0	0.4C	10m☑		0	5.0		5	C	H03-14	TO-100
84♦	SP8660B	ECT	FIX	10		180M	4	9.0	0.4C	10m☑		0	5.0		0	7	H03-14	TO-100
85♦	CA3232E(A)	BIP	FIX	20		200M		4.9	0.7C			0	5.5	630m	3	8	K06-165	DIP8a
86♦	SP8658	TTL	FIX	20		200M	5	9.0	0.4C			0	5.0		3	7	H03-76	DIP8b
87♦	8269	ECL	FIX	100		200M	3	2.0	0.5C	8.0m	0.5	0	8.0		3	7	H03-89	DIP8 ☑
88♦	SP8600A	ECT	FIX	4		250M	2	-.80	-1.4	2.0m		5.2	0		5	C	H03-2	TO-100
89♦	SP8600B	ECT	FIX	4		250M	2	-.80	-1.4	2.0m		5.2	0		0	7	H03-2	TO-100
90♦	SAB1047	ECT	FIX	64		250M	6	-1.1	-1.5			5.2	0	250m	0	7	H03-51	TO-116
91♦	SP8604A	ECT	FIX	2		300M	2	-.90	-1.7			5.2	0		5	C	H03-4	TO-100
92♦	SP8604B	ECT	FIX	2		300M	2	-.90	-1.7			5.2	0		0	7	H03-4	TO-100
93♦	SP8620A	ECL	FIX	5		400M	3	-0.7	-1.8C			5.2	0.25		5	C	H03-67	DIP14a
94♦	SP8620B	ECL	FIX	5		400M	3	-0.7	-1.8C			5.2	0.25		3	7	H03-67	DIP14a
95♦	SP8637B	ECT	FIX	10		400M	4	-.98	-1.4C	10m☑		5.2	0		0	7	H03-8	DIP16a
96♦	MC12509L	ECL	FIX	6	5	420M	3	3.74	3.5	16m	0.66		5.0		5	C	H01-16	DIP16b
97♦	SP8602A	ECT	FIX	2		500M	2	-.90	-1.7			5.2	0		5	C	H03-4	TO-100
98♦	SP8602B	ECT	FIX	2		500M	2	-.90	-1.7			5.2	0		0	7	H03-4	TO-100
99♦	MC12011L	ECL	FIX	9	8	500M	4	3.79	3.5	16m	0.72		5.0		3	8	H01-16a	DIP16b
100▼	MC12011LD	ECL	FIX	9	8	500M	4	3.79	3.5	16m	0.72		5.0		3	8	H01-16a	DIP16b
101▼	MC12011LDS	ECL	FIX	9	8	500M	4	3.79	3.5	16m	0.72		5.0		3	8	H01-16a	DIP16b
102♦	MC12513L	ECL	FIX	11	10	500M	4	3.74	3.5	16m	0.66		5.0		5	C	H01-16b	DIP16b
103▼	MC12025D	ECL	FIX	65	64	520M		2.0	0.8				5.0		4	8	H01-52	FP129
104▼	MC12025P	ECL	FIX	65	64	520M		2.0	0.8				5.0		4	8	H01-52	DIP8a
105♦	SP8607A	ECT	FIX	2		600M	1	-.75	-1.5	15m☑		5.2	0	70m†	5	C	H03-13	TO-100
106♦	SP8607B	ECT	FIX	2		600M	1	-.75	-1.5	15m☑		5.2	0	70m†	0	7	H03-13	TO-100
107♦	SP8670A	ECL	FIX	8		600M	3	-0.7	-1.8C			5.2	0		5	C	H03-75a	DIP14a
108♦	SP8670B	ECL	FIX	8		600M	3	-0.7	-1.8C			5.2	0		3	7	H03-75a	DIP14a
109♦	SP8735B	ECL	FIX	8		600M	3	-0.7	-1.8C			5.2	0		0	7	H01-27	DIP16a
110♦	SP8630A	ECL	FIX	10		600M	3	-0.7	-1.8C			5.2	0		5	C	H03-67a	DIP14a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

13. FREQUENCY DIVIDERS - Fixed Modulus (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) f MAX (3) MAXIMUM MODULUS & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	1 TYPE CODE	MODULUS 3 MAX	MODULUS MIN	2 f MAX (Hz)	NOTAGE	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	SP8630B	ECT	FIX	10		600M	4	-1.0	-1.6C	15m		5.2	0		0	7	H03-7	DIP14a
2♦	SP8635B	ECT	FIX	10		600M	4	-.98	-1.4C	10mØ		5.2	0		0	7	H03-8	DIP16a
3♦	SP8650A	ECL	FIX	16		600M	4	-0.7	-1.8C			5.2	0.25		5	C	H03-75	DIP14a
4♦	SP8650B	ECL	FIX	16		600M	4	-0.7	-1.8C			5.2	0.25		3	7	H03-75	DIP14a
5♦	SP8634B	ECT	FIX	10		700M	4	-.98	-1.4C	10mØ		5.2	0		0	7	H03-8	DIP16a
6♦	F11C05DM	ECT	FIX	4		950M	2	-.98	-1.6C	10m	-.98	5.0	0	450mQ	5	C	H03-48	TO-116
7♦	SDA4041	ECT	FIX	256		950M	8	3.0	0.6			0	5.0	550m†	0	7	None	DIP18a
8♦	SP8605A	ECL	FIX	2		1.0G	1	-.93	-1.6C			5.2	0		5	C	H03-65	TO-8
9♦	SP8605B	ECL	FIX	2		1.0G	1	-.93	-1.6C			5.2	0		0	7	H03-65	TO-8
10♦	F11C05DC	ECT	FIX	4		1.0G	2	-1.0	-1.6C	18m	-1.0	5.0	0	450mQ	0	7	H03-48	TO-116
11♦	MC1697L	ECL	FIX	4		1.0G		-.96	-1.6C			5.2	0	320m†	0	7	K06-5	DIP8b
12♦	SAB1034P		FIX	4		1.0G	2	-1.1	-1.6			7.0	0	250m†	0	7	H03-52	DIP14b
13♦	SAB1048	ECT	FIX	4		1.0G	2	-1.1	-1.6			5.2	0	250m	0	7	H03-52	TO-116
14♦	SAF1034E	ECT	FIX	4		1.0G		-.88	-1.7C	20m	-.96	5.2	0	250m†	4	8	None	DIP14a
15♦	SP8610A	ECL	FIX	4		1.0G	2	-.93	-1.6C			5.2	0		5	C	H03-66	DIP14a
16♦	SP8610B	ECL	FIX	4		1.0G	2	-.93	-1.6C			5.2	0		0	7	H03-66	DIP14a
17♦	SP8675B	ECL	FIX	8		1.0G	2	-0.7	-1.8C			6.8	0		0	7	H03-79	DIP14a
18♦	SP8665B	ECT	FIX	10		1.0G	4	-.80	-1.8	20m		6.8	0	550m	0	7	H03-11	DIP14a
19♦	SP4020	ECL	FIX	64		1.0G	1					0	10.0	470m	0	6	H03-84	DIP14a
20♦	SP4021	ECL	FIX	64		1.0G	1					0	10.0	470m	0	6	H03-81	DIP14a
21♦	SP4633(A)	ECL	FIX	64		1.0G	1	4.5				0	7.0		0	8	H03-87	DIP8b
22♦	MC12023P	ECL	FIX	129	128	1.0G		2.0	0.8			0	8.8		4	8	K06-160	DIP8a
23♦	M54457P	TTL	FIX	256		1.0G	5	2.5	0.4			0	6.8		1	7	H03-85a	DIP14a
24♦	SAB1046	ECT	FIX	256		1.0G	8	7.5	1.5C			0	9.0	320m	0	7	H03-50	TO-116
25▼	M54452P	TTL	FIX	64		1.2G	4	2.5	0.4	5.0m	0.4	0	6.8		1	7	H03-84a	DIP14a
26♦	M54456P	TTL	FIX	64		1.2G	4	2.5	0.4			0	6.8		1	7	H03-85	DIP14a
27♦	SP4531(2)	ECL	FIX	64		1.2G	1					0	7.0		1	6	H03-87	DIP8b
28♦	SP4632	ECL	FIX	64		1.2G	1					0	7.0		1	6	403-87	DIP8b
29♦	SP8755A	TTL	FIX	64		1.2G	6	2.5	.45C	5.0m	.45	0	5.0		5	C	H03-81	DIP14a
30♦	SP8755B	TTL	FIX	64		1.2G	6	2.5	.45C	5.0m	.45	0	5.0		3	7	H03-81	DIP14a
31♦	M54463P	TTL	FIX	128		1.2G	5	2.5	0.4				6.8		1	7	H03-86	DIP14a
32♦	M54454P	TTL	FIX	256		1.2G	5	2.5	0.4	5.0m	0.4	0	6.8		1	7	H03-84	DIP14a
33♦	SP4642	TTL	FIX	256		1.2G	1			2.0m	0.4	0	7.0		1	6	H03-91	DIP8b
34♦	SP4652	ECL	FIX	256		1.2G	1					0	7.0		1	6	H03-92	DIP8b
35♦	SP4653	ECL	FIX	256		1.2G	1					0	7.0		1	6	H03-87a	DIP8b
36♦	SP8775	TTL	FIX	256		1.2G	8	3.3	.45C	2.0m	.45	0	5.0		3	7	H03-82	DIP14a
37♦	SP8606A	ECL	FIX	2		1.3G	1	-.93	-1.6C			5.2	0		5	C	None	TO-8
38♦	SP8606B	ECL	FIX	2		1.3G	1	-.93	-1.6C			5.2	0		0	7	None	TO-8
39♦	SP8611A	ECL	FIX	4		1.3G	2	-.93	-1.6C			5.2	0		5	C	H03-66a	DIP14a
40♦	SP8617BDC	ECL	FIX	4		1.3G	2	-.93	-1.6C			6.8	0.35		0	7	H03-66c	DIP14b
41♦	SP8617BDG	ECL	FIX	4		1.3G	2	-.93	-1.6C			6.8	0.35		0	7	H03-66c	DIP14a
42♦	SP8617MDC	ECL	FIX	4		1.3G	2	-.93	-1.6C			6.8	0.35		4	8	H03-66c	DIP14b
43♦	SP8617MDG	ECL	FIX	4		1.3G	2	-.93	-1.6C			6.8	0.35		4	8	H03-66c	DIP14a
44♦	MC12073D(A)	ECL	FIX	64		1.3G†	1								0	7	H03-87	FP129
45♦	MC12073P(2A)	ECL	FIX	64		1.3G†	1								0	7	H03-87	DIP8a
46♦	MC12074D(A)	ECL	FIX	256		1.3G†	1								0	7	H03-87a	FP129
47♦	MC12074P(2A)	ECL	FIX	256		1.3G†	1								0	7	H03-87a	DIP8a
48♦	SP4742(A)	TTL	FIX	256		1.3G	1			2.0m	0.4	0	7.0		1	6	H03-91	DIP8b
49♦	SP4780(A)		FIX	8192		1.3G	2			2.0m	0.4	0	7.0		1	7	H03-93	DIP8b
50♦	SAB1534P		FIX	4		1.5G	2	-1.1	-1.6			7.0	0	250m†	0	7	H03-52	DIP14b
51♦	SAF1534E	ECT	FIX	4		1.5G		-.88	-1.7C	20m	-.96	5.2	0	250m†	4	8	None	DIP14a
52♦	SP8611B	ECL	FIX	4		1.5G	2	-.93	-1.6C			5.2	0		0	7	H03-66a	DIP14a
53♦	SP8619BDC	ECL	FIX	4		1.5G	2	-.93	-1.6C			6.8	0.35		0	7	H03-66d	DIP14b
54♦	SP8619BDG	ECL	FIX	4		1.5G	2	-.93	-1.6C			6.8	0.35		0	7	H03-66d	DIP14a
55♦	SP8619MDC	ECL	FIX	4		1.5G	2	-.93	-1.6C			6.8	0.35		4	8	H03-66d	DIP14b
56♦	SP8619MDG	ECL	FIX	4		1.5G	2	-.93	-1.6C			6.8	0.35		4	8	H03-66d	DIP14a
57♦	SP8678B	ECL	FIX	8		1.5G	2	-0.7	-1.8C			6.8	0		0	7	H03-79a	DIP14a
58♦	SP8668B	ECL	FIX	10		1.5G	4	-0.7	-1.8C			6.8	0		0	7	H03-11a	DIP14a
59♦	U656BS	ECL	FIX	256		1.5G	5						5.0		2	8	H03-102	DIP8
60♦	MC1697P	ECL	FIX	4		1.6G		-.96	-1.6C			5.2	0	320m†	0	7	K06-5	DIP8a
61♦	SP8612BDC	ECL	FIX	4		1.8G	2	-.93	-1.6C			5.2	0		0	7	H03-66b	DIP14b
62♦	SP8612BDG	ECL	FIX	4		1.8G	2	-.93	-1.6C			5.2	0		0	7	H03-66b	DIP14a
63♦	U4620B		FIX	4		2.0G	1						5.0		4	8	H03-101	TO-50
64♦	U822BS(2)		FIX	2		2.2G	1						5.0		2	7	H03-100	TO-50
65♦	U824BS(2)		FIX	4		2.2G	1						5.0		2	7	H03-101	TO-50
66♦	SP8712B	ECL	FIX	4		2.4G	2	-1.9	-0.7C			6.8	0		0	7	H03-48	DIP14a
67	HMD11301-2	GA	FIX	2		3.0G		-0.8	-1.8C			4.0	5.5	1.5	5	8	H03-88	FP184
68▼	FMM100FG(A)	GA	FIX			4.2G	4					7.0	0.0	1.0			H03-108	FP130

FREQUENCY DIVIDER, PROGRAMMABLE

72▼	M54HC292F1	CMS	PROG					3.15	1.35				5.0		5	C	54LS292	DIP16a
73▼	M54HC294F1	CMS	PROG					3.15	1.35				5.0		5	C	54LS294	DIP16a
74▼	M74HC292B1	CMS	PROG					3.15	1.35				5.0		4	8	74LS292	DIP16a
75▼	M74HC292C1(A)	CMS	PROG										6.0				H01-47	LC19
76▼	M74HC292F1	CMS	PROG					3.15	1.35				5.0		4	8	74LS292	DIP16a
77▼	M74HC294B1	CMS	PROG					3.15	1.35				5.0		4	8	74LS294	DIP16a
78▼	M74HC294C1	CMS	PROG					3.15	1.35				5.0		4	8	H01-48	LC19
79▼	M74HC294F1	CMS	PROG					3.15	1.35				5.0		4	8	74LS294	DIP16a
80	K155IE8	TTL	PROG	64				2.4	0.4				5.0		1	7	None	None
81	ZN1034D(1)	TTL	PROG	4096			12	2.5	0.4C	25m	.40	0	5.0	250m	0	7	J06-7	FP147 ☑
82♦	ZN1034E	TTL	PROG	4096			12	2.5	0.4C	25m	.40	0	5.0	250m	0	7	J06-7	DIP14a ☑
83♦	ZN1034E(1)	TTL	PROG	4096			12	2.5	0.4C	25m	.40	0	5.0	25mQ	0	7	J06-7	DIP14a ☑
84	ZN1034P(1)	TTL	PROG	4096			12	2.5	0.4C	25m	.40	0	5.0	25mQ	0	7	J06-7	DL ☑
85♦	ZN1034T(1)	TTL	PROG	4096			12	2.5	0.4C	25m	.40	0	5.0	25mQ	0	7	J06-7	TO-100
86	74HC4059D	CMS	PROG	15999				3.15	1.35				5.0		4	8	40-59A	FP170
87♦	74HC4059N	CMS	PROG	15999				4.2	1.8			0.5	7.0		4	8	40-59A	DIP24a
88	74HCT4059D	CMS	PROG	15999				2.0	0.8				5.0		4	8	40-59A	FP170
89♦	74HCT4059N	CMS	PROG	15999				2.0	0.8				5.0		4	8	40-59A	DIP24a
90♦	CD54HC4059F	CMS	PROG	15999				3.15	1.35	20u	0.1	0	5.0	500m	5	C	40-59	MO015AA
91♦	CD54HCT4059F	CMS	PROG	15999				2.0	0.8	20u	0.1	0	5.0	500m	5	C	40-59	MO015AA
92♦	CD74HC4059E	CMS	PROG	15999	3			3.15	1.35	20u	0.1	0	5.0	500m	4	8	40-59	MO015AA
93♦	CD74HC4059M	CMS	PROG	15999				3.15	1.35	20u	0.1	0	5.0	400m	4	8	40-59	FP170
94♦	CD74HCT4059E	CMS	PROG	15999				2.0	0.8	20u	0.1	0	5.0	500m	4	8	40-59	MO015AA
95♦	CD74HCT4059M	CMS	PROG	15999				2.0	0.8	20u	0.1	0	5.0	400m	4	8	40-59	FP170
96♦	HEF4059BPN	CMS	PROG	15999			5	11.0	4.0	3.0m	1.5	0	15	400m	4	8	40-59A	DIP24a
97♦	MC54HC294J(A)	CMS	PROG	32768				3.15	0.9			0.5	7.0	500m	5	C	74LS294	DIP16a
98♦	MC74HC294J(A)	CMS	PROG	32768				3.15	0.9			0.5	7.0	500m	4	8	74LS294	DIP16a
99♦	MC74HC294N(A)	CMS	PROG	32768				3.15	0.9			0.5	7.0	500m	4	8	74LS294	DIP16b
100♦	MC54HC292J(A)	CMS	PROG	2.147G				3.15	0.9			0.5	7.0	500m	5	C	74LS292	DIP16a
101♦	MC74HC292J(A)	CMS	PROG	2.147G				3.15	0.9			0.5	7.0	500m	4	8	74LS292	DIP16a
102♦	MC74HC292N(A)	CMS	PROG	2.147G				3.15	0.9			0.5	7.0	500m	4	8	74LS292	DIP16b
103♦	HEF4059BT	CMS	PROG	16k	3	15 †	5	7.0	3.0			0	15	400m	4	8	40-59A	FP170 ☑
104♦	MM5307AAD	PCH	PROG	1152		1.0M	4F	3.5	0.8	1.6m	.40	12	5.0	420m	0	7	H01-7	DIP14a
105♦	MM5307AAN	PCH	PROG	1152		1.0M	4F	3.5	0.8	1.6m	.40	12	5.0	420m	0	7	H01-7	DIP14a
106♦	RED5/6	CMS	PROG	6	5	1.2M	2	4.99	0.01C	.18m	0.4	0.5	18		4	8	H03-62	DIP8a
107♦	RED50/60	CMS	PROG	60	50	1.2M	2	4.99	0.01C	.18m	0.4	0.5	18		4	8	H03-62	DIP8a
108♦	RED100/120	CMS	PROG	120	100	1.2M	2	4.99	0.01C	.18m	0.4	0.5	18		4	8	H03-62	DIP8a
109▼	MC12071L		PROG	256		1.2M	2F	2.4	0.8			0	7.0	450m	0	7	H01-19	DIP14a
110♦	MC12071P		PROG	256		1.2M	2F	2.4	0.8			0	7.0	450m	0	7	H01-19	DIP14a

13. FREQUENCY DIVIDERS - Programmable (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) f MAX
(3) MAXIMUM MODULUS & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[1] TYPE CODE	[3] MODULUS MAX	MODULUS MIN	[2] f MAX (Hz)	NOTAGE	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	RED300/360	CMS	PROG	360	300	1.2M	2	4.99	0.01C	.18m	0.4	0.5	18		4	8	H03-62	DIP8a
2♦	RED500/600	CMS	PROG	600	500	1.2M	3	4.99	0.01C	.18m	0.4		5.0		4	8	H03-62	DIP8a
3♦	RED3000/3600	CMS	PROG	3600		1.2M	2	4.99	0.01C	.18m	0.4	0.5	18		4	8	H03-62	DIP8a
4♦	MC14568BAL	CMS	PROG	100	4	2.2M†	7	7.0	4.5				10		5	C	E08-2	DIP16a
5▼	MC14568BALD	CMS	PROG	100	4	2.2M†	7	7.0	4.5				10		5	C	E08-2	DIP16a
6▼	MC14568BALDS	CMS	PROG	100	4	2.2M†	7	7.0	4.5				10		5	C	E08-2	DIP16a
7▼	MC14568BALS	CMS	PROG	100	4	2.2M†	7	7.0	4.5				10		5	C	E08-2	DIP16a
8♦	MC14568BCL	CMS	PROG	100	4	2.2M†	7	7.0	4.5				10		4	8	E08-2	DIP16a
9▼	MC14568BCLD	CMS	PROG	100	4	2.2M†	7	7.0	4.5				10		4	8	E08-2	DIP16a
10▼	MC14568BCLDS	CMS	PROG	100	4	2.2M†	7	7.0	4.5				10		4	8	E08-2	DIP16a
11▼	MC14568BCLS	CMS	PROG	100	4	2.2M†	7	7.0	4.5				10		4	8	E08-2	DIP16a
12♦	MC14568BCP	CMS	PROG	100	4	2.2M†	7	7.0	4.5				10		4	8	E08-2	DIP16a
13▼	MC14568BCPD	CMS	PROG	100	4	2.2M†	7	7.0	4.5				10		4	8	E08-2	DIP16a
14▼	MC14568BCPDS	CMS	PROG	100	4	2.2M†	7	7.0	4.5				10		4	8	E08-2	DIP16a
15▼	MC14568BCPS	CMS	PROG	100	4	2.2M†	7	7.0	4.5				10		4	8	E08-2	DIP16a
16▼	MC14568BD	CMS	PROG	100	4	2.2M†	7	7.0	4.5				10		4	8	E08-2	DIP16a
17▼	M54819L	IIL	PROG	16	2	3.0M	6	2.0	0.6	1.6m	0.4	0.0	14.5		2	7	H01-36	SL10A ☑
18♦	HBC4059AD	CMS	PROG	15999		3.0M	5	8.0	2.0	4.0m†	.50	0	10	200uQ	5	C	40-59A	DIP24a
19	HBC4059AK	CMS	PROG	15999		3.0M	5	8.0	2.0	4.0m†	.50	0	10	200uQ	5	C	40-59A	FP109
20♦	HBF4059AD	CMS	PROG	15999		3.0M	5	8.0	2.0	4.0m†	.50	0	10	200uQ	4	8	40-59A	DIP24a
21	HBF4059AE	CMS	PROG	15999		3.0M	5	8.0	2.0	4.0m†	.50	0	10	200uQ	4	8	40-59A	MO015AA
22♦	M58478P(2)	CMS	PROG	88672		5.5M	17	6.0	0.5			0	8.5	250m	3	7	H01-21	DIP8a
23♦	RDD104	CMS	PROG	10000		6M	4			1.6m	4.75	-0.5	18.0		4	8	H03-63	DIP8 ☑
24	CD4059AD	CMS	PROG	15999		6.0M	5	9.95	0.05C	2.3m	0.5	0.5	15	500m	5	C	40-59A	MO015AG
25	CD4059AE	CMS	PROG	15999		6.0M	5	9.95	0.05C	3.3m	0.5	0.5	15	500m	4	8	40-59A	MO015AA
26♦	HD14568B	CMS	PROG	100	4	9.0M	7					0	15		4	8	E08-2	DIP16b
27♦	MC14569BAL	CMS	PROG	16		9.5M	4F	11	4.0	3.4m	1.5	0	15	9.0mQ	5	C	45-69	DIP16a
28▼	MC14569BALD	CMS	PROG	16		9.5M	4F	11	4.0	3.4m	1.5	0	15	9.0mQ	5	C	45-69	DIP16a
29▼	MC14569BALDS	CMS	PROG	16		9.5M	4F	11	4.0	3.4m	1.5	0	15	9.0mQ	5	C	45-69	DIP16a
30▼	MC14569BALS	CMS	PROG	16		9.5M	4F	11	4.0	3.4m	1.5	0	15	9.0mQ	5	C	45-69	DIP16a
31♦	MC14569BCL	CMS	PROG	16		9.5M	4F	11	4.0	3.0m	1.5	0	15	9.0mQ	4	8	45-69	DIP16a
32▼	MC14569BCLD	CMS	PROG	16		9.5M	4F	11	4.0	3.0m	1.5	0	15	9.0mQ	4	8	45-69	DIP16a
33▼	MC14569BCLDS	CMS	PROG	16		9.5M	4F	11	4.0	3.0m	1.5	0	15	9.0mQ	4	8	45-69	DIP16a
34▼	MC14569BCLS	CMS	PROG	16		9.5M	4F	11	4.0	3.0m	1.5	0	15	9.0mQ	4	8	45-69	DIP16a
35♦	MC14569BCP	CMS	PROG	16		9.5M	4F	11	4.0	3.0m	1.5	0	15	9.0mQ	4	8	45-69	DIP16a
36▼	MC14569BCPD	CMS	PROG	16		9.5M	4F	11	4.0	3.0m	1.5	0	15	9.0mQ	4	8	45-69	DIP16a
37▼	MC14569BCPDS	CMS	PROG	16		9.5M	4F	11	4.0	3.0m	1.5	0	15	9.0mQ	4	8	45-69	DIP16a
38▼	MC14569BCPS	CMS	PROG	16		9.5M	4F	11	4.0	3.0m	1.5	0	15	9.0mQ	4	8	45-69	DIP16a
39▼	MC14569BDW	CMS	PROG	16		9.5M	4F	11	4.0	3.0m	1.5	0	15	9.0mQ	4	8	45-69	DIP16a
40♦	HEF4751VT	CMS	PROG	11		15M	5	7.0	3.0	1u	1.0	0	10	400m	4	8	47-51	FP174
41♦	HEF4059BD	CMS	PROG	16k	3	15M†	5	7.0	3.0			0	15	500m	4	8	40-59A	DIP24b
42♦	HEF4059BP	CMS	PROG	16k	3	15M†	5	7.0	3.0			0	10	500m	4	8	40-59A	DIP24b
43♦	DM7520J	TTL	PROG	15	2	20M	4	2.0	0.8	16m	0.4		5.0	250m	5	C	H01-50	DIP16b
44▼	DM8520N	TTL	PROG	15	2	20M	4	2.0	0.8	16m	0.4		5.0	250m	0	7	H01-50	DIP16a
45♦	MM54HC292J(A)	CMS	PROG	31	2	21M	5F	4.2	1.2	4.0m	400m	0.5	7.0	500m	5	C	74LS292	DIP16a
46▼	HD74HC294FP	CMS	PROG	32768		21M		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS294	FP162
47▼	HD74HC294P	CMS	PROG	32768		21M		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS294	DIP16a
48▼	HD74HC292FP	CMS	PROG	2.147G		21M		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS292	FP162
49▼	HD74HC292P	CMS	PROG	2.147G		21M		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS292	DIP16a
50♦	HEF4751VD	CMS	PROG	11		24M†	5	7.0	3.0	1u	1.0	0	10	500m	4	8	47-51	DIP28b
51♦	HEF4751VP	CMS	PROG	11		24M†	5	7.0	3.0	1u	1.0	0	10	500m	4	8	47-51	DIP28b
52♦	MM74HC292J(A)	CMS	PROG	31	2	25M	5F	4.2	1.2	4.0m	400m	0.5	7.0	500m	4	8	74LS292	DIP16a
53♦	MM74HC292N(A)	CMS	PROG	31	2	25M	5F	4.2	1.2	4.0m	400m	0.5	7.0	500m	4	8	74LS292	DIP16a
54♦	HEF4521BD	CMS	PROG	16.7M		25M†	24	7.0	3.0	1u	1.0	0	10	500m	4	8	45-21B	DIP16b
55♦	HEF4521BP	CMS	PROG	16.7M		25M†	24	7.0	3.0	1u	1.0	0	10	500m	4	8	45-21B	DIP16b
56♦	HEF4521BT	CMS	PROG	16.7M		25M†	24	7.0	3.0	1u	1.0	0	10	400m	4	8	45-21	FP148
57♦	PC74HC4059P	CMS	PROG	15999	3	40M		3.15	1.35			0	5.0		4	C	40-59	DIP24
58	PC74HC4059T	CMS	PROG	15999	3	40M		3.15	1.35			0	5.0		4	C	40-59	FP170
59♦	SN74LS294N	TTL	PROG	32768		50M		2.0	0.8	24m	0.5	0	7.0		0	7	74LS294	DIP16a
60♦	SN74LS292N	TTL	PROG	2.147G		50M		2.0	0.8	24m	0.5	0	7.0		0	7	74LS292	DIP16a
61▼	TC74HC7292P	CMS	PROG	2.147G	4	50M†		3.15	1.35	4m	0.33	0	5.0	500m	4	8	74LS292	DIP16a
62▼	TC74HC7294P	TTL	PROG	32768	4	60M†		3.15	1.35	4m	0.33	0	5.0	500m	4	8	74LS294	DIP16a
63♦	SAA1059(A)	TTL	PROG	33		125M	1	3.0	2.0			0	7.0	760m	2	8	H01-35	DIP16 ☑
64♦	M54459L	TTL	PROG	100	20	130M	4			2.0m	0.5		5.0		1	7	H01-38	SL10A
65▼	M54460L	TTL	PROG	100	10	130M	4			5.0m	0.5		5.0		1	7	H01-55	SL10A
66▼	M54455L	TTL	PROG	40	4	150M	4			5.0m	0.5		5.0		1	7	H01-54	SL10A
67♦	SP8691A	ECL	PROG	9	8	200M	4	4.5	0.5C			0	5.0		5	C	H01-24a	DIP16a
68♦	SP8691B	ECL	PROG	9	8	200M	4	4.5	0.5C			0	5.0		3	7	H01-24a	DIP16a
69♦	SP8690A	ECL	PROG	11	10	200M	4	4.5	0.5C			0	5.0		5	C	H01-24	DIP16a
70♦	SP8690B	ECL	PROG	11	10	200M	4	4.5	0.5C			0	5.0		3	7	H01-24	DIP16a
71♦	SP8695A	ECT	PROG	11		200M	4	4.1	3.5	3.2m	.40	0	5.0	80m†	5	C	H01-5	DIP16a
72♦	SP8695B	ECT	PROG	11		200M	4	4.1	3.5	3.2m	.40	0	5.0	80m†	0	7	H01-5	DIP16a
73♦	SP8793A	CMS	PROG	41	40	200M	1	2.4	0.5C	2.0m	0.5	0	5.2		3	7	H01-34c	DIP8b
74♦	PC1912B		PROG	60		200M†	4F	-3.0	-4.5			14	0	280m	0	7	H01-8	DIP40a
75♦	PC1912F		PROG	60		200M†	4F	-3.0	-4.5			14	0	280m	0	7	H01-8	DIP28b
76♦	SP8792A	CMS	PROG	81	80	200M	1	2.4	0.5C	2.0m	0.5	0	5.2		3	7	H01-34b	DIP8b
77	M54466L		PROG	110		200M	2	5.0	4.0			0	6.0	160m	2	7	H01-41	SL8C
78♦	DS8614N	TTL	PROG	21	20	225M		2.0	0.8			0	15		3	7	K06-155	DIP8a
79▼	MC12019L	ECL	PROG	21	20	225M		2.0	0.8			0	8.0		4	8	K06-163	DIP8a
80♦	MC12019P	ECL	PROG	21	20	225M		2.0	0.8			0	8.0		4	8	K06-163	DIP8a
81♦	DS8615N(A)	TTL	PROG	33	32	225M		2.0	0.8			0	15		3	7	K06-155	DIP8a
82▼	MC12015L	ECL	PROG	33	32	225M		2.0	0.8			0	10		4	8	K06-154	DIP8a
83♦	MC12015P	ECL	PROG	33	32	225M		2.0	0.8			0	10		4	8	K06-154	DIP8a
84♦	DS8616N(A)	TTL	PROG	41	40	225M		2.0	0.8			0	15		3	7	K06-155	DIP8a
85▼	MC12016L	ECL	PROG	41	40	225M		2.0	0.8			0	10		4	8	K06-154a	DIP8a
86♦	MC12016P	ECL	PROG	41	40	225M		2.0	0.8			0	10		4	8	K06-154a	DIP8a
87♦	SP8793	CMS	PROG	41	40	225M	1	2.4	0.5C	2.0m	0.5	0	5.2		3	7	H01-34a	DIP8b
88♦	DS8617N(A)	TTL	PROG	65	64	225M		2.0	0.8			0	15		3	7	K06-158	DIP8a
89▼	MC12017L	ECL	PROG	65	64	225M		2.0	0.8			0	10		4	8	K06-154b	DIP8a
90♦	MC12017P	ECL	PROG	65	64	225M		2.0	0.8			0	10		4	8	K06-154b	DIP8a
91♦	SP8792	CMS	PROG	81	80	225M	1	2.4	0.5C	2.0m	0.5	0	5.2		3	7	H01-34	DIP8b
92♦	SP8647ADG	ECL	PROG	11	10	250M	4	-.93	-1.6C			5.2	0.25		5	C	H01-22	DIP16a
93♦	SP8647ADP	ECL	PROG	11	10	250M	4	-.93	-1.6C			5.2	0.25		5	C	H01-22	DIP16 ☑
94♦	SP8647BDG	ECL	PROG	11	10	250M	4	-.93	-1.6C			5.2	0.25		3	7	H01-22	DIP16a
95♦	SP8647BDP	ECL	PROG	11	10	250M	4	-.93	-1.6C			5.2	0.25		3	7	H01-22	DIP16 ☑
96♦	SP8720A	ECL	PROG	4	3	300M	2	-0.7	-1.8C			5.2	0		5	C	H01-26	DIP16a
97♦	SP8720B	ECL	PROG	4	3	300M	2	-0.7	-1.8C			5.2	0		3	7	H01-26	DIP16a
98♦	SP8740A	ECL	PROG	6		300M	3	-0.7	-1.8C			5.2	0		5	C	H01-28	DIP16a
99♦	SP8740B	ECL	PROG	6		300M	3	-0.7	-1.8C			5.2	0		3	7	H01-28	DIP16a
100♦	SP8741A	ECL	PROG	7	6	300M	3	-0.7	-1.8C			5.2	0		5	C	H01-28a	DIP16a
101♦	SP8741B	ECL	PROG	7	6	300M	3	-0.7	-1.8C			5.2	0		3	7	H01-28a	DIP16a
102♦	SP8643A	ECL	PROG	11	10	350M	4	-.93	-1.6C			5.2	0		5	C	H01-21	DIP16a
103♦	SP8743A	ECL	PROG	9	8	450M	1	-0.7	-1.8C			5.2	0		5	C	H01-28b	DIP16a
104♦	SP8743B	ECL	PROG	9	8	500M	1	-0.7	-1.8C			5.2	0		3	7	H01-28c	DIP16a
105♦	SP8685A	ECT	PROG	11		500M	4	.80Δ	0.4*	20m		0	5.2		5	C	H01-4	DIP16a
106♦	SP8685B	ECT	PROG	11		500M	4	.80Δ	0.4*	20m		0	5.2		0	7	H01-4	DIP16a
107♦	S89(2)	ECT	PROG	202		500M	8	4.9	1.5			0	5.0	425m	3	8	H01-57	DIP14a
108♦	SP8716	CMS	PROG	41	40	520M		4.0	1.0C			0	5.2	50m	3	7	H01-52	DIP8a
109♦	SP8718	CMS	PROG	65	64	520M		4.0	1.0C			0	5.2	50m	3	7	H01-52	DIP8a
110♦	SP8719	CMS	PROG	65	80	520M		4.0	1.0C			0	5.2	50m	3	7	H01-52	DIP8a

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

13. FREQUENCY DIVIDERS - Programmable (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) f MAX
(3) MAXIMUM MODULUS & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[1] TYPE [3] CODE	MODULUS MAX	MODULUS MIN	[2] f MAX (Hz)	NOTAGE	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	MC12018L	ECL	PROG	129	128	520M		2.0	0.8			0	8.0		4	8	K06-160	DIP8a
2♦	MC12018P	ECL	PROG	129	128	520M		2.0	0.8			0	8.0		4	8	K06-160	DIP8a
3♦	MC12511P	ECT	PROG	9		600M	4	1.1	1.4			8.0	0		5	C	H01-16a	DIP16b
4♦	SP8680A	ECL	PROG	11	10	600M	4	2.3	0.5C	20m	0.5	5.5	4.7		5	C	H01-23	DIP16a
5♦	SP8680B	ECL	PROG	11	10	600M	4	2.3	0.5C	20m	0.5	5.5	4.7		0	7	H01-23	DIP16a
6♦	F11C91DC	BIP	PROG	6		650M		-1.0	-1.4			5.2	0	619m	0	7	K06-14a	DIP16a
7♦	F11C91DM	BIP	PROG	6		650M		-1.0	-1.4			5.2	0	619m	5	C	K06-14a	DIP16a
8♦	8680	ECL	PROG	11		650M	4	3.9	3.5	20m	0.5	0	8.0		0	7	H01-23	DIP16 ☑
9♦	F11C90DC	BIP	PROG	11	10	650M		-1.0	-1.4			5.2	0	619m	0	7	K06-14	DIP16a
10♦	F11C90DM	BIP	PROG	11	10	650M		-1.0	-1.4			5.2	0	619m	5	C	K06-14	DIP16a
11♦	SP8785A	ECL	PROG	22	20	1.0G	4	-.78	-1.8C			5.2	0		5	C	H01-32	DIP16a
12♦	SP8785B	ECL	PROG	22	20	1.0G	4	-.78	-1.8C			5.2	0		3	7	H01-32	DIP16a
13♦	SP8785M	ECL	PROG	22	20	1.0G	5	-.93	-1.6			5.2	0	440m	4	8	H01-32	DIP16a
14♦	M54465SP		PROG	64		1.0G	3	4.0	3.1			0	6.0	450m	1	7	H01-40	DIP14a
15	M56672L		PROG	64		1.0G	4	4.0	3.4			0	7.0	300m	2	7	H01-39	SL8C
16♦	MC12022P(A)	ECL	PROG	129	128	1.0G		2.0	0.8			0	8.8		4	8	K06-160	DIP8a
17♦	SP8703	CMS	PROG	129	128	1.0G		3.2	1.7C	200u	1.7	0	5.0		3	7	H01-51	DIP8a
18♦	F11C83DC	BIP	PROG	256	248	1.0G		-1.0	-1.4			5.2	0	650m	0	7	K06-13	TO-116
19	M54462AL		PROG	256		1.0G	6	2.4	0.45	2.0m	0.45	0	7.0	300m	2	7	H01-39	SL8C
20♦	M54462P	TTL	PROG	256	64	1.0G	6	2.4	0.5	2.0m	0.45		5.0	1.3	1	7	H01-37	DIP14a
21	M54468AL		PROG	256		1.0G	6	4.0	3.4			0	7.0	300m	2	7	H01-39	SL8C
22♦	M56475P		PROG	16512		1.0G	6	4.0	3.6			0	7.0	300m	2	7	H01-43	DIP8a
23♦	M56470AP		PROG	17400		1.0G	8	5.0	4.3			0	7.0	500m	2	7	H01-42	DIP8a
24	M56670L		PROG	17400		1.0G	8	5.0	4.3			0	7.0	500m	2	7	H01-39	SL8C
25♦	SP8786A	ECL	PROG	22	20	1.3G	4	-.78	-1.8C			5.2	0		5	C	H01-32a	DIP16a
26♦	SP8786B	ECL	PROG	22	20	1.3G	4	-.78	-1.8C			5.2	0		3	7	H01-32a	DIP16a
27♦	SP8786M	ECL	PROG	22	20	1.3G	5	-.93	-1.6			5.2	0	440m	4	8	H01-32a	DIP16a
28	M56671L		PROG	64		1.3G	4	4.0	3.4			0	7.0	300m	2	7	H01-39	SL8C
29	M54473L		PROG	256		1.3G	5	2.4	0.5	2.0m	0.45	0	7.0	300m	2	7	H01-39	SL8C
30	M54474L		PROG	256		1.3G	5	4.0	3.4			0	7.0	300m	2	7	H01-39	SL8C
31	10G070-3F(A)	ECL	PROG	41		1.8G	4	-0.6	-1.8	70m	-.95	7.0	4.0	1.5			K06-167	FP172
32	10G070-3L(A)	ECL	PROG	41		1.8G	4	-0.6	-1.8	70m	-.95	7.0	4.0	1.5			K06-166	LC31
33	10G070-4F(A)	ECL	PROG	41		1.8G	4	-0.6	-1.8	70m	-.95	7.0	4.0	1.5			K06-167	FP172
34	10G070-4L(A)	ECL	PROG	41		1.8G	4	-0.6	-1.8	70m	-.95	7.0	4.0	1.5			K06-166	LC31
35	10G070F(A)	ECL	PROG	41		1.8G	4	-0.6	-1.8	70m	-.95	7.0	4.0	1.5			K06-167	FP172
36	10G070L(A)	ECL	PROG	41		1.8G	4	-0.6	-1.8	70m	-.95	7.0	4.0	1.5			K06-166	LC31
37	HMD11011-2	GA	PROG	11		2.2G	4	-1.0	-1.6		-1.7		5.2	2.5	5	8	H01-46	FP184

RATE MULTIPLIER

41♦	TC4527BP	CMS	RATE	10		2.5M	4	14.9	.05C	3.0m	1.5	0	15	300m	4	8	45-27B	DIP16a
42♦	SCL4527B	CMS	RATE	10		3.0M†	4	3.5Δ	1.0*	1.3m	.50	0.5	18	100uQ	5	C	45-27B	DIP16a
43♦	MC14527BCL	CMS	RATE	10		3.3M	4	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-27B	DIP16b
44▼	MC14527BCLD	CMS	RATE	10		3.3M	4	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-27B	DIP16b
45▼	MC14527BCLDS	CMS	RATE	10		3.3M	4	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-27B	DIP16b
46▼	MC14527BCLS	CMS	RATE	10		3.3M	4	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-27B	DIP16b
47♦	MC14527BCP	CMS	RATE	10		3.3M	4	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-27B	DIP16a
48▼	MC14527BCPD	CMS	RATE	10		3.3M	4	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-27B	DIP16a
49▼	MC14527BCPDS	CMS	RATE	10		3.3M	4	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-27B	DIP16a
50▼	MC14527BCPS	CMS	RATE	10		3.3M	4	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-27B	DIP16a
51▼	MC14527BDW	CMS	RATE	10		3.3M	4	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-27B	DIP16a
52♦	MC14527BAL	CMS	RATE	10		4.0M	4	11.0	4.0	3.0m	1.5	0	15	300uQ	5	C	45-27B	DIP16b
53▼	MC14527BALD	CMS	RATE	10		4.0M	4	11.0	4.0	3.0m	1.5	0	15	300uQ	5	C	45-27B	DIP16b
54▼	MC14527BALDS	CMS	RATE	10		4.0M	4	11.0	4.0	3.0m	1.5	0	15	300uQ	5	C	45-27B	DIP16b
55▼	MC14527BALS	CMS	RATE	10		4.0M	4	11.0	4.0	3.0m	1.5	0	15	300uQ	5	C	45-27B	DIP16b
56	CD4089BD	CMS	RATE	16		5.0M	4	7.0	3.0	1.3m	0.5	0.5	20	500m	5	C	40-89B	MO001AE
57	CD4089BE	CMS	RATE	16		5.0M	4	7.0	3.0	1.3m	0.5	0.5	20	500m	4	8	40-89B	MO001AC
58	CD4089BF	CMS	RATE	16		5.0M	4	7.0	3.0	1.3m	0.5	0.5	20	500m	5	C	40-89B	MO001AC
59♦	HCC4527BD	CMS	RATE	10		5.5M†	4	11	4.0	6.8m†	1.5	1	15	300uQ	5	C	45-27B	DIP16a
60♦	HCC4527BF	CMS	RATE	10		5.5M†	4	11	4.0	6.8m†	1.5	0	15	300uQ	5	C	45-27B	DIP16a
61	HCC4527BK	CMS	RATE	10		5.5M†	4	11	4.0	6.8m†	1.5	0	15	300uQ	5	C	45-27B	FP131
62♦	HCF4527BE	CMS	RATE	10		5.5M†	4	11	4.0	6.8m†	1.5	0	15	300uQ	4	8	45-27B	DIP16a
63♦	HCF4527BF	CMS	RATE	10		5.5M†	4	11	4.0	6.8m†	1.5	0	15	300uQ	4	8	45-27B	DIP16a
64♦	HCC4089BD	CMS	RATE	16		5.5M†	4	11	4.0	6.8m†	1.5	0	15	300uQ	5	C	40-89B	DIP16a
65♦	HCC4089BF	CMS	RATE	16		5.5M†	4	11	4.0	6.8m†	1.5	0	15	300uQ	5	C	40-89B	DIP16a
66	HCC4089BK	CMS	RATE	16		5.5M†	4	11	4.0	6.8m†	1.5	0	15	300uQ	5	C	40-89B	FP131
67♦	HCF4089BE	CMS	RATE	16		5.5M†	4	11	4.0	6.8m†	1.5	0	15	300uQ	4	8	40-89B	DIP16a
68♦	HCF4089BF	CMS	RATE	16		5.5M†	4	11	4.0	6.8m†	1.5	0	15	300uQ	4	8	40-89B	DIP16a
69♦	CD4527BCJ	CMS	RATE	10		7.0M†	4	11	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-27B	DIP16a
70♦	CD4527BCN	CMS	RATE	10		7.0M†	4	11	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-27B	DIP16a
71	CD4527BD	CMS	RATE	10		7.0M†	4	11	4.0	3.4m	1.5	0	15	500m	5	C	45-27B	MO001AE
72	CD4527BE	CMS	RATE	10		7.0M†	4	11	4.0	3.4m	1.5	0	15	500m	4	8	45-27B	MO001AC
73	CD4527BF	CMS	RATE	10		7.0M†	4	11	4.0	3.4m	1.5	0	15	500m	5	C	45-27B	MO001AC
74♦	CD4527BMJ	CMS	RATE	10		7.0M†	4	11	4.0	3.4m	1.5	0	15	300uQ	5	C	45-27B	DIP16a
75	CD4527BMW	CMS	RATE	10		7.0M†	4	11	4.0	3.4m	1.5	0	15	300uQ	5	C	45-27B	FP88c
76♦	CD4089BCJ	CMS	RATE	16		7.0M†	4	11	4.0	3.0m	1.5	0	15	1.2mQ	4	8	40-89B	DIP16a
77♦	CD4089BCN	CMS	RATE	16		7.0M†	4	11	4.0	3.0m	1.5	0	15	1.2mQ	4	8	40-89B	DIP16a
78♦	CD4089BMJ	CMS	RATE	16		7.0M†	4	11	4.0	3.4m	1.5	0	15	300uQ	5	C	40-89B	DIP16a
79	CD4089BMW	CMS	RATE	16		7.0M†	4	11	4.0	3.4m	1.5	0	15	300uQ	5	C	40-89B	FP88c
80	883C4527B	CMS	RATE	10		8.0M	4	8.2	6.7	3.4m	1.5	0	15	300m	5	C	45-27B	MO001AG
81♦	HEF4527BPN	CMS	RATE	10		10M	1	11.0	4.0	3.0m	1.5	0	15	400m	4	8	45-27B	DIP16b
82	BCL4527B	CMS	RATE	4		12M	21	8.2	6.7	3.4m	1.5	0	15	300m	5	C	44-45	MO001AG
83♦	HEF4527BP	CMS	RATE			22M†	4	7.0	3.0	1u	1.0	0	10	500m	4	8	45-27B	DIP16b
84♦	HEF4527BD	CMS	RATE	16		22M†	4	7.0	3.0	1u	1.0	0	10	500m	4	8	45-27B	DIP16b
85♦	HEF4527BT	CMS	RATE	16		22M†	4	7.0	3.0	1u	1.0	0	10	400m	4	8	45-27B	FP148
86	54167FM	TTL	RATE	10		25M	2	2.0	0.8			0	5.0	495m	5	C	54-167	FP93c
87	74167PC	TTL	RATE	10		25M	2	2.0	0.8			0	5.0		0	7	H02-11	None
88♦	SN54167J	TTL	RATE	10		32M	4F	2.0	0.8	16m	0.4	0	7.0	495m	5	C	74-167	DIP16a
89♦	SN74167N	TTL	RATE	10		32M	4F	2.0	0.8	16m	0.4	0	7.0	495m	0	7	74-167	DIP16a
90♦	SN5497J	TTL	RATE	64		32M	6F	2.0	0.8	16m	0.4	0	7.0	400m†	5	C	74-97	DIP16a
91♦	SN7497N	TTL	RATE	64		32M	6F	2.0	0.8	16m	0.4	0	7.0	400m†	0	7	74-97	DIP16a
92♦	SAB1078D	ECL	RATE	11	10	325M		3.3	4.1	20m	0.5	7.0	0		0	7	H02-13	DIP16
93♦	SAB1078P	ECL	RATE	11	10	325M		3.3	4.1	20m	0.5	7.0	0		0	7	H02-13	DIP16
94♦	SAB1078AD	ECL	RATE	11	10	625M		3.3	4.1	20m	0.5	7.0	0		0	7	H02-13	DIP16
95♦	SAB1078AP	ECL	RATE	11	10	625M		3.3	4.1	20m	0.5	7.0	0		0	7	H02-13	DIP16
96♦	SAB1018A(1)	ECL	RATE	256		950M		10Δ	3.4C	2.0m	3.4	0	5.0		0	7	H02-15	DIP8a
97♦	SAB1018P(2)	ECL	RATE	256		950M		10Δ	3.4C	2.0m	3.4	0	5.0		0	7	H02-14	DIP14b

15. ADDERS - Adder/Subtracter (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[1] TYPE CODE	[2] BITS	[3] tpd MAX (s)	OMPOER	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	SEE DRAWING INDEX FOR PAGE NUMBER CIRCUIT DRAWING	OUTLINE DRAWING
ADDER/SUBTRACTER																		
4♦	MB10180	ECT	1	2		P	-.96	-1.6			5.2	0	360m†	Dual	3	8	A03-1	DIP16b
5♦	MB10180M	ECT	1	2		P	-.96	-1.6			5.2	0	360m†	Dual	3	8	A03-1	DIP16b
6▼	MC10H180FN	ECL	1	2	3.5n	P	-1.1	-1.4			8.0	0	360m	High Speed	0	7	A03-2	DIP16a
7♦	MC10H180L	ECL	1	2	3.5n	P	-1.1	-1.4			8.0	0	360m	High Speed	0	7	A03-2	DIP16a
8▼	MC10H180LD	ECL	1	2	3.5n	P	-1.1	-1.4			8.0	0	360m	High Speed	0	7	A03-2	DIP16a
9▼	MC10H180LDS	ECL	1	2	3.5n	P	-1.1	-1.4			8.0	0	360m	High Speed	0	7	A03-2	DIP16a
10♦	MC10H180P	ECL	1	2	3.5n	P	-1.1	-1.4			8.0	0	360m	High Speed	0	7	A03-2	DIP16b
11▼	MC10H180PD	ECL	1	2	3.5n	P	-1.1	-1.4			8.0	0	360m	High Speed	0	7	A03-2	DIP16b
12▼	MC10H180PDS	ECL	1	2	3.5n	P	-1.1	-1.4			8.0	0	360m	High Speed	0	7	A03-2	DIP16b
13♦	MC10180L	ECT	1	2	5.4n	P	-.96	-1.6C			8.0	0	360m†	4 Function	3	8	A03-1	DIP16a
14▼	MC10180LD	ECT	1	2	5.4n	P	-.96	-1.6C			8.0	0	360m†	4 Function	3	8	A03-1	DIP16a
15▼	MC10180LDS	ECT	1	2	5.4n	P	-.96	-1.6C			8.0	0	360m†	4 Function	3	8	A03-1	DIP16a
16♦	MC10180P	ECT	1	2	5.4n	P	-.96	-1.6C			8.0	0	360m†	4 Function	3	8	A03-1	DIP16b
17▼	MC10180PD	ECT	1	2	5.4n	P	-.96	-1.6C			8.0	0	360m†	4 Function	3	8	A03-1	DIP16b
18▼	MC10180PDS	ECT	1	2	5.4n	P	-.96	-1.6C			8.0	0	360m†	4 Function	3	8	A03-1	DIP16b
19	MC10580F	ECT	1	2	5.4n	P	-.93	-1.6C	10m	-.93	5.2	0	360m†	4 Function	5	C	A03-1	FP85
20♦	MC10580L	ECT	1	2	5.4n	P	-.93	-1.6C	10m	-.93	5.2	0	360m†	4 Function	5	C	A03-1	DIP16b
21♦	10180F	ECL	1	2	5.8n	P	-1.1	-1.4		-1.6	5.2	0	360m†	LACO, COMPL	3	8	A03-2	DIP16a
22♦	10180N	ECL	1	2	5.8n	P	-1.1	-1.4		-1.6	5.2	0	360m†	LACO, COMPL	3	8	A03-2	DIP16a
23♦	F10180DC	ECT	1	2	6.5n	P	-.96	-1.6C	20m	-.96	5.2	0	447mQ	Dual Unit	0	7	A03-1	DIP16a
24♦	F10580DM	ECT	1	2	6.5n	P	-.93	-1.6C	10m	-.93	5.2	0	447mQ	Dual Unit	5	C	None	DIP16a
25	F10580FM	ECT	1	2	6.5n	P	-.93	-1.6C	10m	-.93	5.2	0	447mQ	Dual Unit	5	C	None	FP103
26♦	SN74LS385J	TTL	1	2	30n	S	2.0	0.8	8.0m	0.5	0	7.0		4 Indep Ckt	0	7	74LS385N	DIP20b
27♦	SN74LS385N	TTL	1	2	30n	S	2.0	0.8	8.0m	0.5	0	7.0		4 Indep Ckt	0	7	74LS385N	DIP20a
28	AM25LS15DC	TTL	1	4		S	2.0	0.7			0	5.0			0	7	74LS385N	DL ☑
29	AM25LS15PC	TTL	1	4		S	2.0	0.7			0	5.0			0	7	74LS385N	DL ☑
30♦	54F385DM	TTL	1	4	9.0n	S	2.0	0.8	20m	0.5	0	7.0		4 Ind Ckt	5	C	74LS385	DIP20b
31	54F385L1M	TTL	1	4	9.0n	S	2.0	0.8	20m	0.5	0	7.0		4 Ind Ckt	5	C	A03-4	LC19
32♦	74F385DC	TTL	1	4	10n	S	2.0	0.8	20m	0.5	0	7.0		4 Ind Ckt	0	7	74LS385	DIP20b
33	74F385L1C	TTL	1	4	10n	S	2.0	0.8	20m	0.5	0	7.0		4 Ind Ckt	0	7	A03-4	LC19
34♦	74F385PC	TTL	1	4	10n	S	2.0	0.8	20m	0.5	0	7.0		4 Ind Ckt	0	7	74LS385	DIP20a
35	74F385QC	TTL	1	4	10n	S	2.0	0.8	20m	0.5	0	7.0		4 Ind Ckt	0	7	A03-4	LC26
36	74F385SC	TTL	1	4	10n	S	2.0	0.8	20m	0.5	0	7.0		4 Ind Ckt	0	7	54LS385	FP169
37♦	N74F385D(A)	TTL	1	4	10n	1	2.0	0.8	20m	0.5	0	5.0		4 Indep CkT	0	7	74LS385	FP170
38♦	N74F385N(A)	TTL	1	4	10n	1	2.0	0.8	20m	0.5	0	5.0		2-s compl	0	7	74LS385	DIP20a
39♦	SN54LS385J	TTL	1	4	30n	S	2.0	0.7	4.0m	4.0	0	5.0		4 Indep Ckt	5	C	74LS385N	DIP20b
40▼	SN54LS385N	TTL	1	4	30n	S	2.0	0.7	4.0m	4.0	0	5.0		4 Indep Ckt	5	C	74LS385N	DIP20b
41♦	SP9218	ECL	1	8	28n	P	-1.1	-1.4			5.20	0		LTCH	3	8	A03-3	DIP40a
42♦	HD10180	ECL	1	12	24n	P	-.81	-1.8C			5.2	0	200m		3	8	A03-1	DIP16b
ADDER, FULL																		
46♦	MB408	TTL	2	1		S	2.0	0.8			0	5.0	100m†	Gated	0	7	74-80N	DIP14b
47♦	MB408M	TTL	2	1		S	2.0	0.8			0	5.0	100m†	Gated	0	7	74-80N	DIP14b
48♦	MB74LS183	TTL	2	1	33n	P	2.0	0.8	8.0m	.50	0	5.0	855m	Dual	2	7	74H183N	DIP14a
49♦	MB74LS183M	TTL	2	1	33n	P	2.0	0.8	8.0m	.50	0	5.0	855m	Dual	2	7	74H183N	DIP14a
50♦	MC4026L	TTL	2	1	35n	P	2.4	0.45C	20m	.45	0	5.0	90m†	3 Input NAN	0	7	4-026P	TO-116
51♦	MC4026P	TTL	2	1	35n	P	2.4	0.45C	20m	.45	0	5.0	90m†	3 Input NAN	0	7	4-026P	TO-116
52♦	MC4028F	TTL	2	1	35n	P	2.4	0.45C	20m	.45	0	5.0	125m†	Depend Carr	0	7	4-028P	TO-86
53♦	MC4028L	TTL	2	1	35n	P	2.4	0.45C	20m	.45	0	5.0	125m†	Depend Carr	0	7	4-028P	TO-116
54♦	MC4028P	TTL	2	1	35n	P	2.4	0.45C	20m	.45	0	5.0	125m†	Depend Carr	0	7	4-028P	TO-116
55♦	MC4030L	TTL	2	1	35n	P	2.4	0.45C	20m	.45	0	5.0	125m†	Inpepend Ca	0	7	4-030P	TO-116
56♦	MC4030P	TTL	2	1	35n	P	2.4	0.45C	20m	.45	0	5.0	125m†	Independ Ca	0	7	4-030P	TO-116
57♦	MC4326F	TTL	2	1	35n	S	2.4	0.45C	25m	.45	0	5.0	90m†	3 Input NAN	5	C	4-026P	TO-86
58♦	MC4326L	TTL	2	1	35n	S	2.4	0.45C	25m	.45	0	5.0	90m†	3 Input NAN	5	C	4-026P	TO-116
59♦	MC4328F	TTL	2	1	35n	P	2.4	0.45C	25m	.45	0	5.0	125m†	Depend Carr	5	C	4-028P	TO-86
60♦	MC4328L	TTL	2	1	35n	P	2.4	0.45C	25m	.45	0	5.0	125m†	Depend Carr	5	C	4-028P	TO-116
61♦	MC4330F	TTL	2	1	35n	P	2.4	0.45C	25m	.45	0	5.0	125m†	Independ Ca	5	C	4-030P	TO-86
62♦	MC4330L	TTL	2	1	35n	P	2.4	0.45C	25m	.45	0	5.0	125m†	Independ Ca	5	C	4-030P	TO-116
63♦	N8268F	TTL	2	1	45n	P	2.6	0.4C	16m	.40	0	5.0	185m	Gated w/LAC	0	7	74-80N	DIP14b
64	N8268W	TTL	2	1	45n	P	2.6	0.4C	16m	.40	0	5.0	185m	Gated W/LAC	0	7	54-80W	FP39e
65	5480FM	TTL	2	1	47n	P	2.0	0.8			0	5.0	105m†	Compl;LACO	5	C	54-80W	FP52
66♦	N7480F	TTL	2	1	80n	P	2.0	0.8	16m	.40	0	5.0	175m	Gated W/LAC	0	7	74-80N	DIP14b
67♦	N7480N	TTL	2	1	80n	P	2.0	0.8	16m	.40	0	5.0	175m	Gated W/LAC	0	7	74-80N	DIP14a
68♦	S5480F	TTL	2	1	80n	P	2.0	0.8	16m	.40	0	5.0	155m	Gated W/LAC	5	C	74-80N	DIP14b
69	S5480W	TTL	2	1	80n	P	2.0	0.8	16m	.40	0	5.0	155m	Gated W/LAC	5	C	54-80W	FP39e
70♦	SN7480N	TTL	2	1	80n	P	2.0	0.8	16m	0.4	0	7.0	175m	Gated In	0	7	74-80N	DIP14a
71♦	MC14032BAL	CMS	2	1	190n	S	11.0	4.0	3.0m	1.5	0	15	300uQ	Triple Adde	5	C	40-32B	DIP16b
72▼	MC14032BALD	CMS	2	1	190n	S	11.0	4.0	3.0m	1.5	0	15	300uQ	Triple Adde	5	C	40-32B	DIP16b
73▼	MC14032BALDS	CMS	2	1	190n	S	11.0	4.0	3.0m	1.5	0	15	300uQ	Triple Adde	5	C	40-32B	DIP16b
74▼	MC14032BALS	CMS	2	1	190n	S	11.0	4.0	3.0m	1.5	0	15	300uQ	Triple Adde	5	C	40-32B	DIP16b
75♦	MC14038BAL	CMS	2	1	190n	S	11.0	4.0	3.0m	1.5	0	15	300uQ	Triple Adde	5	C	40-38B	DIP16b
76▼	MC14038BALD	CMS	2	1	190n	S	11.0	4.0	3.0m	1.5	0	15	300uQ	Triple Adde	5	C	40-38B	DIP16b
77▼	MC14038BALDS	CMS	2	1	190n	S	11.0	4.0	3.0m	1.5	0	15	300uQ	Triple Adde	5	C	40-38B	DIP16b
78▼	MC14038BALS	CMS	2	1	190n	S	11.0	4.0	3.0m	1.5	0	15	300uQ	Triple Adde	5	C	40-38B	DIP16b
79♦	MC14032BCL	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-32B	DIP16b
80▼	MC14032BCLD	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-32B	DIP16b
81▼	MC14032BCLDS	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-32B	DIP16b
82▼	MC14032BCLS	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-32B	DIP16b
83♦	MC14032BCP	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-32B	DIP16a
84▼	MC14032BCPD	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-32B	DIP16a
85▼	MC14032BCPDS	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-32B	DIP16a
86▼	MC14032BCPS	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-32B	DIP16a
87▼	MC14032BD	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-32B	DIP16a
88♦	MC14038BCL	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-38B	DIP16b
89▼	MC14038BCLD	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-38B	DIP16b
90▼	MC14038BCLDS	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-38B	DIP16b
91▼	MC14038BCLS	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-38B	DIP16b
92♦	MC14038BCP	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-38B	DIP16a
93▼	MC14038BCPD	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-38B	DIP16a
94▼	MC14038BCPDS	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-38B	DIP16a
95▼	MC14038BCPS	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-38B	DIP16a
96▼	MC14038BD	CMS	2	1	230n	S	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Triple Adde	4	8	40-38B	DIP16a
97♦	TC4032BP	CMS	2	1	400n	S	14.9	.05C	3.0m	1.5	0	15	300m	Triple Adde	4	8	40-32B	DIP16a
98♦	TC4038BP	CMS	2	1	400n	S	14.9	.05C	3.0m	1.5	0	15	300m	Triple Adde	4	8	40-38B	DIP16a
99	K155IM1	TTL	2	1	1900n	P	2.4	0.4			0	5.0		Load cap.10	1	7	None	None
100	54H183FM	TTL	2	2	12n	P	2.0	0.8			0	5.0	375m	LACO	5	C	54H183W	FP52
101♦	74H183PC	TTL	2	2	12n	P	2.0	0.8			0	5.0	375m	LACO	0	7	74H183N	DIP14a
102♦	SN54LS183J	TTL	2	2	23n	P	2.0	0.7	4.0m	0.4	0	7.0	92m†	DUAL	5	C	74H183N	DIP14a
103▼	SN54LS183N	TTL	2	2	23n	P	2.0	0.7	4.0m	0.4	0	7.0	92m†	DUAL	5	C	74H183N	DIP14a
104♦	SN74LS183N	TTL	2	2	23n	P	2.0	0.8	8.0m	0.5	0	7.0	92m†	DUAL	0	7	74H183N	DIP14a
105♦	SN74LS183J	TTL	2	2	33n	P	2.0	0.8	8.0m	0.5	0	5.0		Dual	0	7	74H183N	DIP14a
106	5482FM	TTL	2	2	38n	P	2.0	0.8			0	5.0	176m†	LACO	5	C	54-82W	FP52
107♦	SN7482N	TTL	2	2	42n	P	2.0	0.8	16m	0.4	0	7.0	290m	Darln. Out	0	7	74-82N	DIP14a
108♦	9304DC	TTL	2	2	45n	P	1.8	.85	9.8m	.45	0	5.0	150m†	Dual 1 Bit	0	7	A02-05	DIP16a
109♦	9304DM	TTL	2	2	45n	P	1.7	.90	8.7m	.40	0	5.0	150m†	Dual 1 Bit	5	C	A02-05	DIP16a
110	9304FM	TTL	2	2	45n	P	1.7	.90	8.7m	.40	0	5.0	150m†	Dual 1 Bit	5	C	A02-05	FP103

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

15. ADDERS - Full Adder (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS
(3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	1 TYPE CODE	2 BITS	3 tpd MAX (s)	OPER MODE	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	SEE DRAWING INDEX FOR PAGE NUMBER CIRCUIT DRAWING	OUTLINE DRAWING
1	9304PC	TTL	2	2	45n	P	1.8	.85	9.8m	.45	0	5.0	150m†	Dual 1 Bit	0	7	A02-05	None
2♦	MSM580RS	CMS	2	2	500n	S	3.6	0.8	150u	0.4	0	7.0		Carry Outpu	3	8	A02-48	DIP14a
3	K155IM2	TTL	2	2	1900n	P	2.4	0.4			0	5.0		Load cap.10	1	7	None	None
4	CD4032BD	CMS	2	3	240n	S	7.0	3.0	1.3m	0.5	0	20	500m	Triple Adde	5	C	40-32B	MO001AE
5	CD4032BE	CMS	2	3	240n	S	7.0	3.0	1.3m	0.5	0	20	500m	Triple Adde	4	8	40-32B	MO001AC
6	CD4032BF	CMS	2	3	240n	S	7.0	3.0	1.3m	0.5	0	20	500m	Triple Adde	5	C	40-32B	MO001AG
7	CD4038BD	CMS	2	3	240n	S	7.0	3.0	1.3m	0.5	0	20	500m	Triple Adde	5	C	40-38B	MO001AE
8	CD4038BE	CMS	2	3	240n	S	7.0	3.0	1.3m	0.5	0	20	500m	Triple Adde	4	8	40-38B	MO001AC
9	CD4038BF	CMS	2	3	240n	S	7.0	3.0	1.3m	0.5	0	20	500m	Triple Adde	5	C	40-38B	MO001AG
10	CD4032AD	CMS	2	3	250n	S	9.95	0.05C	700u	.50	0	15	500m	Triple Adde	5	C	40-32B	MO001AE
11	CD4032AF	CMS	2	3	250n	S	9.95	0.05C	700u	.50	0	15	500m	Triple Adde	5	C	40-32B	MO001AC
12	CD4038AD	CMS	2	3	250n	S	9.95	0.05C	700u	.50	0	15	500m	Triple Adde	5	C	40-38B	MO001AE
13	CD4038AF	CMS	2	3	250n	S	9.95	0.05C	700u	.50	0	15	500m	Triple Adde	5	C	40-38B	MO001AC
14♦	CM4032AD	CMS	2	3	250n	S	9.99	.01C	700u	.50	0	10	100uQ	Triple Adde	5	C	40-32B	DIP16a
15♦	CM4038AD	CMS	2	3	250n	S	9.99	.01C	700u	.50	0	10	100uQ	Triple Adde	5	C	40-38B	DIP16a
16♦	HBC4032AD	CMS	2	3	250n	S	8.0	2.0	700u	.50	0	10	100uQ	Triple Adde	5	C	40-32B	DIP16a
17♦	HBC4032AF	CMS	2	3	250n	S	8.0	2.0	700u	.50	0	10	100uQ	Triple Adde	5	C	40-32B	DIP16a
18	HBC4032AK	CMS	2	3	250n	S	8.0	2.0	700u	.50	0	10	100uQ	Triple Adde	5	C	40-32B	FP131
19♦	HBC4038AD	CMS	2	3	250n	S	8.0	2.0	700u	.50	0	10	100uQ	Triple Adde	5	C	40-38B	DIP16a
20♦	HBC4038AF	CMS	2	3	250n	S	8.0	2.0	700u	.50	0	10	100uQ	Triple Adde	5	C	40-38B	DIP16a
21	HBC4038AK	CMS	2	3	250n	S	8.0	2.0	700u	.50	0	10	100uQ	Triple Adde	5	C	40-38B	FP131
22	CD4032AE	CMS	2	3	300n	S	9.95	0.05C	500u	.50	0	15	500m	Triple Adde	4	8	40-32B	MO001AC
23	CD4038AE	CMS	2	3	300n	S	9.95	0.05C	500u	.50	0	15	500m	Triple Adde	4	8	40-38B	MO001AC
24♦	CM4032AE	CMS	2	3	300n	S	9.99	.01C	500u	.50	0	10	1.0mQ	Triple Adde	4	8	40-32B	DIP16a
25♦	CM4038AE	CMS	2	3	300n	S	9.99	.01C	500u	.50	0	10	1.0mQ	Triple Adde	4	8	40-38B	DIP16a
26♦	HBF4032AE	CMS	2	3	300n	S	8.0	2.0	500u	.50	0	10	1.0mQ	Triple Adde	4	8	40-32B	DIP16a
27♦	HBF4032AF	CMS	2	3	300n	S	8.0	2.0	500u	.50	0	10	1.0mQ	Triple Adde	4	8	40-32B	DIP16a
28♦	HBF4038AE	CMS	2	3	300n	S	8.0	2.0	500u	.50	0	10	1.0mQ	Triple Adde	4	8	40-38B	DIP16a
29♦	HBF4038AF	CMS	2	3	300n	S	8.0	2.0	500u	.50	0	10	1.0mQ	Triple Adde	4	8	40-38B	DIP16a
30♦	HCC4032BD	CMS	2	3	300n	S	11	4.0	3.4m	1.5	0	15	500m	Triple Adde	5	C	40-32B	DIP16a
31♦	HCC4032BF	CMS	2	3	300n	S	11	4.0	3.4m	1.5	0	15	500m	Triple Adde	5	C	40-32B	DIP16a
32	HCC4032BK	CMS	2	3	300n	S	11	4.0	3.4m	1.5	0	15	500m	Triple Adde	5	C	40-32B	FP131
33♦	HCC4038BD	CMS	2	3	300n	S	11	4.0	3.4m	1.5	0	15	500m	Triple Adde	5	C	40-38B	DIP16a
34♦	HCC4038BF	CMS	2	3	300n	S	11	4.0	3.4m	1.5	0	15	500m	Triple Adde	5	C	40-38B	DIP16a
35	HCC4038BK	CMS	2	3	300n	S	11	4.0	3.4m	1.5	0	15	500m	Triple Adde	5	C	40-38B	FP131
36♦	HCF4032BE	CMS	2	3	300n	S	11	4.0	3.4m	1.5	0	15	500m	Triple Adde	4	8	40-32B	DIP16a
37♦	HCF4032BF	CMS	2	3	300n	S	11	4.0	3.4m	1.5	0	15	500m	Triple Adde	4	8	40-32B	DIP16a
38♦	HCF4038BE	CMS	2	3	300n	S	11	4.0	3.4m	1.5	0	15	500m	Triple Adde	4	8	40-38B	DIP16a
39♦	HCF4038BF	CMS	2	3	300n	S	11	4.0	3.4m	1.5	0	15	500m	Triple Adde	4	8	40-38B	DIP16a
40	CD54HC583F(A)	CMS	2	4		P	3.15	1.35	20u	0.1	0	7.0	500m	LACO	5	C	40-583	MS001a
41	CD54HCT583F(A)	CMS	2	4		P	2.0	0.8	20u	0.1	0	7.0	500m	LACO	5	C	40-583	MS001a
42	CD74HC583E(A)	CMS	2	4		P	3.15	1.35	20u	0.1	0	7.0	500m	LACO	4	8	40-583	MS001a
43	CD74HC583M(A)	CMS	2	4		P	3.15	1.35	20u	0.1	0	7.0	300m	LACO	4	8	40-583	FP148
44	CD74HCT583E(A)	CMS	2	4		P	2.0	0.8	20u	0.1	0	7.0	500m	LACO	4	8	40-583	MS001a
45	CD74HCT583M(A)	CMS	2	4		P	2.0	0.8	20u	0.1	0	7.0	300m	LACO	4	8	40-583	FP148
46♦	MC54HC283J(A)	CMS	2	4		P	3.15	0.9			0.5	7.0	500m	LACO	5	C	74-283	DIP16a
47♦	MC74HC283J(A)	CMS	2	4		P	3.15	0.9			0.5	7.0	500m	LACO	4	8	74-283	DIP16a
48♦	MC74HC283N(A)	CMS	2	4		P	3.15	0.9			0.5	7.0	500m	LACO	4	8	74-283	DIP16b
49♦	54F283DM	TTL	2	4	10n	P	2.0	0.8	20m	0.5	0	7.0		LACO	5	C	74-283	DIP16b
50	54F283FM	TTL	2	4	10n	P	2.0	0.8	20m	0.5	0	7.0		LACO	5	C	54-283	FP117
51	74F283L1C	TTL	2	4	10n	P	2.0	0.8	20m	0.5	0	7.0		LACO	0	7	A02-52	LC19
52	74F283QC	TTL	2	4	10n	P	2.0	0.8	20m	0.5	0	7.0		LACO	0	7	A02-52	LC26
53	74F283SC	TTL	2	4	10n	P	2.0	0.8	20m	0.5	0	7.0		LACO	0	7	54-283	FP148
54♦	MC74F283J	TTL	2	4	10.5n	P	2.0	0.8	20m	0.5	0	5.0		High Speed	0	7	74-283	DIP16a
55♦	MC74F283N	TTL	2	4	10.5n	P	2.0	0.8	20m	0.5	0	5.0		High Speed	0	7	74-283	DIP16b
56♦	N74F283D(A)	TTL	2	4	10.5n	P	2.0	0.8	20m	0.5	0	5.0		Full Add	0	7	74-283	FP148
57♦	N74F283N(A)	TTL	2	4	10.5n	P	2.0	0.8	20m	0.5	0	5.0		Full ADD	0	7	74-283	DIP16a
58♦	PC54HC283D(A)	CMS	2	4	12n	P	3.15	0.9	20u	0.1	0	7.0	500m	LACO	5	C	74-283	DIP16b
59♦	PC74HC283D(A)	CMS	2	4	12n	P	3.15	0.9	20u	0.1	0	7.0	500m	LACO	4	8	74-283	DIP16b
60	54F283L1M	TTL	2	4	14n	P	2.0	0.8	20m	0.5	0	7.0		LACO	5	C	A02-52	LC19
61♦	74F283DC	TTL	2	4	14n	P	2.0	0.8	20m	0.5	0	7.0		LACO	0	7	74-283	DIP16b
62♦	74F283PC	TTL	2	4	14n	P	2.0	0.8	20m	0.5	0	7.0		LACO	0	7	74-283	DIP16a
63♦	MC54F283J	TTL	2	4	14n	P	2.0	0.8	20m	0.5	0	5.0		High Speed	5	C	74-283	DIP16a
64♦	MC54F283N	TTL	2	4	14n	P	2.0	0.8	20m	0.5	0	5.0		High Speed	5	C	74-283	DIP16b
65♦	PC54HCT283D(A)	CMS	2	4	14n	P	2.0	0.8	20u	0.1	0	7.0	500m	LACO	5	C	74-283	DIP16b
66♦	PC74HCT283D(A)	CMS	2	4	14n	P	2.0	0.8	20u	0.1	0	7.0	500m	LACO	4	8	74-283	DIP16b
67♦	S54F283F(A)	TTL	2	4	14.0n	P	2.0	0.8	20m	0.5	0	7.0			5	C	74-283	DIP16b
68	S54F283G(A)	TTL	2	4	14.0n	P	2.0	0.8	20m	0.5	0	7.0			5	C	A02-52	LC24
69	74HC583D	CMS	2	4	15n	P	3.15	1.35	20m	0.1		5.0		LACO	4	8	A02-35	FP162
70♦	74HC583N	CMS	2	4	15n	P	3.15	1.35	20m	0.1		5.0		LACO	4	8	A02-35	DIP16b
71▼	CD74AC283E(A)	CMS	2	4	15n	P	3.85	1.65	24m	0.44		5.0	500m	BUFF inputs	4	8	74-283N	MS001a
72▼	CD74AC283M(A)	CMS	2	4	15n	P	3.85	1.65	24m	0.44		5.0	400m	BUFF inputs	4	8	74-283N	MS012c
73▼	CD74ACT283E(A)	CMS	2	4	15n	P	2.0	0.8	24m	0.44		5.0	500m	BUFF inputs	4	8	74-283N	MS001a
74▼	CD74ACT283M(A)	CMS	2	4	15n	P	2.0	0.8	24m	0.44		5.0	400m	BUFF inputs	4	8	74-283N	MS012c
75	DM54S283W	TTL	2	4	15n	P	2.0	0.8			0	7.0	510m	LACO	5	C	54-283	FP98b
76♦	DM74S283N	TTL	2	4	15n	P	2.0	0.8			0	7.0	510m	LACO	0	7	74-283	DIP16a
77♦	54F583DM	TTL	2	4	16n	P	2.0	0.8	20m	0.5	0	7.0		LACO	5	C	A02-53	DIP16b
78	54F583L1M	TTL	2	4	16n	P	2.0	0.8	20m	0.5	0	7.0		LACO	5	C	A02-54	LC19
79♦	5483ADM	TTL	2	4	16n	P	2.0	0.8			0	5.0	330m†	LACO	5	C	74-83	DIP14a
80	5483AFM	TTL	2	4	16n	P	2.0	0.8			0	5.0	330m†	LACO	5	C	54-83	FP52
81♦	7483ADC	TTL	2	4	16n	P	2.0	0.8			0	5.0	330m†	LACO	0	7	74-83	DIP16a
82♦	7483APC	TTL	2	4	16n	P	2.0	0.8			0	5.0	330m†	LACO	0	7	74-83	DIP16 ☑
83▼	HD74HC83FP	CMS	2	4	16n	P	3.15	1.35	20u	0.1	0	5.0	500m	Carry Term	4	8	74-83	FP162
84▼	HD74HC83P	CMS	2	4	16n	P	3.15	1.35	20u	0.1	0	5.0	500m	Carry Term	4	8	74-83	DIP16a
85♦	74F583DC	TTL	2	4	17n	P	2.0	0.8	20m	0.5	0	5.0		Look-Ahead	0	7	A02-53	DIP16a
86	74F583L1C	TTL	2	4	17n	P	2.0	0.8	20m	0.5	0	7.0		LACO	0	7	A02-54	LC19
87♦	74F583PC	TTL	2	4	17n	P	2.0	0.8	20m	0.5	0	7.0		LACO	0	7	A02-53	DIP16a
88	74F583QC	TTL	2	4	17n	P	2.0	0.8	20m	0.5	0	7.0		LACO	0	7	A02-54	LC26
89	74F583SC	TTL	2	4	17n	P	2.0	0.8	20m	0.5	0	7.0		LACO	0	7	A02-53	FP148
90	74HCT583D	CMS	2	4	17n	P	2.0	0.8	20m	0.1		5.0		LACO	4	8	A02-35	FP162
91♦	74HCT583N	CMS	2	4	17n	P	2.0	0.8	20m	0.1		5.0		LACO	4	8	A02-35	DIP16b
92▼	N74F583D(A)	TTL	2	4	17n	P	2.0	0.8	20m	0.5	0	5.0		Look-Ahead	0	7	A02-53	FP148
93▼	N74F583N(A)	TTL	2	4	17n	P	2.0	0.8	20m	0.5	0	5.0		Look-Ahead	0	7	A02-53	DIP16a
94♦	PC54HC583D(A)	CMS	2	4	17n	P	3.15	0.9	20u	0.1	0	7.0	500m	LACO	5	C	A02-35	DIP16b
95♦	PC74HC583D(A)	CMS	2	4	17n	P	3.15	0.9	20u	0.1	0	7.0	500m	LACO	4	8	A02-35	DIP16b
96♦	PC74HC583P(A)	CMS	2	4	17n	P	3.15	1.35	20u	0.1	0	5.0	500m	LACO	4	C	A02-35	DIP16b
97	PC74HC583T(A)	CMS	2	4	17n	P	3.15	1.35	20u	0.1	0	5.0	300m	LACO	4	C	A02-35	FP148
98▼	CD54AC283F(A)	CMS	2	4	18n	P	3.85	1.65	24m	0.5		5.0	500m	BUFF inputs	5	C	54-283	MS001a
99▼	CD54ACT283F(A)	CMS	2	4	18n	P	2.0	0.8	24m	0.5		5.0	500m	BUFF inputs	5	C	54-283	MS001a
100♦	SN74S283N	TTL	2	4	18n	P	2.0	0.8	20m	0.5	0	7.0	510m†	LACO	0	7	74-283	DIP16a
101▼	HD74HC283FP	CMS	2	4	19n	P	3.15	1.35	4.0m	0.33	0	5.0	500m	LACO	4	8	74-283N	FP162
102▼	HD74HC283P	CMS	2	4	19n	P	3.15	1.35	4.0m	0.33	0	5.0	500m	LACO	4	8	74-283N	DIP16a
103♦	DM54S283J	TTL	2	4	20n	P	2.0	0.8	10m	0.5		5.0		LACO	5	C	A02-21a	DIP16a
104♦	HD74LS83AP	TTL	2	4	21n	P	2.0	0.8	8.0m	0.5	0	5.0	400m		2	7	74-83	DIP16a
105♦	PC54HCT583D(A)	CMS	2	4	21n	P	2.0	0.8	20u	0.1	0	7.0	500m	LACO	5	C	A02-35	DIP16b
106♦	PC74HCT583D(A)	CMS	2	4	21n	P	2.0	0.8	20u	0.1	0	7.0	500m	LACO	4	8	A02-35	DIP16b
107♦	PC74HCT583P(A)	CMS	2	4	21n	P	2.0	0.8	20u	0.1	0	5.0	500m	LACO	4	C	A02-35	DIP16b
108	PC74HCT583T(A)	CMS	2	4	21n	P	2.0	0.8	20u	0.1	0	5.0	300m	LACO	4	C	A02-35	FP148
109♦	54LS83ADM	TTL	2	4	24n	P	2.0	0.7	4.0m	.40	0	5.0	195m	Binary w/La	5	C	74-83	DIP16a
110	54LS83AFM	TTL	2	4	24n	P	2.0	0.7	4.0m	.40	0	5.0	195m	Binary w/La	5	C	54-83	FP103

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

15. ADDERS - Full Adder (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[1] TYPE CODE	[2] BITS	[3] tpd MAX (s)	OPER MODE	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	SEE DRAWING INDEX FOR PAGE NUMBER CIRCUIT DRAWING	OUTLINE DRAWING
1♦	54LS283DM	TTL	2	4	24n	P	2.0	0.7	4.0m	.40	0	5.0	195m	Binary w/La	5	C	74-283	DIP16 ☑
2	54LS283FM	TTL	2	4	24n	P	2.0	0.7	4.0m	.40	0	5.0	195m	Binary w/La	5	C	54-283	FP103
3♦	54LS283J	TTL	2	4	24n	P	2.0	0.7	4.0m	.40	0	5.0	170mQ	Binary w/La	5	C	74-283	DIP16a
4	54LS283W	TTL	2	4	24n	P	2.0	0.7	4.0m	.40	0	5.0	195m	Binary w/La	5	C	54-283	FP103
5♦	74LS83ADC	TTL	2	4	24n	P	2.0	0.8	8.0m	.50	0	5.0	195m	Binary w/La	0	7	74-83	DIP16a
6♦	74LS83APC	TTL	2	4	24n	P	2.0	0.8	8.0m	.50	0	5.0	195m	Binary w/La	0	7	74-83	DIP16 ☑
7♦	74LS283DC	TTL	2	4	24n	P	2.0	0.8	8.0m	.50	0	5.0	195m	Binary w/La	0	7	74-283	DIP16a
8♦	74LS283PC	TTL	2	4	24n	P	2.0	0.8	8.0m	.50	0	5.0	195m	Binary w/La	0	7	74-283	DIP16a
9♦	74283DC	TTL	2	4	24n	P	2.0	0.8			0	5.0	550m	Fast Carry	0	7	74-283	DIP16a
10♦	74283PC	TTL	2	4	24n	P	2.0	0.8			0	5.0	550m	Fast Carry	0	7	74-283	DIP16 ☑
11♦	DN74LS83AP2	TTL	2	4	24n	P	2.0	0.8	4.0m	0.4	0.5	7.0	400	LACO	2	7	74-83	DIP16a
12	DN74LS83AP5	TTL	2	4	24n	P	2.0	0.8	4.0m	0.4	0.5	7.0	400	LACO	2	7	74-83	FP178
13♦	DN74LS283P2	TTL	2	4	24n	P	2.0	0.8	4.0m	0.4	0.5	7.0	400	LACO	2	7	74-283	DIP16a
14	DN74LS283P5	TTL	2	4	24n	P	2.0	0.8	4.0m	0.4	0.5	7.0	400	LACO	2	7	74-283	FP178
15▼	HD74LS83AG	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0	5.0	400m		2	7	74-83	DIP16a
16▼	HD74LS283G	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0	5.0	400m	Cerdip	2	7	74-283	DIP16a
17♦	HD74LS283P	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0	5.0	400m	Plas Dip	2	7	74-283	DIP16a
18♦	M74LS83AP	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0.5	7.0	183m	LACO	2	7	74-83	DIP16b
19♦	M74LS283P	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0.5	7.0	183m	LACO	2	7	A02-02	DIP16b
20♦	MB74LS83A	TTL	2	4	24n	P	2.0	0.8	8.0m	.50	0	5.0	195m	LACO	2	7	74-83	DIP16a
21♦	MB74LS83AM	TTL	2	4	24n	P	2.0	0.8	8.0m	.50	0	5.0	195m	LACO	2	7	74-83	DIP16b
22♦	MB74LS283	TTL	2	4	24n	P	2.0	0.8	8.0m	.50	0	5.0	195m	LACO	2	7	74-283	DIP16a
23♦	MB74LS283M	TTL	2	4	24n	P	2.0	0.8	8.0m	.50	0	5.0	195m	LACO	2	7	74-283	DIP16b
24	N74LS83AD	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0.5	7.0	195m	LACO	0	7	54-83	FP148
25♦	N74LS83AF	TTL	2	4	24n	P	2.0	0.8	8.0m	.50	0	5.0	195m		0	7	74-83	DIP16b
26♦	N74LS83AN	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0.5	7.0	195m	LACO	0	7	74-83	DIP16a
27♦	N74LS83F	TTL	2	4	24n	P	2.0	0.8	8m	.50	0	5.0	195m		0	7	74-83	DIP16b
28	N74LS283D	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0.5	7.0	195m	Binary W/LA	0	7	74-283	FP148
29♦	N74LS283N	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0.5	7.0	195m	Binary W/LA	0	7	74-283	DIP16a
30♦	S54LS83AF	TTL	2	4	24n	P	2.0	0.7	4.0m	0.4	0.5	7.0	195m	LACO	5	C	74-83	DIP16b
31	S54LS83AW	TTL	2	4	24n	P	2.0	0.7	4.0m	0.4	0.5	7.0	195m	LACO	5	C	54-83	FP154
32♦	S54LS83F	TTL	2	4	24n	P	2.0	0.8	4.0m	.40	0	5.0	195m		5	C	74-83	DIP16b
33	S54LS83W	TTL	2	4	24n	P	2.0	0.8	4.0m	.40	0	5.0	195m		5	C	54-83	FP47g
34♦	S54LS283F	TTL	2	4	24n	P	2.0	0.7	4.0m	0.4	0.5	7.0	195m	Binary W/LA	5	C	74-283	DIP16b
35	S54LS283G	TTL	2	4	24n	P	2.0	0.7	4.0m	0.4	0.5	7.0	195m	Binary w/LA	5	C	54-283	LC24
36	S54LS283W	TTL	2	4	24n	P	2.0	0.7	4.0m	0.4	0.5	7.0	195m	Binary W/LA	5	C	54-283	FP154
37♦	SFC4283LSE	TTL	2	4	24n	P	2.7	.50C			0	5.0	195m	LACO	0	7	74-283	DIP16a
38♦	SFC4283LSEM	TTL	2	4	24n	P	2.5	0.4C			0	5.0	195m	LACO	5	C	74-283	DIP16a
39♦	SN54LS83AJ	TTL	2	4	24n	P	2.0	0.7	4.0m	0.4	0	7.0		LACO	5	C	74-83	DIP16a
40▼	SN54LS83AN	TTL	2	4	24n	P	2.0	0.7	4.0m	0.4	0	7.0		LACO	5	C	74-83	DIP16a
41♦	SN54LS283J	TTL	2	4	24n	P	2.0	0.7	4.0m	0.4	0	7.0	95m†	LACO	5	C	74-283N	DIP16a
42▼	SN54LS283N	TTL	2	4	24n	P	2.0	0.7	4.0m	0.4	0	7.0	95m†	LACO	5	C	74-283N	DIP16a
43	SN74LS83AD	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0	7.0	95m†	LACO	0	7	74-83	FP148
44♦	SN74LS83AJ	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0	7.0		LACO	0	7	74-83	DIP16a
45♦	SN74LS83AN	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0	7.0		LACO	0	7	74-83	DIP16a
46	SN74LS283D	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0	7.0	95m†	LACO	0	7	74-283	FP148
47♦	SN74LS283J	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0	7.0	95m†	LACO	0	7	74-283N	DIP16a
48♦	SN74LS283N	TTL	2	4	24n	P	2.0	0.8	8.0m	0.5	0	7.0	95m†	LACO	0	7	74-283N	DIP16a
49♦	SN5483AJ	TTL	2	4	24n	P	2.0	0.8	16m	0.4	0	7.0	495m	LACO	5	C	74-83	DIP14a
50♦	SN7483AN	TTL	2	4	24n	P	2.0	0.8	16m	0.4	0	7.0	550m	LACO	0	7	74-83	DIP16a
51♦	SN54283J	TTL	2	4	24n	P	2.0	0.8	16m	0.4	0	7.0	310m†	LACO	5	C	74-283	DIP16a
52♦	SN74283N	TTL	2	4	24n	P	2.0	0.8	16m	0.4	0	7.0	310m†	LACO	0	7	74-283	DIP16a
53♦	T54LS83D2	TTL	2	4	24n	P	2.0	0.7	8.0m	.50	0	5.0	195mQ	Binary w/La	5	C	74-83	DIP16b
54♦	T54LS283D2	TTL	2	4	24n	P	2.0	0.7	8.0m	.50	0	5.0	195mQ	Binary w/La	5	C	74-283	DIP16b
55♦	T74LS83B1	TTL	2	4	24n	P	2.0	0.8	8.0m	.50	0	5.0	195mQ	Binary w/La	0	7	74-83	DIP16a
56♦	T74LS83D1	TTL	2	4	24n	P	2.0	0.8	8.0m	.50	0	5.0	195mQ	Binary w/La	0	7	74-83	DIP16b
57♦	T74LS283B1	TTL	2	4	24n	P	2.0	0.8	8.0m	.50	0	5.0	195mQ	Binary w/La	0	7	74-283	DIP16a
58♦	T74LS283D1	TTL	2	4	24n	P	2.0	0.8	8.0m	.50	0	5.0	195mQ	Binary w/La	0	7	74-283	DIP16b
59	DM54LS83AW	TTL	2	4	25n	P	2.0	0.8			0	7.0	95m	LACO	5	C	54-83	FP98b
60	DM54LS283W	TTL	2	4	25n	P	2.0	0.8			0	7.0	95m	LACO	5	C	54-283	FP98b
61♦	DM74LS83AN	TTL	2	4	25n	P	2.0	0.8			0	7.0	95m	LACO	0	7	74-83	DIP16a
62♦	DM74LS283N	TTL	2	4	25n	P	2.0	0.8			0	7.0	95m	LACO	0	7	74-283	DIP16a
63♦	DM54LS283J	TTL	2	4	28n	P	2.0	0.7	4.0m	0.4		5.0		LACO	5	C	A02-21a	DIP16a
64♦	DM54LS83AJ	TTL	2	4	30n	P	2.0	0.7	4.0m	0.4	0	7.0		LACO	5	C	74-83	DIP16a
65♦	MM74HC283J(A)	CMS	2	4	32n	P	4.2	1.2	4.0m	400m	0.5	7.0	500m	LACO	4	8	74-283	DIP16a
66♦	MM74HC283N(A)	CMS	2	4	32n	P	4.2	1.2	4.0m	400m	0.5	7.0	500m	LACO	4	8	74-283	DIP16a
67♦	MM74HC4560J(A)	CMS	2	4	38n	P	4.2	1.2	4.0m	400m	0.5	7.0	500m	NBCD	4	8	45-60B	DIP16a
68♦	MM74HC4560N(A)	CMS	2	4	38n	P	4.2	1.2	4.0m	400m	0.5	7.0	500m	NBCD	4	8	45-60B	DIP16a
69▼	SN74HC283N(A)	CMS	2	4	38n	P	3.15	0.9	4.0m	0.33	0.0	5.0		LACO	4	8	74-283N	DIP16b
70♦	MM54HC283J(A)	CMS	2	4	39n	P	4.2	1.2	4.0m	400m	0.5	7.0	500m	LACO	5	C	74-283	DIP16a
71♦	N82S83F	TTL	2	4	40n	P	2.6	.50C	16m	.50	0	5.0	570m	NBCD	0	7	A02-35	DIP16b
72♦	N82S83N	TTL	2	4	40n	P	2.6	.50C	16m	.50	0	5.0	570m	NBCD	0	7	A02-35	DIP16a
73♦	N7483N	TTL	2	4	40n	P	2.0	0.8	16m	0.4	0.5	7.0	395m	LACO	0	7	74-83	DIP16a
74♦	S82S83B	TTL	2	4	40n	P	2.6	.50C	16m	.50	0	5.0	598m	NBCD	5	C	A02-35	DIP16a
75♦	S82S83F	TTL	2	4	40n	P	2.6	.50C	16m	.50	0	5.0	598m	NBCD	5	C	A02-35	DIP16b
76♦	S5483F	TTL	2	4	40n	P	2.0	0.8	16m	0.4	0.5	7.0	395m	LACO	5	C	74-83	DIP16b
77	S5483W	TTL	2	4	40n	P	2.0	0.8	16m	0.4	0.5	7.0	395m	LACO	5	C	54-83	FP154
78♦	M54HC283F1(A)	CMS	2	4	42n	P	3.15	1.35	20u	0.1	0	7.0	500m	BUFF	5	C	74-283	DIP16b
79♦	MM54HC4560J(A)	CMS	2	4	45n	P	4.2	1.2	4.0m	400m	0.5	7.0	500m	NBCD	5	C	45-60B	DIP16a
80	74HC283D	CMS	2	4	49n	P	3.15	1.35	20m	0.1		5.0		LACO	4	8	74-283N	FP162
81♦	74HC283N	CMS	2	4	49n	P	3.15	1.35	20m	0.1		5.0		LACO	4	8	74-283N	DIP16b
82	CD74HC283E(A)	CMS	2	4	49n	P	3.15	1.35	20u	0.1	0.5	7.0	500m	LACO	4	8	74-283	MS001a
83	CD74HC283M(A)	CMS	2	4	49n	P	3.15	1.35	20u	0.1	0.5	7.0	400m	LACO	4	8	74-283	MS012c
84	CD74HCT283E(A)	CMS	2	4	49n	P	2.0	0.8	20u	0.1	0.5	7.0	500m	LACO	4	8	74-283	MS001a
85	CD74HCT283M(A)	CMS	2	4	49n	P	2.0	0.8	20u	0.1	0.5	7.0	400m	LACO	4	8	74-283	MS012c
86♦	DM5483J	TTL	2	4	50n	P	2.0	0.8	16m	.40	0	5.0	395mQ	LACO	5	C	74-83	DIP16a
87	DM5483W	TTL	2	4	50n	P	2.0	0.8	16m	.40	0	5.0	395mQ	LACO	5	C	54-83	FP88a
88♦	DM7483N	TTL	2	4	50n	P	2.0	0.8	16m	.40	0	5.0	395mQ	LACO	0	7	74-83	DIP16a
89♦	N7483F	TTL	2	4	50n	P	2.0	0.8	16m	.40	0	5.0	395m		0	7	74-83	DIP16b
90♦	SFC483ALSE	TTL	2	4	50n	P	2.4	0.4C	16m	.40	0	5.0	195m	LACO	0	7	74-83	DIP16a
91♦	SFC483ALSEM	TTL	2	4	50n	P	2.4	0.4C	16m	.40	0	5.0	195m	LACO	5	C	74-83	DIP16a
92♦	SFC483E	TTL	2	4	50n	P	2.4	0.4C	16m	.40	0	5.0	360m	LACO	0	7	74-83	DIP16a
93♦	SFC483EM	TTL	2	4	50n	P	2.4	0.4C	16m	.40	0	5.0	360m	LACO	5	C	74-83	DIP16a
94♦	SFC483ET	TTL	2	4	50n	P	2.4	0.4C	16m	.40	0	5.0	360m	LACO	2	8	74-83	DIP16a
95♦	SFC483JM	TTL	2	4	50n	P	2.4	0.4C	16m	.40	0	5.0	360m	LACO	5	C	74-83	DIP16a
96♦	SFC483KM	TTL	2	4	50n	P	2.4	0.4C	16m	.40	0	5.0	360m	LACO	5	C	74-83	DIP16a
97♦	M74HC283B1(A)	CMS	2	4	51n	P	3.15	1.35	20u	0.1	0	7.0	500m	BUFF	4	8	74-283	DIP16a
98	M74HC283C1(A)	CMS	2	4	51n	P	3.15	1.35	20u	0.1	0	7.0	500m	BUFF	4	8	A02-52	LC33
99♦	M74HC283F1(A)	CMS	2	4	51n	P	3.15	1.35	20u	0.1	0	7.0	500m	BUFF	4	8	74-283	DIP16b
100	CD54HC283F(A)	CMS	2	4	59n	P	3.15	1.35	20u	0.1	0.5	7.0	500m	LACO	5	C	74-283	MS001a
101	CD54HCT283F(A)	CMS	2	4	59n	P	2.0	0.8	20u	0.1	0.5	7.0	500m	LACO	5	C	74-283	MS001a
102	74HCT283D	CMS	2	4	66n	P	2.0	0.8	20m	0.1		5.0		LACO	4	8	74-283N	FP162
103♦	74HCT283N	CMS	2	4	66n	P	2.0	0.8	20m	0.1		5.0		LACO	4	8	74-283N	DIP16b
104▼	TC74HC283F	CMS	2	4	68n	P	3.15	1.35	4.0m	0.33	0.0	5.0	180m	LACO	4	8	74-283N	FP167
105▼	TC74HC283P	CMS	2	4	68n	P	3.15	1.35	4.0m	0.33	0.0	5.0	500m	LACO	4	8	74-283N	DIP16a
106♦	HEF4008P	CMS	2	4	69n	P	7.0	3.0	2.0m	.50	0	10	1.0mQ	LACO	4	8	40-08B	DIP16a
107♦	PC74HC283P	CMS	2	4	69n	P	3.15	1.35	20u	0.1	0	5.0	500m	LACO	4	C	74-283	DIP16b
108	PC74HC283T	CMS	2	4	69n	P	3.15	1.35	20u	0.1	0	5.0	300m	LACO	4	C	74-283	FP148
109	HEF4008BTD	CMS	2	4	80n	P	11.0	4.0	3.0m	1.5	0	15	200m	LACO	4	8	40-08B	FP148
110♦	PC74HCT283P	CMS	2	4	80n	P	2.0	0.8	20u	0.1	0	5.0	500m	LACO	4	C	74-283	DIP16b

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

15. ADDERS - Full Adder (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[1] TYPE CODE	[2] BITS	[3] tpd MAX (s)	OPER MODE	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	SEE DRAWING INDEX FOR PAGE NUMBER CIRCUIT DRAWING	SEE DRAWING INDEX FOR PAGE NUMBER OUTLINE DRAWING
1	PC74HCT283T	CMS	2	4	80n	P	2.0	0.8	20u	0.1	0	5.0	300m	LACO	4	C	74-283	FP148
2♦	HEF4008B	CMS	2	4	94n	P	9.95	.05C	1.1m	.50	0	10		LACO	4	8	40-08B	DIP16b
3	HEF4008	CMS	2	4	100n	P	11	4.0	3.0m	1.5	0	15	400m	LACO	4	8	40-08B	DL ☑
4♦	HEF4008BPN	CMS	2	4	100n	P	11.0	4.0	3.0m	1.5	0	15	400m	LACO	4	8	40-08B	DIP16b
5♦	4008BDC	CMS	2	4	110n	P	11	4.0	3.0m	1.5	0	15	9.0mQ	LACO, BUFF	4	8	40-08B	DIP16a
6♦	4008BDM	CMS	2	4	110n	P	11	4.0	3.4m	1.5	0	15	9.0mQ	LACO, BUFF	5	C	40-08B	DIP16a
7	4008BFC	CMS	2	4	110n	P	11	4.0	3.0m	1.5	0	15	9.0mQ	LACO, BUFF	4	8	40-08B	FP103
8	4008BFM	CMS	2	4	110n	P	11	4.0	3.4m	1.5	0	15	9.0mQ	LACO, BUFF	5	C	40-08B	FP103
9	4008BPC	CMS	2	4	110n	P	11	4.0	3.0m	1.5	0	15	9.0mQ	LACO,BUFF	4	8	40-08B	None
10♦	HEF4008BD	CMS	2	4	110n	P	7.0	3.0	1u	1.0	0	10	500m	Look-Ahead	4	8	40-08	DIP16b
11♦	HEF4008BP	CMS	2	4	110n	P	7.0	3.0	1u	1.0	0	10	500m	Look-Ahead	4	8	40-08B	DIP16b
12♦	HEF4008BT	CMS	2	4	110n	P	7.0	3.0	1u	1.0	0	10	400m	Look-Ahead	4	8	40-08B	FP148
13♦	CD4008BCJ	CMS	2	4	190n	P	11	4.0	3.0m	1.5	0	15	1.2mQ	LACO	4	8	40-08B	DIP16a
14♦	CD4008BCN	CMS	2	4	190n	P	11	4.0	3.0m	1.5	0	15	1.2mQ	LACO	4	8	40-08B	DIP16a
15♦	CD4008BMJ	CMS	2	4	190n	P	11	4.0	3.4m	1.5	0	15	300uQ	LACO	5	C	40-08B	DIP16a
16	CD4008BMW	CMS	2	4	190n	P	11	4.0	3.4m	1.5	0	15	300uQ	LACO	5	C	40-08B	FP88c
17♦	MM54C83D	CMS	2	4	200n	P	8.0	2.0			0	10	4.5mQ	LACO	5	C	74-83	DIP16b
18♦	MM74C83N	CMS	2	4	200n	P	8.0	2.0				15	4.5mQ	LACO	0	7	74-83	DIP16a
19	883C4008B	CMS	2	4	230n	P	8.2	6.7	3.4m	1.5	0	15	300m	LACO	5	C	40-08B	MO001AG
20	BCL4008B	CMS	2	4	230n	P	8.2	6.7	3.4m	1.5	0	15	300m	LACO	5	C	40-08B	MO001AG
21♦	HCC4008BD	CMS	2	4	230n	P	11	4.0	3.4m	1.5	0	15	300uQ	LACO	5	C	40-08B	DIP16a
22♦	HCC4008BF	CMS	2	4	230n	P	11	4.0	3.4m	1.5	0	15	300uQ	LACO	5	C	40-08B	DIP16a
23	HCC4008BK	CMS	2	4	230n	P	11	4.0	3.4m	1.5	0	15	300uQ	LACO	5	C	40-08B	FP131
24♦	HCF4008BE	CMS	2	4	230n	P	11	4.0	3.4m	1.5	0	15	300uQ	LACO	4	8	40-08B	DIP16a
25♦	HCF4008BF	CMS	2	4	230n	P	11	4.0	3.4m	1.5	0	15	300uQ	LACO	4	8	40-08B	DIP16a
26♦	MB84008B	CMS	2	4	230n	P	10.5	4.5	3.0m	1.5	0	15	1.2mQ	LACB BUFF	4	8	40-08B	DIP16a
27♦	MB84008BM	CMS	2	4	230n	P	10.5	4.5	3.0m	1.5	0	15	1.2mQ	LACB BUFF	4	8	40-08B	DIP16b
28♦	MC14008BAL	CMS	2	4	230n	P	11.0	4.0	3.0m	1.5	0	15	300uQ	LACO,BUFF	5	C	40-08B	DIP16b
29▼	MC14008BALD	CMS	2	4	230n	P	11.0	4.0	3.0m	1.5	0	15	300uQ	LACO,BUFF	5	C	40-08B	DIP16b
30▼	MC14008BALDS	CMS	2	4	230n	P	11.0	4.0	3.0m	1.5	0	15	300uQ	LACO,BUFF	5	C	40-08B	DIP16b
31▼	MC14008BALS	CMS	2	4	230n	P	11.0	4.0	3.0m	1.5	0	15	300uQ	LACO,BUFF	5	C	40-08B	DIP16b
32♦	MC14008BCL	CMS	2	4	230n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO,BUFF	4	8	40-08B	DIP16b
33▼	MC14008BCLD	CMS	2	4	230n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO,BUFF	4	8	40-08B	DIP16b
34▼	MC14008BCLDS	CMS	2	4	230n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO,BUFF	4	8	40-08B	DIP16b
35▼	MC14008BCLS	CMS	2	4	230n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO,BUFF	4	8	40-08B	DIP16b
36♦	MC14008BCP	CMS	2	4	230n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO,BUFF	4	8	40-08B	DIP16a
37▼	MC14008BCPD	CMS	2	4	230n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO,BUFF	4	8	40-08B	DIP16a
38▼	MC14008BCPDS	CMS	2	4	230n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO,BUFF	4	8	40-08B	DIP16a
39▼	MC14008BCPS	CMS	2	4	230n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO,BUFF	4	8	40-08B	DIP16a
40▼	MC14008BD	CMS	2	4	230n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO,BUFF	4	8	40-08B	DIP16a
41	CD4560BD	CMS	2	4	300n	P	11	4	3.4m	1.5	0	15	500m	NBCD	5	C	45-60	MO001AE
42	CD4560BE	CMS	2	4	300n	P	11	4	3.4m	1.5	0	15	500m	NBCD	4	8	45-60	MO001AC
43	CD4560BF	CMS	2	4	300n	P	11	4	3.4m	1.5	0	15	500m	NBCD	5	C	45-60	MO001AC
44	CD4560BK	CMS	2	4	300n	P	11	4	3.4m	1.5	0	15	500m	NBCD	5	C	45-60	MO004AG
45	CD4008BD	CMS	2	4	320n	P	7.0	3.0	1.3m	0.5	0	20	500m	LACO	5	C	40-08B	MO001AE
46	CD4008BE	CMS	2	4	320n	P	7.0	3.0	1.3m	0.5	0	20	500m	LACO	4	8	40-08B	MO001AC
47	CD4008BF	CMS	2	4	320n	P	7.0	3.0	1.3m	0.5	0	20	500m	LACO	5	C	40-08B	MO001AC
48♦	TC4008BP	CMS	2	4	350n	P	14.9	.05C	3.0m	1.5	0	15	300m	LACO	4	8	40-08B	DIP16a
49♦	MC14560BAL	CMS	2	4	450n	P	11.0	4.0	3.0m	1.5	0	15	300uQ	NBCD	5	C	45-60B	DIP16b
50▼	MC14560BALD	CMS	2	4	450n	P	11.0	4.0	3.0m	1.5	0	15	300uQ	NBCD	5	C	45-60B	DIP16b
51▼	MC14560BALDS	CMS	2	4	450n	P	11.0	4.0	3.0m	1.5	0	15	300uQ	NBCD	5	C	45-60B	DIP16b
52▼	MC14560BALS	CMS	2	4	450n	P	11.0	4.0	3.0m	1.5	0	15	300uQ	NBCD	5	C	45-60B	DIP16b
53	CD4008AD	CMS	2	4	500n	P	9.95	0.05C	750u	.50	0	15	500m	LACO	5	C	40-08B	MO001AE
54	CD4008AF	CMS	2	4	500n	P	9.95	0.05C	750u	.50	0	15	500m	LACO	5	C	40-08B	MO001AC
55♦	CM4008AD	CMS	2	4	500n	P	9.99	.01C	250u	3.0	0	10	100uQ	LACO	5	C	40-08B	DIP16a
56	HBC4008AD	CMS	2	4	500n	P	10	0	250u	3.0	0	10	200m	LACO	5	C	40-08B	MO001AE
57	HBC4008AF	CMS	2	4	500n	P	10	0	250u	3.0	0	10	200m	LACO	5	C	40-08B	MO001AE
58	HBC4008AK	CMS	2	4	500n	P	10	0	250u	3.0	0	10	200m	LACO	5	C	40-08B	MO004AG
59♦	MSM4008	CMS	2	4	500n	P	7.2	2.0	3.0m	.50	0	10	1.4mQ	LACO	2	7	40-08B	DIP16a
60♦	SFF24008AEV	CMS	2	4	500n	P	9.95	.01C	250u	3.0	0	10	200m	LACO	4	8	40-08B	DIP16a
61♦	SFF24008AKM	CMS	2	4	500n	P	9.95	.01C	250u	3.0	0	10	200m	LACO	5	C	40-08B	DIP16a
62♦	TC4560BP	CMS	2	4	500n	P	14.9	.05C	3.0m	1.5	0	15	300m	NBCD	4	8	45-60B	DIP16a
63	CD4008AE	CMS	2	4	650n	P	9.95	0.05C	750u	.50	0	15	500m	LACO	4	8	40-08B	MO001AC
64♦	CM4008AE	CMS	2	4	650n	P	9.99	.01C	250u	3.0	0	10	1.0mQ	LACO	4	8	40-08B	DIP16a
65	HBF4008AE	CMS	2	4	650n	P	10	0	250u	3.0	0	10	200m	LACO	4	8	40-08B	MO001AC
66	HBF4008AF	CMS	2	4	650n	P	10	0	250u	3.0	0	10	200m	LACO	4	8	40-08B	MO001AE
67♦	MC14560BCL	CMS	2	4	675n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	NBCD	4	8	45-60B	DIP16b
68▼	MC14560BCLD	CMS	2	4	675n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	NBCD	4	8	45-60B	DIP16b
69▼	MC14560BCLDS	CMS	2	4	675n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	NBCD	4	8	45-60B	DIP16b
70▼	MC14560BCLS	CMS	2	4	675n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	NBCD	4	8	45-60B	DIP16b
71♦	MC14560BCP	CMS	2	4	675n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	NBCD	4	8	45-60B	DIP16a
72▼	MC14560BCPD	CMS	2	4	675n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	NBCD	4	8	45-60B	DIP16a
73▼	MC14560BCPDS	CMS	2	4	675n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	NBCD	4	8	45-60B	DIP16a
74▼	MC14560BCPS	CMS	2	4	675n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	NBCD	4	8	45-60B	DIP16a
75▼	MC14560BD	CMS	2	4	675n	P	11.0	4.0	3.0m	1.5	0	15	1.2mQ	NBCD	4	8	45-60B	DIP16a
76♦	MSM4008RS	CMS	2	4	700n	P	3.6	1.0			0.3	16	200m		4	8	40-08B	DIP16 ☑
77♦	SCL4008B	CMS	2	4	800n	P	3.5Δ	1.0*	1.3m	.50	0	18	100uQ	LACO	5	C	40-08B	DIP16a
78	K155IM3	TTL	2	4	1900n	P	2.4	0.4			0	5.0		Load cap.10	1	7	A02-02	None
79♦	F100180DC	ECL	2	6	2.0n	P	-1.1	-1.4	20m	-1.0	4.5	0	765mQ		0	7	None	DIP24c
80	F100180FC	ECL	2	6	2.0n	P	-1.1	-1.4	20m	-1.0	4.5	0	765mQ		0	7	None	FP126
81	HXA100180D	ECL	2	6	2.0n	P	-1.8	-.88			4.5	0	968m		0	8	A02-49	DL ☑
82	HXA100180F	ECL	2	6	2.0n	P	-1.8	-.88			4.5	0	968m		0	8	A02-49	FP ☑
83♦	HD100180	TTL	2	6	3.7n	P	-1.1	-1.5			7.0	0	40m†		0	8	A02-50	DIP24 ☑
84	HD100180F	TTL	2	6	3.8n	P	-1.1	-1.5			7.0	0	40m†		0	8	A02-50	FP ☑
85♦	100180F(A)	ECL	2	6	4.7n	P	-1.1	-1.4		-1.6	4.5	0	922m†	LACO	0	8	A02-49	DIP24d
86▼	100180Y(A)	ECL	2	6	4.7n	P	-1.1	-1.4		-1.6	4.5	0	922m†	LACO	0	8	A02-49	FP126
87♦	F100182DC	ECL	2	9	6.5n	P	-1.1	-1.4	20m	-1.0	4.5	0	810m†	Wallace Tre	0	8	A02-42	DIP24c
88	F100182FC	ECL	2	9	6.5n	P	-1.1	-1.4	20m	-1.0	4.5	0	810m†	Wallace Tre	0	8	A02-42	FP139
89♦	HD100182	ECL	2	9	7.0n	S					7.0	0		4 Delay lvl	0	8	A02-56	DIP24d
90	HD100182F	ECL	2	9	7.0n	S					7.0	0		4 Delay lvl	0	8	A02-56	FP146

SUBTRACTER

94♦	HD14561B	CMS	4	4	1.0u	S	3.5	1.5			0	15	300m	9 S Compl	4	8	A041	DIP14a

16. MULTIPLIERS - 2-Bit

IN ORDER OF: (1) BITS HI (2) BITS LO (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	BIT ARRAY HIxLO [1] HI	[2] LO	[3] tpd MAX (s)	MODE	OUTPUT CONFIG T	P	N	F	ARITHMETIC CAPABILITY	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
MULTIPLIER, 2-BIT																							
4♦	MC10287P	ECL	2	1	3.3n	P					BIN	.96	1.65C			8.0	0	400m†	3	8	X00-5	DIP16b	
5▼	MC10287PD	ECL	2	1	3.3n	P					BIN	.96	1.65C			8.0	0	400m†	3	8	X00-5	DIP16b	
6▼	MC10287PDS	ECL	2	1	3.3n	P					BIN	.96	1.65C			8.0	0	400m†	3	8	X00-5	DIP16b	
7♦	MC10287L	ECT	2	1	13n	P					BIN	-.96	-1.6C			8.0	0	400m†	3	8	X00-5	DIP16a	
8▼	MC10287LD	ECT	2	1	13n	P					BIN	-.96	-1.6C			8.0	0	400m†	3	8	X00-5	DIP16a	
9▼	MC10287LDS	ECT	2	1	13n	P					BIN	-.96	-1.6C			8.0	0	400m†	3	8	X00-5	DIP16a	
10♦	MC14554BAL	CMS	2	2	130n	P					BIN	11.0	4.0	3.0m	1.5	0	15	.30mQ	5	C	45-54B	DIP16b	
11▼	MC14554BALD	CMS	2	2	130n	P					BIN	11.0	4.0	3.0m	1.5	0	15	.30mQ	5	C	45-54B	DIP16b	
12▼	MC14554BALDS	CMS	2	2	130n	P					BIN	11.0	4.0	3.0m	1.5	0	15	.30mQ	5	C	45-54B	DIP16b	
13▼	MC14554BALS	CMS	2	2	130n	P					BIN	11.0	4.0	3.0m	1.5	0	15	.30mQ	5	C	45-54B	DIP16b	
14♦	MC14554BCL	CMS	2	2	215n	P					BIN	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-54B	DIP16b	
15▼	MC14554BCLD	CMS	2	2	215n	P					BIN	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-54B	DIP16b	
16▼	MC14554BCLDS	CMS	2	2	215n	P					BIN	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-54B	DIP16b	
17▼	MC14554BCLS	CMS	2	2	215n	P					BIN	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-54B	DIP16b	
18♦	MC14554BCP	CMS	2	2	215n	P					BIN	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-54B	DIP16a	
19▼	MC14554BCPD	CMS	2	2	215n	P					BIN	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-54B	DIP16a	
20▼	MC14554BCPDS	CMS	2	2	215n	P					BIN	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-54B	DIP16a	
21▼	MC14554BCPS	CMS	2	2	215n	P					BIN	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-54B	DIP16a	
22▼	MC14554BD	CMS	2	2	215n	P					BIN	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-54B	DIP16a	
MULTIPLIER, 4-BIT																							
26♦	MC10183L	ECT	4	2	14n	P					2SC	-.96	-1.6C			8.0	0	750m†	3	8	X00-4	DIP16a	
27▼	MC10183LD	ECT	4	2	14n	P					2SC	-.96	-1.6C			8.0	0	750m†	3	8	X00-4	DIP16a	
28▼	MC10183LDS	ECT	4	2	14n	P					2SC	-.96	-1.6C			8.0	0	750m†	3	8	X00-4	DIP16a	
29♦	93S43DC	TTL	4	2	20n	P					BIN 2SC	2.0	0.8	20m	.50	0	5.0	490m†	0	7	X00-1	DIP24b	
30♦	93S43DM	TTL	4	2	20n	P					BIN 2SC	2.0	0.8	20m	.50	0	5.0	490m†	5	C	X00-1	DIP24b	
31	93S43FM	TTL	4	2	20n	P					BIN 2SC	2.0	0.8	20m	.50	0	5.0	490m†	5	C	X00-1	FP66	
32♦	93S43PC	TTL	4	2	20n	P					BIN 2SC	2.0	0.8	20m	.50	0	5.0	490m†	0	7	X00-1	DIP24a	
33	9344FM	TTL	4	2	30n	P					BIN	2.0	0.8			0	5.0	550m†	5	C	X00-2	FP66	
34♦	AM25S05DC	TTL	4	2	37n	P					2SC	2.0	0.8	20m	.50	0	7.0	935mQ	0	7	X00-10	DIP24a	
35♦	AM25S05PC	TTL	4	2	37n	P					2SC	2.0	0.8	20m	.50	0	7.0	935mQ	0	7	X00-10	DIP24a	
36♦	N74LS261F	TTL	4	2	42n	P					BIN 2SC	2.0	0.8	8.0m	.50	0	5.0	200m	0	7	74LS261	DIP16b	
37♦	N74LS261N	TTL	4	2	42n	P					BIN 2SC	2.0	0.8	8.0m	.50	0	5.0	200m	0	7	74LS261	DIP16a	
38♦	S54LS261F	TTL	4	2	42n	P					BIN, 2SC	2.0	.70	4.0m	.40	0	5.0	200m	5	C	74LS261	DIP16b	
39	S54LS261W	TTL	4	2	42n	P					BIN 2SC	2.0	.70	4.0m	.40	0	5.0	200m	5	C	54LS261	FP47g	
40♦	SN54LS261J	TTL	4	2	42n	P					BIN	2.0	.70	4.0m	.40	0	5.0	190mQ	5	C	74LS261	DIP16a	
41♦	SN74LS261N	TTL	4	2	42n	P					BIN	2.0	0.8	8.0m	.50	0	5.0	200mQ	0	7	74LS261	DIP16a	
42♦	AM2505DC	TTL	4	2	63n	P					2SC	2.0	0.8	9.6m	.40	0	5.0	725mQ	0	7	X00-11	DIP24a	
43♦	AM2505PC	TTL	4	2	63n	P					2SC	2.0	0.8	9.6m	.40	0	5.0	725mQ	0	7	X00-11	DIP24a	
44♦	AM25L05DC	TTL	4	2	142n	P					2SC	2.0	.70	4.9m	.30	0	5.0	225mQ	0	7	X00-12	DIP24a	
45♦	AM25L05PC	TTL	4	2	142n	P					2SC	2.0	.70	4.9m	.30	0	5.0	225mQ	0	7	X00-12	DIP24a	
46♦	DM7875AD,BD	TTL	4	4	60n	P					BIN	2.0	0.8	16m	.40	0	5.0	375m†	5	C	X00-6	DIP16b	
47♦	DM7875AJ	TTL	4	4	60n	P		TS			BIN	2.0	0.8	16m	0.4		5.0		5	C	54-284	DIP16b	
48	DM7875AW	TTL	4	4	60n	P					BIN	2.0	0.8	16m	0.4	0			5	C	X00-6	FP98b	
49♦	DM7875BJ	TTL	4	4	60n	P		TS			BIN	2.0	0.8	16m	0.4		5.0		5	C	54-285	DIP16b	
50	DM7875BW	TTL	4	4	60n	P					BIN	2.0	0.8	16m	0.4	0			5	C	X00-6	FP98b	
51♦	DM8875AJ,BJ	TTL	4	4	60n	P					BIN	2.0	0.8	16m	.40	0	5.0	375m†	0	7	X00-6	DIP16a	
52♦	DM8875AN	TTL	4	4	60n	P		TS			BIN	2.0	0.8	16m	0.4		5.0		0	7	74-284	DIP16a	
53♦	DM8875AN,BN	TTL	4	4	60n	P					BIN	2.0	0.8	16m	.40	0	5.0	375m†	0	7	X00-6	DIP16a	
54♦	DM8875BN	TTL	4	4	60n	P		TS			BIN	2.0	0.8	16m	0.4		5.0		0	7	74-285	DIP16a	
55♦	SN74284N	TTL	4	4	60n	P		OC			BIN	2.0	0.8	16m	.45	0	5.0		0	7	74-284	DIP16a	
56♦	SN74285N	TTL	4	4	60n	P		OC			BIN	2.0	0.8	16m	.45	0	5.0		0	7	74-285	DIP16a	
MULTIPLIER, 8-BIT																							
60♦	54F784L1M	TTL	8		13n	S/P					2SC	2.0	0.8	20m	0.5	0	7.0		5	C	X00-72	LC19	
61♦	N74F384D(A)	TTL	8	1		S/P		TS			2SC	2.0	0.8	20m	.5	0	5.0		0	7	54LS384	FP148	
62♦	N74F384N(A)	TTL	8	1		S/P		TS			2SC	2.0	0.8	20m	.5	0	5.0		0	7	74LS384	DIP16a	
63♦	54F384DM	TTL	8	1	13n	S/P					2SC	2.0	0.8	20m	0.5	0	7.0		5	C	74LS384	DIP20b	
64	54F384L1M	TTL	8	1	13n	S/P					2SC	2.0	0.8	20m	0.5	0	7.0		5	C	X00-68	LC19	
65♦	N74F784D(A)	TTL	8	1	13n	S/P					2SC	2.0	0.8	20m	0.5	0	5.0		0	7	74F784	FP169	
66♦	N74F784N(A)	TTL	8	1	13n	S/P					2SC	2.0	0.8	20m	0.5	0	5.0		0	7	74F784	DIP20a	
67♦	74F384DC	TTL	8	1	14n	S/P					2SC	2.0	0.8	20m	0.5	0	7.0		0	7	74LS384	DIP20b	
68	74F384L1C	TTL	8	1	14n	S/P					2SC	2.0	0.8	20m	0.5	0	7.0		0	7	X00-684	LC19	
69♦	74F384PC	TTL	8	1	14n	S/P					2SC	2.0	0.8	20m	0.5	0	7.0		0	7	74LS384	DIP20a	
70	74F384QC	TTL	8	1	14n	S/P					2SC	2.0	0.8	20m	0.5	0	7.0		0	7	X00-684	LC26	
71	74F384SC	TTL	8	1	14n	S/P					2SC	2.0	0.8	20m	0.5	0	7.0		0	7	54LS384	FP169	
72♦	CD74HC384E	CMS	8	1	20n	S					2SC	3.85	1.10	4.0m	0.32	0.50	7.0	500m	4	8	74LS384	DIP16b	
73♦	CD74HCT384E	CMS	8	1	20n	S					2SC	2.00	0.80	4.0m	0.32	0.50	7.0	500m	4	8	74LS384	DIP16b	
74♦	54LS384DM	TTL	8	1	25n	S/P					2SC	2.0	0.8			0	5.0	775m	5	C	74LS384	DIP16a	
75	54LS384FM	TTL	8	1	25n	S/P					2SC	2.0	0.8			0	5.0	775m	5	C	54LS384	FP93c	
76♦	AM25LS14ADC	TTL	8	1	25n	S/P					2SC	2.0	0.8	12m	.45	0	7.0		0	7	74LS384	DIP16a	
77♦	AM25LS14ADM	TTL	8	1	25n	S/P					2SC	2.0	0.8	12m	.45	0	7.0		5	C	74LS384	DIP16a	
78♦	AM25LS14AFM	TTL	8	1	25n	S/P					2SC	2.0	0.8	12m	.45	0	7.0		5	C	74LS384	FP79b	
79♦	AM25LS14APC	TTL	8	1	25n	S/P					2SC	2.0	0.8	12m	.45	0	7.0		0	7	74LS384	DIP16a	
80♦	SN74LS384N	TTL	8	1	25n	S/P					2SC	2.0	0.8	8.0m	0.5	0	7.0		0	7	74LS384	DIP16a	
81♦	MSM5506RS	CMS	8	1	1.0u	S/P					BCD	3.6	0.8	1.6m	0.4	0	70		3	8	X00-43	DIP16a	
82	F100183FC	ECL	8	2	4.0n	P					2SC	-1.2	-1.5	20m	-1.0	7.0	0.5	880m†	0	8	None	FP139	
83♦	HD100183	ECL	8	2	4.0n	P					2SC					7.0	0		0	8	X00-88	DIP24d	
84	HD100183F	ECL	8	2	4.0n	P					2SC					7.0	0		0	8	X00-88	FP146	
85♦	F100183DC	ECL	8	2	4.2n	P					2SC	-1.2	-1.5	20m	-1.0	7.0	0.5	880m†	0	8	None	DIP24c	
86	57558F42	TTL	8	8		P					2SC, USM	2.0	0.8	8.0m	0.5	0	5.0		5	C	X00-39	FP	☑
87♦	57558J40	TTL	8	8		P					2SC, USM	2.0	0.8	8.0m	0.5	0	5.0		5	C	X00-39	DIP40	
88	MC10901Z		8	8		P					2SC;USM;	-.84	-1.9*			-8.0	0		0	7	X00-42	LC10	
89	SN54S557F42	SCH	8	8		P					2SC, USM	2.0	0.8	8m	0.5	0	7.0		5	C	54S557	FP	☑
90♦	SN54S557J40	SCH	8	8		P					2SC, USM	2.0	0.8	8m	0.5	0	7.0		5	C	74S557	DIP40	☑
91	SN54S558F42	SCH	8	8		P					2SC, USM	2.0	0.8	8m	0.5	0	7.0		5	C	54S558	FP	☑
92♦	SN54S558J40	SCH	8	8		P					2SC, USM	2.0	0.8	8m	0.5	0	7.0		5	C	74S558	DIP40	☑
93♦	SN74S557J40	SCH	8	8		P					2SC, USM	2.0	0.8	8m	0.5	0	7.0		0	7	74S557	DIP40	☑
94♦	SN74S558J40	SCH	8	8		P					2SC, USM	2.0	0.8	8m	0.5	0	7.0		0	7	74S558	DIP40	☑
95♦	54F784DM	TTL	8	8	13n	S/P					2SC	2.0	0.8	20m	0.5	0	7.0		5	C	X00-66	DIP20b	
96♦	74F784DC	TTL	8	8	14n	S/P					2SC	2.0	0.8	20m	0.5	0	7.0		0	7	X00-66	DIP20b	
97	74F784L1C	TTL	8	8	14n	S/P					2SC	2.0	0.8	20m	0.5	0	7.0		0	7	X00-72	LC19	
98♦	74F784PC	TTL	8	8	14n	S/P					2SC	2.0	0.8	20m	0.5	0	7.0		0	7	X00-66	DIP20a	
99	74F784QC	TTL	8	8	14n	S/P					2SC	2.0	0.8	20m	0.5	0	7.0		0	7	X00-72	LC26	
100♦	74F784SC	TTL	8	8	14n	S/P					2SC	2.0	0.8	20m	0.5	0	7.0		0	7	X00-66	FP169	
101♦	ADSP1080AKN	CMS	8	8	33n	P		TS			2SC	2.0	0.8	4.0m	0.4		5.0	275m	0	7	X00-50	DIP40a	
102♦	ADSP1081AKD	CMS	8	8	33n	P		TS			USM	2.0	0.8	4.0m	0.4		5.0	275m	0	7	X00-50	DIP40a	
103♦	ADSP1081AKN	CMS	8	8	33n	P		TS			USM	2.0	0.8	4.0m	0.4		5.0	275m	0	7	X00-50	DIP40a	
104♦	ADSP1080AJD	CMS	8	8	45n	P		TS			2SC	2.0	0.8	4.0m	0.4		5.0	275m	0	7	X00-50	DIP40a	
105♦	ADSP1080AJN	CMS	8	8	45n	P		TS			2SC	2.0	0.8	4.0m	0.4		5.0	275m	0	7	X00-50	DIP40a	
106♦	ADSP1080ATD	CMS	8	8	45n	P		TS			2SC	2.0	0.8	4.0m	0.6		5.0	275m	5	C	X00-50	DIP40a	
107♦	ADSP1081AJD	CMS	8	8	45n	P		TS			USM	2.0	0.8	4.0m	0.4		5.0	275m	0	7	X00-50	DIP40a	
108♦	ADSP1081AJN	CMS	8	8	45n	P		TS			USM	2.0	0.8	4.0m	0.4		5.0	275m	0	7	X00-50	DIP40a	
109♦	ADSP1081ATD	CMS	8	8	45n	P		TS			USM	2.0	0.8	4.0m	0.6		5.0	275m	5	C	X00-50	DIP40a	
110♦	AM25S557DC	TTL	8	8	45n	P					2SC	2.0	0.8	8.0m	0.5	0	7.0		0	7	X00-39	DIP40b	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

16. MULTIPLIERS - 8-Bit (Cont'd)

IN ORDER OF: (1) BITS HI (2) BITS LO (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	BIT ARRAY HIxLO [1] HI	[2] LO	[3] tpd MAX (s)	MODE	OUTPUT CONFIGURATION	ARITHMETIC CAPABILITY	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1♦	AM25S557DM	TTL	8	8	45n	P		2SC	2.0	0.8	8.0m	0.5	0	7.0		5	C	X00-39	DIP40b	
2	AM25S557LC	TTL	8	8	45n	P		2SC	2.0	0.8	8.0m	0.5	0	7.0		0	7	X00-39	LC32	
3	AM25S557LM	TTL	8	8	45n	P		2SC	2.0	0.8	8.0m	0.5	0	7.0		5	C	X00-39	LC32	
4♦	AM25S558DC	TTL	8	8	45n	P		2SC	2.0	0.8	8.0m	0.5	0	7.0		0	7	X00-39	DIP40b	
5♦	AM25S558DM	TTL	8	8	45n	P		2SC	2.0	0.8	8.0m	0.5	0	7.0		5	C	X00-39	DIP40b	
6	AM25S558LC	TTL	8	8	45n	P		2SC	2.0	0.8	8.0m	0.5	0	7.0		0	7	X00-39	LC32	
7	AM25S558LM	TTL	8	8	45n	P		2SC	2.0	0.8	8.0m	0.5	0	7.0		5	C	X00-39	LC32	
8♦	LMU08DC1	CMS	8	8	50n	P	TS	2SC, USM	2.0	0.8	4m	0.5	0	5.0	40m†	0	7	X00-91	DIP40a	
9♦	LMU8UDC1	CMS	8	8	50n	P	TS	2SC, USM	2.0	0.8	4m	0.5	0	5.0	40m†	0	7	X00-92	DIP40a	
10♦	ADSP1008AKD	CMS	8	8	55n	P	TS	2SC, USM D	2.0	0.8	4.0m	0.4		5.0	100m	0	7	X00-19	DIP48a	
11♦	ADSP1080ASD	CMS	8	8	55n	P	TS	2SC	2.0	0.8	4.0m	0.6		5.0	275m	5	C	X00-50	DIP40a	
12♦	ADSP1081ASD	CMS	8	8	55n	P	TS	USM	2.0	0.8	4.0m	0.6		5.0	275m	5	C	X00-50	DIP40a	
13♦	AM25LS2516DC	TTL	8	8	57n	S/P	TS	2SC	2.0	0.8	4.0m	.40	0	5.0	2.0	0	7	74-558	DIP40b	
14♦	LMU08DM1	CMS	8	8	60n	P	TS	2SC, USM	2.0	0.8	4m	0.5	0	5.0	40m†	5	C	X00-91	DIP40a	
15♦	LMU8UDM1	CMS	8	8	60n	P	TS	2SC, USM	2.0	0.8	4m	0.5	0	5.0	40m†	5	C	X00-92	DIP40a	
16	SN54S557-44L	TTL	8	8	60n	P		2SC	2.0	0.8	8.0m	0.5		7.0		5	C	X00-83	LC42	
17♦	SN54S557J	TTL	8	8	60n	P		2SC	2.0	0.8	8.0m	0.5		7.0		5	C	X00-83	DIP40a	
18	SN54S558-44L	TTL	8	8	60n	P		2SC	2.0	0.8	8.0m	0.5		7.0		5	C	X00-83	LC42	
19♦	SN54S558J	TTL	8	8	60n	P		2SC	2.0	0.8	8.0m	0.5		7.0		5	C	X00-83	DIP40a	
20♦	SN74S557J	TTL	8	8	60n	P		2SC	2.0	0.8	8.0m	0.5		7.0		0▼	7	X00-83	DIP40a	
21♦	SN74S557N	TTL	8	8	60n	P		2SC	2.0	0.8	8.0m	0.5		7.0		0▼	7	X00-83	DIP40a	
22♦	SN74S558J	TTL	8	8	60n	P		2SC	2.0	0.8	8.0m	0.5		7.0		0▼	7	X00-83	DIP40a	
23♦	SN74S558N	TTL	8	8	60n	P		2SC	2.0	0.8	8.0m	0.5		7.0		0▼	7	X00-83	DIP40a	
24♦	ADSP1008AJD	CMS	8	8	65n	P	TS	2SC, USM D	2.0	0.8	4.0m	0.4		5.0	100m	0	7	X00-19	DIP48a	
25♦	ADSP1008ATD	CMS	8	8	65n	P	TS	2SC, USM D	2.0	0.8	4.0m	0.6		5.0	100m	5	C	X00-19	DIP48a	
26♦	54F557DM(A)	TTL	8	8	70n	P		BIN, 2SC	2.0	0.8	20m	0.5	0	7.0		5	C	X00-70	DIP40b	
27	54F557L1M(A)	TTL	8	8	70n	P		BIN, 2SC	2.0	0.8	20m	0.5	0	7.0		5	C	X00-71	LC19b	
28♦	54F558DM(A)	TTL	8	8	70n	P		BIN, 2SC	2.0	0.8	20m	0.5	0	7.0		5	C	X00-69	DIP40b	
29	54F558L1M(A)	TTL	8	8	70n	P		BIN, 2SC	2.0	0.8	20m	0.5	0	7.0		5	C	X00-71	LC19b	
30♦	74F557DC(A)	TTL	8	8	70n	P		BIN, 2SC	2.0	0.8	20m	0.5	0	7.0		0	7	X00-70	DIP40b	
31	74F557L1C(A)	TTL	8	8	70n	P		BIN, 2SC	2.0	0.8	20m	0.5	0	7.0		0	7	X00-71	LC19b	
32♦	74F557PC(A)	TTL	8	8	70n	P		BIN, 2SC	2.0	0.8	20m	0.5	0	7.0		0	7	X00-70	DIP40b	
33♦	74F558DC(A)	TTL	8	8	70n	P		BIN, 2SC	2.0	0.8	20m	0.5	0	7.0		0	7	X00-69	DIP40b	
34	74F558L1C(A)	TTL	8	8	70n	P		BIN, 2SC	2.0	0.8	20m	0.5	0	7.0		0	7	X00-71	LC19b	
35♦	74F558PC(A)	TTL	8	8	70n	P		BIN, 2SC	2.0	0.8	20m	0.5	0	7.0		0	7	X00-69	DIP40b	
36	74F558QC(A)	TTL	8	8	70n	P		BIN, 2SC	2.0	0.8	20m	0.5	0	7.0		0	7	X00-71	LC28	
37♦	LMU08DC	CMS	8	8	70n	P	TS	2SC, USM	2.0	0.8	4m	0.5	0	5.0	40m†	0	7	X00-91	DIP40a	
38♦	LMU8UDC	CMS	8	8	70n	P	TS	2SC, USM	2.0	0.8	4m	0.5	0	5.0	40m†	0	7	X00-92	DIP40a	
39♦	LMU557DC	CMS	8	8	70n	P	TS	2SC, USM	2.0	0.8	8m	0.5	0	5.0	85m†	0	7	X00-90	DIP40a	
40♦	LMU557DM	CMS	8	8	70n	P	TS	2SC, USM	2.0	0.8	8m	0.5	0	5.0	85m†	0	7	X00-90	DIP40a	
41♦	LMU557PC	CMS	8	8	70n	P	TS	2SC, USM	2.0	0.8	8m	0.5	0	5.0	85m†	0	7	X00-90	DIP40b	
42♦	LMU557PM	CMS	8	8	70n	P	TS	2SC, USM	2.0	0.8	8m	0.5	0	5.0	85m†	0	7	X00-90	DIP40a	
43♦	LMU558DC	CMS	8	8	70n	P	TS	2SC, USM	2.0	0.8	8m	0.5	0	5.0	85m†	5	C	X00-90a	DIP40a	
44♦	LMU558DM	CMS	8	8	70n	P	TS	2SC, USM	2.0	0.8	8m	0.5	0	5.0	85m†	5	C	X00-90a	DIP40a	
45♦	LMU558PC	CMS	8	8	70n	P	TS	2SC, USM	2.0	0.8	8m	0.5	0	5.0	85m†	5	C	X00-90a	DIP40b	
46♦	LMU558PM	CMS	8	8	70n	P	TS	2SC, USM	2.0	0.8	8m	0.5	0	5.0	85m†	5	C	X00-90a	DIP40b	
47♦	ADSP1008ASD	CMS	8	8	80n	P	TS	2SC, USM D	2.0	0.8	4.0m	0.6		5.0	100m	5	C	X00-19	DIP48a	
48♦	LMU08DM	CMS	8	8	90n	P	TS	2SC, USM	2.0	0.8	4m	0.5	0	5.0	40m†	5	C	X00-91	DIP40a	
49♦	LMU8UDM	CMS	8	8	90n	P	TS	2SC, USM	2.0	0.8	4m	0.5	0	5.0	40m†	5	C	X00-92	DIP40a	
50	MPY008HC2C	TTL	8	8	90n	P	TS	2SC	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-55a	LC21	
51♦	MPY008HJ5C	TTL	8	8	90n	P	TS	2SC	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-55	DIP40b	
52♦	MPY008HJ5C1	TTL	8	8	90n	P	TS	2SC	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-55	DIP40b	
53♦	MPY008HJ5G	TTL	8	8	90n	P	TS	2SC	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-55	DIP40b	
54♦	MPY008HJ5G1	TTL	8	8	90n	P	TS	2SC	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-55	DIP40b	
55♦	MPY08HUJ5C	TTL	8	8	90n	P	TS	USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-50	DIP40b	
56♦	MPY08HUJ5C1	TTL	8	8	90n	P	TS	USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-50	DIP40b	
57♦	MPY08HUJ5G	TTL	8	8	90n	P	TS	USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-50	DIP40b	
58♦	MPY08HUJ5G1	TTL	8	8	90n	P	TS	USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-50	DIP40b	
59♦	TDC1008J4C	BIP	8	8	100n	P	TS	2SC, USM	2.0	0.8	4.0m	.50	0	7.0	1.6			X00-19	DIP48a	
60♦	TDC1008J4G	BIP	8	8	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-19	DIP48a	
61	MPY008HC2A	TTL	8	8	115n	P	TS	2SC	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-55a	LC21	
62	MPY008HC2F	TTL	8	8	115n	P	TS	2SC	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-55a	LC21	
63♦	MPY008HJ5A	TTL	8	8	115n	P	TS	2SC	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-55	DIP40b	
64♦	MPY008HJ5F	TTL	8	8	115n	P	TS	2SC	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-55	DIP40b	
65	TDC1008C1A	BIP	8	8	125n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-59	LC22	
66	TDC1008C1F	BIP	8	8	125n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-59	LC22	
67♦	TDC1008J4A	BIP	8	8	125n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-19	DIP48a	
68♦	TDC1008J4F	BIP	8	8	125n	P	TS	2SC, USM	2.0	0.8	4.0m	.50	0	7.0	1.9	5	C	X00-19	DIP48a	
69♦	GP503J/1RZ	CMS	8	8	150n	P		2SC						5.0				X00-22	LC64	
70♦	SN54S508D24	TTL	8	8	800n	P		2SC, PDA	2.0	0.8	8.0m	0.5		7.0		5	C	X00-46	DIP24b	
71♦	SN54S508TD24	TTL	8	8	800n	P		2SC	2.0	0.8	8.0m	0.5	0	5.0		5	C	74S508	DIP24a	
72♦	SN74S508D24	TTL	8	8	800n	P		2SC, PDA	2.0	0.8	8.0m	0.5		7.0		0▼	7	X00-46	DIP24b	
73♦	SN74S508TD24	TTL	8	8	800n	P		2SC	2.0	0.8	8.0m	0.5	0	5.0		0	7	74S508	DIP24a	
74♦	H1855L	CMS	8	8	2.5u	P	TS	2SC, USM	3.5	1.5				10		5	C	X00-27	LC	☑
75♦	H1855P	CMS	8	8	2.5u	P	TS	2SC, USM	3.5	1.5				10		4	B	X00-27	DIP28	☑
76♦	H1855Y	CMS	8	8	2.5u	P	TS	2SC, USM	3.5	1.5				10		5	C	X00-27	DIP28	☑
77♦	HB1855D	CMS	8	8	2.5u	P		2SC, USM	3.5	1.5				10		5	C	X00-27	DIP28	☑
78♦	HC1855L	CMS	8	8	2.5u	P		2SC, USM	3.5	1.5				10		0	7	X00-27	LC	☑
79♦	HC1855Y	CMS	8	8	2.5u	P		2SC, USM	3.5	1.5				10		0	7	X00-27	DIP28	☑
80♦	HI1855P	CMS	8	8	2.5u	P		2SC, USM	3.5	1.5				10		2	8	X00-27	DIP28	☑
81♦	CDP1855D	CMS	8	8	2.8u	P		2SC, USM	3.5	1.5				10		5	C	X00-27	DIP28b	
82♦	CDP1855E	CMS	8	8	2.8u	P		2SC, USM	3.5	1.5				10		2	8	X00-27	DIP28a	
83♦	H1855CD	CMS	8	8	5.0u	P	TS	2SC, USM	3.5	1.5				5.0		5	C	X00-27	DIP28	☑
84♦	H1855CL	CMS	8	8	5.0u	P	TS	2SC, USM	3.5	1.5				5.0		5	C	X00-27	LC	☑
85♦	H1855CP	CMS	8	8	5.0u	P	TS	2SC, USM	3.5	1.5				5.0		4	B	X00-27	DIP28	☑
86♦	H1855CY	CMS	8	8	5.0u	P	TS	2SC, USM	3.5	1.5				5.0		5	C	X00-27	DIP28	☑
87♦	HB1855CD	CMS	8	8	5.0u	P		2SC, USM	3.5	1.5				5.0		5	C	X00-27	DIP28	☑
88♦	HC1855CL	CMS	8	8	5.0u	P		2SC, USM	3.5	1.5				5.0		0	7	X00-27	LC	☑
89♦	HC1855CY	CMS	8	8	5.0u	P		2SC, USM	3.5	1.5				5.0		0	7	X00-27	DIP28	☑
90♦	HI1855CP	CMS	8	8	5.0u	P		2SC, USM	3.5	1.5				5.0		2	8	X00-27	DIP28	☑
91♦	CDP1855CE	CMS	8	8	5.6u	P		2SC, USM	3.5	1.5				5.0		2	8	X00-27	DIP28a	
92♦	H1855D	CMS	8	8	2.5	P	TS	2SC, USM	3.5	1.5				10		5	C	X00-27	DIP28	☑

MULTIPLIER, 12-BIT

96♦	AM29L509DC	TTL	12	12		P		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-73	DIP64a	
97♦	AM29L509DCB	TTL	12	12		P		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-73	DIP64a	
98♦	AM29L509DMB	TTL	12	12		P		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-73	DIP64a	
99	AM29L509LC	TTL	12	12		P		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-73a	LC68	☑
100	AM29L509LMB	TTL	12	12		P		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-73a	LC68	☑
101▼	AM29L509PC	TTL	12	12		P		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-73	DIP64	☑
102▼	AM29L509PCB	TTL	12	12		P		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-73	DIP64	☑
103▼	AM29509DC	TTL	12	12		P		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-73	DIP64a	
104▼	AM29509DCB	TTL	12	12		P		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-73	DIP64a	
105▼	AM29509DMB	TTL	12	12		P		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-73	DIP64a	
106▼	AM29509LC	TTL	12	12		P		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-73a	LC68	☑
107▼	AM29509LMB	TTL	12	12		P		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-73a	LC68	☑
108▼	LMU12GC	CMS	12	12		P	TS	2SC, USM						5.0		0	7	X00-64a	PG68a	
109▼	LMU112DC55	CMS	12	12		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-44	DIP48a	
110▼	LMU112DC	CMS	12	12		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-44	DIP48a	

16. MULTIPLIERS - 12-Bit (Cont'd)

IN ORDER OF: (1) BITS HI (2) BITS LO (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	BIT ARRAY HIxLO [1] HI	[2] LO	[3] tpd MAX (s)	MODE	OUTPUT FUNCTION	ARITHMETIC CAPABILITY	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1▼	LMU112DMB55	CMS	12	12		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		5	C	X00-44	DIP48a	
2▼	LMU112DMB	CMS	12	12		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		5	C	X00-44	DIP48a	
3▼	LMU112PC55	CMS	12	12		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-44	DIP48a	
4▼	LMU112PC	CMS	12	12		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-44	DIP48a	
5▼	MC10L951R(A)	BIP	12	12	21n	P	TS	2SC,USM	-.8	-1.9		-1.6	4.5	0		0	7	X00-26	PG112	
6♦	MC10951R(A)	BIP	12	12	21n	P	TS	2SC,USM	-.8	-1.9		-1.6	5.2	0		0	7	X00-26	PG112	
7▼	MC100951R(A)	BIP	12	12	21n	P	TS	2SC,USM	-.8	-1.9		-1.6	4.5	0		0	7	X00-26	PG112	
8▼	IDT7209L30C	CMS	12	12	30n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP64a	
9▼	IDT7209L30L	CMS	12	12	30n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	LC19d	
10▼	IDT7209L30P	CMS	12	12	30n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP64a	
11▼	IDT7209L30XC	CMS	12	12	30n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP68	
12▼	IDT7212L30C	CMS	12	12	30n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76a	DIP64a	
13▼	IDT7212L30F	CMS	12	12	30n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76a	FP137	
14▼	IDT7212L30L	CMS	12	12	30n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76a	LC19d	
15▼	IDT7212L30P	CMS	12	12	30n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76a	DIP64a	
16▼	IDT7212L30XC	CMS	12	12	30n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76a	DIP68	
17▼	IDT7213L30C	CMS	12	12	30n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77a	DIP64a	
18▼	IDT7213L30F	CMS	12	12	30n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77a	FP137	
19▼	IDT7213L30L	CMS	12	12	30n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77a	LC19d	
20▼	IDT7213L30P	CMS	12	12	30n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77a	DIP64a	
21▼	IDT7213L30XC	CMS	12	12	30n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77a	DIP68	
22▼	IDT7209L40CB	CMS	12	12	40n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-23	DIP64a	
23▼	IDT7209L40LB	CMS	12	12	40n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-23	LC19d	
24▼	IDT7209L40XCB	CMS	12	12	40n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-23	DIP68	
25▼	IDT7212L40CB	CMS	12	12	40n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-76a	DIP64a	
26▼	IDT7212L40FB	CMS	12	12	40n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-76a	FP137	
27▼	IDT7212L40LB	CMS	12	12	40n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-76a	LC19d	
28▼	IDT7212L40XCB	CMS	12	12	40n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-76a	DIP68	
29▼	IDT7213L40CB	CMS	12	12	40n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77a	DIP64a	
30▼	IDT7213L40FB	CMS	12	12	40n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77a	FP137	
31▼	IDT7213L40LB	CMS	12	12	40n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77a	LC19d	
32▼	IDT7213L40XCB	CMS	12	12	40n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77a	DIP68	
33▼	LMS12GC40	CMS	12	12	40n	P	TS	2SC	2.0	0.8	4m	0.5		5.0		0	7	X00-102	LC19e	
34▼	LMS12JC40	CMS	12	12	40n	P	TS	2SC	2.0	0.8	4m	0.5		5.0		0	7	X00-102	None	☑
35▼	IDT7209L45C	CMS	12	12	45n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP64a	
36▼	IDT7209L45L	CMS	12	12	45n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	LC19d	
37▼	IDT7209L45P	CMS	12	12	45n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP64a	
38▼	IDT7209L45XC	CMS	12	12	45n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP68	
39♦	IDT7212L45C	CMS	12	12	45n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76	DIP64a	
40♦	IDT7212L45F	CMS	12	12	45n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76a	FP137	
41♦	IDT7212L45L	CMS	12	12	45n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76b	LC19d	
42▼	IDT7212L45P	CMS	12	12	45n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76a	DIP64a	
43▼	IDT7212L45XC	CMS	12	12	45n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76a	DIP68	
44♦	IDT7213L45C	CMS	12	12	45n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77	DIP64a	
45♦	IDT7213L45F	CMS	12	12	45n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77a	FP137	
46♦	IDT7213L45L	CMS	12	12	45n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77b	LC19d	
47▼	IDT7213L45P	CMS	12	12	45n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77a	DIP64a	
48▼	IDT7213L45XC	CMS	12	12	45n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77a	DIP68	
49▼	LMS12GC50	CMS	12	12	50n	P	TS	2SC	2.0	0.8	4m	0.5		5.0		0	7	X00-102	LC19e	
50▼	LMS12GMB50	CMS	12	12	50n	P	TS	2SC	2.0	0.8	4m	0.5		5.0		5	C	X00-102	LC19e	
51▼	LMS12JC50	CMS	12	12	50n	P	TS	2SC	2.0	0.8	4m	0.5		5.0		0	7	X00-102	None	☑
52♦	MPY112KJ4C	BIP	12	12	50n	P		2SC, USM	2.4	0.5	4mΔ	0.5	0	7.0		5	C	X00-44	DIP48a	
53♦	MPY112KJ4G(A)	BIP	12	12	50n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-44	DIP48a	
54▼	IDT7209L55CB	CMS	12	12	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-23	DIP64a	
55▼	IDT7209L55LB	CMS	12	12	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-23	LC19d	
56▼	IDT7209L55XCB	CMS	12	12	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-23	DIP68	
57♦	IDT7212L55CB	CMS	12	12	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77	DIP64a	
58♦	IDT7212L55FB	CMS	12	12	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77a	FP137	
59♦	IDT7212L55LB	CMS	12	12	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77b	LC19d	
60▼	IDT7212L55XCB	CMS	12	12	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77a	DIP68	
61♦	IDT7213L55CB	CMS	12	12	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77	DIP64a	
62♦	IDT7213L55FB	CMS	12	12	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77a	FP137	
63♦	IDT7213L55LB	CMS	12	12	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77b	LC19d	
64▼	IDT7213L55XCB	CMS	12	12	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77a	DIP68	
65♦	ADSP1012AKD(A)	CMS	12	12	65n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	X00-64	DIP64a	
66♦	ADSP1012AKG(A)	CMS	12	12	65n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	X00-64b	PG68A	
67♦	ADSP1012AKN(A)	CMS	12	12	65n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	X00-64	DIP64a	
68♦	IDT7209L65C	CMS	12	12	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP64a	
69♦	IDT7209L65L	CMS	12	12	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23b	LC19d	
70▼	IDT7209L65P	CMS	12	12	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP64a	
71▼	IDT7209L65XC	CMS	12	12	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP68	
72♦	LMA1009DC1	CMS	12	12	65n	P	TS	2SC,PDA	2.0	0.8	4m	0.5	0	5.0	100m†	0	7	X00-93	DIP64	☑
73	LMA1009GC1	CMS	12	12	65n	P	TS	2SC,PDA	2.0	0.8	4m	0.5	0	5.0	100m†	0	7	X00-93	PG68A	
74	LMA1009KC1	CMS	12	12	65n	P	TS	2SC;PDA	2.0	0.8	4m	0.5	0	5.0	100m†	0	7	X00-93	LC23	
75♦	LMA1009PC1	CMS	12	12	65n	P	TS	2SC,PDA	2.0	0.8	4m	0.5	0	5.0	100m†	0	7	X00-93	DIP64	☑
76▼	LMS12GC65	CMS	12	12	65n	P	TS	2SC	2.0	0.8	4m	0.5		5.0		0	7	X00-102	LC19e	
77▼	LMS12GMB65	CMS	12	12	65n	P	TS	2SC	2.0	0.8	4m	0.5		5.0		5	C	X00-102	LC19e	
78▼	LMS12JC65	CMS	12	12	65n	P	TS	2SC	2.0	0.8	4m	0.5		5.0		0	7	X00-102	None	☑
79▼	LMU12DC1	CMS	12	12	65n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-64	DIP64a	
80▼	LMU12GC1	CMS	12	12	65n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-64a	PG68a	
81▼	LMU12JC1	CMS	12	12	65n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-64a	LC53	
82▼	LMU12KC1	CMS	12	12	65n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-64a	LC23	
83▼	LMU12PC1	CMS	12	12	65n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-64	DIP64a	
84♦	LMU13DC1	CMS	12	12	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.5		5.0	0.1 †	0	7	X00-99	DIP64	☑
85▼	LMU13GC1	CMS	12	12	65n	P	TS	2SC, USM						5.0		0	7	X00-64a	PG68a	
86▼	LMU13JC1	CMS	12	12	65n	P	TS	2SC, USM						5.0		0	7	X00-64a	LC53	
87▼	LMU13KC1	CMS	12	12	65n	P	TS	2SC, USM						5.0		0	7	X00-64a	LC23	
88▼	LMU13PC1	CMS	12	12	65n	P	TS	2SC, USM						5.0		0	7	X00-64	DIP64a	
89♦	ADSP1009AKD	CMS	12	12	70n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	375m	0	7	X00-23	DIP64a	
90♦	ADSP1009AKG	CMS	12	12	70n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	375m	0	7	X00-67a	PG68A	
91♦	IDT7212L70C	CMS	12	12	70n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76	DIP64a	
92♦	IDT7212L70F	CMS	12	12	70n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76a	FP137	
93♦	IDT7212L70L	CMS	12	12	70n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76b	LC19d	
94▼	IDT7212L70P	CMS	12	12	70n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76a	DIP64a	
95▼	IDT7212L70XC	CMS	12	12	70n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76a	DIP68	
96♦	IDT7213L70C	CMS	12	12	70n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77	DIP64a	
97♦	IDT7213L70F	CMS	12	12	70n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77a	FP137	
98♦	IDT7213L70L	CMS	12	12	70n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77b	LC19d	
99▼	IDT7213L70P	CMS	12	12	70n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77a	DIP64a	
100▼	IDT7213L70XC	CMS	12	12	70n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77a	DIP68	
101♦	IDT7209L75CB	CMS	12	12	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6	5	C	X00-23	DIP64a	
102♦	IDT7209L75LB	CMS	12	12	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-23b	LC19d	
103▼	IDT7209L75XCB	CMS	12	12	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-23	DIP68	
104▼	LMU12DM1	CMS	12	12	75n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-64	DIP64a	
105▼	LMU12GM1	CMS	12	12	75n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-64a	PG68a	
106▼	LMU12KM1	CMS	12	12	75n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-64a	LC23	
107▼	LMU13DM1	CMS	12	12	75n	P	TS	2SC, USM						5.0		5	C	X00-64	DIP64a	
108▼	LMU13GM1	CMS	12	12	75n	P	TS	2SC, USM						5.0		5	C	X00-64a	PG68a	
109▼	LMU13KM1	CMS	12	12	75n	P	TS	2SC, USM						5.0		5	C	X00-64a	LC23	
110♦	ADSP1012AJD(A)	CMS	12	12	80n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	X00-64	DIP64a	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

16. MULTIPLIERS - 12-Bit (Cont'd)

IN ORDER OF: (1) BITS HI (2) BITS LO (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	BIT ARRAY HIxLO [1] HI	[2] LO	[3] tpd MAX (s)	MODE	OUTPUT CONFIG T	F	ARITHMETIC CAPABILITY	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1♦	ADSP1012AJG(A)	CMS	12	12	80n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	X00-64b	PG68A	
2♦	ADSP1012AJN(A)	CMS	12	12	80n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	X00-64	DIP64a	
3♦	ADSP1012ATD(A)	CMS	12	12	80n	P	TS		2SC, USM	2.0	0.8	4.0m	0.6		5.0	200m†	5	C	X00-64	DIP64a	
4♦	ADSP1012ATG(A)	CMS	12	12	80n	P	TS		2SC, USM	2.0	0.8	4.0m	0.6		5.0	200m†	5	C	X00-64b	PG68A	
5▼	LMU12DC	CMS	12	12	80n	P	TS		2SC, USM	2.0	0.8				5.0		0	7	X00-64	DIP64a	
6▼	LMU12JC	CMS	12	12	80n	P	TS		2SC, USM	2.0	0.8				5.0		0	7	X00-64a	LC53	
7▼	LMU12KC	CMS	12	12	80n	P	TS		2SC, USM	2.0	0.8				5.0		0	7	X00-64a	LC23	
8▼	LMU12PC	CMS	12	12	80n	P	TS		2SC, USM	2.0	0.8				5.0		0	7	X00-64	DIP64a	
9▼	LMU13DC	CMS	12	12	80n	P	TS		2SC, USM	2.0	0.8				5.0		0	7	X00-64	DIP64a	
10▼	LMU13GC	CMS	12	12	80n	P	TS		2SC, USM	2.0	0.8				5.0		0	7	X00-64a	PG68a	
11▼	LMU13JC	CMS	12	12	80n	P	TS		2SC, USM	2.0	0.8				5.0		0	7	X00-64a	LC53	
12▼	LMU13KC	CMS	12	12	80n	P	TS		2SC, USM	2.0	0.8				5.0		0	7	X00-64a	LC23	
13▼	LMU13PC	CMS	12	12	80n	P	TS		2SC, USM	2.0	0.8				5.0		0	7	X00-64	DIP64a	
14♦	ADSP1009AJD	CMS	12	12	85n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4		5.0	375m	0	7	X00-23	DIP64a	
15♦	ADSP1009AJG	CMS	12	12	85n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4		5.0	375m	0	7	X00-67a	PG68A	
16♦	ADSP1009AJN	CMS	12	12	85n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4		5.0	375m	0	7	X00-23	DIP64a	
17♦	ADSP1009ATD	CMS	12	12	85n	P	TS		2SC, USM	2.0	0.8	4.0m	0.6		5.0	375m	5	C	X00-23	DIP64a	
18♦	ADSP1009ATG(A)	CMS	12	12	85n	P	TS		2SC, USM	2.0	0.8	4.0m	0.6		5.0	375m	5	C	X00-67a	PG68A	
19♦	ADSP1012ASD(A)	CMS	12	12	90n	P	TS		2SC, USM	2.0	0.8	4.0m	0.6		5.0	200m†	5	C	X00-64	DIP64a	
20♦	ADSP1012ASG(A)	CMS	12	12	90n	P	TS		2SC, USM	2.0	0.8	4.0m	0.6		5.0	200m†	5	C	X00-64b	PG68A	
21♦	IDT7212L90CB	CMS	12	12	90n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-76	DIP64a	
22♦	IDT7212L90FB	CMS	12	12	90n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-76a	FP137	
23♦	IDT7212L90LB	CMS	12	12	90n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-76b	LC19d	
24▼	IDT7212L90XCB	CMS	12	12	90n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-76a	DIP68	
25♦	IDT7213L90CB	CMS	12	12	90n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77	DIP64a	
26♦	IDT7213L90FB	CMS	12	12	90n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77a	FP137	
27♦	IDT7213L90LB	CMS	12	12	90n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77b	LC19d	
28▼	IDT7213L90XCB	CMS	12	12	90n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77a	DIP68	
29♦	LMA1009DC(A)	CMS	12	12	90n	P	TS		2SC,PDA	2.0	0.8	4m	0.5	0	5.0	100m†	0	7	X00-93	DIP64	☑
30	LMA1009GC(A)	CMS	12	12	90n	P	TS		2SC,PDA	2.0	0.8	4m	0.5	0	5.0	100m†	0	7	X00-93	PG68A	
31	LMA1009KC(A)	CMS	12	12	90n	P	TS		2SC,PDA	2.0	0.8	4m	0.5	0	5.0	100m†	0	7	X00-93	LC23	
32♦	LMA1009PC(A)	CMS	12	12	90n	P	TS		2SC,PDA	2.0	0.8	4m	0.5	0	5.0	100m†	0	7	X00-93	DIP64	☑
33♦	LMA1009DM1	CMS	12	12	95n	P	TS		2SC;PDA	2.0	0.8	4m	0.5	0	5.0	100m†	5	C	X00-93	DIP64	☑
34	LMA1009GM1	CMS	12	12	95n	P	TS		2SC;PDA	2.0	0.8	4m	0.5	0	5.0	100m†	5	C	X00-93	PG68A	
35	LMA1009KM1	CMS	12	12	95n	P	TS		2SC;PDA	2.0	0.8	4m	0.5	0	5.0	100m†	5	C	X00-93	LC23	
36♦	LMA1009PM1	CMS	12	12	95n	P	TS		2SC;PDA	2.0	0.8	4m	0.5	0	5.0	100m†	5	C	X00-93	DIP64	☑
37♦	ADSP1009ASD	CMS	12	12	100n	P	TS		2SC, USM	2.0	0.8	4.0m	0.6		5.0	375m	5	C	X00-23	DIP64a	
38♦	ADSP1009ASG	CMS	12	12	100n	P	TS		2SC, USM	2.0	0.8	4.0m	0.6		5.0	375m	5	C	X00-67a	PG68A	
39♦	IDT7209L100C	CMS	12	12	100n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP64a	
40♦	IDT7209L100L	CMS	12	12	100n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23b	LC19d	
41▼	IDT7209L100P	CMS	12	12	100n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP64a	
42▼	IDT7209L100XC	CMS	12	12	100n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP68	
43▼	LMU12DM	CMS	12	12	100n	P	TS		2SC, USM	2.0	0.8				5.0		5	C	X00-64	DIP64a	
44▼	LMU12GM	CMS	12	12	100n	P	TS		2SC, USM	2.0	0.8				5.0		5	C	X00-64a	PG68a	
45▼	LMU12KM	CMS	12	12	100n	P	TS		2SC, USM	2.0	0.8				5.0		5	C	X00-64a	LC23	
46▼	LMU13DM	CMS	12	12	100n	P	TS		2SC, USM	2.0	0.8				5.0		5	C	X00-64	DIP64a	
47▼	LMU13GM	CMS	12	12	100n	P	TS		2SC, USM	2.0	0.8				5.0		5	C	X00-64a	PG68a	
48▼	LMU13KM	CMS	12	12	100n	P	TS		2SC, USM						5.0		5	C	X00-64a	LC23	
49♦	IDT7212L115C	CMS	12	12	115n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76	DIP64a	
50♦	IDT7212L115F	CMS	12	12	115n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76a	FP137	
51♦	IDT7212L115L	CMS	12	12	115n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76b	LC19d	
52▼	IDT7212L115P	CMS	12	12	115n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76a	DIP64a	
53▼	IDT7212L115XC	CMS	12	12	115n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-76a	DIP68	
54♦	IDT7213L115C	CMS	12	12	115n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77	DIP64a	
55♦	IDT7213L115F	CMS	12	12	115n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77a	FP137	
56♦	IDT7213L115L	CMS	12	12	115n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77b	LC19d	
57▼	IDT7213L115P	CMS	12	12	115n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77a	DIP64a	
58▼	IDT7213L115XC	CMS	12	12	115n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	0	7	X00-77a	DIP68	
59♦	LMA1009DM(A)	CMS	12	12	115n	P	TS		2SC,PDA	2.0	0.8	4m	0.5	0	5.0	100m†	5	C	X00-93	DIP64	☑
60	LMA1009GM(A)	CMS	12	12	115n	P	TS		2SC,PDA	2.0	0.8	4m	0.5	0	5.0	100m†	5	C	X00-93	PG68A	
61	LMA1009KM(A)	CMS	12	12	115n	P	TS		2SC,PDA	2.0	0.8	4m	0.5	0	5.0	100m†	5	C	X00-93	LC23	
62♦	LMA1009PM(A)	CMS	12	12	115n	P	TS		2SC,PDA	2.0	0.8	4m	0.5	0	5.0	100m†	5	C	X00-93	DIP64	☑
63♦	MPY012HJ1C	BIP	12	12	115n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-56a	DIP64a	
64♦	MPY012HJ1G	BIP	12	12	115n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-56a	DIP64a	
65♦	IDT7209L120CB	CMS	12	12	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-23	DIP64a	
66♦	IDT7209L120LB	CMS	12	12	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-23b	LC19d	
67▼	IDT7209L120XCB	CMS	12	12	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-23	DIP68	
68♦	IDT7209L135C	CMS	12	12	135n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP64a	
69♦	IDT7209L135L	CMS	12	12	135n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23b	LC19d	
70▼	IDT7209L135P	CMS	12	12	135n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP64a	
71▼	IDT7209L135XC	CMS	12	12	135n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-23	DIP68	
72♦	TDC1009J1C	BIP	12	12	135n	P	TS		2SC, USM	2.0	0.8	4.0m	.50	0	7.0	3.2	0	7	X00-23	DIP48a	
73♦	TDC1009J1G	BIP	12	12	135n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-23	DIP64a	
74	TMC2009C1C	CMS	12	12	135n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	X00-23a	LC22	
75	TMC2009C1G	CMS	12	12	135n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	X00-23a	LC22	
76♦	TMC2009J3C	CMS	12	12	135n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	X00-23	DIP64a	
77♦	TMC2009J3G	CMS	12	12	135n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	X00-23	DIP64a	
78	TMC2009L1C	CMS	12	12	135n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	X00-23b	FP163	
79	TMC2009L1G	CMS	12	12	135n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	X00-23b	FP163	
80♦	IDT7212L140CB	CMS	12	12	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-76	DIP64a	
81♦	IDT7212L140FB	CMS	12	12	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-76a	FP137	
82♦	IDT7212L140LB	CMS	12	12	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-76b	LC19d	
83▼	IDT7212L140XCB	CMS	12	12	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-76a	DIP68	
84♦	IDT7213L140CB	CMS	12	12	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77	DIP64a	
85♦	IDT7213L140FB	CMS	12	12	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77a	FP137	
86♦	IDT7213L140LB	CMS	12	12	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77b	LC19d	
87▼	IDT7213L140XCB	CMS	12	12	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.4 †	5	C	X00-77a	DIP68	
88	MPY012HC1A	BIP	12	12	140n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-56b	LC22	
89	MPY012HF1A	BIP	12	12	140n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-56C	FP164	
90♦	MPY012HJ1A	BIP	12	12	140n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-56a	DIP64a	
91♦	MPY012HJ1F	BIP	12	12	140n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-56a	DIP64a	
92♦	IDT7209L170CB	CMS	12	12	170n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-23	DIP64a	
93♦	IDT7209L170LB	CMS	12	12	170n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-23b	LC19d	
94▼	IDT7209L170XCB	CMS	12	12	170n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-23	DIP68	
95	TDC1009C1A	BIP	12	12	170n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-23b	LC22	
96	TDC1009C1F	BIP	12	12	170n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-23b	LC22	
97♦	TDC1009J1A	BIP	12	12	170n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-23	DIP64a	
98♦	TDC1009J1F	BIP	12	12	170n	P	TS		2SC, USM	2.0	0.8	4.0m	.50	0	7.0	3.8	5	C	X00-23	DIP48a	
99	TMC2009C1A	CMS	12	12	170n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		5	C	X00-23a	LC22	
100	TMC2009C1F	CMS	12	12	170n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		5	C	X00-23a	LC22	
101♦	TMC2009J3A	CMS	12	12	170n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		5	C	X00-23	DIP64a	
102♦	TMC2009J3F	CMS	12	12	170n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		5	C	X00-23	DIP64a	
103	TMC2009L1A	CMS	12	12	170n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		5	C	X00-23b	FP163	
104	TMC2009L1F	CMS	12	12	170n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		5	C	X00-23b	FP163	
105	ADSP1012TG	CMS	12	12	195n	P	TS		2SC, USM	2.2	0.8	4.0m	0.6	0.3	7.0	150m†	5	C	X00-64b	PG68a	

MULTIPLIER, 16-BIT

109	PDSP16112	CMS	16	12	50n	P			2SC	2.0	0.8	8.0m	0.4	0.5	7.0	500m			X00-105	PG109	
110▼	ADSP1102JD(A)	CMS	16	16		P/S	TS		2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64	☑

16. MULTIPLIERS - 16-Bit (Cont'd)

IN ORDER OF: (1) BITS HI (2) BITS LO (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	BIT ARRAY HIxLO [1] HI	[2] LO	[3] tpd MAX (s)	MODE	OUTPUT CONFIGURATION	ARITHMETIC CAPABILITY	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	ADSP1102JG(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	PG68 ☑
2▼	ADSP1102JN(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
3▼	ADSP1102KD(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
4▼	ADSP1102KG(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	PG68 ☑
5▼	ADSP1102KN(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
6▼	ADSP1102SD(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	DIP64 ☑
7▼	ADSP1102SG(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	PG68 ☑
8▼	ADSP1102TD(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	DIP64 ☑
9▼	ADSP1102TG(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	PG68 ☑
10▼	ADSP1103JD(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
11▼	ADSP1103JG(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	PG68 ☑
12▼	ADSP1103JN(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
13▼	ADSP1103KD(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
14▼	ADSP1103KG(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	PG68 ☑
15▼	ADSP1103KN(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
16▼	ADSP1103SD(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	DIP64 ☑
17▼	ADSP1103SG(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	PG68 ☑
18▼	ADSP1103TD(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	DIP64 ☑
19▼	ADSP1103TG(A)	CMS	16	16		P/S	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	PG68 ☑
20▼	ADSP1516JD(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
21▼	ADSP1516JG(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	PG68 ☑
22▼	ADSP1516JN(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
23▼	ADSP1516KD(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
24▼	ADSP1516KG(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	PG68 ☑
25▼	ADSP1516KN(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
26▼	ADSP1516SD(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	DIP64 ☑
27▼	ADSP1516SG(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	PG68 ☑
28▼	ADSP1516TD(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	DIP64 ☑
29▼	ADSP1516TG(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	PG68 ☑
30▼	ADSP1517JD(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
31▼	ADSP1517JG(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	PG68 ☑
32▼	ADSP1517JN(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
33▼	ADSP1517KD(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
34▼	ADSP1517KG(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	PG68 ☑
35▼	ADSP1517KN(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	0	7	X00-25	DIP64 ☑
36▼	ADSP1517SD(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	DIP64 ☑
37▼	ADSP1517SG(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	PG68 ☑
38▼	ADSP1517TD(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	DIP64 ☑
39▼	ADSP1517TG(A)	CMS	16	16		P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	250m†	5	C	X00-25	PG68 ☑
40♦	AM29L516PC	ECL	16	16		P	TS	2SC, USM						5.0		0	7	X00-65	DIP64a
41♦	AM29516LMB	BIP	16	16		P	TS	2SC, USM						5.0		5	C	X00-65	LC68 ☑
42▼	B2011(A)	TTL	16	16		P		2SC,USM	2.0	0.8	4.0m	0.4		5.0		0	7	X00-30	PG110
43▼	B3011(A)	ECL	16	16		P		2SC,USM	-1.1	-1.4		-1.6	5.2			0	7	X00-31	PG110
44▼	L64010(A)	CMS	16	16		P		2SC,USM										X00-53	DIP64 ☑
45▼	L64011(A)	CMS	16	16		P		2SC,USM										X00-53	DIP64 ☑
46▼	L64012(A)	CMS	16	16		P		2SC,USM										X00-21b	PG68 ☑
47▼	L64016D(A)	CMS	16	16		P		2SC,USM										X00-54	DIP64 ☑
48▼	L64016G(A)	CMS	16	16		P		2SC,USM										X00-113	PG68 ☑
49▼	L64016J(A)	CMS	16	16		P		2SC,USM										X00-113	LC30 ☑
50▼	L64016L(A)	CMS	16	16		P		2SC,USM										X00-113	LC15 ☑
51▼	L64017D(A)	CMS	16	16		P		2SC,USM										X00-100	DIP64 ☑
52▼	L64017G(A)	CMS	16	16		P		2SC,USM										X00-113	PG68 ☑
53▼	L64017J(A)	CMS	16	16		P		2SC,USM										X00-113	LC30 ☑
54▼	L64017L(A)	CMS	16	16		P		2SC,USM										X00-113	LC15 ☑
55▼	LMU216JC45	CMS	16	16		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-74b	LC20d
56▼	LMU216JC55	CMS	16	16		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-74b	LC20d
57▼	LMU216JC65	CMS	16	16		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-74b	LC20d
58▼	LMU216KC45	CMS	16	16		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-74b	LC19d
59▼	LMU216KC55	CMS	16	16		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-74b	LC19d
60▼	LMU216KC65	CMS	16	16		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-74b	LC19d
61▼	LMU217JC45	CMS	16	16		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-75b	LC20d
62▼	LMU217JC55	CMS	16	16		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-75b	LC20d
63▼	LMU217JC65	CMS	16	16		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-75b	LC20d
64▼	LMU217KC45	CMS	16	16		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-75b	LC19d
65▼	LMU217KC55	CMS	16	16		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-75b	LC19d
66▼	LMU217KC65	CMS	16	16		P	TS	2SC, USM	2.0	0.8	8.0m	0.5	0.0	5.0		0	7	X00-75b	LC19d
67♦	NCR45CM16C	CMS	16	16		P	TS	2SC	2.0	0.8	2.1m	0.4		5.0		0	7	X00-95	DIP24
68♦	NCR45CM16P	CMS	16	16		P	TS	2SC	2.0	0.8	2.1m	0.4		5.0		0	7	X00-95	DIP24
69♦	SN54S516T24	SCH	16	16		P		2SC, PDA	2.0	0.8	8m	0.5	0	7.0		5	C	74S516	DIP24a
70♦	WTL1010	TTL	16	16		P		USM	2.0	0.8			0	5.0	2.5			X00-21	DIP64 ☑
71♦	WTL1016	NCH	16	16		P		2SC, USM	2.0	0.8			0	5.0	2.5			X00-17a	DIP64 ☑
72	B3018	TTL	16	16	10n	P	TS	2SC, USM	2.0	0.8		4.0m	0	5.0	4.2			X00-104	PG108
73▼	LMA2010JC45	CMS	16	16	25n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-21b	LC20d
74▼	LMA2010JC55	CMS	16	16	25n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-21b	LC20d
75▼	LMA2010KC45	CMS	16	16	25n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-21b	LC22
76▼	LMA2010KC55	CMS	16	16	25n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-21b	LC22
77▼	LMA2043JC45	CMS	16	16	25n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-48a	LC20d
78▼	LMA2043JC55	CMS	16	16	25n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-48a	LC20d
79▼	LMA2043KC45	CMS	16	16	25n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-48a	LC22
80▼	LMA2043KC55	CMS	16	16	25n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-48a	LC22
81▼	LMA2010JC65	CMS	16	16	30n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-21b	LC20d
82▼	LMA2010KC65	CMS	16	16	30n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-21b	LC22
83▼	LMA2043JC65	CMS	16	16	30n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-48a	LC20d
84▼	LMA2043KC65	CMS	16	16	30n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-48a	LC22
85	B2018	TTL	16	16	34n	P	TS	2SC, USM	2.0	0.8		4.0m	0	5.0	3.5			X00-103	PG108
86♦	67C7016-35J	CMS	16	16	35n	P	TS	2SC USM						5.0		0	7	X00-112	DIP64 ☑
87♦	67C7016-35N	CMS	16	16	35n	P	TS	2SC USM						5.0		0	7	X00-112	DIP64 ☑
88♦	67C7016-35NL	CMS	16	16	35n	P	TS	2SC USM						5.0		0	7	X00-112	LC68 ☑
89♦	67C7017-35J	CMS	16	16	35n	P	TS	2SC USM						5.0		0	7	X00-113	DIP64 ☑
90♦	67C7017-35N	CMS	16	16	35n	P	TS	2SC USM						5.0		0	7	X00-113	DIP64 ☑
91♦	67C7017-35NL	CMS	16	16	35n	P	TS	2SC USM						5.0		0	7	X00-113	LC68 ☑
92▼	IDT7210L35C	CMS	16	16	35n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP64a
93▼	IDT7210L35F	CMS	16	16	35n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	FP137
94▼	IDT7210L35J	CMS	16	16	35n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC20d
95▼	IDT7210L35L	CMS	16	16	35n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC19d
96▼	IDT7210L35P	CMS	16	16	35n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP64a
97▼	IDT7210L35XC	CMS	16	16	35n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP68
98▼	IDT7210L35XL	CMS	16	16	35n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC19d
99▼	IDT7216L35C	CMS	16	16	35n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP64a
100▼	IDT7216L35F	CMS	16	16	35n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	FP137
101▼	IDT7216L35G	CMS	16	16	35n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	PG68a
102▼	IDT7216L35J	CMS	16	16	35n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC20d
103▼	IDT7216L35L	CMS	16	16	35n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC19d
104▼	IDT7216L35P	CMS	16	16	35n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP64a
105▼	IDT7216L35XC	CMS	16	16	35n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP68
106▼	IDT7216L35XL	CMS	16	16	35n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC19d
107▼	IDT7217L35C	CMS	16	16	35n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP64a
108▼	IDT7217L35F	CMS	16	16	35n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	FP137
109▼	IDT7217L35G	CMS	16	16	35n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	PG68a
110▼	IDT7217L35J	CMS	16	16	35n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC20d

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

16. MULTIPLIERS - 16-Bit (Cont'd)

IN ORDER OF: (1) BITS HI (2) BITS LO
(3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	BIT ARRAY HIxLO 1 HI	2 LO	3 tpd MAX (s)	MODE	OUTPUT TO PINS T	F	ARITHMETIC CAPABILITY	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1▼	IDT7217L35L	CMS	16	16	35n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC19d	
2▼	IDT7217L35P	CMS	16	16	35n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP64a	
3▼	IDT7217L35XC	CMS	16	16	35n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP68	
4▼	IDT7217L35XL	CMS	16	16	35n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC19d	
5▼	IDT7243L35C	CMS	16	16	35n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP64a	
6▼	IDT7243L35F	CMS	16	16	35n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	FP137	
7▼	IDT7243L35J	CMS	16	16	35n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC20d	
8▼	IDT7243L35L	CMS	16	16	35n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC19d	
9▼	IDT7243L35P	CMS	16	16	35n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP64a	
10▼	IDT7243L35XC	CMS	16	16	35n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP68	
11▼	IDT7243L35XL	CMS	16	16	35n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC19d	
12▼	LMA2010JC	CMS	16	16	35n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-21b	LC20d	
13▼	LMA2010KC	CMS	16	16	35n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-21b	LC22	
14▼	LMA2043JC	CMS	16	16	35n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5		5.0		0	7	X00-48a	LC20d	
15▼	LMA2043KC	CMS	16	16	35n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	5.0		0	7	X00-48a	LC22	
16	WTL2516CGCD	CMS	16	16	38n	P	TS		2SC, USM	2.0	0.8	4.0	0.4		5.0	200m†	0	7	25WTX16	PG68C	
17♦	WTL2516CJC	CMS	16	16	38n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	25WT16	DIP64a	
18	WTL2516CLCA	CMS	16	16	38n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	25WTZ16	LC57	
19	WTL2516CLCC	CMS	16	16	38n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	25WTY16	LC68	☑
20	WTL2517CGCD	CMS	16	16	38n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4		5.0		0	7	25WTZ17	PG68C	
21♦	WTL2517CJC	CMS	16	16	38n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4		5.0		0	7	25WT17	DIP64a	
22▼	IDT7210L40CB	CMS	16	16	40n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	DIP64a	
23▼	IDT7210L40FB	CMS	16	16	40n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	FP137	
24▼	IDT7210L40LB	CMS	16	16	40n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	LC19d	
25▼	IDT7210L40XCB	CMS	16	16	40n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	DIP68	
26▼	IDT7210L40XLB	CMS	16	16	40n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	LC19d	
27▼	IDT7216L40CB	CMS	16	16	40n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	DIP64a	
28▼	IDT7216L40FB	CMS	16	16	40n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	FP137	
29▼	IDT7216L40GB	CMS	16	16	40n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	PG68a	
30▼	IDT7216L40LB	CMS	16	16	40n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	LC19d	
31▼	IDT7216L40XCB	CMS	16	16	40n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	DIP68	
32▼	IDT7216L40XLB	CMS	16	16	40n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	LC19d	
33▼	IDT7217L40CB	CMS	16	16	40n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	DIP64a	
34▼	IDT7217L40FB	CMS	16	16	40n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	FP137	
35▼	IDT7217L40GB	CMS	16	16	40n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	PG68a	
36▼	IDT7217L40LB	CMS	16	16	40n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	LC19d	
37▼	IDT7217L40XCB	CMS	16	16	40n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	DIP68	
38▼	IDT7217L40XLB	CMS	16	16	40n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	LC19d	
39▼	IDT7243L40CB	CMS	16	16	40n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	DIP64a	
40▼	IDT7243L40FB	CMS	16	16	40n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	FP137	
41▼	IDT7243L40LB	CMS	16	16	40n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	LC19d	
42▼	IDT7243L40XCB	CMS	16	16	40n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	DIP68	
43▼	IDT7243L40XLB	CMS	16	16	40n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	LC19d	
44♦	67C7016-45J	CMS	16	16	45n	P	TS		2SC USM						5.0		0	7	X00-112	DIP64	☑
45♦	67C7016-45N	CMS	16	16	45n	P	TS		2SC USM						5.0		0	7	X00-112	DIP64	☑
46♦	67C7016-45NL	CMS	16	16	45n	P	TS		2SC USM						5.0		0	7	X00-112	LC68	☑
47♦	67C7017-45J	CMS	16	16	45n	P	TS		2SC USM						5.0		0	7	X00-113	DIP64	☑
48	67C7017-45L	CMS	16	16	45n	P	TS		2SC USM						5.0				X00-13	LC68	
49♦	67C7017-45N	CMS	16	16	45n	P	TS		2SC USM						5.0		0	7	X00-113	DIP64	☑
50♦	67C7017-45NL	CMS	16	16	45n	P	TS		2SC USM						5.0		0	7	X00-113	LC68	☑
51▼	CY7C510-45DC(A)	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21	DIP64a	
52▼	CY7C510-45JC(A)	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21b	LC30	
53▼	CY7C510-45LC	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21	LC13	
54▼	CY7C510-45PC(A)	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21	DIP64	
55▼	CY7C516-45DC(A)	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64a	
56▼	CY7C516-45JC(A)	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC30	
57▼	CY7C516-45LC(A)	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC22	
58▼	CY7C516-45PC(A)	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64	
59▼	CY7C517-45DC(A)	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64a	
60▼	CY7C517-45JC(A)	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC30	
61▼	CY7C517-45LC(A)	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC13	
62▼	CY7C517-45PC(A)	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64	
63▼	IDT7210L45C	CMS	16	16	45n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP64a	
64▼	IDT7210L45F	CMS	16	16	45n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	FP137	
65▼	IDT7210L45J	CMS	16	16	45n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC20d	
66▼	IDT7210L45L	CMS	16	16	45n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC19d	
67▼	IDT7210L45P	CMS	16	16	45n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP64a	
68▼	IDT7210L45XC	CMS	16	16	45n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP68	
69▼	IDT7210L45XL	CMS	16	16	45n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC19d	
70▼	IDT7216L45C	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP64a	
71▼	IDT7216L45F	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	FP137	
72▼	IDT7216L45G	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	PG68a	
73▼	IDT7216L45J	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC20d	
74▼	IDT7216L45L	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC19d	
75▼	IDT7216L45P	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP64a	
76▼	IDT7216L45XC	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP68	
77▼	IDT7216L45XL	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC19d	
78▼	IDT7217L45C	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP64a	
79▼	IDT7217L45F	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	FP137	
80▼	IDT7217L45G	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	PG68a	
81▼	IDT7217L45J	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC20d	
82▼	IDT7217L45L	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC19d	
83▼	IDT7217L45P	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP64a	
84▼	IDT7217L45XC	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP68	
85▼	IDT7217L45XL	CMS	16	16	45n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC19d	
86▼	IDT7243L45C	CMS	16	16	45n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP64a	
87▼	IDT7243L45F	CMS	16	16	45n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	FP137	
88▼	IDT7243L45J	CMS	16	16	45n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC20d	
89▼	IDT7243L45L	CMS	16	16	45n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC19d	
90▼	IDT7243L45P	CMS	16	16	45n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP64a	
91▼	IDT7243L45XC	CMS	16	16	45n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP68	
92▼	IDT7243L45XL	CMS	16	16	45n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC19d	
93▼	IM29C510CD64(A)	CMS	16	16	45n	P	TS		2SC, USM					0.0	5.0		0	7	X00-63	DIP64a	
94▼	IM29C510CN68(A)	CMS	16	16	45n	P	TS		2SC, USM					0.0	5.0		0	7	X00-63a	LC20d	
95▼	IM29C510MD64(A)	CMS	16	16	45n	P	TS		2SC, USM					0.0	5.0		5	C	X00-63	DIP64a	
96♦	L1010L45C	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.5		5.0	550m	0	7	X00-21	DIP64a	
97♦	L1010L45CC	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.5		5.0	550m	5	C	X00-21	DIP64a	
98	L1010L45L	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.5		5.0	550m	0	7	X00-21b	LC23	
99	L1010L45LC	CMS	16	16	45n	P	TS		2SC,USM	2.0	0.8	4.0m	0.5		5.0	550m	5	C	X00-21b	LC23	
100▼	LMA1010DC45	CMS	16	16	45n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	DIP64	Ø
101▼	LMA1010GC45	CMS	16	16	45n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	PG68A	
102▼	LMA1010JC45	CMS	16	16	45n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	LC53	
103▼	LMA1010KC45	CMS	16	16	45n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	LC23	
104▼	LMA1010PC45	CMS	16	16	45n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	DIP64	Ø
105▼	LMA1043DC45	CMS	16	16	45n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	DIP64	Ø
106▼	LMA1043GC45	CMS	16	16	45n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	PG68A	
107▼	LMA1043JC45	CMS	16	16	45n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	LC53	
108▼	LMA1043KC45	CMS	16	16	45n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	LC23	
109▼	LMA1043PC45	CMS	16	16	45n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	DIP64	Ø
110▼	LMU16DC45	CMS	16	16	45n	P	TS		2SC, USM	2.0	0.8	8m	0.5		5.0	125m	0	7	X00-100	DIP64a	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

16. MULTIPLIERS - 16-Bit (Cont'd)

IN ORDER OF: (1) BITS HI (2) BITS LO (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	BIT ARRAY HIxLO [1] HI	[2] LO	[3] tpd MAX (s)	MODE	OUTPUT FUNCTION	ARITHMETIC CAPABILITY	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	LMU16GC45	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65c	PG68a
2▼	LMU16JC45	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65b	LC53
3▼	LMU16KC45	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65b	LC23
4▼	LMU16PC45	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-100	DIP64a
5▼	LMU17DC45	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-101	DIP64a
6▼	LMU17GC45	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65c	PG68a
7▼	LMU17KC45	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65b	LC23
8▼	LMU17PC45	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-101	DIP64a
9♦	MP1010CD	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	X00-84b	DIP64a
10♦	MP1010CL	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	X00-84a	LC22
11♦	MPY016KJ1C(A)	BIP	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-49	DIP64a
12♦	MPY016KJ1C1(A)	BIP	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-49	DIP64a
13♦	MPY016KJ1G(A)	BIP	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-49	DIP64a
14♦	MPY016KJ1G1(A)	BIP	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-49	DIP64a
15▼	THCT1010-100JD	CMS	16	16	45n	P	TS	PDA	2.0	0.8	4.0m	0.37	0.5	7.0	150m	0	7	X00-111	DIP64a
16	WTL2516BGCD	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0	0.4		5.0	200m†	0	7	25WTX16	PG68C
17♦	WTL2516BJC	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	25WT16	DIP64a
18	WTL2516BLCA	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0	0.4		5.0	200m†	0	7	25WTZ16	LC57
19	WTL2516BLCC	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	25WTY16	LC68 ☑
20	WTL2516CGMD	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0	0.4		5.0	200m†	5	C	25WTX16	PG68C
21♦	WTL2516CJE	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WT16	DIP64a
22♦	WTL2516CJM	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WT16	DIP64a
23	WTL2516CLMA	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WTZ16	LC57
24	WTL2516CLMC	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WTY16	LC68 ☑
25	WTL2517BGCD	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		0	7	25WTZ17	PG68C
26♦	WTL2517BJC	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		0	7	25WT17	DIP64a
27	WTL2517CGMD	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		5	C	25WTZ17	PG68C
28♦	WTL2517CJE	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		5	C	25WT17	DIP64a
29♦	WTL2517CJM	CMS	16	16	45n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		5	C	25WT17	DIP64a
30♦	MPY016KJ1A(A)	BIP	16	16	50n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-49	DIP64a
31♦	MPY016KJ1A1(A)	BIP	16	16	50n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-49	DIP64a
32♦	MPY016KJ1F(A)	BIP	16	16	50n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-49	DIP64a
33♦	MPY016KJ1F1(A)	BIP	16	16	50n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-49	DIP64a
34♦	MPY016KJ1N(A)	BIP	16	16	50n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-49	DIP64a
35♦	67C7016-55J	CMS	16	16	55n	P	TS	2SC USM						5.0		0	7	X00-112	DIP64 ☑
36♦	67C7016-55N	CMS	16	16	55n	P	TS	2SC USM						5.0		0	7	X00-112	DIP64 ☑
37♦	67C7016-55NL	CMS	16	16	55n	P	TS	2SC USM						5.0		0	7	X00-112	LC68 ☑
38♦	67C7017-55J	CMS	16	16	55n	P	TS	2SC USM						5.0		0	7	X00-113	DIP64 ☑
39♦	67C7017-55N	CMS	16	16	55n	P	TS	2SC USM						5.0		0	7	X00-113	DIP64 ☑
40♦	67C7017-55NL	CMS	16	16	55n	P	TS	2SC USM						5.0		0	7	X00-113	LC68 ☑
41▼	CY7C510-55DC(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21	DIP64a
42▼	CY7C510-55DMB(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-21	DIP64a
43▼	CY7C510-55JC(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21b	LC30
44▼	CY7C510-55LC(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21b	LC13
45▼	CY7C510-55LMB	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-21b	LC13
46▼	CY7C510-55PC(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21	DIP64
47▼	CY7C516-55DC(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64a
48▼	CY7C516-55JC(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC30
49▼	CY7C516-55LC(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC13
50▼	CY7C516-55LMB(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-74b	LC13
51▼	CY7C516-55PC(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64
52▼	CY7C517-55DC(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64a
53▼	CY7C517-55DMB(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-74	DIP64a
54▼	CY7C517-55JC(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC30
55▼	CY7C517-55LC(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC13
56▼	CY7C517-55LMB(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-74b	LC13
57▼	CY7C517-55PC(A)	CMS	16	16	55n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64
58▼	IDT7210L55C	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP64a
59▼	IDT7210L55CB	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	DIP64a
60▼	IDT7210L55F	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	FP137
61▼	IDT7210L55FB	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	FP137
62▼	IDT7210L55J	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC20d
63▼	IDT7210L55L	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC19d
64▼	IDT7210L55LB	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	LC19d
65▼	IDT7210L55P	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP64a
66▼	IDT7210L55XC	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP68
67▼	IDT7210L55XCB	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	DIP68
68▼	IDT7210L55XL	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC19d
69▼	IDT7210L55XLB	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	LC19d
70▼	IDT7216L55C	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP64a
71▼	IDT7216L55CB	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	DIP64a
72▼	IDT7216L55F	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	FP137
73▼	IDT7216L55FB	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	FP137
74▼	IDT7216L55G	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	PG68a
75▼	IDT7216L55GB	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	PG68a
76▼	IDT7216L55J	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC20d
77▼	IDT7216L55L	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC19d
78▼	IDT7216L55LB	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	LC19d
79▼	IDT7216L55P	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP64a
80▼	IDT7216L55XC	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP68
81▼	IDT7216L55XCB	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	DIP68
82▼	IDT7216L55XL	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC19d
83▼	IDT7216L55XLB	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	LC19d
84▼	IDT7217L55C	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP64a
85▼	IDT7217L55CB	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	DIP64a
86▼	IDT7217L55F	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	FP137
87▼	IDT7217L55FB	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	FP137
88▼	IDT7217L55G	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	PG68a
89▼	IDT7217L55GB	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	PG68a
90▼	IDT7217L55J	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC20d
91▼	IDT7217L55L	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC19d
92▼	IDT7217L55LB	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	LC19d
93▼	IDT7217L55P	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP64a
94▼	IDT7217L55XC	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP68
95▼	IDT7217L55XCB	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	DIP68
96▼	IDT7217L55XL	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC19d
97▼	IDT7217L55XLB	CMS	16	16	55n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	LC19d
98▼	IDT7243L55C	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP64a
99▼	IDT7243L55CB	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	DIP64a
100▼	IDT7243L55F	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	FP137
101▼	IDT7243L55FB	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	FP137
102▼	IDT7243L55J	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC20d
103▼	IDT7243L55L	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC19d
104▼	IDT7243L55LB	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	LC19d
105▼	IDT7243L55P	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP64a
106▼	IDT7243L55XC	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP68
107▼	IDT7243L55XCB	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	DIP68
108▼	IDT7243L55XL	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC19d
109▼	IDT7243L55XLB	CMS	16	16	55n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	LC19d
110▼	LMA1010DC55	CMS	16	16	55n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	DIP64 Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

16. MULTIPLIERS - 16-Bit (Cont'd)

IN ORDER OF: (1) BITS HI (2) BITS LO
(3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	BIT ARRAY HIxLO [1] HI	[2] LO	[3] tpd MAX (s)	MODE	OUTPUT TYPE	ARITHMETIC CAPABILITY	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	LMA1010DMB55	CMS	16	16	55n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94a	DIP64 Ø
2▼	LMA1010GC55	CMS	16	16	55n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	PG68A
3▼	LMA1010GMB55	CMS	16	16	55n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94a	PG68A
4▼	LMA1010JC55	CMS	16	16	55n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	LC53
5▼	LMA1010KC55	CMS	16	16	55n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	LC23
6▼	LMA1010PC55	CMS	16	16	55n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	DIP64 Ø
7▼	LMA1043DC55	CMS	16	16	55n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	DIP64 Ø
8▼	LMA1043DMB55	CMS	16	16	55n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94	DIP64 Ø
9▼	LMA1043GC55	CMS	16	16	55n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	PG68A
10▼	LMA1043GMB55	CMS	16	16	55n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94	PG68A
11▼	LMA1043JC55	CMS	16	16	55n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	LC53
12▼	LMA1043KC55	CMS	16	16	55n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	LC23
13▼	LMA1043PC55	CMS	16	16	55n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	DIP64 Ø
14▼	LMU16DC55	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0		0	7	X00-65	DIP64a
15▼	LMU16DMB55	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	5	C	X00-100	DIP64a
16▼	LMU16GC55	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65c	PG68a
17▼	LMU16GMB55	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	5	C	X00-65c	PG68a
18▼	LMU16JC55	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65b	LC53
19▼	LMU16KC55	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65b	LC23
20▼	LMU16PC55	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-100	DIP64a
21▼	LMU17DC55	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-101	DIP64a
22▼	LMU17DMB55	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	5	C	X00-101	DIP64a
23▼	LMU17GC55	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65c	PG68a
24▼	LMU17GMB55	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0		5	C	X00-65c	PG68a
25▼	LMU17KC55	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65b	LC23
26▼	LMU17PC55	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-101	DIP64a
27♦	MP1010MD	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	4.0m	0.8	0.5	7.0		5	C	X00-84b	DIP64a
28♦	MP1010ML	CMS	16	16	55n	P	TS	2SC, USM	2.0	0.8	4.0m	0.8	0.5	7.0		5	C	X00-84a	LC22
29▼	THCT1010-140JDE	CMS	16	16	55n	P	TS	PDA	2.0	0.8	4.0m	0.37	0.5	7.0	150m	4	8	X00-111	DIP64a
30	WTL2516BGMD	CMS	16	16	60n	P	TS	2SC, USM	2.0	0.8	4.0	0.4		5.0	200m†	5	C	25WTX16	PG68C
31♦	WTL2516BJE	CMS	16	16	60n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WT16	DIP64a
32♦	WTL2516BJM	CMS	16	16	60n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WT16	DIP64a
33	WTL2516BLMA	CMS	16	16	60n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WTZ16	LC57
34	WTL2516BLMC	CMS	16	16	60n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WTY16	LC68 Ø
35	WTL2517BGMD	CMS	16	16	60n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		5	C	25WTZ17	PG68C
36♦	WTL2517BJE	CMS	16	16	60n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		5	C	25WT17	DIP64a
37♦	WTL2517BJM	CMS	16	16	60n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		5	C	25WT17	DIP64a
38♦	ADSP1110JN	CMS	16	16	65n	P		2SC, USM	2.0	0.8	4.0m	0.4	0.3	7.0	150m†	0	7	X00-86	DIP28a
39♦	ADSP1110KN	CMS	16	16	65n	P		2SC, USM	2.0	0.8	4.0m	0.4	0.3	7.0	150m†	0	7	X00-86	DIP28a
40▼	CY7C510-65DC(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21	DIP64a
41▼	CY7C510-65DMB(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-21	DIP64a
42▼	CY7C510-65JC(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21b	LC30
43▼	CY7C510-65LC(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21b	LC13
44▼	CY7C510-65LMB(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-21b	LC13
45▼	CY7C510-65PC(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21	DIP64
46▼	CY7C516-65DC(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64a
47▼	CY7C516-65DMB(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-74	DIP64a
48▼	CY7C516-65JC(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC30
49▼	CY7C516-65LC(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC13
50▼	CY7C516-65LMB(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-74b	LC13
51▼	CY7C516-65PC(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64
52▼	CY7C517-65DC(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64a
53▼	CY7C517-65DMB(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-74	DIP64a
54▼	CY7C517-65JC(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC30
55▼	CY7C517-65LC(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC13
56▼	CY7C517-65LMB(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-74b	LC13
57▼	CY7C517-65PC(A)	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64
58▼	IDT7210L65C	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP64a
59▼	IDT7210L65CB	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	DIP64a
60▼	IDT7210L65F	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	FP137
61▼	IDT7210L65FB	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	FP137
62▼	IDT7210L65J	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC20d
63▼	IDT7210L65L	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC19d
64▼	IDT7210L65LB	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	LC19d
65▼	IDT7210L65P	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP64a
66▼	IDT7210L65XC	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP68
67▼	IDT7210L65XCB	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	DIP68
68▼	IDT7210L65XL	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC19d
69▼	IDT7210L65XLB	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	LC19d
70♦	IDT7216L65C	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP64a
71▼	IDT7216L65CB	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	DIP64a
72♦	IDT7216L65F	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74a	FP137
73▼	IDT7216L65FB	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	FP137
74▼	IDT7216L65G	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	PG68a
75▼	IDT7216L65GB	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	PG68a
76▼	IDT7216L65J	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC20d
77♦	IDT7216L65L	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74b	LC19d
78▼	IDT7216L65LB	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	LC19d
79▼	IDT7216L65P	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP64a
80▼	IDT7216L65XC	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP68
81▼	IDT7216L65XCB	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	DIP68
82▼	IDT7216L65XL	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC19d
83▼	IDT7216L65XLB	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	LC19d
84♦	IDT7217L65C	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP64a
85▼	IDT7217L65CB	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	DIP64a
86♦	IDT7217L65F	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75a	FP137
87▼	IDT7217L65FB	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	FP137
88▼	IDT7217L65G	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	PG68a
89▼	IDT7217L65GB	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	PG68a
90▼	IDT7217L65J	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC20d
91♦	IDT7217L65L	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75b	LC19d
92▼	IDT7217L65LB	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	LC19d
93▼	IDT7217L65P	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP64a
94▼	IDT7217L65XC	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP68
95▼	IDT7217L65XCB	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	DIP68
96▼	IDT7217L65XL	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC19d
97▼	IDT7217L65XLB	CMS	16	16	65n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	LC19d
98▼	IDT7243L65C	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP64a
99▼	IDT7243L65CB	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	DIP64a
100▼	IDT7243L65F	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	FP137
101▼	IDT7243L65FB	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	FP137
102▼	IDT7243L65J	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC20d
103▼	IDT7243L65L	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC19d
104▼	IDT7243L65LB	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	LC19d
105▼	IDT7243L65P	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP64a
106▼	IDT7243L65XC	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP68
107▼	IDT7243L65XCB	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	DIP68
108▼	IDT7243L65XL	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC19d
109▼	IDT7243L65XLB	CMS	16	16	65n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	LC19d
110♦	L1010L65C	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.5		5.0	550m	0	7	X00-21	DIP64a

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

16. MULTIPLIERS - 16-Bit (Cont'd)

IN ORDER OF: (1) BITS HI (2) BITS LO (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	BIT ARRAY HIxLO [1] HI	[2] LO	[3] tpd MAX (s)	MODE	OUTPUT CONTROL	ARITHMETIC CAPABILITY	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1♦	L1010L65CC	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.5		5.0	550m	5	C	X00-21	DIP64a	
2	L1010L65L	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.5		5.0	550m	0	7	X00-21b	LC23	
3	L1010L65LC	CMS	16	16	65n	P	TS	2SC,USM	2.0	0.8	4.0m	0.5		5.0	550m	5	C	X00-21b	LC23	
4▼	LMA1010DC65	CMS	16	16	65n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	DIP64	Ø
5▼	LMA1010DMB65	CMS	16	16	65n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94a	DIP64	Ø
6▼	LMA1010GC65	CMS	16	16	65n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	PG68A	
7▼	LMA1010GMB65	CMS	16	16	65n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94a	PG68A	
8▼	LMA1010JC65	CMS	16	16	65n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	LC53	
9▼	LMA1010KC65	CMS	16	16	65n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	LC23	
10▼	LMA1010PC65	CMS	16	16	65n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	DIP64	Ø
11▼	LMA1043DC65	CMS	16	16	65n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	DIP64	Ø
12▼	LMA1043DMB65	CMS	16	16	65n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94	DIP64	Ø
13▼	LMA1043GC65	CMS	16	16	65n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	PG68A	
14▼	LMA1043GMB65	CMS	16	16	65n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94	PG68A	
15▼	LMA1043JC65	CMS	16	16	65n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	LC53	
16▼	LMA1043KC65	CMS	16	16	65n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	LC23	
17▼	LMA1043PC65	CMS	16	16	65n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	DIP64	Ø
18▼	LMU16DC65	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-100	DIP64a	
19▼	LMU16DMB65	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	5	C	X00-100	DIP64a	
20▼	LMU16GC65	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65c	PG68a	
21▼	LMU16GMB65	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	127m†	5	C	X00-65c	PG68a	
22▼	LMU16JC65	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65b	LC53	
23▼	LMU16KC65	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65b	LC23	
24▼	LMU16PC65	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-100	DIP64a	
25▼	LMU17DC65	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-101	DIP64a	
26▼	LMU17DMB65	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	5	C	X00-101	DIP64a	
27▼	LMU17GC65	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65c	PG68a	
28▼	LMU17GMB65	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0		5	C	X00-65c	PG68a	
29▼	LMU17KC65	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65b	LC23	
30▼	LMU17PC65	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-101	DIP64a	
31♦	WTL1516AJC	NCH	16	16	65n	P		2SC, USM	2.0	0.8	4.0m	4.7	0.5	7.0	1.5	0	7	X00-52	DIP48	
32♦	WTL1516AJM	NCH	16	16	65n	P		2SC, USM	2.0	0.8	4.0m	4.5	0.5	7.0	1.5	5	C	X00-52	DIP48	
33♦	WTL1516APC	NCH	16	16	65n	P		2SC, USM	2.0	0.8	4.0m	4.7	0.5	7.0	1.5	0	7	X00-52	DIP48	
34	WTL1516BGCD	NCH	16	16	65n	P	TS	2SC,USM						5.2	1.7	0	7	25WTX16	PG84	
35♦	WTL1516BJC	NCH	16	16	65n	P	TS	2SC,USM						5.2	1.7	0	7	25WT16	DIP64a	
36	WTL1516BLCA	NCH	16	16	65n	P	TS	2SC,USM						5.2	1.7	0	7	25WTY16	LC57	
37	WTL2010AGCD	CMS	16	16	65n	P	TS	PDA,DP						5.0	200m	0	7	None	PG84	
38	WTL2010AGMD	CMS	16	16	65n	P	TS	PDA,DP						5.0	200m	5	C	None	PG84	
39♦	WTL2010AJC	CMS	16	16	65n	P	TS	PDA,DP						5.0	200m	0	7	None	DIP64a	
40♦	WTL2010AJM	CMS	16	16	65n	P	TS	PDA,DP						5.0	200m	5	C	None	DIP64a	
41	WTL2010ALCA	CMS	16	16	65n	P	TS	PDA,DP						5.0	200m	0	7	None	LC57	
42	WTL2010ALMA	CMS	16	16	65n	P	TS	PDA,DP						5.0	200m	5	C	None	LC57	
43	WTL2044AGCD	CMS	16	16	65n	P	TS	PDA,DP						5.0	200m	0	7	None	PG84	
44♦	WTL2044AJC	CMS	16	16	65n	P	TS	PDA,DP						5.0	200m	0	7	None	DIP64a	
45	WTL2044ALCA	CMS	16	16	65n	P	TS	PDA,DP						5.0	200m	0	7	None	LC57	
46	WTL2516AGCD	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	4.0	0.4		5.0	200m†	0	7	25WTX16	PG68C	
47♦	WTL2516AJC	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	25WT16	DIP64a	
48	WTL2516ALCA	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	4.0	0.4		5.0	200m†	0	7	25WTZ16	LC57	
49	WTL2516ALCC	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	25WTY16	LC68	☑
50	WTL2517AGCD	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		0	7	25WTZ17	PG68C	
51♦	WTL2517AJC	CMS	16	16	65n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		0	7	25WT17	DIP64a	
52♦	ADSP1101JG(A)	CMS	16	16	70n	P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	300m	0	7	X00-24	PG100	☑
53▼	ADSP1101KG(A)	CMS	16	16	70n	P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	300m	0	7	X00-24	PG100	☑
54▼	ADSP1101SG(A)	CMS	16	16	70n	P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	300m	5	C	X00-24	PG100	☑
55▼	ADSP1101TG(A)	CMS	16	16	70n	P	TS	2SC USM	2.0	0.8	4.0m	0.4		5.0	300m	5	C	X00-24	PG100	☑
56♦	ADSP1110TD	CMS	16	16	70n	P		2SC, USM	2.0	0.8	4.0m	0.6	0.3	7.0	150m†	5	C	X00-86	DIP28a	
57▼	CY7C510-75DC(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21	DIP64a	
58▼	CY7C510-75DMB(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-21	DIP64a	
59▼	CY7C510-75JC(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21b	LC30	
60▼	CY7C510-75LC(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21b	LC13	
61▼	CY7C510-75LMB(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-21b	LC13	
62▼	CY7C510-75PC(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-21	DIP64	
63▼	CY7C516-75DC(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64a	
64▼	CY7C516-75DMB(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-74	DIP64a	
65▼	CY7C516-75JC(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC30	
66▼	CY7C516-75LC(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC13	
67▼	CY7C516-75LMB(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-74b	LC13	
68▼	CY7C516-75PC(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64	
69▼	CY7C517-75DC(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64a	
70▼	CY7C517-75JC(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC30	
71▼	CY7C517-75LC(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74b	LC13	
72▼	CY7C517-75LMB(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		5	C	X00-74b	LC13	
73▼	CY7C517-75PC(A)	CMS	16	16	75n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4	0.0	5.0		0	7	X00-74	DIP64	
74♦	IDT7210L75C	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53	DIP64a	
75▼	IDT7210L75CB	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	DIP64a	
76▼	IDT7210L75F	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	FP137	
77▼	IDT7210L75FB	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	FP137	
78▼	IDT7210L75J	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC20d	
79♦	IDT7210L75L	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC19d	
80▼	IDT7210L75LB	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	LC19d	
81▼	IDT7210L75P	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP64a	
82▼	IDT7210L75XC	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP68	
83▼	IDT7210L75XCB	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	DIP68	
84▼	IDT7210L75XL	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC19d	
85▼	IDT7210L75XLB	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	LC19d	
86♦	IDT7216L75C	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP64a	
87▼	IDT7216L75CB	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	DIP64a	
88♦	IDT7216L75F	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74a	FP137	
89▼	IDT7216L75FB	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	FP137	
90▼	IDT7216L75G	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	PG68a	
91▼	IDT7216L75GB	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	PG68a	
92▼	IDT7216L75J	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC20d	
93♦	IDT7216L75L	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74b	LC19d	
94▼	IDT7216L75LB	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	LC19d	
95▼	IDT7216L75P	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP64a	
96▼	IDT7216L75XC	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP68	
97▼	IDT7216L75XCB	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	DIP68	
98▼	IDT7216L75XL	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC19d	
99▼	IDT7216L75XLB	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	LC19d	
100♦	IDT7217L75C	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP64a	
101▼	IDT7217L75CB	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	DIP64a	
102♦	IDT7217L75F	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75a	FP137	
103▼	IDT7217L75FB	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	FP137	
104▼	IDT7217L75G	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	PG68a	
105▼	IDT7217L75GB	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	PG68a	
106▼	IDT7217L75J	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC20d	
107♦	IDT7217L75L	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75b	LC19d	
108▼	IDT7217L75LB	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	LC19d	
109▼	IDT7217L75P	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP64a	
110▼	IDT7217L75XC	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP68	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

16. MULTIPLIERS - 16-Bit (Cont'd)

IN ORDER OF: (1) BITS HI (2) BITS LO
(3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	BIT ARRAY HIxLO 1 HI	2 LO	3 tpd MAX (s)	MODE	OUTPUT TO PIN TF	ARITHMETIC CAPABILITY	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1▼	IDT7217L75XCB	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	DIP68	
2▼	IDT7217L75XL	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC19d	
3▼	IDT7217L75XLB	CMS	16	16	75n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	LC19d	
4♦	IDT7243L75C	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP64a	
5▼	IDT7243L75CB	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	DIP64a	
6▼	IDT7243L75F	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	FP137	
7▼	IDT7243L75FB	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	FP137	
8▼	IDT7243L75J	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC20d	
9♦	IDT7243L75L	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78a	LC19d	
10▼	IDT7243L75LB	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	LC19d	
11▼	IDT7243L75P	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP64a	
12▼	IDT7243L75XC	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP68	
13▼	IDT7243L75XCB	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	DIP68	
14▼	IDT7243L75XL	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC19d	
15▼	IDT7243L75XLB	CMS	16	16	75n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	LC19d	
16▼	LMA1010DMB75	CMS	16	16	75n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94a	DIP64	Ø
17▼	LMA1010GMB75	CMS	16	16	75n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94a	PG68A	
18▼	LMA1043DMB75	CMS	16	16	75n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94	DIP64	Ø
19▼	LMA1043GMB75	CMS	16	16	75n	P	TS	2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94	PG68A	
20▼	LMU16DMB75	CMS	16	16	75n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	5	C	X00-100	DIP64a	
21▼	LMU16GMB75	CMS	16	16	75n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	5	C	X00-65c	PG68a	
22▼	LMU17DMB75	CMS	16	16	75n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	5	C	X00-101	DIP64a	
23▼	LMU17GMB75	CMS	16	16	75n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0		5	C	X00-65c	PG68a	
24♦	AM29510DC	BIP	16	16	80n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-53	DIP64c	
25♦	AM29510DC-B	BIP	16	16	80n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-53	DIP64c	
26▼	LMU16DC	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-100	DIP64a	
27▼	LMU16GC	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65c	PG68a	
28▼	LMU16JC	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65b	LC53	
29▼	LMU16KC	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65b	LC23	
30▼	LMU16PC	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-100	DIP64a	
31▼	LMU17DC	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-101	DIP64a	
32▼	LMU17GC	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65c	PG68a	
33▼	LMU17KC	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-65b	LC23	
34▼	LMU17PC	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	0	7	X00-101	DIP64a	
35	LMU18GC(A)	CMS	16	16	80n	P	TS	2SC;USM	2.0	0.8	4.0m	0.5		5.0	125m†	0	7	X00-97	PG84	Ø
36	WTL1516BGMD	NCH	16	16	80n	P	TS	2SC,USM						5.2	1.7	5	C	25WTX16	PG84	
37♦	WTL1516BJM	NCH	16	16	80n	P	TS	2SC,USM						5.2	1.7	5	C	25WT16	DIP64a	
38	WTL1516BLMA	NCH	16	16	80n	P	TS	2SC,USM						5.2	1.7	5	C	25WTY16	LC57	
39	WTL2044AGMD	CMS	16	16	80n	P	TS	PDA,DP						5.0	200m	5	C	None	PG84	
40♦	WTL2044AJM	CMS	16	16	80n	P	TS	PDA,DP						5.0	200m	5	C	None	DIP64a	
41	WTL2044ALMA	CMS	16	16	80n	P	TS	PDA,DP						5.0	200m	5	C	None	LC57	
42	WTL2245AGCD	CMS	16	16	80n	P	TS	2SC,USM						5.0	200m	0	7	X00-110	PG84	
43	WTL2245AGMD	CMS	16	16	80n	P	TS	2SC,USM						5.0	200m	5	C	X00-110	PG84	
44♦	WTL2245AJC	CMS	16	16	80n	P	TS	2SC,USM						5.0	200m	0	7	X00-110	DIP64a	
45♦	WTL2245AJM	CMS	16	16	80n	P	TS	2SC,USM						5.0	200m	5	C	X00-110	DIP64a	
46	WTL2245ALCA	CMS	16	16	80n	P	TS	2SC,USM						5.0	200m	0	7	X00-110	LC57	
47	WTL2245ALMA	CMS	16	16	80n	P	TS	2SC,USM						5.0	200m	5	C	X00-110	LC57	
48	WTL2516AGMD	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	4.0	0.4		5.0	200m†	5	C	25WTX16	PG68C	
49♦	WTL2516AJE	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WT16	DIP64a	
50♦	WTL2516AJM	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WT16	DIP64a	
51	WTL2516ALMA	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WTZ16	LC57	
52	WTL2516ALMC	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WTY16	LC68	Ø
53	WTL2517AGMD	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		5	C	25WTZ17	PG68C	
54♦	WTL2517AJE	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		5	C	25WT17	DIP64a	
55♦	WTL2517AJM	CMS	16	16	80n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		5	C	25WT17	DIP64a	
56♦	ADSP1010AKD	CMS	16	16	85n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	X00-84b	DIP64a	
57♦	ADSP1010AKG	CMS	16	16	85n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	X00-84a	PG68A	
58▼	ADSP1010AKN	CMS	16	16	85n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	X00-84b	DIP64	Ø
59♦	ADSP1110AKD(A)	CMS	16	16	85n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	150m	0	7	X00-86	DIP28a	
60♦	ADSP1110AKN(A)	CMS	16	16	85n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	150m	0	7	X00-86	DIP28a	
61♦	AM29516ADC	BIP	16	16	85n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-65	DIP64a	
62♦	AM29516ADCB	BIP	16	16	85n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-65	DIP64a	
63♦	AM29516ALC	BIP	16	16	85n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-65	LC68	Ø
64♦	AM29516DC	BIP	16	16	85n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-65	DIP64a	
65♦	AM29516DCB	BIP	16	16	85n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-65	DIP64a	
66♦	AM29516DM	BIP	16	16	85n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	DIP64a	
67♦	AM29516LC	BIP	16	16	85n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-65	LC68	Ø
68♦	AM29517ADC	BIP	16	16	85n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-65	DIP64a	
69♦	AM29517ADCB	BIP	16	16	85n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-65	DIP64a	
70♦	AM29517ALC	BIP	16	16	85n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-65	LC68	Ø
71♦	AM29517DC	BIP	16	16	85n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-65	DIP64a	
72♦	AM29517LC	BIP	16	16	85n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-65	LC68	Ø
73♦	IDT7210L85CB	CMS	16	16	85n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53	DIP64a	
74▼	IDT7210L85FB	CMS	16	16	85n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	FP137	
75♦	IDT7210L85LB	CMS	16	16	85n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	LC19d	
76▼	IDT7210L85XCB	CMS	16	16	85n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	DIP68	
77▼	IDT7210L85XLB	CMS	16	16	85n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	LC19d	
78♦	IDT7243L85CB	CMS	16	16	85n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	DIP64a	
79▼	IDT7243L85FB	CMS	16	16	85n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	FP137	
80♦	IDT7243L85LB	CMS	16	16	85n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78a	LC19d	
81▼	IDT7243L85XCB	CMS	16	16	85n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	DIP68	
82▼	IDT7243L85XLB	CMS	16	16	85n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	LC19d	
83♦	AM29510DM	BIP	16	16	90n	P	TS	2SC, USM						5.0		5	C	X00-53	DIP64c	
84♦	AM29510DM-B	BIP	16	16	90n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-53	DIP64c	
85♦	IDT7216L90C	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP64a	
86▼	IDT7216L90CB	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	DIP64a	
87♦	IDT7216L90F	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74a	FP137	
88▼	IDT7216L90FB	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	FP137	
89▼	IDT7216L90G	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	PG68a	
90▼	IDT7216L90GB	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	PG68a	
91▼	IDT7216L90J	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC20d	
92♦	IDT7216L90L	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74b	LC19d	
93▼	IDT7216L90LB	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	LC19d	
94▼	IDT7216L90P	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP64a	
95▼	IDT7216L90XC	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP68	
96▼	IDT7216L90XCB	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	DIP68	
97▼	IDT7216L90XL	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC19d	
98▼	IDT7216L90XLB	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	LC19d	
99♦	IDT7217L90C	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP64a	
100▼	IDT7217L90CB	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	DIP64a	
101♦	IDT7217L90F	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75a	FP137	
102▼	IDT7217L90FB	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	FP137	
103▼	IDT7217L90G	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	PG68a	
104▼	IDT7217L90GB	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	PG68a	
105▼	IDT7217L90J	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC20d	
106♦	IDT7217L90L	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75b	LC19d	
107▼	IDT7217L90LB	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	LC19d	
108▼	IDT7217L90P	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP64a	
109▼	IDT7217L90XC	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP68	
110▼	IDT7217L90XCB	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	DIP68	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

16. MULTIPLIERS - 16-Bit (Cont'd)

IN ORDER OF: (1) BITS HI (2) BITS LO (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	BIT ARRAY HIxLO [1] HI	[2] LO	[3] tpd MAX (s)	MODE	OUTPUT TYPE	ARITHMETIC CAPABILITY	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	IDT7217L90XL	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC19d
2▼	IDT7217L90XLB	CMS	16	16	90n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	LC19d
3♦	L1010L90C	CMS	16	16	90n	P	TS	2SC,USM	2.0	0.8	4.0m	0.5		5.0	550m	0	7	X00-21	DIP64a
4♦	L1010L90CC	CMS	16	16	90n	P	TS	2SC,USM	2.0	0.8	4.0m	0.5		5.0	550m	5	C	X00-21	DIP64a
5	L1010L90L	CMS	16	16	90n	P	TS	2SC,USM	2.0	0.8	4.0m	0.5		5.0	550m	0	7	X00-21b	LC23
6	L1010L90LC	CMS	16	16	90n	P	TS	2SC,USM	2.0	0.8	4.0m	0.5		5.0	550m	5	C	X00-21b	LC23
7	WTL2010GCD	CMS	16	16	90n	P	TS	PDA,DP						5.0	200m	0	7	None	PG84
8	WTL2010GMD	CMS	16	16	90n	P	TS	PDA,DP						5.0	200m	5	C	None	PG84
9♦	WTL2010JC	CMS	16	16	90n	P	TS	PDA,DP						5.0	200m	0	7	None	DIP64a
10♦	WTL2010JM	CMS	16	16	90n	P	TS	PDA,DP						5.0	200m	5	C	None	DIP64a
11	WTL2010LCA	CMS	16	16	90n	P	TS	PDA,DP						5.0	200m	0	7	None	LC57
12	WTL2010LMA	CMS	16	16	90n	P	TS	PDA,DP						5.0	200m	5	C	None	LC57
13	WTL2044GCD	CMS	16	16	90n	P	TS	PDA,DP						5.0	200m	0	7	None	PG84
14♦	WTL2044JC	CMS	16	16	90n	P	TS	PDA,DP						5.0	200m	0	7	None	DIP64a
15	WTL2044LCA	CMS	16	16	90n	P	TS	PDA,DP						5.0	200m	0	7	None	LC57
16	WTL2516GCD	CMS	16	16	90n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	25WTX16	PG68C
17♦	WTL2516JC	CMS	16	16	90n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	25WT16	DIP64a
18	WTL2516LCA	CMS	16	16	90n	P	TS	2SC, USM	2.0	0.8	4.0	0.4		5.0	200m†	0	7	25WTZ16	LC57
19	WTL2516LCC	CMS	16	16	90n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	25WTY16	LC68 ☑
20	WTL2517GCD	CMS	16	16	90n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		0	7	25WTZ17	PG68C
21♦	WTL2517JC	CMS	16	16	90n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		0	7	25WT17	DIP64a
22	SN74S556L84-1	TTL	16	16	92n	P		2SC	2.0	0.8	8.0m	0.5		7.0		0▼	7	X00-82	LC40
23	SN74S556L84-2	TTL	16	16	92n	P		2SC	2.0	0.8	8.0m	0.5		7.0		0▼	7	X00-82	LC41
24	SN74S556P88	TTL	16	16	92n	P		2SC	2.0	0.8	8.0m	0.5		7.0		0▼	7	X00-81	PG88A
25♦	AM29516ADM	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	DIP64a
26♦	AM29516ADMB	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	DIP64a
27♦	AM29516ALM	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	LC68 ☑
28♦	AM29516ALMB	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	LC68 ☑
29♦	AM29516DMB	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	DIP64a
30♦	AM29516LM	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	LC68 ☑
31♦	AM29517ADM	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	DIP64a
32♦	AM29517ADMB	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	DIP64a
33♦	AM29517ALM	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	LC68 ☑
34♦	AM29517ALMB	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	LC68 ☑
35♦	AM29517DCB	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-65	DIP64a
36♦	AM29517DM	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	DIP64a
37♦	AM29517DMB	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	DIP64a
38♦	AM29517LM	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	LC68 ☑
39♦	AM29517LMB	BIP	16	16	95n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-65	LC68 ☑
40♦	ADSP1010ATD	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.6		5.0	200m†	5	C	X00-84b	DIP64a
41♦	ADSP1010ATG	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.6		5.0	200m†	5	C	X00-84a	PG68A
42▼	ADSP1010ATN	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.6		5.0	200m†	5	C	X00-84b	DIP64 ☑
43♦	ADSP1016AKD	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	300m	0	7	X00-65	DIP64a
44♦	ADSP1016AKG	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	300m	0	7	X00-65c	PG68A
45▼	ADSP1016AKN	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	300m	0	7	X00-65	DIP64 ☑
46♦	ADSP1110AJD(A)	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	150m	0	7	X00-86	DIP28a
47♦	ADSP1110AJN(A)	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	150m	0	7	X00-86	DIP28a
48♦	ADSP1110ATD(A)	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.6		5.0	150m	5	C	X00-86	DIP28a
49▼	HS1010CD	CMS	16	16	100n	P	TS	USM,2SC	2.0	0.8			0	5.0	2.5	0	7	X00-21	DIP64 ☑
50▼	HS1010MD	CMS	16	16	100n	P	TS	USM,2SC	2.0	0.8			0	5.0	2.5	5	C	X00-21	DIP64 ☑
51♦	IDT7210L100C	CMS	16	16	100n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53	DIP64a
52▼	IDT7210L100F	CMS	16	16	100n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	FP137
53▼	IDT7210L100J	CMS	16	16	100n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC20d
54♦	IDT7210L100L	CMS	16	16	100n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC19d
55▼	IDT7210L100P	CMS	16	16	100n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP64a
56▼	IDT7210L100XC	CMS	16	16	100n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	DIP68
57▼	IDT7210L100XL	CMS	16	16	100n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC19d
58♦	IDT7243L100C	CMS	16	16	100n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP64a
59▼	IDT7243L100F	CMS	16	16	100n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	FP137
60▼	IDT7243L100J	CMS	16	16	100n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC20d
61♦	IDT7243L100L	CMS	16	16	100n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78a	LC19d
62▼	IDT7243L100P	CMS	16	16	100n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP64a
63▼	IDT7243L100XC	CMS	16	16	100n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP68
64▼	IDT7243L100XL	CMS	16	16	100n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC19d
65▼	LMU16DMB	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	5	C	X00-100	DIP64a
66▼	LMU16GMB	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	5	C	X00-65c	PG68a
67▼	LMU17DMB	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m†	5	C	X00-101	DIP64a
68▼	LMU17GMB	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	8m	0.5		5.0	125m	5	C	X00-65c	PG68a
69♦	TDC1043J3C(A)	BIP	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-48	DIP64a
70♦	TDC1043J3G(A)	BIP	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-48	DIP64a
71	TMC2110C1C	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	X00-21b	LC22
72	TMC2110C1G	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	X00-21b	LC22
73♦	TMC2110J3C	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	X00-21a	DIP64a
74♦	TMC2110J3G	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	X00-21a	DIP64a
75	TMC2110L1C	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	X00-21b	FP163
76	TMC2110L1G	CMS	16	16	100n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	X00-21b	FP163
77♦	WTL1016AJC	NCH	16	16	100n	P		2SC, USM	2.0	0.8	4.0m	5.25	0.5	7.0	2.5	0	7	X00-54	DIP48
78♦	WTL1016AJM	NCH	16	16	100n	P		2SC, USM	2.0	0.8	4.0m	5.50	0.5	7.0	2.5	5	C	X00-54	DIP48
79♦	WTL1516JC	NCH	16	16	100n	P		2SC, USM	2.0	0.8	4.0m	4.7	0.5	7.0	1.0	0	7	X00-52	DIP48
80♦	WTL1516JM	NCH	16	16	100n	P		2SC, USM	2.0	0.8	4.0m	4.5	0.5	7.0	1.0	5	C	X00-52	DIP48
81♦	WTL1516PC	NCH	16	16	100n	P		2SC, USM	2.0	0.8	4.0m	4.7	0.5	7.0	1.0	0	7	X00-52	DIP48
82	SN54S556L84-1	TTL	16	16	102n	P		2SC	2.0	0.8	8.0m	0.5		7.0		5	C	X00-82	LC40
83	SN54S556L84-2	TTL	16	16	102n	P		2SC	2.0	0.8	8.0m	0.5		7.0		5	C	X00-82	LC41
84	SN54S556P88	TTL	16	16	102n	P		2SC	2.0	0.8	8.0m	0.5		7.0		5	C	X00-81	PG88A
85♦	AM29L510DCB	BIP	16	16	110n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-53	DIP64a
86♦	AM29L510LC	BIP	16	16	110n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-53	LC64 ☑
87♦	AM29L510LMB	BIP	16	16	110n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-53	LC64 ☑
88♦	AM29L510PC	BIP	16	16	110n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-53	DIP64 ☑
89♦	AM29L510PCB	BIP	16	16	110n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-53	DIP64 ☑
90	LMU18GM(A)	CMS	16	16	110n	P	TS	2SC,USM	2.0	0.8	4.0m	0.5		5.0	125m†	5	C	X00-97	PG84 ☑
91	WTL2516GMD	CMS	16	16	110n	P	TS	2SC, USM	2.0	0.8	4.0	0.4		5.0	200m†	5	C	25WTX16	PG68C
92♦	WTL2516JE	CMS	16	16	110n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WT16	DIP64a
93♦	WTL2516JM	CMS	16	16	110n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WT16	DIP64a
94	WTL2516LMA	CMS	16	16	110n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WTZ16	LC57
95	WTL2516LMC	CMS	16	16	110n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	5	C	25WTY16	LC68 ☑
96	WTL2517GMD	CMS	16	16	110n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		5	C	25WTZ17	PG68C
97♦	WTL2517JE	CMS	16	16	110n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		5	C	25WT17	DIP64a
98♦	WTL2517JM	CMS	16	16	110n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0		5	C	25WT17	DIP64a
99♦	ADSP1016AJD	CMS	16	16	115n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	300m	0	7	X00-65	DIP64a
100♦	ADSP1016AJG	CMS	16	16	115n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	300m	0	7	X00-65c	PG68A
101▼	ADSP1016AJN	CMS	16	16	115n	P	TS	2SC, USM	2.0	0.8	4.0m	0.4		5.0	300m	0	7	X00-65	DIP64 ☑
102♦	ADSP1016ATD	CMS	16	16	120n	P	TS	2SC, USM	2.2	0.8	4.0m	0.6		5.0	300m	5	C	X00-65	DIP64a
103♦	ADSP1016ATG	CMS	16	16	120n	P	TS	2SC, USM	2.2	0.8	4.0m	0.6		5.0	300m	5	C	X00-65c	PG68A
104♦	ADSP1110ASD(A)	CMS	16	16	120n	P	TS	2SC, USM	2.0	0.8	4.0m	0.6		5.0	150m	5	C	X00-86	DIP28a
105♦	AM29L510DMB	BIP	16	16	120n	P	TS	2SC, USM	2.0	0.8				5.0		5	C	X00-53	DIP64a
106♦	AM29L516DC	ECL	16	16	120n	P	TS	2SC, USM	2.0	0.8				5.0		0	7	X00-65	DIP64a
107♦	AM29L517DC	ECL	16	16	120n	P	TS	2SC, USM						5.0		0	7	X00-65	DIP64a
108♦	AM29L517PC	ECL	16	16	120n	P	TS	2SC, USM						5.0		0	7	X00-65	DIP64a
109♦	IDT7210L120CB	CMS	16	16	120n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53	DIP64a
110▼	IDT7210L120FB	CMS	16	16	120n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	FP137

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

16. MULTIPLIERS - 16-Bit (Cont'd)

IN ORDER OF: (1) BITS HI (2) BITS LO (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	BIT ARRAY HIxLO 1 HI	2 LO	[3] tpd MAX (s)	MODE	OUTPUT TCF	CONTROL	ARITHMETIC CAPABILITY	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1♦	IDT7210L120LB	CMS	16	16	120n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	LC19d	
2▼	IDT7210L120XCB	CMS	16	16	120n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	DIP68	
3▼	IDT7210L120XLB	CMS	16	16	120n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	LC19d	
4▼	IDT7216L120CB	CMS	16	16	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	DIP64a	
5▼	IDT7216L120FB	CMS	16	16	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	FP137	
6▼	IDT7216L120GB	CMS	16	16	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	PG68a	
7▼	IDT7216L120LB	CMS	16	16	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	LC19d	
8▼	IDT7216L120XCB	CMS	16	16	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	DIP68	
9▼	IDT7216L120XLB	CMS	16	16	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	LC19d	
10▼	IDT7217L120CB	CMS	16	16	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	DIP64a	
11▼	IDT7217L120FB	CMS	16	16	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	FP137	
12▼	IDT7217L120GB	CMS	16	16	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	PG68a	
13▼	IDT7217L120LB	CMS	16	16	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	LC19d	
14▼	IDT7217L120XCB	CMS	16	16	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	DIP68	
15▼	IDT7217L120XLB	CMS	16	16	120n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	LC19d	
16♦	IDT7243L120CB	CMS	16	16	120n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	DIP64a	
17▼	IDT7243L120FB	CMS	16	16	120n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	FP137	
18♦	IDT7243L120LB	CMS	16	16	120n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78a	LC19d	
19▼	IDT7243L120XCB	CMS	16	16	120n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	DIP68	
20▼	IDT7243L120XLB	CMS	16	16	120n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	LC19d	
21♦	LMA1010DC	CMS	16	16	120n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	DIP64	Ø
22♦	LMA1010GC	CMS	16	16	120n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	PG68A	
23♦	LMA1010JC	CMS	16	16	120n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	LC53	
24▼	LMA1010KC	CMS	16	16	120n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	LC23	
25▼	LMA1010PC	CMS	16	16	120n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94a	DIP64	Ø
26♦	LMA1043DC	CMS	16	16	120n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	DIP64	Ø
27♦	LMA1043GC	CMS	16	16	120n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	PG68A	
28♦	LMA1043JC	CMS	16	16	120n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	LC53	
29▼	LMA1043KC	CMS	16	16	120n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	LC23	
30▼	LMA1043PC	CMS	16	16	120n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	0	7	X00-94	DIP64	Ø
31	TMC2110C1A	CMS	16	16	120n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		5	C	X00-21b	LC22	
32	TMC2110C1F	CMS	16	16	120n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		5	C	X00-21b	LC22	
33♦	TMC2110J3A	CMS	16	16	120n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		5	C	X00-21a	DIP64a	
34♦	TMC2110J3F	CMS	16	16	120n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		5	C	X00-21a	DIP64a	
35	TMC2110L1A	CMS	16	16	120n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		5	C	X00-21b	FP163	
36	TMC2110L1F	CMS	16	16	120n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4	0.5	7.0		5	C	X00-21b	FP163	
37♦	WTL1010AJC	NCH	16	16	120n	P			2SC, USM	2.0	0.8	4.0m	4.7	0.5	7.0	1.8 †	0	7	X00-53	DIP48	
38	WTL2044GMD	CMS	16	16	120n	P	TS		PDA,DP						5.0	200m	5	C	None	PG84	
39♦	WTL2044JM	CMS	16	16	120n	P	TS		PDA,DP						5.0	200m	5	C	None	DIP64a	
40	WTL2044LMA	CMS	16	16	120n	P	TS		PDA,DP						5.0	200m	5	C	None	LC57	
41	WTL2245GCD	CMS	16	16	120n	P	TS		2SC,USM						5.0	200m	0	7	X00-110	PG84	
42	WTL2245GMD	CMS	16	16	120n	P	TS		2SC,USM						5.0	200m	5	C	X00-110	PG84	
43♦	WTL2245JC	CMS	16	16	120n	P	TS		2SC,USM						5.0	200m	0	7	X00-110	DIP64a	
44♦	WTL2245JM	CMS	16	16	120n	P	TS		2SC,USM						5.0	200m	5	C	X00-110	DIP64a	
45♦	WTL2245LCA	CMS	16	16	120n	P	TS		2SC,USM						5.0	200m	0	7	X00-110	DIP64a	
46	WTL2245LMA	CMS	16	16	120n	P	TS		2SC,USM						5.0	200m	5	C	X00-110	LC57	
47♦	ADSP1010AJD	CMS	16	16	130n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	X00-84b	DIP64a	
48♦	ADSP1010AJG	CMS	16	16	130n	P	TS		2SC, USM	2.0	0.8	4.0m	0.4		5.0	200m†	0	7	X00-84a	PG68A	
49♦	ADSP1010ASD	CMS	16	16	135n	P	TS		2SC, USM	2.0	0.8	4.0m	0.6		5.0	200m†	5	C	X00-84b	DIP64a	
50♦	ADSP1010ASG	CMS	16	16	135n	P	TS		2SC, USM	2.0	0.8	4.0m	0.6		5.0	200m†	5	C	X00-84a	PG68A	
51♦	ADSP1016ASD	CMS	16	16	135n	P	TS		2SC, USM	2.2	0.8	4.0m	0.6		5.0	300m	5	C	X00-65	DIP64a	
52♦	ADSP1016ASG	CMS	16	16	135n	P	TS		2SC, USM	2.2	0.8	4.0m	0.6		5.0	300m	5	C	X00-65c	PG68A	
53♦	AM29L516DM	ECL	16	16	135n	P	TS		2SC, USM	2.0	0.8				5.0		5	C	X00-65	DIP64a	
54♦	AM29L516LM	ECL	16	16	135n	P	TS		2SC, USM	2.0	0.8				5.0		5	C	X00-65	DIP64a	☑
55♦	AM29L517DM	ECL	16	16	135n	P	TS		2SC, USM						5.0		5	C	X00-65	LC64	☑
56♦	AM29L517LM	ECL	16	16	135n	P	TS		2SC, USM						5.0		5	C	X00-65	LC64	☑
57♦	AM29516FM	ECL	16	16	135n	P	TS		2SC, USM	2.0	0.8				5.0		5	C	X00-65	FP64	☑
58♦	IDT7216L140C	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP64a	
59♦	IDT7216L140F	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74a	FP137	
60▼	IDT7216L140G	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	PG68a	
61▼	IDT7216L140J	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC20d	
62♦	IDT7216L140L	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74b	LC19d	
63▼	IDT7216L140P	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP64a	
64▼	IDT7216L140XC	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	DIP68	
65▼	IDT7216L140XL	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-74	LC19d	
66♦	IDT7217L140C	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP64a	
67♦	IDT7217L140F	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75a	FP137	
68▼	IDT7217L140G	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	PG68a	
69▼	IDT7217L140J	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC20d	
70♦	IDT7217L140L	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75b	LC19d	
71▼	IDT7217L140P	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP64a	
72▼	IDT7217L140XC	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	DIP68	
73▼	IDT7217L140XL	CMS	16	16	140n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	0	7	X00-75	LC19d	
74▼	LMA1010DMB	CMS	16	16	140n	P	TS		2SC;PDA	2.0	0.8	8m	0.5	0	5.0	100m†	5	C	X00-94a	DIP64	☑
75▼	LMA1010GMB	CMS	16	16	140n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94a	PG68A	
76▼	LMA1043DMB	CMS	16	16	140n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94	DIP64	☑
77▼	LMA1043GMB	CMS	16	16	140n	P	TS		2SC;PDA	2.0	0.8	8m	0.5		5.0	100m†	5	C	X00-94	PG68A	
78♦	WTL1016JC	NCH	16	16	140n	P			2SC, USM	2.0	0.8	4.0m	5.25	0.5	7.0	1.5	0	7	X00-54	DIP48	
79♦	MPY016HJ1C	BIP	16	16	145n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-57a	DIP64a	
80♦	MPY016HJ1G	BIP	16	16	145n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-57a	DIP64a	
81	TMC216HC1C	CMS	16	16	145n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		0	7	X00-57b	LC22	
82	TMC216HC1G	CMS	16	16	145n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		0	7	X00-57b	LC22	
83♦	TMC216HJ3C	CMS	16	16	145n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		0	7	X00-57a	DIP64a	
84♦	TMC216HJ3G	CMS	16	16	145n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		0	7	X00-57a	DIP64a	
85	TMC216HL1C	CMS	16	16	145n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		0	7	X00-57c	FP163	
86	TMC216HL1G	CMS	16	16	145n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		0	7	X00-57c	FP163	
87♦	WTL1010JC	NCH	16	16	155n	P			2SC, USM	2.0	0.8	4.0m	4.7	0.5	7.0	1.8 †	0	7	X00-53	DIP48	
88♦	TMC2010J3C(A)	CMS	16	16	160n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-63	DIP64a	
89♦	TMC2010J3G(A)	CMS	16	16	160n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-63	DIP64a	
90♦	WTL1010AJM	NCH	16	16	160n	P			2SC, USM	2.0	0.8	4.0m	4.5	0.5	7.0	1.8 †	5	C	X00-53	DIP48	
91♦	IDT7210L165C	CMS	16	16	165n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53	DIP64a	
92▼	IDT7210L165F	CMS	16	16	165n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53	FP137	
93▼	IDT7210L165J	CMS	16	16	165n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53	LC20d	
94♦	IDT7210L165L	CMS	16	16	165n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53a	LC19d	
95▼	IDT7210L165P	CMS	16	16	165n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53	DIP64a	
96▼	IDT7210L165XC	CMS	16	16	165n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53	DIP68	
97▼	IDT7210L165XL	CMS	16	16	165n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-53	LC19d	
98♦	IDT7243L165C	CMS	16	16	165n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP64a	
99▼	IDT7243L165F	CMS	16	16	165n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	FP137	
100▼	IDT7243L165J	CMS	16	16	165n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC20d	
101♦	IDT7243L165L	CMS	16	16	165n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78a	LC19d	
102▼	IDT7243L165P	CMS	16	16	165n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP64a	
103▼	IDT7243L165XC	CMS	16	16	165n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	DIP68	
104▼	IDT7243L165XL	CMS	16	16	165n	P	TS		2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	0	7	X00-78	LC19d	
105♦	TDC1010J1C	BIP	16	16	165n	P	TS		2SC,PDA,DP	2.0	0.8	4.0m	.50	0	7.0	4.5	0	7	X00-21	DIP64a	
106♦	TDC1010J1G	BIP	16	16	165n	P	TS		2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		0	7	X00-21	DIP64a	
107▼	IDT7216L185CB	CMS	16	16	185n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	DIP64a	
108▼	IDT7216L185FB	CMS	16	16	185n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	FP137	
109▼	IDT7216L185GB	CMS	16	16	185n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	PG68a	
110▼	IDT7216L185LB	CMS	16	16	185n	P	TS		2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	LC19d	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

16. MULTIPLIERS - 16-Bit (Cont'd)

IN ORDER OF: (1) BITS HI (2) BITS LO (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	BIT ARRAY HIxLO [1] HI	[2] LO	[3] tpd MAX (s)	MODE	OUTPUT FUNCTION	ARITHMETIC CAPABILITY	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	POS (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	IDT7216L185XCB	CMS	16	16	185n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	DIP68
2▼	IDT7216L185XLB	CMS	16	16	185n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-74	LC19d
3▼	IDT7217L185CB	CMS	16	16	185n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	DIP64a
4▼	IDT7217L185FB	CMS	16	16	185n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	FP137
5▼	IDT7217L185GB	CMS	16	16	185n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	PG68a
6▼	IDT7217L185LB	CMS	16	16	185n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	LC19d
7▼	IDT7217L185XCB	CMS	16	16	185n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	DIP68
8▼	IDT7217L185XLB	CMS	16	16	185n	P	TS	2SC	2.0	0.8	8.0m	0.4	0	5.0	1.2	5	C	X00-75	LC19d
9	MPY016HC1A	BIP	16	16	185n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-57b	LC22
10	MPY016HF1A	BIP	16	16	185n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-57c	FP164
11♦	MPY016HJ1A	BIP	16	16	185n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-57a	DIP64a
12♦	MPY016HJ1F	BIP	16	16	185n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-57a	DIP64a
13	TMC216HC1A	CMS	16	16	185n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		5	C	X00-57b	LC22
14	TMC216HC1F	CMS	16	16	185n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		5	C	X00-57b	LC22
15♦	TMC216HJ3A	CMS	16	16	185n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		5	C	X00-57a	DIP64a
16♦	TMC216HJ3F	CMS	16	16	185n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		5	C	X00-57a	DIP64a
17	TMC216HL1A	CMS	16	16	185n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		5	C	X00-57c	FP163
18	TMC216HL1F	CMS	16	16	185n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		5	C	X00-57c	FP163
19♦	WTL1016JM	NCH	16	16	185n	P		2SC, USM	2.0	0.8	4.0m	5.50	0.5	7.0	1.5	5	C	X00-54	DIP48
20♦	IDT7210L200CB	CMS	16	16	200n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53	DIP64a
21▼	IDT7210L200FB	CMS	16	16	200n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	FP137
22♦	IDT7210L200LB	CMS	16	16	200n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	LC19d
23▼	IDT7210L200XCB	CMS	16	16	200n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	DIP68
24▼	IDT7210L200XLB	CMS	16	16	200n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-53a	LC19d
25♦	IDT7243L200CB	CMS	16	16	200n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78	DIP64a
26▼	IDT7243L200FB	CMS	16	16	200n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78a	FP137
27♦	IDT7243L200LB	CMS	16	16	200n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78a	LC19d
28▼	IDT7243L200XCB	CMS	16	16	200n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78a	DIP68
29▼	IDT7243L200XLB	CMS	16	16	200n	P	TS	2SC/UM	2.0	0.8	8.0m	0.4	0	5.0	1.6 †	5	C	X00-78a	LC19d
30	TDC1010C1A	BIP	16	16	200n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-21b	LC22
31	TDC1010C1F	BIP	16	16	200n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-21b	LC22
32♦	TDC1010J1A	BIP	16	16	200n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0	7.0		5	C	X00-21	DIP64a
33♦	TDC1010J1F	BIP	16	16	200n	P	TS	2SC,PDA,DP	2.0	0.8	4.0m	.50	0	7.0	5.3	5	C	X00-21	DIP64a
34	TMC2010C1A	CMS	16	16	200n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		5	C	X00-63a	LC22
35	TMC2010C1F	CMS	16	16	200n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		5	C	X00-63a	LC22
36♦	TMC2010J3A	CMS	16	16	200n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		5	C	X00-63	DIP64a
37♦	TMC2010J3F	CMS	16	16	200n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		5	C	X00-63	DIP64a
38	TMC2010L1A	CMS	16	16	200n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		5	C	X00-63a	FP163
39	TMC2010L1F	CMS	16	16	200n	P	TS	2SC, USM	2.0	0.8	4.0m	0.5	0.5	7.0		5	C	X00-63a	FP163
40♦	WTL1010JM	NCH	16	16	200n	P		2SC, USM	2.0	0.8	4.0m	4.5	0.5	7.0	1.8 †	5	C	X00-53	DIP48
41♦	WTL1032JC8	NCH	16	16	375n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	2.0	0	7	X00-51	DIP48
42♦	WTL1032JM8	NCH	16	16	375n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	2.0	5	C	X00-51	DIP48
43	WTL1032LC8	NCH	16	16	375n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	2.0	0	7	X00-51	LC15a
44	WTL1032LM8	NCH	16	16	375n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	2.0	5	C	X00-51	LC15a
45♦	WTL1033JC8	NCH	16	16	375n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	2.0	0	7	X00-51	DIP48
46♦	WTL1033JM8	NCH	16	16	375n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	2.0	5	C	X00-51	DIP48
47	WTL1033LC8	NCH	16	16	375n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	2.0	0	7	X00-51	LC15a
48	WTL1033LM8	NCH	16	16	375n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	2.0	5	C	X00-51	LC15a
49♦	WTL1032JC5	NCH	16	16	600n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	1.5	0	7	X00-51	DIP48
50♦	WTL1032JM5	NCH	16	16	600n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	1.5	5	C	X00-51	DIP48
51	WTL1032LC5	NCH	16	16	600n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	1.5	0	7	X00-51	LC15a
52	WTL1032LM5	NCH	16	16	600n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	1.5	5	C	X00-51	LC15a
53♦	WTL1033JC5	NCH	16	16	600n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	1.5	0	7	X00-51	DIP48
54♦	WTL1033JM5	NCH	16	16	600n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	1.5	5	C	X00-51	DIP48
55	WTL1033LC5	NCH	16	16	600n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	1.5	0	7	X00-51	LC15a
56	WTL1033LM5	NCH	16	16	600n	P		2SC, USM	2.0	0.8	5.0m	4.7	0.5	7.0	1.5	5	C	X00-51	LC15a
57♦	SN74S516-24T	TTL	16	16	1.5u	P		2SC, PDA	2.0	0.8	8.0m	0.5		7.0		0▼	7	X00-80	DIP24

MULTIPLIER, FLOATING POINT

61▼	TMC3032J3A1(A)	CMS	16	16	300n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4		5.0		5	C	X00-51	DIP64a
62▼	TMC3032J3C1(A)	CMS	16	16	300n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4		5.0		0	7	X00-51	DIP64a
63▼	TMC3032J3A(A)	CMS	16	16	375n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4		5.0		5	C	X00-51	DIP64a
64▼	TMC3032J3C(A)	CMS	16	16	375n	P	TS	2SC,USM	2.0	0.8	4.0m	0.4		5.0		0	7	X00-51	DIP64a
65	STI2003	CMS	22			P												X00-109	PG84
66	TDC1042(A)	BIP	22	22	100n	P		2SC					0					X00-58	LC Ø
67♦	ADSP1024AKG(A)	CMS	24	24	90n	P	TS	2SC	2.0	0.8	4.0m	0.4		5.0	300m	0	7	X00-85a	PG84
68♦	ADSP1024AJG(A)	CMS	24	24	105n	P	TS	2SC	2.0	0.8	4.0m	0.4		5.0	300m	0	7	X00-85a	PG84
69♦	ADSP1024ATG(A)	CMS	24	24	105n	P	TS	2SC	2.0	0.8	4.0m	0.4		5.0	300m	5	C	X00-85a	PG84
70♦	ADSP1024ASG(A)	CMS	24	24	125n	P	TS	2SC	2.0	0.8	4.0m	0.4		5.0	300m	5	C	X00-85a	PG84
71▼	B2110(A)	TTL	32	32		P		USM,DP	2.0	0.8	4.0m	0.4		5.0		0	7	X00-32	PG169
72▼	B2120(A)	TTL	32	32		P		USM,DP	2.0	0.8	4.0m	0.4		5.0		0	7	X00-32	PG169
73▼	B3110(A)	ECL	32	32		P		USM,DP	-1.1	-1.4		-1.6	5.2			0	7	X00-32	PG169
74▼	B3120(A)	ECL	32	32		P		USM,DP	-1.1	-1.4		-1.6	5.2			0	7	X00-32	PG169
75▼	L64132G(A)	CMS	32	32		P	TS	2SC										X00-29	PG111 Ø
76♦	L64032B	CMS	32	32	35n	P	TS	PDA	2.0	0.8	4.0m	0.4	0.3	7.0	900m		7	X00-106	PG110
77♦	L64032A	CMS	32	32	45n	P	TS	PDA	2.0	0.8	4.0m	0.4	0.3	7.0	900m		7	X00-106	PG110
78♦	WTL2264-50GCD	CMS	32	32	50n	P	TS	2SC, USM						5.0		0	7	X00-28	PG111
79♦	L64032	CMS	32	32	60n	P	TS	PDA	2.0	0.8	4.0m	0.4	0.3	7.0	900m		7	X00-106	PG110
80♦	WTL2264-60GCD	CMS	32	32	60n	P	TS	2SC, USM						5.0		0	7	X00-28	PG111
81♦	WTL2264-75GCD	CMS	32	32	75n	P	TS	2SC, USM						5.0		0	7	X00-28	PG111
82♦	WTL2264-80GCD	CMS	32	32	80n	P	TS	2SC, USM						5.0		0	7	X00-28	PG111
83♦	WTL2264-100GCD	CMS	32	32	100n	P	TS	2SC, USM						5.0		0	7	X00-28	PG111
84♦	WTL1065GCD	NCH	32	32	120n	P		2SC						5.2	2.5 †	0	7	None	PG111
85♦	WTL1164GCD	NCH	32	32	180n	P		2SC						5.2	2.0	0	7	None	PG84
86♦	WTL1164JC	NCH	32	32	180n	P		2SC						5.2	2.0	0	7	None	DIP64a
87♦	WTL1164LCA	NCH	32	32	180n	P		2SC						5.2	2.0	0	7	None	LC57
88♦	WTL1165GCD	NCH	32	32	180n	P		2SC						5.2	2.0 †	0	7	None	PG84
89♦	WTL1165JC	NCH	32	32	180n	P		2SC						5.2	2.0 †	0	7	None	DIP64a
90♦	WTL1165LCA	NCH	32	32	180n	P		2SC						5.2	2.0 †	0	7	None	LC57
91▼	IDT72264	CMS	32	32	200n	P	TS	2SC						5.0	750m	0	7	X00-51	PG111
92▼	IDT72265	CMS	32	32	200n	P	TS	2SC						5.0	750m	0	7	X00-51	PG111
93♦	WTL1064GCD	NCH	32	32	240n	P		2SC						5.2	3.2	0	7	None	PG111
94▼	IDT72064	CMS	32	32	400n	P	TS	2SC						5.0	750m	0	7	X00-51	PG111
95▼	IDT72065	CMS	32	32	400n	P	TS	2SC						5.0	750m	0	7	X00-51	PG111
96♦	TMC3201C	CMS	34	32		P	TS	2SC	2.0	0.8	4.0m	0.4	0.5	7.0		0	7	U00-41	LC84 Ø

17. MAGNITUDE COMPARATORS - Address

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	ENA-BLE	TECH	[1] TYPE	[2] BITS	[3] tpd MAX (s)	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING	
COMPARATOR, ADDRESS																			
4♦	WD1801U	Yes	NCH	A	8	70n	Expandable	2.2	0.8	3.2m	0.45	0	5.0	500m	0	7	N00-60	DIP20b	
5♦	WD1801V	Yes	NCH	A	8	70n	Expandable	2.2	0.8	3.2m	0.45	0	5.0	500m	0	7	N00-60	DIP20a	
6♦	WD1802U	Yes	NCH	A	8	70n	Expandable	2.2	0.8	3.2m	0.45	0	5.0	500m	0	7	N00-60	DIP20b	
7♦	WD1802V	Yes	NCH	A	8	70n	Expandable	2.2	0.8	3.2m	0.45	0	5.0	500m	0	7	N00-60	DIP20a	
8▼	SN74ALS680DW	No	TTL	A	12	25n	With Latch	2.0	0.8	24m	0.5	0	5.0		0	7	74LS680	FP169	
9♦	SN74ALS680N	No	TTL	A	12	25n	With Latch	2.0	0.8	24m	0.5	0	5.0		0	7	74LS680	DIP20a	
10▼	SN74ALS679DW	Yes	TTL	A	12	30n	ICC 28mA	2.0	0.8	24m	0.5	0	5.0		0	7	74LS679	FP169	
11♦	SN74ALS679N	Yes	TTL	A	12	30n	ICC 28mA	2.0	0.8	24m	0.5	0	5.0		0	7	74LS679	DIP20a	
12♦	DM74ALS679J(A)		TTL	A	12	35n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS679	DIP20b	
13♦	DM74ALS679N(A)		TTL	A	12	35n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS679	DIP20a	
14♦	DM74ALS680J(A)		TTL	A	12	35n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS680	DIP20b	
15♦	DM74ALS680N(A)		TTL	A	12	35n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS680	DIP20b	
16♦	DM54ALS679J(A)		TTL	A	12	40n		2.0	0.8	12m	0.4	0	5.0		5	C	74LS679	DIP20b	
17♦	DM54ALS680J(A)		TTL	A	12	40n		2.0	0.8	12m	0.4	0	5.0		5	C	74LS680	DIP20b	
18▼	HD74HC679FP	Yes	CMS	A	12	45n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS679	FP168	
19▼	HD74HC679P	Yes	CMS	A	12	45n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS679	DIP20a	
20▼	HD74HC680FP		CMS	A	12	53n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS680	FP168	
21▼	HD74HC680P		CMS	A	12	53n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS680	DIP20a	
22▼	SN74HC677NT(A)	Yes	CMS	A	16		Address	3.15	0.9	4.0m	0.33	0	5.0		4	8	74LS677	DIP24	
23▼	SN74HC678NT(A)	No	CMS	A	16		With Latch	3.15	0.9	4.0m	0.33	0	5.0		4	8	74LS678	DIP24	
24♦	DM74ALS677J(A)		TTL	A	16	35n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS677	DIP24a	
25♦	DM74ALS677N(A)		TTL	A	16	35n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS677	DIP24a	
26♦	DM74ALS678J(A)		TTL	A	16	35n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS678	DIP24a	
27♦	DM74ALS678N(A)		TTL	A	16	35n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS678	DIP24a	
28	SN74ALS677FN		TTL	A	16	35n		2.0	0.8	12m	0.25	0	5.0		0	7	N00-51	LC20a	
29♦	SN74ALS677NT		TTL	A	16	35n		2.0	0.8	12m	0.25	0	5.0		0	7	74LS677	DIP24e	
30▼	SN74ALS678DW	No	TTL	A	16	35n	With Latch	2.0	0.8	24m	0.5	0	5.0		0	7	74LS678	FP170	
31♦	SN74ALS678FN	No	TTL	A	16	35n	With Latch	2.0	0.8	24m	0.5	0	5.0		0	7	N00-52	LC20a	
32♦	SN74ALS678NT	No	TTL	A	16	35n	With Latch	2.0	0.8	24m	0.5	0	5.0		0	7	74LS678	DIP24e	
33♦	DM54ALS677J(A)		TTL	A	16	40n		2.0	0.8	12m	0.4	0	5.0		5	C	74LS677	DIP24a	
34♦	DM54ALS678J(A)		TTL	A	16	40n		2.0	0.8	12m	0.4	0	5.0		5	C	74LS678	DIP24a	
35▼	HD74HC677FP	Yes	CMS	A	16	45n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS677	FP	☑
36▼	HD74HC677P	Yes	CMS	A	16	45n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS677	DIP24	
37▼	HD74HC678FP		CMS	A	16	53n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS678	FP	☑
38▼	HD74HC678P		CMS	A	16	53n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS678	DIP24	
COMPARATOR, IDENTITY																			
42♦	MC4021P		TTL	I	4	20n		2.5	0.4	16m	.40	0	5.0	250m	0	7	74-421	DIP16a	
43♦	MC4022P		TTL	I	4	20n		2.5	0.4	16m	.40	0	5.0	250m	0	7	74-422	DIP16a	
44♦	93S46DC	Yes	TTL	I	6	12n		2.0	0.8	20m	.50	0	5.0	350m	0	7	N00-2	DIP16a	
45♦	93S46DM	Yes	TTL	I	6	12n		2.0	0.8	20m	.50	0	5.0	350m	5	C	N00-2	DIP16a	
46	93S46FM	Yes	TTL	I	6	12n		2.0	0.8	20m	.50	0	5.0	350m	5	C	N00-2	FP103	
47	93S46PC	Yes	TTL	I	6	12n		2.0	0.8	20m	.50	0	5.0	350m	0	7	N00-2	None	
48▼	SN74ALS29806NT	Yes	TTL	I	6	13n	2-4 Decode	2.0	0.8	32m	0.5	0.0	5.0	50m†	0	7	74ALS29806	DIP24e	☑
49♦	93S47DC	Yes	TTL	I	6	15n		2.4Ø	0.5	20m	.50	0	5.0	325m	0	7	N00-3	DIP16a	
50♦	93S47DM	Yes	TTL	I	6	15n		2.4Ø	0.5	20m	.50	0	5.0	325m	5	C	N00-3	DIP16a	
51	93S47FM	Yes	TTL	I	6	15n		2.4Ø	0.5	20m	.50	0	5.0	325m	5	C	N00-3	FP103	
52	93S47PC	Yes	TTL	I	6	15n		2.4Ø	0.5	20m	.50	0	5.0	325m	0	7	N00-3	None	
53♦	DM7131J		TTL	I	6	30n		2.0	0.8	16m	.40	0	5.0	370m	5	C	N00-11	DIP16a	
54♦	DM7131N		TTL	I	6	30n		2.0	0.8	16m	.40	0	5.0	370m	5	C	N00-11	DIP16a	
55	DM7131W		TTL	I	6	30n		2.0	0.8	16m	.40	0	5.0	370m	5	C	N00-11	FP88a	
56♦	DM7136J		TTL	I	6	30n		2.0	0.8	16m	.40	0	5.0	370m	5	C	N00-11a	DIP16a	
57	DM7136W		TTL	I	6	30n		2.0	0.8	16m	.40	0	5.0	370m	5	C	N00-11a	FP88a	
58♦	DM8131J		TTL	I	6	30n		2.0	0.8	16m	.40	0	5.0	370m	0	7	N00-11	DIP16a	
59♦	DM8131N		TTL	I	6	30n		2.0	0.8	16m	.40	0	5.0	370m	0	7	N00-11	DIP16a	
60♦	DM8136N		TTL	I	6	30n		2.0	0.8	16m	.40	0	5.0	370m	0	7	N00-11a	DIP16a	
61♦	IDT54AHCT521D	Yes	CMOS	I	8			2.0	0.8	14m	0.4	0.5	7.0		5	C	74LS521	DIP20b	
62♦	IDT54AHCT521DB	Yes	CMOS	I	8			2.0	0.8	14m	0.4	0.5	7.0		5	C	74LS521	DIP20b	
63	IDT54AHCT521LB	Yes	CMOS	I	8			2.0	0.8	14m	0.4	0.5	7.0		5	C	N00-29a	LC25	
64♦	IDT74AHCT521D	Yes	CMOS	I	8			2.0	0.8	24m	0.5	0.5	7.0		0	7	74LS521	DIP20b	
65	IDT74AHCT521L	Yes	CMOS	I	8			2.0	0.8	24m	0.5	0.5	7.0		0	7	N00-29a	LC25	
66♦	SN74HC688N(A)	Yes	CMS	I	8		Identity	3.15	0.9	4.0m	0.33	0.0	5.0		4	8	74LS688	DIP20b	
67▼	IDT74FCT521AD	Yes	CMOS	I	8	7.2n		2.0	0.8	48m	0.5		5.0	5.0nQ	0	7	74LS521	DIP20b	
68▼	IDT74FCT521AJ	Yes	CMOS	I	8	7.2n		2.0	0.8	48m	0.5		5.0	5.0nQ	0	7	74LS521	LC20	
69▼	IDT74FCT521AL	Yes	CMOS	I	8	7.2n		2.0	0.8	48m	0.5		5.0	5.0nQ	0	7	74LS521	LC19	
70▼	IDT74FCT521AP	Yes	CMOS	I	8	7.2n		2.0	0.8	48m	0.5		5.0	5.0nQ	0	7	74LS521	DIP20a	
71▼	IDT74FCT521ASO	Yes	CMOS	I	8	7.2n		2.0	0.8	48m	0.5		5.0	5.0nQ	0	7	74LS521	FP168	
72▼	IDT54FCT521ADB	Yes	CMOS	I	8	9.5n		2.0	0.8	32m	0.5		5.0	5.0uQ	5	C	74LS521	DIP20b	
73▼	IDT54FCT521AEB	Yes	CMOS	I	8	9.5n		2.0	0.8	32m	0.5		5.0	5.0uQ	5	C	74LS521	FP183	
74▼	IDT54FCT521ALB	Yes	CMOS	I	8	9.5n		2.0	0.8	32m	0.5		5.0	5.0uQ	5	C	74LS521	LC19	
75♦	MC54F521J	No	TTL	I	8	9.5n		2.0	0.8	20m	0.5	0	5.5		5	C	74F521	DIP20b	
76♦	MC54F521N	No	TTL	I	8	9.5n		2.0	0.8	20m	0.5	0	5.0		5	C	74F521	DIP20b	
77♦	MC74F521J	No	TTL	I	8	9.5n		2.0	0.8	20m	0.5	0	5.0		0	7	74F521	DIP20b	
78♦	MC74F521N	No	TTL	I	8	9.5n		2.0	0.8	20m	0.5	0	5.0		0	7	74F521	DIP20b	
79♦	N74F521F	No	TTL	I	8	9.5n		2.0	0.8			-0.5	5.0		0	7	74F521	DIP20b	
80	S54F521W		TTL	I	8	9.5n		2.0	0.8			-0.5	5.0		5	C	54F521	FP154	
81♦	74F521DC		TTL	I	8	11n		2.0	0.8	20m	0.5	0	5.0		0	7	74LS521	DIP20b	
82	74F521L1C		TTL	I	8	11n		2.0	0.8	20m	0.5	0	5.0		0	7	N00-29a	LC19	
83♦	74F521PC		TTL	I	8	11n		2.0	0.8	20m	0.5	0	5.0		0	7	74LS521	DIP20a	
84	74F521QC		TTL	I	8	11n		2.0	0.8	20m	0.5	0	5.0		0	7	N00-29a	LC26	
85	74F521SC		TTL	I	8	11n		2.0	0.8	20m	0.5	0	5.0		0	7	54-521	FP169	
86♦	IDT74FCT521D	Yes	CMOS	I	8	11n		2.0	0.8	48m	0.5		5.0	5.0uQ	0	7	74LS521	DIP20b	
87▼	IDT74FCT521J	Yes	CMOS	I	8	11n		2.0	0.8	48m	0.5		5.0	5.0uQ	0	7	N00-29a	LC20	
88♦	IDT74FCT521L	Yes	CMOS	I	8	11n		2.0	0.8	48m	0.5		5.0	5.0uQ	0	7	N00-29a	LC25	
89▼	IDT74FCT521P	Yes	CMOS	I	8	11n		2.0	0.8	48m	0.5		5.0	5.0uQ	0	7	N00-29a	DIP20a	
90▼	IDT74FCT521SO	Yes	CMOS	I	8	11n		2.0	0.8	48m	0.5		5.0	5.0uQ	0	7	N00-29a	FP168	
91♦	N74F521D	Yes	TTL	I	8	11n	.	2.0	0.8	20m	0.5	0	5.0		0	7	74LS521	FP170	
92♦	N74F521N	Yes	TTL	I	8	11n	.	2.0	0.8	20m	0.5	0	5.0		0	7	74LS521	DIP20a	
93♦	S54F521F	No	TTL	I	8	12n		2.0	0.8	20m	0.5	0	5.0		5	C	74F521	DIP20b	
94	S54F521G		TTL	I	8	12n		2.0	0.8	20m	0.5	0	5.0		5	C	N00-29a	LC24	
95♦	54F521DM		TTL	I	8	15n		2.0	0.8	20m	0.5	0	5.0		5	C	74LS521	DIP20b	
96	54F521L1M		TTL	I	8	15n		2.0	0.8	20m	0.5	0	5.0		5	C	N00-29a	LC19	
97	AMZ8121	Yes	TTL	I	8	15n		2.0	0.8			0	5.0		0	7	N00-29	DL	☑
98♦	IDT54FCT521DB	Yes	CMOS	I	8	15n		2.0	0.8	32m	0.5		5.0	5.0uQ	5	C	74LS521	DIP20b	
99▼	IDT54FCT521EB	Yes	CMOS	I	8	15n		2.0	0.8	32m	0.5		5.0	5.0uQ	5	C	N00-29a	FP183	
100♦	IDT54FCT521LB	Yes	CMOS	I	8	15n		2.0	0.8	32m	0.5		5.0	5.0uQ	5	C	N00-29a	LC19	
101♦	54F524DM		TTL	I	8	20n		2.0	0.8	20m	0.5	0	5.0		5	C	N00-54	DIP20b	
102	54F524L1M		TTL	I	8	20n		2.0	0.8	20m	0.5	0	5.0		5	C	N00-55	LC19	
103♦	AM25LS2521DC	Yes	TTL	I	8	20n		2.0	0.80	4.0m	400m	0	5.0		0	7	N00-29	DIP20b	
104	AM25LS2521LC	Yes	TTL	I	8	20n		2.0	0.80	4.0m	400m	0	5.0		0	7	N00-29	LC17	
105♦	AM25LS2521PC	Yes	TTL	I	8	20n		2.0	0.80	4.0m	400m	0	5.0		0	7	N00-29	DIP20b	
106♦	DM74ALS520J		TTL	I	8	20n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS521	DIP20b	
107♦	DM74ALS520N		TTL	I	8	20n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS521	DIP20a	
108♦	DM74ALS521J		TTL	I	8	20n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS521	DIP20b	
109♦	DM74ALS521N		TTL	I	8	20n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS521	DIP20a	
110▼	SN74ALS520DW	Yes	TTL	I	8	20n	ICC 19mA	2.0	0.8	24m	0.5	0	5.0		0	7	74ALS520	FP169	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

17. MAGNITUDE COMPARATORS - Identity (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	ENA-BLE	TECH	[1] TYPE CODE	[2] BITS	[3] tpd MAX (s)	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	SN74ALS520N	Yes	TTL	I	8	20n	ICC 19mA	2.0	0.8	24m	0.5	0	5.0		0	7	74ALS520	DIP20a
2▼	SN74ALS521DW	Yes	TTL	I	8	20n	ICC 19mA	2.0	0.8	24m	0.5	0	5.0		0	7	74F521	FP169
3♦	SN74ALS521N	Yes	TTL	I	8	20n	ICC 19mA	2.0	0.8	24m	0.5	0	5.0		0	7	74F521	DIP20a
4▼	SN74ALS688DW	Yes	TTL	I	8	20n	ICC 19mA	2.0	0.8	24m	0.5	0	5.0		0	7	74LS688	FP169
5♦	SN74ALS688N	Yes	TTL	I	8	20n	ICC 19mA	2.0	0.8	24m	0.5	0	5.0		0	7	74LS688	DIP20a
6	74F524L1C		TTL	I	8	21n		2.0	0.8	20m	0.5	0	5.0		0	7	N00-55	LC19
7	AM25LS2521XM	Yes	TTL	I	8	22n		2.0	0.70	4.0m	400m	0	5.0		5	C	N00-29	CH139
8♦	DM54ALS520J		TTL	I	8	25n		2.0	0.8	12m	0.4	0	5.0		5	C	74LS521	DIP20b
9♦	DM54ALS521J		TTL	I	8	25n		2.0	0.8	12m	0.4	0	5.0		5	C	74LS521	DIP20b
10♦	DM74ALS522J		TTL	I	8	25n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS521	DIP20b
11♦	DM74ALS522N		TTL	I	8	25n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS521	DIP20a
12♦	SN54ALS520J	Yes	TTL	I	8	25n	ICC 19mA	2.0	0.7	12m	0.4	0	5.0		5	C	74ALS520	DIP20b
13▼	SN74ALS522DW	Yes	TTL	I	8	25n	ICC 17mA	2.0	0.8	24m	0.5	0	5.0		0	7	74ALS522	FP169
14♦	SN74ALS522N	Yes	TTL	I	8	25n	ICC 17mA	2.0	0.8	24m	0.5	0	5.0		0	7	74ALS522	DIP20a
15▼	SN74ALS689DW	Yes	TTL	I	8	25n	ICC 19mA	2.0	0.8	24m	0.5	0	5.0		0	7	74LS689N	FP169
16♦	SN74ALS689N	Yes	TTL	I	8	25n	ICC 19mA	2.0	0.8	24m	0.5	0	5.0		0	7	74LS689N	DIP20a
17♦	DM54ALS522J		TTL	I	8	30n		2.0	0.8	12m	0.4	0	5.0		5	C	74LS521	DIP20b
18♦	DM74ALS518J	Yes	TTL	I	8	33n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS518	DIP20b
19♦	DM74ALS518N	Yes	TTL	I	8	33n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS518	DIP20a
20♦	DM74ALS519J	Yes	TTL	I	8	33n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS518	DIP20b
21♦	DM74ALS519N	Yes	TTL	I	8	33n		2.0	0.8	24m	0.5	0	5.0		0	7	74LS518	DIP20a
22▼	SN74ALS518DW	Yes	TTL	I	8	33n	ICC 17mA	2.0	0.8	24m	0.5	0	5.0		0	7	74ALS518	FP169
23♦	SN74ALS518N	Yes	TTL	I	8	33n	ICC 17mA	2.0	0.8	24m	0.5	0	5.0		0	7	74ALS518	DIP20a
24▼	SN74ALS519DW	Yes	TTL	I	8	33n	ICC 17mA	2.0	0.8	24m	0.5	0	5.0		0	7	74ALS519	FP169
25♦	SN74ALS519N	Yes	TTL	I	8	33n	ICC 17mA	2.0	0.8	24m	0.5	0	5.0		0	7	74ALS519	DIP20a
26♦	DM54ALS518J	Yes	TTL	I	8	37n		2.0	0.8	12m	0.4	0	5.0		5	C	74LS518	DIP20b
27♦	DM54ALS519J	Yes	TTL	I	8	37n		2.0	0.8	12m	0.4	0	5.0		5	C	74LS518	DIP20b
28♦	MM74HC688J	Yes	CMS	I	8	38n		4.2	1.2	4.0m	0.33	0.5	7.0	500m	4	8	74LS688	DIP20b
29♦	MM74HC688N	Yes	CMS	I	8	38n		4.2	1.2	4.0m	0.33	0.5	7.0	500m	4	8	74LS688	DIP20a
30♦	AM29809DC	Yes	TTL	I	9	10n	Latched	2.0	0.8	24m	0.5	0	5.0		0	7	P00-8	DIP24e
31♦	AM29809DCB	Yes	TTL	I	9	10n	Latched	2.0	0.8	24m	0.5	0	5.0		0	7	N00-42	DIP24e
32♦	AM29809DM	Yes	TTL	I	9	10n	Latched	2.0	0.8	24m	0.5	0	5.0		5	C	N00-42	DIP24e
33♦	AM29809DMB	Yes	TTL	I	9	10n	Latched	2.0	0.8	24m	0.5	0	5.0		5	C	N00-42	DIP24e
34	AM29809LC	Yes	TTL	I	9	10n	Latched	2.0	0.8	24m	0.5	0	5.0		0	7	N00-42	LC18
35	AM29809LM	Yes	TTL	I	9	10n	Latched	2.0	0.8	24m	0.5	0	5.0		5	C	N00-42	LC18
36	AM29809LMB	Yes	TTL	I	9	10n	Latched	2.0	0.8	24m	0.5	0	5.0		5	C	N00-42	LC18
37▼	SN74ALS527DW	Yes	TTL	I	12	15n	Fuse-Prgbl	2.0	0.8	24m	0.5	0	5.0		0	7	74ALS527	FP169
38♦	SN74ALS527N	Yes	TTL	I	12	15n	Fuse-Prgbl	2.0	0.8	24m	0.5	0	5.0		0	7	74ALS527	DIP20a
39▼	SN74ALS528D	Yes	TTL	I	12	15n	Fuse-Prmbl	2.0	0.8	24m	0.5	0	5.0		0	7	74ALS528	FP162
40♦	SN74ALS528N	Yes	TTL	I	12	15n	Fuse-Prmbl	2.0	0.8	24m	0.5	0	5.0		0	7	74ALS528	DIP16a
41▼	SN74ALS526DW	Yes	TTL	I	16	15n	Fuse-Prgbl	2.0	0.8	24m	0.5	0	5.0		0	7	74ALS526	FP169
42♦	SN74ALS526N	Yes	TTL	I	16	15n	Fuse-Prgbl	2.0	0.8	24m	0.5	0	5.0		0	7	74ALS526	DIP20a
43♦	LS7240		PCH	II	24		w/memory	10.5	4.5	17u	0.4	0	15		2	7	N00-30	DIP40 ☑

COMPARATOR, MAGNITUDE

47♦	HMD11685-2(A)	Yes	GA	M	2	500p	.		-1.8C	32m	-1.8	3.5	4.5	2.0	5	8	N00-56	FP184
48♦	MB448	No	TTL	M	4		Cascadable	2.0	0.8			0	5.0	230mt	0	7	74L85N	DIP16b
49♦	MB448M	No	TTL	M	4		Cascadable	2.0	0.8			0	5.0	230mt	0	7	74L85N	DIP16b
50♦	MM54C85D		CMS	M	4			8.0	2.0				15	500m	5	C	N00-5	DIP16b
51♦	MM74C85N	No	CMS	M	4			8.0	2.0				15	500m	0	7	74-85	DIP16a
52♦	54F85DM(A)	No	TTL	M	4	14n		2.0	0.8	20m	0.5	0	5.0		5	C	74-85	DIP16b
53	54F85L1M(A)	No	TTL	M	4	14n	Cascadable	2.0	0.8	20m	0.5	0	5.0		5	C	N00-43	LC19
54♦	74F85DC(A)	No	TTL	M	4	14n		2.0	0.8	20m	0.5	0	5.0		0	7	74-85	DIP16b
55	74F85L1C(A)	No	TTL	M	4	14n	Cascadable	2.0	0.8	20m	0.5	0	5.0		0	7	N00-43	LC19
56♦	74F85PC(A)	No	TTL	M	4	14n		2.0	0.8	20m	0.5	0	5.0		0	7	74-85	DIP16a
57	74F85QC(A)	No	TTL	M	4	14n	Cascadable	2.0	0.8	20m	0.5	0	5.0		0	7	N00-43	LC26
58	74F85SC(A)	No	TTL	M	4	14n	Cascadable	2.0	0.8	20m	0.5	0	5.0		0	7	54-85	FP148
59▼	N74F85D(A)	No	TTL	M	4	15n	Cascadable	2.0	0.8	20m	0.5	0	5.0		0	7	74-85	FP148
60♦	N74F85N(A)	No	TTL	M	4	15n	Cascadable	2.0	0.8	20m	0.5	0	5.0		0	7	74-85	DIP16a
61♦	HD74LS85P	No	TTL	M	4	16n	Cascadable	2.0	0.8	8.0m	0.5	0	5.0	400m	2	7	74-85N	DIP16a
62	N74S85D	No	TTL	M	4	18n	Cascadable	2.0	0.8	20m	0.5	0.5	7.0	575m	0	7	74-85N	FP148
63♦	N74S85N	No	TTL	M	4	18n	Cascadable	2.0	0.8	20m	0.5	0.5	7.0	575m	0	7	74-85N	DIP16a
64♦	S54S85F	No	TTL	M	4	18n	Cascadable	2.0	0.8	20m	0.5	0.5	7.0	575m	5	C	74-85N	DIP16b
65	S54S85W	No	TTL	M	4	18n	Cascadable	2.0	0.8	20m	0.5	0.5	7.0	575m	5	C	54-85W	FP154
66♦	SN54S85J	No	TTL	M	4	18n	Cascadable	2.0	0.8	20m	0.5	0	7.0	575mQ	5	C	74-85N	DIP16a
67	SN74S85D	No	TTL	M	4	18n		2.0	0.8	20m	0.5	0	7.0		0	7	74-85	FP148
68♦	SN74S85N	No	TTL	M	4	18n	Cascadable	2.0	0.8	20m	0.5	0	7.0	575mQ	0	7	74-85N	DIP16a
69▼	HD74HC85FP	No	CMS	M	4	20n	Cascadable	3.15	1.35	20u	0.1	0	5.0	500m	4	8	74-85N	FP162
70▼	HD74HC85P	No	CMS	M	4	20n	Cascadable	3.15	1.35	20u	0.1	0	5.0	500m	4	8	74-85N	DIP16a
71♦	UPD74HC85C(A)	N	CMS	M	4	21n	Cascadable	4.2	1.2	7.5m	7.0	0	6.0	500m	4	8	74-85	MO001A
72	DM5485W	No	TTL	M	4	23n	Cascadable	2.0	0.8			0	5.0	275m	5	C	54-85W	FP98b
73	DM54LS85W	No	TTL	M	4	24n	Cascadable	2.0	0.8			0	5.0	52m	5	C	54-85W	FP98b
74♦	DM74LS85N	No	TTL	M	4	24n	Cascadable	2.0	0.8			0	5.0	52m	5	C	74-85N	DIP16a
75♦	MC54HC85J(A)	No	CMS	M	4	25n	Cascadable	3.8	1.1			0	6.0	500m	5	C	74-85N	DIP16a
76♦	MC74HC85J(A)	No	CMS	M	4	25n	Cascadable	3.8	1.1			0	6.0	500m	4	8	74-85N	DIP16a
77♦	MC74HC85N(A)	No	CMS	M	4	25n	Cascadable	3.8	1.1			0	6.0	500m	4	8	74-85N	DIP16b
78♦	5485DM	No	TTL	M	4	35n	Cascadable	2.0	0.8			0	5.0	440m	5	C	74-85N	DIP16a
79	5485FM	No	TTL	M	4	35n	Cascadable	2.0	0.8			0	5.0	440m	5	C	54-85W	FP93c
80♦	DM5485J		TTL	M	4	35n		2.0	0.8	16m	0.4		5.0		5	C	N00-9	DIP16a
81♦	DM7485N	No	TTL	M	4	35n	Cascadable	2.0	0.8			0	5.0	275mt	0	7	74-85N	DIP16a
82♦	M53285P	No	TTL	M	4	35n	Cascadable	2.0	0.8	16m	.40	0	5.0	440mQ	0	7	74-85N	DIP16a
83♦	N7485F	No	TTL	M	4	35n	Cascadable	2.0	0.8	16m	.40	0	5.0	440m	0	7	74-85N	DIP16b
84♦	N7485N	No	TTL	M	4	35n	Cascadable	2.0	0.8	16m	0.4	0.5	7.0	440m	0	7	74-85N	DIP16a
85♦	S5485F	No	TTL	M	4	35n	Cascadable	2.0	0.8	16m	0.4	0.5	7.0	440m	5	C	74-85N	DIP16b
86	S5485W	No	TTL	M	4	35n	Cascadable	2.0	0.8	16m	0.4	0.5	7.0	440m	5	C	54-85W	FP154
87♦	SFC485E	No	TTL	M	4	35n	Cascadable	2.4	0.4	16m	.40	0	5.0	440m	0	7	74-85N	DIP16a
88♦	SFC485EM	No	TTL	M	4	35n	Cascadable	2.4	0.4	16m	.40	0	5.0	440m	5	C	74-85N	DIP16a
89♦	SFC485ET	No	TTL	M	4	35n	Cascadable	2.4	0.4	16m	.40	0	5.0	440m	2	8	74-85N	DIP16a
90♦	SFC485JM	No	TTL	M	4	35n	Cascadable	2.4	0.4	16m	.40	0	5.0	440m	5	C	74-85N	DIP16a
91♦	SFC485KM	No	TTL	M	4	35n	Cascadable	2.4	0.4	16m	.40	0	5.0	440m	5	C	74-85N	DIP16a
92♦	SN5485J	No	TTL	M	4	35n	Cascadable	2.0	0.8	16m	0.4	0	7.0	440m	5	C	74-85N	DIP16a
93♦	SN7485N	No	TTL	M	4	35n	Cascadable	2.0	0.8	16m	0.4	0	7.0	440m	0	7	74-85N	DIP16a
94♦	54LS85DM	No	TTL	M	4	36n	Cascadable	2.0	0.7	4.0m	.40	0	5.0	100mQ	5	C	74-85N	DIP16a
95	54LS85FM	No	TTL	M	4	36n	Cascadable	2.0	0.7	4.0m	.40	0	5.0	100mQ	5	C	54-85W	FP103
96♦	74LS85DC	No	TTL	M	4	36n	Cascadable	2.0	0.8	8.0m	.50	0	5.0	100mQ	0	7	74-85N	DIP16a
97♦	74LS85PC	No	TTL	M	4	36n	Cascadable	2.0	0.8	8.0m	.50	0	5.0	100mQ	0	7	74-85N	DIP16 ☑
98♦	DM7200J		TTL	M	4	40n		2.0	0.8	16m	.40	0	5.0	265m	5	C	N00-13	DIP14a
99♦	DM7200N		TTL	M	4	40n		2.0	0.8	16m	.40	0	5.0	265m	5	C	N00-13	DIP14a
100	DM7200W		TTL	M	4	40n		2.0	0.8	16m	.40	0	5.0	265m	5	C	N00-13	FP97a
101♦	DM8200J		TTL	M	4	40n		2.0	0.8	16m	.40	0	5.0	265m	0	7	N00-13	DIP14a
102♦	DM8200N		TTL	M	4	40n		2.0	0.8	16m	.40	0	5.0	265m	0	7	N00-13	DIP14a
103♦	N8269F	Yes	TTL	M	4	40n		2.6	0.4	16m	.40	0	5.0	278mt	0	7	N00-20	DIP14b
104	N8269W	Yes	TTL	M	4	40n		2.6	0.4	16m	.40	0	5.0	278mt	0	7	N00-20	FP39e
105	CD74HC85E	No	CMS	M	4	41n		3.15	1.35	20u	0.1	0	5.0	500m	4	8	74-85	MS001a
106	CD74HC85M	No	CMS	M	4	41n	Cascadable	3.15	1.35	20u	0.1	0	5.0	300m	4	8	54-85	MS012c
107	74HC85D	No	CMS	M	4	42n	Expandable	4.2	1.8	20u	0.1	0.5	7.0		4	8	74-85	FP162
108♦	74HC85N	No	CMS	M	4	42n	Expandable	4.2	1.8	20u	0.1	0.5	7.0		4	8	74-85	DIP16b
109♦	DM54LS85J	No	TTL	M	4	42n	Cascadable	2.0	0.7	4.0m	0.4	0	5.0	52mt	5	C	74L85N	DIP16a
110	CD74HCT85E	No	CMS	M	4	45n		2.0	0.8	20u	0.1	0	5.0	500m	4	8	74-85	MS001a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

17. MAGNITUDE COMPARATORS - Magnitude (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	ENA-BLE	TECH	[1] TYPE	[2] BITS	[3] tpd MAX (s)	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1	CD74HCT85M	No	CMS	M	4	45n	Cascadable	2.0	0.8	20u	0.1	0	5.0	300m	4	8	54-85	MS012c
2▼	HD74LS85G	No	TTL	M	4	45n	Cascadable	2.0	0.8	8.0m	0.5	0	5.0	400m	2	7	74-85N	DIP16a
3♦	M74LS85P	No	TTL	M	4	45n	Cascadable	2.0	0.8	8.0m	0.5	0.5	7.0	55m†	2	7	74-85N	DIP16b
4♦	MB74LS85	No	TTL	M	4	45n	Cascadable	2.0	0.8	8.0m	.50	0	5.0	100m	2	7	74-85N	DIP16a
5♦	MB74LS85M	No	TTL	M	4	45n	Cascadable	2.0	0.8	8.0m	.50	0	5.0	100m	2	7	74-85N	DIP16b
6♦	MM74HC85J	No	CMS	M	4	45n	Cascadable	4.2	1.2	4.0m	0.33	0.5	7.0	500m	4	8	74-85N	DIP16a
7♦	MM74HC85N	No	CMS	M	4	45n	Cascadable	4.2	1.2	4.0m	0.33	0.5	7.0	500m	4	8	74-85N	DIP16a
8	N74LS85D	No	TTL	M	4	45n	Cascadable	2.0	0.8	8.0m	0.5	0.5	7.0	100m	0	7	74-85N	FP148
9♦	N74LS85F	No	TTL	M	4	45n	Cascadable	2.0	0.8	8m	.50	0	5.0	100m	0	7	74-85N	DIP16b
10♦	N74LS85N	No	TTL	M	4	45n	Cascadable	2.0	0.8	8.0m	0.5	0.5	7.0	100m	0	7	74-85N	DIP16a
11♦	S54LS85F	No	TTL	M	4	45n	Cascadable	2.0	0.7	4.0m	0.4	0.5	7.0	100m	5	C	74-85N	DIP16b
12	S54LS85G	No	TTL	M	4	45n	Cascadable	2.0	0.7	4.0m	0.4	0.5	7.0	100m	5	C	N00-43	LC24
13	S54LS85W	No	TTL	M	4	45n	Cascadable	2.0	0.7	4.0m	0.4	0.5	7.0	100m	5	C	54-85W	FP154
14♦	SN54LS85J	No	TTL	M	4	45n		2.0	0.7	4.0m	0.4	0	7.0		5	C	74-85	DIP16a
15▼	SN54LS85N	No	TTL	M	4	45n		2.0	0.7	4.0m	0.4	0	7.0		5	C	74-85	DIP16a
16	SN74LS85D	No	TTL	M	4	45n		2.0	0.7	8.0m	0.5	0	7.0		0	7	74-85	FP148
17♦	SN74LS85J	No	TTL	M	4	45n		2.0	0.8	5.0m	0.5	0	7.0		0	7	74-85	DIP16a
18♦	SN74LS85N	No	TTL	M	4	45n	Cascadable	2.0	0.8	8.0m	0.5	0	7.0	52mQ	0	7	74-85N	DIP16a
19♦	M54HC85F1(A)	No	CMS	M	4	47n	Cascadable	3.15	1.35	20u	0.1	0	5.0	500m	5	C	74L85	DIP16b
20	74HCT85D	No	CMS	M	4	50n	Expandable	2.0	0.8	20u	0.1	0.5	7.0		4	8	74-85	FP162
21♦	74HCT85N	No	CMS	M	4	50n	Expandable	2.0	0.8	20u	0.1	0.5	7.0		4	8	74-85	DIP16b
22♦	340085DC	No	CMS	M	4	50n	Cascadable	10.5	4.5	3.6m	.50	0	15	400m	4	8	74L85N	DIP16a
23♦	340085DM	No	CMS	M	4	50n	Cascadable	10.5	4.5	3.6m	.50	0	15	400m	5	C	74L85N	DIP16a
24	340085FC	No	CMS	M	4	50n		10.5	4.5	3.6m	.50	0	15	400m	4	8	54L85W	FP103
25	340085FM	No	CMS	M	4	50n		10.5	4.5	3.6m	.50	0	15	400m	5	C	54L85W	FP103
26	340085PC	No	CMS	M	4	50n	Cascadable	10.5	4.5	3.6m	.50	0	15	400m	4	8	74L85N	None
27♦	CD54HC85F	No	CMS	M	4	50n		3.15	1.35	20u	0.1	0	5.0	500m	5	C	74-85	DIP16a
28♦	MM54HC85J	No	CMS	M	4	53n	Cascadable	4.2	1.2	4.0m	0.40	0.5	7.0	500m	5	C	74-85N	DIP16a
29♦	PC74HC85D(A)	No	CMS	M	4	53n		3.15	0.9	20u	0.1	0	5.0	500m	4	8	74-85	DIP16b
30♦	PC74HC85P	No	CMS	M	4	53n		3.15	0.9	20u	0.1	0	5.0	500m	4	8	74-85	DIP16b
31	PC74HC85T	No	CMS	M	4	53n		3.15	0.9	20u	0.1	0	5.0	300m	4	8	74-85	FP148
32♦	CD54HCT85F	No	CMS	M	4	54n		2.0	0.8	20u	0.1	0	5.0	500m	5	C	74-85	DIP16a
33	DM74L85W	No	TTL	M	4	55n		2.0	0.7			0	8.0	20m	5	C	54L85W	FP98b
34♦	M74HC85B1(A)	No	CMS	M	4	57n	Cascadable	3.15	1.35	20u	0.1	0	5.0	500m	4	8	74L85	DIP16a
35	M74HC85C1(A)	No	CMS	M	4	57n	Cascadable	3.15	1.35	20u	0.1	0	5.0	500m	4	8	N00-43	LC33
36♦	M74HC85F1(A)	No	CMS	M	4	57n	Cascadable	3.15	1.35	20u	0.1	0	5.0	500m	4	8	74L85	DIP16b
37♦	SN74HC85N(A)	No	CMS	M	4	58n	Cascadable	3.15	0.90	4.0m	0.33	0.0	5.00		4	8	74-85N	DIP16a
38▼	TC74HC85F(A)	No	CMS	M	4	58n	Cascadable	3.15	1.35	4.0m	0.33	0	5.0	180m	4	8	74-85N	FP167
39▼	TC74HC85P(A)	No	CMS	M	4	58n	Cascadable	3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74-85N	DIP16a
40♦	PC74HCT85D(A)	No	CMS	M	4	60n		2.0	0.8	20u	0.1	0	5.0	500m	4	8	74-85	DIP16b
41♦	PC74HCT85P	No	CMS	M	4	60n		2.0	0.8	20u	0.1	0	5.0	500m	4	8	74-85	DIP16b
42	PC74HCT85T	No	CMS	M	4	60n		2.0	0.8	20u	0.1	0	5.0	300m	4	8	74-85	FP148
43♦	PC54HC85D(A)	No	CMS	M	4	63n		3.15	0.9	20u	0.1	0	5.0	500m	5	C	74-85	DIP16b
44♦	PC54HCT85D(A)	No	CMS	M	4	72n		2.0	0.8	20u	0.1	0	5.0	500m	5	C	74-85	DIP16b
45	HEF4585	No	CMS	M	4	80n	Cascadable	11	4.0	3.0m	1.5	0	15	400m	4	8	45-85B	DL Ø
46♦	HEF4585BPN	No	CMS	M	4	80n	Cascadable	11.0	4.0	3.0m	1.5	0	15	400m	4	8	45-85B	DIP16b
47	HEF4585BTD	No	CMS	M	4	90n	Cascadable	11.0	4.0	3.0m	1.5	0	15	200m	4	8	45-85B	FP148
48♦	40085BDC	No	CMS	M	4	112n	Cascadable	11	4.0	3.0m	1.5	0	15	9.0mQ	4	8	45-85	DIP16a
49♦	40085BDM	No	CMS	M	4	112n	Cascadable	11	4.0	3.4m	1.5	0	15	9.0mQ	5	C	45-85	DIP16a
50	40085BFC	No	CMS	M	4	112n	Cascadable	11	4.0	3.0m	1.5	0	15	9.0mQ	4	8	45-85	FP103
51	40085BFM	No	CMS	M	4	112n	Cascadable	11	4.0	3.4m	1.5	0	15	9.0mQ	5	C	45-85	FP103
52	40085BPC	No	CMS	M	4	112n	Cascadable	11	4.0	3.0m	1.5	0	15	9.0mQ	4	8	45-85	None
53♦	DM54L85J	No	TTL	M	4	115n	Cascadable	2.0	0.7	2.0m	.30	0	5.0	35m	5	C	74L85N	DIP16b
54	DM54L85W	No	TTL	M	4	115n		2.0	0.7			0	8.0	20m	5	C	54L85W	FP98b
55♦	DM74L85N	No	TTL	M	4	115n	Cascadable	2.0	0.7	3.6m	.40	0	5.0	35m	0	7	74L85N	DIP16a
56♦	DM76L24J		TTL	M	4	130n		2.0	0.7	2.0m	.30	0	5.0	100m	5	C	N00-15	DIP16a
57♦	DM76L24N		TTL	M	4	130n		2.0	0.7	2.0m	.30	0	5.0	100m	5	C	N00-15	DIP16a
58♦	DM86L24J		TTL	M	4	130n		2.0	0.7	3.2m	.40	0	5.0	100m	0	7	N00-15	DIP16a
59♦	DM86L24N		TTL	M	4	130n		2.0	0.7	3.2m	.40	0	5.0	100m	0	7	N00-15	DIP16a
60♦	HEF4585BD	No	CMS	M	4	130n	Cascadable	7.0	3.0	1u	1.0	0	10	500m	4	8	45-85B	DIP16b
61♦	HEF4585BP	No	CMS	M	4	130n	Cascadable	7.0	3.0	1u	1.0	0	10	500m	4	8	45-85B	DIP16b
62♦	HEF4585BT	No	CMS	M	4	130n	Cascadable	7.0	3.0	1u	1.0	0	10	400m	4	8	45-85B	FP148
63	883C4585B	No	CMS	M	4	160n	Cascadable	8.2	6.7	3.4m	1.5	0	15	300m	5	C	45-85B	MO001AG
64	BCL4585B	No	CMS	M	4	160n	Cascadable	8.2	6.7	3.4m	1.5	0	15	300m	5	C	45-85B	MO001AG
65♦	HCC4063BD	No	CMS	M	4	175n	Cascadable	11	4.0	3.4m	1.5	0	15	200m	5	C	40-63B	DIP16a
66♦	HCC4063BF	No	CMS	M	4	175n	Cascadable	11	4.0	3.4m	1.5	0	15	200m	5	C	40-63B	DIP16a
67	HCC4063BK	No	CMS	M	4	175n	Cascadable	11	4.0	3.4m	1.5	0	15	200m	5	C	40-63B	FP131
68♦	HCF4063BE	No	CMS	M	4	175n	Cascadable	11	4.0	3.4m	1.5	0	15	200m	4	8	40-63B	DIP16a
69♦	HCF4063BF	No	CMS	M	4	175n	Cascadable	11	4.0	3.4m	1.5	0	15	200m	4	8	40-63B	DIP16a
70♦	MC14585BAL	No	CMS	M	4	220n	Cascadable	11.0	4.0	3.0m	1.5	0	15	.30mQ	5	C	45-85B	DIP16b
71▼	MC14585BALD	No	CMS	M	4	220n	Cascadable	11.0	4.0	3.0m	1.5	0	15	.30mQ	5	C	45-85B	DIP16b
72▼	MC14585BALDS	No	CMS	M	4	220n	Cascadable	11.0	4.0	3.0m	1.5	0	15	.30mQ	5	C	45-85B	DIP16b
73▼	MC14585BALS	No	CMS	M	4	220n	Cascadable	11.0	4.0	3.0m	1.5	0	15	.30mQ	5	C	45-85B	DIP16b
74	CD4585BD	No	CMS	M	4	250n	Cascadable	7.0	3.0	1.3m	0.5	0	20	500m	5	C	45-85B	MO001AE
75	CD4585BE	No	CMS	M	4	250n	Cascadable	7.0	3.0	1.3m	0.5	0	20	500m	4	8	45-85B	MO001AC
76	CD4585BF	No	CMS	M	4	250n	Cascadable	7.0	3.0	1.3m	0.5	0	20	500m	5	C	45-85B	MO001AC
77♦	MC14585BCL	No	CMS	M	4	330n	Cascadable	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-85B	DIP16b
78▼	MC14585BCLD	No	CMS	M	4	330n	Cascadable	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-85B	DIP16b
79▼	MC14585BCLDS	No	CMS	M	4	330n	Cascadable	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-85B	DIP16b
80▼	MC14585BCLS	No	CMS	M	4	330n	Cascadable	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-85B	DIP16b
81♦	MC14585BCP	No	CMS	M	4	330n	Cascadable	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-85B	DIP16a
82▼	MC14585BCPD	No	CMS	M	4	330n	Cascadable	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-85B	DIP16a
83▼	MC14585BCPDS	No	CMS	M	4	330n	Cascadable	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-85B	DIP16a
84▼	MC14585BCPS	No	CMS	M	4	330n	Cascadable	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-85B	DIP16a
85▼	MC14585BD	No	CMS	M	4	330n	Cascadable	11.0	4.0	3.0m	1.5	0	15	1.2mQ	4	8	45-85B	DIP16a
86♦	M4063BP	No	CMS	M	4	390n	Cascadable	11.0	4.0	2.4m	1.5	0	18	0.5	4	8	40-63B	DIP16b
87♦	TC4063BP	No	CMS	M	4	400n	Cascadable	14.9	.05	3.0m	1.5	0	15	300m	4	8	40-63B	DIP16a
88	CD4063BD	No	CMS	M	4	500n	Cascadable	7.0	3.0	1.3m	0.5	0	20	500m	5	C	40-63B	MO001AE
89	CD4063BE	No	CMS	M	4	500n	Cascadable	7.0	3.0	1.3m	0.5	0	20	500m	4	8	40-63B	MO001AC
90	CD4063BF	No	CMS	M	4	500n	Cascadable	7.0	3.0	1.3m	0.5	0	20	500m	5	C	40-63B	MO001AC
91♦	M4585BP	No	CMS	M	4	600n	Cascadable	11.0	4.0	2.4m	1.5	0	18	0.5	4	8	45-85B	DIP16b
92♦	SCL4585B	No	CMS	M	4	600n	Cascadable	3.5Δ	1.0*	1.3m	.50	0	18	100uQ	5	C	45-85B	DIP16a
93♦	TC4585BP	No	CMS	M	4	600n	Cascadable	14.9	.05	3.0m	1.5	0	15	300m	4	8	45-85B	DIP16a
94♦	MSM582RS		CMS	M	4	1.0u		3.6	0.8*	1.6m	0.4	0	5.0		3	8	N00-31	DIP16a
95♦	HD14585B		CMS	M	4	1.1u		7.0	6.75	900m	0.5	0	18.0		4	8	45-85B	DIP16b
96♦	MSM4585RS	No	CMS	M	4	1.2u	Cascadable	3.6	1.0			0.3	16	200m	4	8	45-85B	DIP16 Ø
97▼	MC10H166FN	Yes	ECL	M	5	3.8n		-1.3	-1.4			8.0	0	440m	0	7	N00-8	DIP16a
98♦	MC10H166L	Yes	ECL	M	5	3.8n		-1.3	-1.4			8.0	0	440m	0	7	N00-8	DIP16a
99▼	MC10H166LD	Yes	ECL	M	5	3.8n		-1.3	-1.4			8.0	0	440m	0	7	N00-8	DIP16a
100▼	MC10H166LDS	Yes	ECL	M	5	3.8n		-1.3	-1.4			8.0	0	440m	0	7	N00-8	DIP16a
101♦	MC10H166P	Yes	ECL	M	5	3.8n		-1.3	-1.4			8.0	0	440m	0	7	N00-8	DIP16b
102▼	MC10H166PD	Yes	ECL	M	5	3.8n		-1.3	-1.4			8.0	0	440m	0	7	N00-8	DIP16b
103▼	MC10H166PDS	Yes	ECL	M	5	3.8n		-1.3	-1.4			8.0	0	440m	0	7	N00-8	DIP16b
104♦	MC10H166J	Yes	ECL	M	5	4.1n	Cascadable	-1.1	-1.4		-1.6	5.2		440m†	0	7	N00-8	DIP16a
105♦	MC10H166N	Yes	ECL	M	5	4.1n	Cascadable	-1.1	-1.4		-1.6	5.2		440m†	0	7	N00-8	DIP16a
106	MC10H166NL	Yes	ECL	M	5	4.1n	Cascadable	-1.1	-1.4		-1.6	5.2		440m†	0	7	N00-8	LC45
107♦	F10166DC		ECT	M	5	6.5n		-.96	-1.6	20m	-.96	5.2	0	390mQ	0	7	N00-23	DIP16a
108♦	F10566DM		ECT	M	5	6.5n		-.93	-1.6	10m	-.93	5.2	0	390mQ	5	C	N00-23	DIP16a
109	F10566FM		ECT	M	5	6.5n		-.93	-1.6	10m	-.93	5.2	0	390mQ	5	C	N00-23	FP103
110▼	MC10166FN	Yes	ECT	M	5	7.6n		-.96	-1.6C			8.0	0	551m	3	8	N00-8	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

17. MAGNITUDE COMPARATORS - Magnitude (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	ENA-BLE	TECH	[1] TYPE CODE	[2] BITS	[3] tpd MAX (s)	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	MC10166L	Yes	ECT	M	5	7.6n		-.96	-1.6C			8.0	0	551m	3	8	N00-8	DIP16a
2▼	MC10166LD	Yes	ECT	M	5	7.6n		-.96	-1.6C			8.0	0	551m	3	8	N00-8	DIP16a
3▼	MC10166LDS	Yes	ECT	M	5	7.6n		-.96	-1.6C			8.0	0	551m	3	8	N00-8	DIP16a
4♦	MC10166P	Yes	ECT	M	5	7.6n		-.96	-1.6C			8.0	0	551m	3	8	N00-8	DIP16b
5▼	MC10166PD	Yes	ECT	M	5	7.6n		-.96	-1.6C			8.0	0	551m	3	8	N00-8	DIP16b
6▼	MC10166PDS	Yes	ECT	M	5	7.6n		-.96	-1.6C			8.0	0	551m	3	8	N00-8	DIP16b
7♦	N9324F	Yes	TTL	M	5	48n				16m		0	5.0	405m	0	7	N00-4	DIP16b
8♦	N9324N	Yes	TTL	M	5	48n				16m		0	5.0	405m	0	7	N00-4	DIP16a
9♦	S9324F	Yes	TTL	M	5	48n				16m		0	5.0	405m	5	C	N00-4	DIP16b
10	S9324W	Yes	TTL	M	5	48n				16m		0	5.0	405m	5	C	N00-4	FP47g
11♦	9324DC	Yes	TTL	M	5	49n		1.8	0.85	13m	.45	0	5.0	375m	0	7	N00-4	DIP16b
12♦	9324DM	Yes	TTL	M	5	49n		1.7	.90	11m	.40	0	5.0	375m	5	C	N00-4	DIP16b
13	9324FM	Yes	TTL	M	5	49n		1.7	.90	11m	.40	0	5.0	375m	5	C	N00-4	FP66
14	9324PC	Yes	TTL	M	5	49n		1.8	0.85	13m	.45	0	5.0	375m	0	7	N00-4	None
15♦	93L24DC	Yes	TTL	M	5	102n		2.0	0.7	4.9m	.30	0	5.0	52m†	0	7	N00-7	DIP16a
16♦	93L24DM	Yes	TTL	M	5	102n		2.0	0.7	4.9m	.30	0	5.0	52m†	5	C	N00-7	DIP16a
17	93L24FM	Yes	TTL	M	5	102n		2.0	0.7	4.9m	.30	0	5.0	52m†	5	C	N00-7	FP79b
18♦	93L24PC	Yes	TTL	M	5	102n		2.0	0.7	4.9m	.30	0	5.0	52m†	0	7	N00-7	DIP16a
19♦	DM7160D		TTL	M	6	40n		2.0	0.8	16m	.40	0	5.0	240m†	5	C	N00-12	DIP16b
20♦	DM7160J		TTL	M	6	40n		2.0	0.8	16m	0.4		5.0		5	C	N00-12	DIP16a
21	DM7160W		TTL	M	6	40n		2.0	0.8	16m	.40	0	5.0	240m†	5	C	N00-12	FP88a
22♦	DM8160J		TTL	M	6	40n		2.0	0.8	16m	.40	0	5.0	240m†	0	7	N00-12	DIP16a
23♦	DM8160N		TTL	M	6	40n		2.0	0.8	16m	.40	0	5.0	240m†	0	7	N00-12	DIP16a
24	DM8160W		TTL	M	6	40n		2.0	0.8	16m	.40	0	5.0	240m†	0	7	N00-12	FP88a
25♦	N74F524D(A)	Yes	TTL	M	8		OC & Tri-S	2.0Ø	0.8	20m	0.5	0	5.0		0	7	N00-55	FP169
26♦	N74F524N(A)	Yes	TTL	M	8		OC & Tri-S	2.0Ø	0.8	20m	0.5	0	5.0		0	7	N00-54	DIP20a
27▼	SN74HC682N(A)	No	CMS	M	8		Magnitude	3.15	0.9	4.0m	0.33	0	5.0		4	8	74LS682	DIP20a
28▼	SN74HC684N(A)	No	CMS	M	8		Magnitude	3.15	0.9	4.0m	0.33	0	5.0	500m	4	8	74LS684	DIP20a
29▼	HD74HCT688FP	Yes	CMS	M	8	18n		2.0	0.8	4.0m	0.33	0	5.0	500m	4	8	74-688	FP168
30▼	HD74HCT688P	Yes	CMS	M	8	18n		2.0	0.8	4.0m	0.33	0	5.0	500m	4	8	74-688	DIP20a
31♦	SN74AS866FN	Yes	TTL	M	8	18n	ICC 240mA	2.0	0.8	20m	0.5	0	5.0		0	7	N00-53	LC20a
32♦	SN74AS866N	Yes	TTL	M	8	18n	ICC 240mA	2.0	0.8	20m	0.5	0	5.0		0	7	74AS866	DIP28b
33▼	SN74AS885DW	No	TTL	M	8	18n	Cascadable	2.0	0.8	20m	0.5	0	5.0		0	7	74AS885	FP170
34♦	SN74AS885FN	NO	TTL	M	8	18n	Cascadable	2.0	0.8	20m	0.5	0	5.0		0	7	N00-53	LC20a
35♦	SN74AS885NT	No	TTL	M	8	18n	Cascadable	2.0	0.8	20m	0.5	0	5.0		0	7	74AS885	DIP24e
36♦	74F524DC		TTL	M	8	21n		2.0	0.8	20m	0.5	0	5.0		0	7	N00-54	DIP20b
37♦	74F524PC		TTL	M	8	21n		2.0	0.8	20m	0.5	0	5.0		0	7	N00-54	DIP20a
38	74F524QC		TTL	M	8	21n		2.0	0.8	20m	0.5	0	5.0		0	7	N00-55	LC26
39	74F524SC		TTL	M	8	21n		2.0	0.8	20m	0.5	0	5.0		0	7	N00-54	FP169
40	74HC688D	Yes	CMS	M	8	21n	Com BCD Wd	4.2	1.8	20u	0.1	0.5	7.0		4	8	74-688	FP169
41♦	74HC688N	Yes	CMS	M	8	21n	Com BCD Wd	4.2	1.8	20u	0.1	0.5	7.0		4	8	74-688	DIP20a
42♦	SN54LS688J	Yes	TTL	M	8	23n	O/P TP	2.0	0.7	12m	0.4	0	5.0		5	C	74LS688	DIP20b
43▼	SN54LS688N	Yes	TTL	M	8	23n	O/P TP	2.0	0.7	12m	0.4	0	5.0		5	C	74LS688	DIP20b
44♦	SN74LS688DW	Yes	TTL	M	8	23n	O/P TP	2.0	0.8	24m	0.5	0	5.0		0	7	74LS688	FP169
45♦	SN74LS688N	Yes	TTL	M	8	23n	O/P TP	2.0	0.8	24m	0.5	0	5.0		0	7	74LS688	DIP20a
46♦	DM74ALS689J	Yes	TTL	M	8	25n	Open coll.	2.0	0.8	24m	0.5	0	5.0		0	7	74LS689	DIP20b
47♦	DM74ALS689N	Yes	TTL	M	8	25n	Open coll.	2.0	0.8	24m	0.5	0	5.0		0	7	74LS689	DIP20a
48♦	SN74LS686J			M	8	25n		2.0	0.8			0	5.0		0	7	74LS686	DIP24a
49♦	SN74LS686N			M	8	25n		2.0	0.8			0	5.0		0	7	74LS686	DIP24e
50	74HCT688D	Yes	CMS	M	8	28n	Com BCD Wd	2.0	0.8	20u	0.1	0.5	7.0		4	8	74-688	FP169
51♦	74HCT688N	Yes	CMS	M	8	28n	Com BCD Wd	2.0	0.8	20u	0.1	0.5	7.0		4	8	74-688	DIP20a
52♦	M74LS688P	Yes	TTL	M	8	28n		2.0	0.8	24m	0.5	0.5	7.0		2	7	74LS688	DIP20a
53♦	DM54ALS689J	Yes	TTL	M	8	30n	Open coll.	2.0	0.8	12m	0.4	0	5.0		5	C	74LS689	DIP20b
54♦	M74LS682P	No	TTL	M	8	30n		2.0	0.8	24m	0.5	0.5	7.0		2	7	74LS682	DIP20a
55♦	M74LS684P	No	TTL	M	8	30n		2.0	0.8	24m	0.5	0.5	7.0		2	7	74LS684	DIP20a
56♦	SN54LS682J	No	TTL	M	8	30n	20k PU Res	2.0	0.7	12m	0.4	0	5.0		5	C	74LS682	DIP20b
57▼	SN54LS682N	No	TTL	M	8	30n	20k PU Res	2.0	0.7	12m	0.4	0	5.0		5	C	74LS682	DIP20b
58♦	SN54LS684J	No	TTL	M	8	30n	O/P TP	2.0	0.7	12m	0.4	0	5.0		5	C	74LS684	DIP20b
59▼	SN54LS684N	No	TTL	M	8	30n	O/P TP	2.0	0.7	12m	0.4	0	5.0		5	C	74LS684	DIP20b
60♦	SN54LS686J		TTL	M	8	30n		2.0	0.7	12m	0.4	0	5.5		5	C	74LS686	DIP24e
61▼	SN54LS686N		TTL	M	8	30n		2.0	0.7	12m	0.4	0	5.5		5	C	74LS686	DIP24e
62♦	SN74LS682DW	No	TTL	M	8	30n	20k PU Res	2.0	0.8	24m	0.5	0	5.0		0	7	74LS682	FP169
63♦	SN74LS682N	No	TTL	M	8	30n	20k PU Res	2.0	0.8	24m	0.5	0	5.0		0	7	74LS682	DIP20a
64♦	SN74LS684DW	No	TTL	M	8	30n	O/P TP	2.0	0.8	24m	0.5	0	5.0		0	7	74LS684	FP169
65♦	SN74LS684J	No	TTL	M	8	30n		2.0	0.8	24m	0.5	0	7.0		0	7	74LS684	DIP20b
66♦	SN74LS684N	No	TTL	M	8	30n	O/P TP	2.0	0.8	24m	0.5	0	5.0		0	7	74LS684	DIP20a
67♦	SN74LS686NT	No	TTL	M	8	30n	O/P TP	2.0	0.8	24m	0.5	0	5.0		0	7	74LS686	DIP24e
68♦	SN74LS688J	Yes	TTL	M	8	30n		2.0	0.8	24m	0.5	0	7.0		0	7	74LS688	DIP20b
69♦	SN54LS687J	Yes	TTL	M	8	35n		2.0Ø	0.7	12m	0.4	0	5.5		5	C	74LS687	DIP24e
70▼	SN54LS687N	Yes	TTL	M	8	35n		2.0Ø	0.7	12m	0.4	0	5.5		5	C	74LS687	DIP24e
71♦	SN74LS687J	Yes		M	8	35n		2.0	0.8			0	5.0		0	7	74LS687	DIP24a
72♦	SN74LS687N	Yes		M	8	35n		2.0	0.8			0	5.0		0	7	74LS687	DIP24e
73♦	SN74LS687NT	Yes	TTL	M	8	35n	II 0.1mA	2.0Ø	0.8	24m	0.5	0	5.0		0	7	74LS687	DIP24e
74♦	M54HC688F1(A)	Yes	CMS	M	8	39n		3.15	1.35	20u	0.1	0	5.0	500m	5	C	74LS688	DIP20b
75♦	M74LS689P	Yes	TTL	M	8	40n	Open coll.	2.0Ø	0.8	24m	0.5	0.5	7.0		2	7	74LS689	DIP20a
76♦	SN54LS689J	Yes	TTL	M	8	40n	Open coll.	2.0Ø	0.7	12m	0.4	0	5.5		5	C	74LS689	DIP20b
77▼	SN54LS689N	Yes	TTL	M	8	40n	Open coll.	2.0Ø	0.7	12m	0.4	0	5.5		5	C	74LS689	DIP20b
78♦	SN74LS689N	Yes	TTL	M	8	40n	II 0.1mA	2.0Ø	0.8	24m	0.5	0	5.0		0	7	74LS689	DIP20a
79♦	CD74HC688E	Yes	CMS	M	8	42n		3.15	1.35	20u	0.1	0	5.0	500m	4	8	74LS688	DIP20a
80	CD74HC688M		CMS	M	8	42n		3.15	1.35	20u	0.1	0	5.0	300m	4	8	54LS688	FP169
81♦	CD74HCT688E	Yes	CMS	M	8	42n		2.00	0.80	20u	0.1	0	5.0	500m	4	8	74LS688	DIP20a
82	CD74HCT688M		CMS	M	8	42n		2.0	0.8	20u	0.1	0	5.0	300m	4	8	54LS688	FP169
83♦	MM74HCT688J(A)	Yes	CMS	M	8	42n		2.0	0.8	4.0m	0.33	0.5	7.0	500m	4	8	74LS688	DIP20b
84♦	MM74HCT688N(A)	Yes	CMS	M	8	42n		2.0	0.8	4.0m	0.33	0.5	7.0	500m	4	8	74LS688	DIP20a
85♦	M74LS683P	No	TTL	M	8	45n		2.0Ø	0.8	24m	0.5	0.5	7.0		2	7	74LS683	DIP20a
86♦	M74LS685P	Yes	TTL	M	8	45n		2.0Ø	0.8	24m	0.5	0.5	7.0		2	7	74LS685	DIP20a
87♦	MM54HC688J	Yes	CMS	M	8	45n		4.2	1.2	4.0m	0.40	0.5	7.0	500m	5	C	74LS688	DIP20b
88♦	SN54LS683J	No	TTL	M	8	45n	20k PU Res	2.0Ø	0.7	12m	0.4	0	5.0		5	C	74LS683	DIP20b
89▼	SN54LS683N	No	TTL	M	8	45n	20k PU Res	2.0Ø	0.7	12m	0.4	0	5.0		5	C	74LS683	DIP20b
90♦	SN54LS685J	Yes	TTL	M	8	45n	II 0.2mA	2.0Ø	0.7	12m	0.4	0	5.0		5	C	74LS685	DIP20b
91▼	SN54LS685N	Yes	TTL	M	8	45n	II 0.2mA	2.0Ø	0.7	12m	0.4	0	5.0		5	C	74LS685	DIP20b
92♦	SN74LS683J	No	TTL	M	8	45n		2.0	0.8	24m	0.5	0	7.0		0	7	74LS683	DIP20b
93♦	SN74LS683N	No	TTL	M	8	45n	20k PU Res	2.0Ø	0.8	24m	0.5	0	5.0		0	7	74LS683	DIP20a
94♦	SN74LS685J	Yes	TTL	M	8	45n		2.0	0.8	24m	0.5	0	7.0		0	7	74LS685	DIP20b
95♦	SN74LS685N	Yes	TTL	M	8	45n	II 0.1mA	2.0Ø	0.8	24m	0.5	0	5.0		0	7	74LS685	DIP20a
96♦	M74HC688B1(A)	Yes	CMS	M	8	47n		3.15	1.35	20u	0.1	0	5.0	500m	4	8	74LS688	DIP20a
97	M74HC688C1(A)		CMS	M	8	47n		3.15	1.35	20u	0.1	0	5.0	500m	4	8	N00-44	LC33
98♦	M74HC688F1(A)	Yes	CMS	M	8	47n		3.15	1.35	20u	0.1	0	5.0	500m	4	8	74LS688	DIP20b
99	PC74HCT688T(A)	Yes	CMS	M	8	47n		2.0	0.8	20u	0.1	0	5.0	300m	4	C	74-688	FP169
100▼	TC74HC688F(A)	Yes	CMS	M	8	49n	tr,tf 19ns	3.15	1.35	4.0m	0.33	0	5.0	180m	4	8	74-688	FP168
101▼	TC74HC688P(A)	Yes	CMS	M	8	49n	tr,tf 19ns	3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74-688	DIP20a
102▼	HD74HC682FP	No	CMS	M	8	50n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS682	FP168
103▼	HD74HC682P	No	CMS	M	8	50n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS682	DIP20a
104▼	HD74HC684FP	No	CMS	M	8	50n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS684	FP168
105▼	HD74HC684P	No	CMS	M	8	50n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS684	DIP20a
106▼	HD74HC686FP	Yes	CMS	M	8	50n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS686	FP ☑
107▼	HD74HC686P	Yes	CMS	M	8	50n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74LS686	DIP24
108♦	CD54HC688F	Yes	CMS	M	8	51n		3.15	1.35	20u	0.1	0	5.0	500m	5	C	74LS688	DIP20b
109♦	CD54HCT688F	Yes	CMS	M	8	51n		2.00	0.80	20u	0.1	0	5.0	500m	5	C	74LS688	DIP20b
110♦	MM54HCT688J(A)	Yes	CMS	M	8	51n		2.0	0.8	4.0m	0.40	0.5	7.0	500m	5	C	74LS688	DIP20b

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

17. MAGNITUDE COMPARATORS – Magnitude (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	ENABLE	TECH	[1] TYPE CODE	[2] BITS	[3] tpd MAX (s)	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	PC74HC688P	Yes	CMS	M	8	51n		3.15	1.35	20u	0.1	0	5.0	500m	4	C	74-688	DIP20b
2	PC74HC688T(A)	Yes	CMS	M	8	51n		3.15	1.35	20u	0.1	0	5.0	300m	4	C	74-688	FP169
3▼	HD74HC688FP	Yes	CMS	M	8	53n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74-688	FP168
4▼	HD74HC688P	Yes	CMS	M	8	53n		3.15	1.35	4.0m	0.33	0	5.0	500m	4	8	74-688	DIP20a
5♦	MC74HC688J(A)		CMS	M	8	53n		3.15	0.9	4.0m	0.4	0.5	7.0	500m	4	8	74LS688N	DIP20b
6♦	MC74HC688N(A)		CMS	M	8	53n		3.15	0.9	4.0m	0.4	0.5	7.0	500m	4	8	74LS688N	DIP20b
7♦	MC54HC688J(A)		CMS	M	8	63n		3.15	0.9	4.0m	0.4	0.5	7.0	500m	5	C	74LS688N	DIP20b
8	HXA100166D	No	ECL	M	9	2.2n		-1.8	-.88			4.5	0	720m	0	8	N00-24	DL Ø
9	HXA100166F	No	ECL	M	9	2.2n		-1.8	-.88			4.5	0	720m	0	8	N00-24	FP Ø
10♦	HD100166	No	ECL	M	9	3.0n		-1.2	-1.5			5.7	0	40m†	0	8	N00-24	DIP24d
11	HD100166F	No	ECL	M	9	3.1n		-1.2	-1.5			5.7	0	40m†	0	8	N00-24	FP146
12♦	100166Y	No	ECL	M	9	3.7n		-1.1	-1.4		-1.6	4.5	0	630m†	0	8	N00-24	FP173
13	F100166FC	No	ECL	M	9	3.7n		-1.1	-1.4	20m	-1.0	7.0	0.5	1.2	0	7	N00-24	FP126
14♦	100166F	No	ECL	M	9	3.9n		-1.1	-1.4		-1.6	4.5	0	630m†	0	8	N00-24	DIP24d
15♦	F100166DC	No	ECL	M	9	3.9n		-1.2	-1.5	20m	-1.0	7.0	0.5	1.2	0	7	N00-24	DIP24c
16♦	DM74LS460J		TTL	M	10	40n		2.0	0.8	8.0m	0.5	0	7.0		0	7	74LS460	DIP24e
17♦	DM74LS460N		TTL	M	10	40n		2.0	0.8	8.0m	0.5	0	7.0		0	7	74LS460	DIP24e
18♦	DM7130D		TTL	M	10	40n		2.0	0.8	16m	.40	0	5.0	240m†	5	C	N00-10	DIP16b
19	DM7130F		TTL	M	10	40n		2.0	0.8	16m	.40	0	5.0	240m†	5	C	N00-10	FP88b
20♦	DM7130J		TTL	M	10	40n		2.0	0.8	16m	0.4		5.0		5	C	N00-10	DIP24e
21♦	DM8130D		TTL	M	10	40n		2.0	0.8	16m	.40	0	5.0	240m†	0	7	N00-10	DIP16b
22	DM8130F		TTL	M	10	40n		2.0	0.8	16m	.40	0	5.0	240m†	0	7	N00-10	FP88b
23♦	DM8130N		TTL	M	10	40n		2.0	0.8	16m	.40	0	5.0	240m†	0	7	N00-10	DIP24a
24♦	SN74LS460JS		TTL	M	10	40n		2.0	0.8	8.0m	0.5		7.0		0	7	74LS460	DIP24e
25♦	SN74LS460NS		TTL	M	10	40n		2.0	0.8	8.0m	0.5		7.0		0	7	74LS460	DIP24e
26♦	DM54LS460J		TTL	M	10	45n		2.0	0.8	8.0m	0.5	0	7.0		5	C	74LS460	DIP24e
27	SN54LS460F		TTL	M	10	45n		2.0	0.8	8.0m	0.5		7.0		5	C	74LS460	FP180
28♦	SN54LS460JS		TTL	M	10	45n		2.0	0.8	8.0m	0.5		7.0		5	C	74LS460	DIP24e

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18. ARITHMETIC LOGIC UNITS - 2-bit

IN ORDER OF: (1) BITS (2) tpd MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] BITS	[2] tpd, MAX (s)	OPER MODE	NO. OF OPER. LOG	NO. OF OPER. ARITH.	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL, TEST (A)	VOL, MAX	SUPPLY VOLTAGE, RATED NEG. (V)	SUPPLY VOLTAGE, RATED POS. (V)	PD, RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
ALU, 2-BIT																			
4	MC10582F	ECT	2	7.5n	SUM	4	4	-.93	-1.6C	20m	-.93	5.2	0	718m	LACGO	5	C	U00-9	FP85
5♦	MC10582L	ECT	2	7.5n	SUM	4	4	-.93	-1.6C	20m	-.93	5.2	0	718m	LACGO	5	C	U00-9	DIP16a
6♦	MC10182L	ECT	2	12n	SUM	4	4	-.96	-1.6C			8.0	0	718m	LACGO	3	8	U00-9	DIP16a
7▼	MC10182LD	ECT	2	12n	SUM	4	4	-.96	-1.6C			8.0	0	718m	LACGO	3	8	U00-9	DIP16a
8▼	MC10182LDS	ECT	2	12n	SUM	4	4	-.96	-1.6C			8.0	0	718m	LACGO	3	8	U00-9	DIP16a
9♦	MC10182P	ECT	2	12n	SUM	4	4	-.96	-1.6C			8.0	0	718m	LACGO	3	8	U00-9	DIP16b
10▼	MC10182PD	ECT	2	12n	SUM	4	4	-.96	-1.6C			8.0	0	718m	LACGO	3	8	U00-9	DIP16b
11▼	MC10182PDS	ECT	2	12n	SUM	4	4	-.96	-1.6C			8.0	0	718m	LACGO	3	8	U00-9	DIP16b
ALU, 4-BIT																			
15♦	GXB10181	ECT	4			16	16	-.88	-1.7C	20m	-.96	5.2	0		LACGO	0	7	U00-8	DIP24a
16♦	K155IP3	TTL	4					2.4	0.4	150m		0	5.0			1	7	74-181	DIP24 ☑
17▼	M54HC181F1	CMS	4		DIFF	16	16						5.0		LACGO	5	C	54-181	DIP24a
18▼	M74HC181B1	CMS	4		DIFF	16	16						5.0		LACGO	4	8	74-181	DIP24 ☑
19▼	M74HC181F1	CMS	4		DIFF	16	16						5.0		LACGO	4	8	74-181	DIP24a
20♦	MB458	TTL	4			16	16	2.0	.50			0	5.0	450m†		0	7	74-181	DIP24a
21♦	MB458M	TTL	4			16	16	2.0	.50			0	5.0	450m†		0	7	74-181	DIP24b
22♦	MB10181	ECT	4					-.96	-1.6C			5.2	0	600m†		3	8	U00-8	DIP24a
23♦	MB10181M	ECT	4					-.96	-1.6C			5.2	0	600m†		3	8	U00-8	DIP24b
24♦	MC54HC181J(A)	CMS	4			16	16	3.15	0.9			0.5	7.0	500m	LACGO	5	C	74-181	DIP24e
25♦	MC74HC181J(A)	CMS	4			16	16	3.15	0.9			0.5	7.0	500m	LACGO	4	8	74-181	DIP24e
26♦	MC74HC181N(A)	CMS	4			16	16	3.15	0.9			0.5	7.0	500m	LACGO	4	8	74-181	DIP24a
27♦	MC10H181L	ECL	4	2.0n	LOG	16	16	-.81	-1.9			5.2	0			0	7	10-181	DIP24a
28▼	MC10H181LD	ECL	4	2.0n	LOG	16	16	-.81	-1.9			5.2	0			0	7	10-181	DIP24a
29▼	MC10H181LDS	ECL	4	2.0n	LOG	16	16	-.81	-1.9			5.2	0			0	7	10-181	DIP24a
30♦	MC10H181LS	ECL	4	2.0n	LOG	16	16	-.81	-1.9			5.2	0			0	7	10-181	DIP24e
31▼	MC10H181LW	ECL	4	2.0n	LOG	16	16	-.81	-1.9			5.2	0			0	7	10-181	DIP24a
32▼	MC10H181LWD	ECL	4	2.0n	LOG	16	16	-.81	-1.9			5.2	0			0	7	10-181	DIP24a
33▼	MC10H181LWDS	ECL	4	2.0n	LOG	16	16	-.81	-1.9			5.2	0			0	7	10-181	DIP24a
34♦	MC10H181P	ECL	4	2.0n	LOG	16	16	-.81	-1.9			5.2	0			0	7	10-181	DIP24a
35▼	MC10H181PD	ECL	4	2.0n	LOG	16	16	-.81	-1.9			5.2	0			0	7	10-181	DIP24a
36▼	MC10H181PDS	ECL	4	2.0n	LOG	16	16	-.81	-1.9			5.2	0			0	7	10-181	DIP24a
37♦	MC10H181PS	ECL	4	2.0n	LOG	16	16	-.81	-1.9			5.2	0			0	7	10-181	DIP24e
38▼	MC10H181PW	ECL	4	2.0n	LOG	16	16	-.81	-1.9			5.2	0			0	7	10-181	DIP24a
39▼	MC10H181PWD	ECL	4	2.0n	LOG	16	16	-.81	-1.9			5.2	0			0	7	10-181	DIP24a
40▼	MC10H181PWDS	ECL	4	2.0n	LOG	16	16	-.81	-1.9			5.2	0			0	7	10-181	DIP24a
41♦	HD100181F	TTL	4	4.0n		8	8	-1.1	-1.5			7.0	0	40m†	LACGO	0	8	U00-26	FP ☑
42♦	HD100181	TTL	4	4.2n		8	8	-1.1	-1.5			7.0	0	40m†	LACGO	0	8	U00-26	DIP24 ☑
43♦	GXB10181D	ECL	4	5.4n	LOG	16	16	-.70	-1.9			5.2	0		LACGO	3	8	U00-8	DIP24d
44♦	GXB10181P	ECL	4	5.4n	LOG	16	16	-.70	-1.9			5.2	0		LACGO	3	8	U00-8	DIP24b
45♦	100181Y(A)	ECL	4	7.2n	LOG	8	8	-1.1	-1.4		-1.6	4.5	0	922m†	LACGO	0	8	U00-26	FP173
46♦	100181F(A)	ECL	4	7.4n	LOG	8	8	-1.1	-1.4		-1.6	4.5	0	922m†	LACGO	0	8	U00-26	DIP24d
47	HXA100181D	ECL	4	7.9n	LOG	8	8	-1.8	-.88			4.5	0	950m	BCD	0	8	U00-26	DL ☑
48	HXA100181F	ECL	4	7.9n	LOG	8	8	-1.8	-.88			4.5	0	950m	BCD	0	8	U00-26	FP ☑
49	F100181FC	ECL	4	8.5n	LOG	8	8	-1.2	-1.5	20m	-1.0	7.0	0.5	1.1 Q		0	7	U00-26	FP126
50♦	F100181DC	ECL	4	8.7n	LOG	8	8	-1.2	-1.5	20m	-1.0	7.0	0.5	1.1 Q		0	7	U00-26	DIP24c
51♦	10181F	ECL	4	10n	SUM	16	16	-1.1	-1.4			5.2	0	676m†	LACGO	3	8	10-181	DIP24a
52♦	10181N	ECL	4	10n	SUM	16	16	-1.1	-1.4			5.2	0	676m†	LACGO	3	8	10-181	DIP24c
53♦	F10181DC	ECT	4	11n	SUM	16	16	-.96	-1.6C	20m	-.96	5.2	0	754mQ	LACGO	0	7	U00-21	DIP24b
54♦	F10581DM	ECT	4	11n	SUM	16	16	-.93	-1.6C	10m	-.96	5.2	0	754mQ	LACGO	5	C	U00-21	DIP24b
55	F10581FM	ECT	4	11n	SUM	16	16	-.93	-1.6C	10m	-.96	5.2	0	754mQ	LACGO	5	C	U00-21	FP66
56♦	MC10181L	ECT	4	11n	SUM	16	16	-.96	-1.6C			8.0	0	600m†	LACGO	3	8	10-181	DIP24a
57▼	MC10181LD	ECT	4	11n	SUM	16	16	-.96	-1.6C			8.0	0	600m†	LACGO	3	8	10-181	DIP24a
58▼	MC10181LDS	ECT	4	11n	SUM	16	16	-.96	-1.6C			8.0	0	600m†	LACGO	3	8	10-181	DIP24a
59♦	MC10181P	ECT	4	11n	SUM	16	16	-.96	-1.6C			8.0	0	600m†	LACGO	3	8	10-181	DIP24a
60▼	MC10181PD	ECT	4	11n	SUM	16	16	-.96	-1.6C			8.0	0	600m†	LACGO	3	8	10-181	DIP24a
61▼	MC10181PDS	ECT	4	11n	SUM	16	16	-.96	-1.6C			8.0	0	600m†	LACGO	3	8	10-181	DIP24a
62	MC10581F	ECT	4	11n	SUM	16	16	-.93	-1.6C	10m	-.93	5.2	0	600m†	LACGO	5	C	U00-8	FP85
63♦	MC10581L	ECT	4	11n	SUM	16	16	-.93	-1.6C	10m	-.93	5.2	0	600m†	LACGO	5	C	U00-8	DIP16b
64♦	HD10181	ECL	4	12n	LOG	16	16	-.81	-2C			5.2	0	200m		3	8	U00-21	DIP24b
65♦	N74F381D(A)	TTL	4	12n	LOG	3	3	2.0	0.8	40m	.5		5.0		LACGO	0	7	54LS381	FP170
66♦	N74F381N(A)	TTL	4	12n	LOG	3	3	2.0	0.8	40m	.5	0	5.0		LACGO	0	7	74S381	DIP20a
67▼	SN74AS1181DW	TTL	4	12n	SUM	6	16	2.0	0.8	48m	0.5	0.0	5.0		LACGO	0	7	74-181	FP170
68▼	SN74AS1181NT	TTL	4	12n	SUM	6	16	2.0	0.8	48m	0.5	0.0	5.0		LACGO	0	7	74-181	DIP24a
69♦	N74F382D(A)	TTL	4	13n	LOG	3	3	2.0	0.8	40m	.5	0	5.0		LACGO	0	7	74LS382	FP170
70♦	N74F382N(A)	TTL	4	13n	LOG	3	3	2.0	0.8	40m	.5	0	5.0		LACGO	0	7	74LS382	DIP20a
71♦	MC54F381J	TTL	4	14n	LOG	3	3	2.00	0.80	20m	0.5	0	5.5		LACO	5	C	74S381	DIP20b
72♦	MC54F381N	TTL	4	14n	LOG	3	3	2.00	0.80	20m	0.5	0	5.0		LACO	0	7	74LS381	DIP20b
73♦	MC74F381J	TTL	4	14n	LOG	3	3	2.0	0.8	20.0m	0.5	0	5.0		LACO	0	7	74S381	DIP20b
74♦	MC74F381N	TTL	4	14n	LOG	3	3	2.0	0.8	20.0m	0.5	0	5.0		LACO	0	7	74S381	DIP20b
75♦	54F381DM	TTL	4	15n	SUM	3	3	2.0	0.8	20m	0.5	0.5	7.0		LACO	5	C	74S381	DIP20b
76	54F381L1M	TTL	4	15n	SUM	3	3	2.0	0.8	20m	0.5	0.5	7.0		LACO	5	C	U00-35	LC19
77♦	54F382DM	TTL	4	15n	SUM	3	3	2.0	0.8	20m	0.5	0.5	7.0		LACO	5	C	74LS382	DIP20b
78	54F382L1M	TTL	4	15n	SUM	3	3	2.0	0.8	20m	0.5	0.5	7.0		LACO	5	C	U00-36	LC19
79♦	N74F181D(A)	TTL	4	15n	DIFF	16	16	2.0	0.8	20m	0.5	0	5.0		LACG	0	7	74-181	FP169
80♦	N74F181N(A)	TTL	4	15n	DIFF	16	16	2.0	0.8	20m	0.5	0	5.0		LACG	0	7	74-181	DIP24a
81♦	74F381DC	TTL	4	16n	SUM	3	3	2.0	0.8	20m	0.5	0.5	7.0		LACO	0	7	74S381	DIP20b
82	74F381L1C	TTL	4	16n	SUM	3	3	2.0	0.8	20m	0.5	0.5	7.0		LACO	0	7	U00-35	LC19
83♦	74F381PC	TTL	4	16n	SUM	3	3	2.0	0.8	20m	0.5	0.5	7.0		LACO	0	7	74S381	DIP20a
84	74F381QC	TTL	4	16n	SUM	3	3	2.0	0.8	20m	0.5	0.5	7.0		LACO	0	7	U00-35	LC26
85	74F381SC	TTL	4	16n	SUM	3	3	2.0	0.8	20m	0.5	0.5	7.0		LACO	0	7	54LS381	FP169
86♦	74F382DC	TTL	4	16n	SUM	3	3	2.0	0.8	20m	0.5	0.5	7.0		LACO	0	7	74LS382	DIP20b
87	74F382L1C	TTL	4	16n	SUM	3	3	2.0	0.8	20m	0.5	0.5	7.0		LACO	0	7	U00-36	LC19
88♦	74F382PC	TTL	4	16n	SUM	3	3	2.0	0.8	20m	0.5	0.5	7.0		LACO	0	7	74LS382	DIP20a
89	74F382QC	TTL	4	16n	SUM	3	3	2.0	0.8	20m	0.5	0.5	7.0		LACO	0	7	U00-36	LC26
90	74F382SC	TTL	4	16n	SUM	3	3	2.0	0.8	20m	0.5	0.5	7.0		LACO	0	7	54LS382	FP169
91	SN74AS381DW	TTL	4	18n	SUM	3	3	2.0	0.8	20m	0.5	0	7.0		LACGO	0	7	74S381	FP169
92▼	CY7C901-23DC	CMS	4	21n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0025	DIP40b
93▼	CY7C901-23JC	CMS	4	21n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0026	LC28
94▼	CY7C901-23LC	CMS	4	21n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0026	LC21
95▼	CY7C901-23PC	CMS	4	21n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0025	DIP40
96♦	DM74AS181BJ	TTL	4	21n	DIFF	16	16	2.0	0.8	20m	0.5	0	7.0		LACGO	0	7	74-181	DIP24a
97♦	DM74AS181BN	TTL	4	21n	DIFF	16	16	2.0	0.8	20m	0.5	0	7.0		LACGO	0	7	74-181	DIP24a
98♦	DM74AS881BJ	TTL	4	21n	DIFF	16	16	2.0	0.8	20m	0.5	0	7.0		LACGO	0	7	74-181	DIP24a
99♦	DM74AS881BN	TTL	4	21n	DIFF	16	16	2.0	0.8	20m	0.5	0	7.0		LACGO	0	7	74-181	DIP24a
100▼	SN74AS181ADW	TTL	4	21n	LOG	16	16	2.0	0.8	48m	0.5	0	5.0		LACGO	0	7	74-181N	FP170
101♦	SN74AS181ANT	TTL	4	21n	LOG	16	16	2.0	0.8	48m	0.5	0	5.0		LACGO	0	7	74-181N	DIP24e
102▼	SN74AS881ADW	TTL	4	21n	LOG	16	16	2.0	0.8	0.5	48m	0	5.0		LACGO	0	7	74AS881	FP170
103♦	SN74AS881AFN	TTL	4	21n	LOG	16	16	2.0	0.8	48m	0.5	0	5.00		LACGO	0	7	U00-34	LC20a
104♦	SN74AS881ANT	TTL	4	21n	LOG	16	16	2.0	0.8	0.5	48m	0	5.0		LACGO	0	7	74AS881	DIP24
105♦	54S181DM	TTL	4	23n	DIFF	16	16	2.0	0.8	20m	.50	0	5.0	675m	LACGO	5	C	74-181	DIP24b
106	54S181FM	TTL	4	23n	DIFF	16	16	2.0	0.8	20m	.50	0	5.0	675m	LACGO	5	C	54-181	FP66
107♦	74F582DC	TTL	4	23n	SUM		2	2.0	0.8	20m	0.5	0.5	5.0		LACGO	0	7	U00-37	DIP24a
108♦	74S181DC	TTL	4	23n	DIFF	16	16	2.0	0.8	20m	.50	0	5.0	750m	LACGO	0	7	74-181	DIP24b
109♦	74S181PC	TTL	4	23n	DIFF	16	16	2.0	0.8	20m	.50	0	5.0	750m	LACGO	0	7	74-181	DIP24a
110♦	93S41DC	TTL	4	23n	DIFF	16	16	2.0	0.8	20m	.50	0	5.0	750m	LACGO	0	7	74-181	DIP24b

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

18. ARITHMETIC LOGIC UNITS - 4-Bit (Cont'd)

IN ORDER OF: (1) BITS (2) tpd MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] BITS	[2] tpd, MAX (s)	OPER MODE	NO. OF OPER. LOG	NO. OF OPER. ARI TH.	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL, TEST (A)	VOL, MAX	SUPPLY VOLTAGE, RATED NEG. (V)	SUPPLY VOLTAGE, RATED POS. (V)	PD, RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1♦	93S41DM	TTL	4	23n	DIFF	16	16	2.0	0.8	20m	.50	0	5.0	675m	LACGO	5	C	74-181	DIP24b
2	93S41FM	TTL	4	23n	DIFF	16	16	2.0	0.8	20m	.50	0	5.0	675m	LACGO	5	C	54-181	FP66
3♦	93S41PC	TTL	4	23n	DIFF	16	16	2.0	0.8	20m	.50	0	5.0	750m	LACGO	0	7	74-181	DIP24a
4▼	N74F582D(A)	TTL	4	23n	SUM		2	2.0	0.8	20m	0.5	0.5	5.0		LACGO	0	7	U00-37	FP170
5▼	N74F582N(A)	TTL	4	23n	SUM		2	2.0	0.8	20m	0.5	0.5	5.0		LACGO	0	7	U00-37	DIP24a
6	N74S181W	TTL	4	23n	DIFF	16	16	2.0	0.8	20m	.50	0	5.0	1.1	LACGO	0	7	54-181	FP59b
7♦	S54S181N	TTL	4	23n	DIFF	16	16	2.0	0.8	20m	.50	0	5.0	800m	LACGO	5	C	74-181	DIP24a
8	S54S181W	TTL	4	23n	DIFF	16	16	2.0	0.8	20m	.50	0	5.0	800m	LACGO	5	C	54-181	FP59b
9▼	CY7C901-27DMB	CMS	4	24n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	5	C	U0025	DIP40b
10▼	CY7C901-27LMB	CMS	4	24n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	5	C	U0026	LC21
11	SN54S381J	TTL	4	25n	LOG	4	8	2.0	0.8	.01m	2.0	0	5.0	800m	LACGO	5	C	74S381	DL ☑
12	CD54HC181F(A)	CMS	4	26n	DIFF	16	16	3.15	1.35	20u	0.1	0.5	7.0	500m	LACGO	5	C	74-181	MO015AA
13	CD54HCT181F(A)	CMS	4	26n	DIFF	16	16	2.0	0.8	20u	0.1	0.5	7.0	500m	LACGO	5	C	74-181	MO015AA
14	CD74HC181E(A)	CMS	4	26n	DIFF	16	16	3.15	1.35	20u	0.1	0.5	7.0	500m	LACGO	4	8	74-181	MO015AA
15	CD74HC181M(A)	CMS	4	26n	DIFF	16	16	3.15	1.35	20u	0.1	0.5	7.0	300m	LACGO	4	8	54-181	FP170
16	CD74HCT181E(A)	CMS	4	26n	DIFF	16	16	2.0	0.8	20u	0.1	0.5	7.0	500m	LACGO	4	8	74-181	MO015AA
17	CD74HCT181M(A)	CMS	4	26n	DIFF	16	16	2.0	0.8	20u	0.1	0.5	7.0	300m	LACGO	4	8	54-181	FP170
18♦	DM54AS181BJ	TTL	4	26n	DIFF	16	16	2.0	0.8	20m	0.5	0	7.0		LACGO	5	C	74-181	DIP24a
19♦	DM54AS881BJ	TTL	4	26n	DIFF	16	16	2.0	0.8	20m	0.5	0	7.0		LACGO	5	C	74-181	DIP24a
20♦	SN74AS181AN	TTL	4	26n	LOG		16	2.0	0.8	20m	0.5	0	7.0		LACGO	0	7	74-181N	DIP24a
21♦	54F181DM	TTL	4	27n	DIFF	16	16	2.0	0.8	20m	0.5	0.5	7.0		LACGO	5	C	74-181	DIP24a
22	54F181FM	TTL	4	27n	DIFF	16	16	2.0	0.8	20m	0.5	0.5	7.0		LACGO	5	C	54-181	FP118
23	54F181L1M	TTL	4	27n	DIFF	16	16	2.0	0.8	20m	0.5	0.5	7.0		LACGO	5	C	U00-34	LC19a
24♦	9341DC	TTL	4	27n	DIFF	16	16	2.0	0.8	16m	.40	0	5.0	450m†	LACGO	0	7	74-181	DIP24b
25♦	9341DM	TTL	4	27n	DIFF	16	16	2.0	0.8	16m	.40	0	5.0	450m†	LACGO	0	7	74-181	DIP24b
26	9341FM	TTL	4	27n	DIFF	16	16	2.0	0.8	16m	.40	0	5.0	450m†	LACGO	0	7	54-181	FP66
27♦	9341PC	TTL	4	27n	DIFF	16	16	2.0	0.8	16m	.40	0	5.0	450m†	LACGO	0	7	74-181	DIP24a
28♦	74181DC	TTL	4	27n	DIFF	16	16	2.0	0.8			0	5.0	450m†	LACGO	0	7	74-181	DIP24b
29♦	74181PC	TTL	4	27n	DIFF	16	16	2.0	0.8			0	5.0	450m†	LACGO	0	7	74-181	DIP24a
30♦	DM54S181J	TTL	4	27n	SUM	16	16	2.0	0.8	20m	0.5		5.0		LACO	5	C	U00-2	DIP24a
31♦	DM54S381J	TTL	4	27n	SUM	3	3	2.0	0.8	20m	0.5		5.0		LACO	5	C	U00-15	DIP20b
32♦	MC54F181J	TTL	4	27n		16	16	2.0	0.8	20m	0.5	0	5.5			5	C	74-181	DIP20b
33▼	MC54F181N	TTL	4	27n		16	16	2.0	0.8	20m	0.5	0	5.5			5	C	74-181	DIP20b
34♦	MC74F181J	TTL	4	27n		16	16	2.0	0.8	20m	0.5	0	5.25			0	7	74-181	DIP20b
35♦	MC74F181N	TTL	4	27n		16	16	2.0	0.8	20m	0.5	0	5.25			0	7	74-181	DIP20b
36	SN54S381L	TTL	4	27n	LOG	5	3	2.0	0.8	20m	0.5		7.0	800m	LACG0	5	C	54LS381	LC16
37	SN54S381W	TTL	4	27n	LOG	5	3	2.0	0.8	20m	0.5		7.0	800m	LACG0	5	C	54LS381	FP183
38♦	SN74S381J	TTL	4	27n	LOG	5	3	2.0	0.8	20m	0.5	0	7.0	800m	LACGO	0	7	54LS381	DIP20b
39♦	54F582DM	TTL	4	28n	SUM		2	2.0	0.8	20m	0.5	0.5	7.0		LACGO	5	C	U00-37	DIP24a
40	54F582L1M	TTL	4	28n	SUM		2	2.0	0.8	20m	0.5	0.5	7.0		LACGO	5	C	U00-38	LC19a
41♦	54F582SDM	TTL	4	28n	SUM		2	2.0	0.8	20m	0.5	0.5	7.0		LACGO	5	C	U00-37	DIP24e
42	74F582L1C	TTL	4	28n	SUM		2	2.0	0.8	20m	0.5	0.5	7.0		LACGO	0	7	U00-38	LC19a
43♦	74F582PC	TTL	4	28n	SUM		2	2.0	0.8	20m	0.5	0.5	7.0		LACGO	0	7	U00-37	DIP24a
44	74F582QC	TTL	4	28n	SUM		2	2.0	0.8	20m	0.5	0.5	7.0		LACGO	0	7	U00-38	LC27
45	74F582SC	TTL	4	28n	SUM		2	2.0	0.8	20m	0.5	0.5	7.0		LACGO	0	7	U00-37	FP170
46♦	74F582SDC	TTL	4	28n	SUM		2	2.0	0.8	20m	0.5	0.5	7.0		LACGO	0	7	U00-37	DIP24e
47♦	74F582SPC	TTL	4	28n	SUM		2	2.0	0.8	20m	0.5	0.5	7.0		LACGO	0	7	U00-37	DIP24e
48♦	74F181DC	TTL	4	29n	DIFF	16	16	2.0	0.8	20m	0.5	0.5	7.0		LACGO	0	7	74-181	DIP24a
49	74F181L1C	TTL	4	29n	DIFF	16	16	2.0	0.8	20m	0.5	0.5	7.0		LACGO	0	7	U00-34	LC19a
50♦	74F181PC	TTL	4	29n	DIFF	16	16	2.0	0.8	20m	0.5	0.5	7.0		LACGO	0	7	74-181	DIP24a
51	74F181QC	TTL	4	29n	DIFF	16	16	2.0	0.8	20m	0.5	0.5	7.0		LACGO	0	7	U00-34	LC27
52	74F181SC	TTL	4	29n	DIFF	16	16	2.0	0.8	20m	0.5	0.5	7.0		LACGO	0	7	54-181	FP170
53▼	CY7C901-31DC	CMS	4	30n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0025	DIP40b
54▼	CY7C901-31JC	CMS	4	30n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0026	LC28
55▼	CY7C901-31LC	CMS	4	30n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0026	LC21
56▼	CY7C901-31PC	CMS	4	30n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0025	DIP40
57▼	CY2901CDC	CMS	4	30n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0025	DIP40
58▼	CY2901CDMB	CMS	4	30n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	5	C	U0025	DIP40
59▼	CY2901CPC	CMS	4	30n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0025	DIP40
60♦	DM74S181N	TTL	4	30n	DIFF	16	16	2.0	0.8			0	7.0		LACGO	0	7	U00-2	DIP24a
61♦	N74S181F	TTL	4	30n	DIFF	16	16	2.0	0.8	20m	.50	0	5.0	1.1	LACGO	0	7	74-181	DIP24a
62♦	N74S181N	TTL	4	30n	DIFF	16	16	2.0	0.8	20m	0.5	0.5	7.0	1.1	LACGO	0	7	74-181	DIP24e
63♦	S54S181F	TTL	4	30n	DIFF	16	16	2.0	0.8	20m	0.5	0.5	7.0	1.1	LACGO	5	C	74-181	DIP24a
64♦	SN54S181J	TTL	4	30n	DIFF	16	16	2.0	0.8	20m	0.5	0	7.0	1.1	LACGO	5	C	74-181	DIP24a
65	SN54S381-20L	TTL	4	30n	LOG	5	3	2.0	0.8	20m	0.5	0	7.0		LACGO	5	C	74S381	LC16
66	SN54S381-20W	TTL	4	30n	LOG	5	3	2.0	0.8	20m	0.5	0	7.0		LACGO	5	C	54LS381	FP143a
67	SN54S381F20	TTL	4	30n	LOG	5	3	2.0	0.8	20m	0.5	0	7.0		LACGO	5	C	54LS381	FP157
68♦	SN54S381J20	TTL	4	30n	LOG	5	3	2.0	0.8	20m	0.5	0	7.0		LACGO	5	C	74S381	DIP48
69♦	SN74S181J	TTL	4	30n	DIFF	16	16	2.0	0.8	20m	0.5	0	7.0	1.1	LACGO	0	7	74-181	DIP24a
70♦	SN74S181N	TTL	4	30n	DIFF	16	16	2.0	0.8	20m	0.5	0	7.0	1.1	LACGO	0	7	74-181	DIP24a
71♦	SN74S381J20	TTL	4	30n	LOG	5	3	2.0	0.8	20m	0.5	0	7.0		LACGO	0	7	74S381	DIP48
72♦	SN74S381N20	TTL	4	30n	LOG	5	3	2.0	0.8	20m	0.5	0	7.0		LACGO	0	7	74S381	DIP48
73▼	CY8C901-31DC(A)	CMS	4	31n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0025	DIP40b
74▼	CY8C901-31JC(A)	CMS	4	31n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0026	LC28
75▼	CY8C901-31LC(A)	CMS	4	31n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0026	LC21
76▼	CY8C901-31PC(A)	CMS	4	31n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0025	DIP40
77▼	CY8C901-32DMB(A)	CMS	4	31n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	5	C	U0025	DIP40b
78▼	CY8C901-32LMB(A)	CMS	4	31n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	5	C	U0026	LC21
79♦	AM2506DC	TTL	4	32n	DIFF	16	16	2.0	0.8	16m	.40	0	5.0	750mQ	W/Lat	0	7	U00-16	DIP24a
80♦	AM2506PC	TTL	4	32n	DIFF	16	16	2.0	0.8	16m	.40	0	5.0	750mQ	W/Lat	0	7	U00-16	DIP24a
81♦	9340DC	TTL	4	33n	DIFF	6	2	1.8	.85	16m	.45	0	5.0	425m†	LACGO	0	7	U00-13	DIP24b
82♦	9340DM	TTL	4	33n	DIFF	6	2	1.7	.90	16m	.40	0	5.0	425m†	LACGO	5	C	U00-13	DIP24b
83	9340FM	TTL	4	33n	DIFF	6	2	1.7	.90	16m	.40	0	5.0	425m†	LACCO	5	C	U00-13	FP66
84♦	9340PC	TTL	4	33n	DIFF	6	2	1.8	.85	16m	.45	0	5.0	425m†	LACGO	0	7	U00-13	DIP24a
85▼	HD74HC181P	CMS	4	33n	DIFF	16	16	3.15	1.35	20u	0.1	0	5.0	500m	LAGGO	4	8	74-181N	DIP24e
86♦	N8260F	TTL	4	33n	SUM	2	1	2.6	0.4	9.6m	.40	0	5.0	600m	LACGO	0	7	U00-5	DIP24b
87♦	N8260N	TTL	4	33n	SUM	2	1	2.6	0.4	9.6m	.40	0	5.0	600m	LACGO	0	7	U00-5	DIP24a
88	N8260Q	TTL	4	33n	SUM	2	1	2.6	0.4	9.6m	.40	0	5.0	600m	LACGO	0	7	U00-5	FP59b
89♦	S8260F	TTL	4	33n	SUM	2	1	2.6	0.4	9.6m	.40	0	5.0	600m	LACGO	5	C	U00-5	DIP24b
90♦	SN54LS381AJ	TTL	4	33n	SUM	3	3	2.0	0.7	4.0m	0.4	0	7.0		LACGO	5	C	74S381	DIP20b
91	SN74LS381ADW	TTL	4	33n	SUM	3	3	2.0	0.8	8.0m	0.5	0	7.0		LACGO	0	7	74S381	FP169
92♦	SN74LS381AN	TTL	4	33n	SUM	3	3	2	0.8	8.0m	0.5	0	7.0	341m	LACGO	0	7	74S381	DIP20a
93♦	SN74S381N	TTL	4	33n	SUM	3	3	2.0	0.8	20m	0.5	0	7.0	525m†	LACGO	0	7	74S381	DIP20a
94	74HC181D	CMS	4	34n	DIFF	16	16	3.15	1.35	20m	0.1		5.0		LACO	4		74-181	FP170
95♦	74HC181N	CMS	4	34n	DIFF	16	16	3.15	1.35	20m	0.1		5.0		LACO	4		74-181	DIP24a
96♦	DM74S381N	TTL	4	34n	SUM	8	8	2.0	0.8	20m	0.5	0	7.0		LACGO	0	7	74S381	DIP20b
97♦	PC74HC181P	CMS	4	34n	DIFF	16	16	3.15	1.35	20u	0.1	0	5.0	500m	LACO	4	8	74-181	DIP24
98	PC74HC181T	CMS	4	34n	DIFF	16	16	3.15	1.35	20u	0.1	0	5.0	300m	LACO	4	8	74-181	FP170
99	93L41FM	TTL	4	35n	DIFF	16	16	2.0	0.7			0	5.0	120m†	LACGO	5	C	54-181	FP66
100♦	AM25LS381DC	TTL	4	35n	SUM	3	3	2.0	0.8	4.0m	.40	0	5.0	246m	LACGO	0	7	74S381	DIP20b
101♦	AM25LS381DCB	TTL	4	35n	SUM	3	3	2.0	0.8	4.0m	0.4	0.5	7.0		LACO	0	7	74S381	DIP20b
102♦	AM25LS381DMB	TTL	4	35n	SUM	3	3	2.0	0.7	4.0m	0.4	0.5	7.0		LACO	5	C	74S381	DIP20b
103	AM25LS381FMB	TTL	4	35n	SUM	3	3	2.0	0.7	4.0m	0.4	0.5	7.0		LACO	5	C	54LS381	FP143
104♦	AM25LS381PC	TTL	4	35n	SUM	3	3	2.0	0.8	4.0m	.40	0	5.0	246m	LACGO	0	7	74S381	DIP20b
105♦	AM25LS381PCB	TTL	4	35n	SUM	3	3	2.0	0.8	4.0m	0.4	0.5	7.0		LACO	0	7	74S381	DIP20b
106♦	AM25LS2517DC	TTL	4	35n	SUM	3	3	2.0	0.8	4.0m	.40	0	5.0	246m	Ovrfl	0	7	74LS382	DIP20b
107♦	AM25LS2517DCB	TTL	4	35n	SUM	3	3	2.0	0.8	4.0m	0.4	0.5	7.0		LACO	0	7	74LS382	DIP20b
108♦	AM25LS2517DMB	TTL	4	35n	SUM	3	3	2.0	0.7	4.0m	0.4	0.5	7.0		LACO	5	C	74LS382	DIP20b
109	AM25LS2517FMB	TTL	4	35n	SUM	3	3	2.0	0.7	4.0m	0.4	0.5	7.0			5	C	54LS382	FP143
110	AM25LS2517LC	TTL	4	35n	SUM	3	3	2.0	0.8	4.0m	0.4	0.5	7.0			0	7	74LS382	LC17

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

18. ARITHMETIC LOGIC UNITS - 4-Bit (Cont'd)

IN ORDER OF: (1) BITS (2) tpd MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] BITS	[2] tpd, MAX (s)	OPER MODE	NO. OF OPER. LOG	NO. OF OPER. ARI TH.	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL, TEST (A)	VOL, MAX	SUPPLY VOLTAGE, RATED NEG. (V)	SUPPLY VOLTAGE, RATED POS. (V)	PD, RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
1	AM25LS2517LM	TTL	4	35n	SUM	3	3	2.0	0.7	4.0m	0.4	0.5	7.0			5	C	74LS382	LC17
2	AM25LS2517LMB	TTL	4	35n	SUM	3	3	2.0	0.7	4.0m	0.4	0.5	7.0			5	C	74LS382	LC17
3♦	AM25LS2517PC	TTL	4	35n	SUM	3	3	2.0	0.8	4.0m	.40	0	5.0	246m	Ovrfl	0	7	74LS382	DIP20b
4♦	AM25LS2517PCB	TTL	4	35n	SUM	3	3	2.0	0.8	4.0m	0.4	0.5	7.0		LACO	0	7	74LS382	DIP20b
5	74HCT181D	CMS	4	36n	DIFF	16	16	2.0	0.8	20m	0.1		5.0		LACO	4		74-181	FP170
6♦	74HCT181N	CMS	4	36n	DIFF	16	16	2.0	0.8	20m	0.1		5.0		LACO	4		74-181	DIP24a
7♦	PC54HC181D(A)	CMS	4	36n	DIFF	16	16	3.15	0.9	20u	0.1	0.5	7.0	500m	LACO	5	C	74-181	DIP24b
8♦	PC54HCT181D(A)	CMS	4	36n	DIFF	16	16	2.0	0.8	20u	0.1	0.5	7.0	500m	LACO	5	C	74-181	DIP24b
9♦	PC74HC181D(A)	CMS	4	36n	DIFF	16	16	3.15	0.9	20u	0.1	0.5	7.0	500m	LACO	4	8	74-181	DIP24b
10♦	PC74HCT181D(A)	CMS	4	36n	DIFF	16	16	2.0	0.8	20u	0.1	0.5	7.0	500m	LACO	4	8	74-181	DIP24b
11♦	PC74HCT181P	CMS	4	36n	DIFF	16	16	2.0	0.8	20u	0.1	0	5.0	500m	LACO	4	8	74-181	DIP24
12	PC74HCT181T	CMS	4	36n	DIFF	16	16	2.0	0.8	20u	0.1	0	5.0	300m	LACO	4	8	74-181	FP170
13▼	CY7C901-32DMB	CMS	4	37n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	5	C	U0025	DIP40b
14▼	CY7C901-32LMB	CMS	4	37n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	5	C	U0026	LC21
15▼	CY7C901-69DC	CMS	4	38n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0025	DIP40b
16▼	CY7C901-69JC	CMS	4	38n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0026	LC28
17▼	CY7C901-69LC	CMS	4	38n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0026	LC21
18▼	CY7C901-69PC	CMS	4	38n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0025	DIP40
19▼	CY2901BDC	CMS	4	38n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0025	DIP40
20▼	CY2901BDMB	CMS	4	38n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	5	C	U0025	DIP40
21▼	CY2901BPC	CMS	4	38n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	0	7	U0025	DIP40
22▼	HD74HC881FP	CMS	4	38n	LOG			3.15	1.35	4.0m	0.33	0	5.0	500m		4	8	74-181	FP ☑
23▼	HD74HC881P	CMS	4	38n	LOG			3.15	1.35	4.0m	0.33	0	5.0	500m		4	8	74-181	DIP24
24♦	AM54LS381DC	TTL	4	40n	SUM	3	3	2.0	0.8	4.0m	0.4	0.5	7.0		LACO	0	7	74S381	DIP20b
25♦	AM54LS381DCB	TTL	4	40n	SUM	3	3	2.0	0.8	4.0m	0.4	0.5	7.0		LACO	0	7	74S381	DIP20b
26♦	AM54LS381DM	TTL	4	40n	SUM	3	3	2.0	0.7	4.0m	0.4	0.5	7.0		LACO	5	C	74S381	DIP20b
27♦	AM54LS381DMB	TTL	4	40n	SUM	3	3	2.0	0.7	4.0m	0.4	0.5	7.0		LACO	5	C	74S381	DIP20b
28	AM54LS381FM	TTL	4	40n	SUM	3	3	2.0	0.7	4.0m	0.4	0.5	7.0		LACO	5	C	54LS381	FP143
29	AM54LS381FMB	TTL	4	40n	SUM	3	3	2.0	0.7	4.0m	0.4	0.5	7.0		LACO	5	C	54LS381	FP143
30♦	AM54LS381PC	TTL	4	40n	SUM	3	3	2.0	0.8	4.0m	0.4	0.5	7.0		LACO	0	7	74S381	DIP20b
31♦	AM54LS381PCB	TTL	4	40n	SUM	3	3	2.0	0.8	4.0m	0.4	0.5	7.0		LACO	0	7	74S381	DIP20b
32♦	AM74LS381DC	TTL	4	40n	SUM	3	3	2.0	0.8	4.0m	0.4	0.5	7.0		LACO	0	7	74S381	DIP20b
33♦	AM74LS381DCB	TTL	4	40n	SUM	3	3	2.0	0.8	4.0m	0.4	0.5	7.0		LACO	0	7	74S381	DIP20b
34♦	AM74LS381DM	TTL	4	40n	SUM	3	3	2.0	0.7	4.0m	0.4	0.5	7.0		LACO	5	C	74S381	DIP20b
35♦	AM74LS381DMB	TTL	4	40n	SUM	3	3	2.0	0.7	4.0m	0.4	0.5	7.0		LACO	5	C	74S381	DIP20b
36	AM74LS381FM	TTL	4	40n	SUM	3	3	2.0	0.7	4.0m	0.4	0.5	7.0		LACO	5	C	54LS381	FP143
37	AM74LS381FMB	TTL	4	40n	SUM	3	3	2.0	0.7	4.0m	0.4	0.5	7.0		LACO	5	C	54LS381	FP143
38♦	AM74LS381PC	TTL	4	40n	SUM	3	3	2.0	0.8	4.0m	0.4	0.5	7.0		LACO	0	7	74S381	DIP20b
39♦	AM74LS381PCB	TTL	4	40n	SUM	3	3	2.0	0.8	4.0m	0.4	0.5	7.0		LACO	0	7	74S381	DIP20b
40♦	SN74LS381J	TTL	4	40n	SUM	3	3	2.0	0.8			0	5.0		LACGO	0	7	74S381	DIP20b
41♦	SN74LS381N	TTL	4	40n	SUM	3	3	2.0	0.8			0	5.0		LACGO	0	7	74S381	DIP20b
42	SN74LS382DW	TTL	4	42n	SUM	3	3	2.0	0.8	8.0m	0.5	0	7.0		LACGO	0	7	74LS382	FP169
43▼	CY7C901-88DMB	CMS	4	44n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	5	C	U0025	DIP40b
44▼	CY7C901-88LMB	CMS	4	44n	SUM	8	8	2.0	0.8	20m	0.4	0.0	5.0		LACGO	5	C	U0026	LC21
45♦	DM54181J	TTL	4	50n	DIFF	16	16	2.0	0.8	16m	.40	0	5.0	700m	LACGO	5	C	74-181	DIP24a
46♦	DM74181J	TTL	4	50n	DIFF	16	16	2.0	0.8	16m	.40	0	5.0	700m	LACGO	0	7	74-181	DIP24a
47♦	DM74181N	TTL	4	50n	DIFF	16	16	2.0	0.8	16m	.40	0	5.0	700m	LACGO	0	7	74-181	DIP24a
48♦	N74LS181F	TTL	4	50n	DIFF	16	16	2.0	0.8	8.0m	.50	0	5.0	185m	LACGO	0	7	74-181	DIP24a
49♦	N82S82F	TTL	4	50n	DIFF	2	2	2.6	.50C	16m	.50	0	5.0	610m	BCDA	0	7	U00-7	DIP24a
50♦	N82S82N	TTL	4	50n	DIFF	2	2	2.6	.50C	16m	.50	0	5.0	610m	BCDA	0	7	U00-7	DIP24a
51♦	N74181F	TTL	4	50n	DIFF	16	16	2.0	0.8	16m	.40	0	5.0	750m	LACGO	0	7	74-181	DIP24a
52♦	N74181N	TTL	4	50n	DIFF	16	16	2.0	0.8	16m	0.4	0.5	7.0	750m	LACGO	0	7	74-181	DIP24e
53♦	S54LS181N	TTL	4	50n	DIFF	16	16	2.0	0.8	4.0m	.40	0	5.0	175m	LACGO	5	C	74-181	DIP24a
54	S54LS181Q	TTL	4	50n	DIFF	16	16	2.0	0.8	4.0m	.40	0	5.0	175m	LACGO	5	C	54-181	FP59b
55♦	S82S82F	TTL	4	50n	DIFF	2	2	2.0	.50C	16m	.50	0	5.0	620m	BCDA	5	C	U00-7	DIP24b
56♦	S82S82N	TTL	4	50n	DIFF	2	2	2.6	.50C	16m	.50	0	5.0	620m	BCDA	5	C	U00-7	DIP24a
57♦	S54181F	TTL	4	50n	DIFF	16	16	2.0	0.8	16m	0.4	0.5	7.0	675m	LACGO	5	C	74-181	DIP24a
58♦	S54181N	TTL	4	50n	DIFF	16	16	2.0	0.8	16m	.40	0	5.0	675m	LACGO	5	C	74-181	DIP24a
59	S54181Q	TTL	4	50n	DIFF	16	16	2.0	0.8	16m	.40	0	5.0	675m	LACGO	5	C	54-181	FP59b
60♦	SFC4181E	TTL	4	50n	DIFF	16	16	2.4	0.4C	16m	.40	0	5.0	750m	LACO	0	7	74-181	DIP24a
61♦	SFC4181EM	TTL	4	50n	DIFF	16	16	2.4	0.4C	16m	.40	0	5.0	675m	LACO	5	C	74-181	DIP24a
62♦	SFC4181ET	TTL	4	50n	DIFF	16	16	2.4	0.4C	16m	.40	0	5.0	750m	LACO	-	8	74-181	DIP24a
63♦	SFC4181JM	TTL	4	50n	DIFF	16	16	2.4	0.4C	16m	.40	0	5.0	675m	LACO	5	C	74-181	DIP24a
64♦	SFC4181KM	TTL	4	50n	DIFF	16	16	2.4	0.4C	16m	.40	0	5.0	675m	LACO	5	C	74-181	DIP24a
65♦	SN54181J	TTL	4	50n	DIFF	16	16	2.0	0.8	16m	0.4	0	7.0	675m	LACGO	5	C	74-181	DIP24a
66♦	SN74181N	TTL	4	50n	DIFF	16	16	2.0	0.8	16m	0.4	0	7.0	750m	LACGO	0	7	74-181	DIP24a
67♦	SN54LS681J	TTL	4	55n	SUM	16	16	2.0	0.7	12m	0.4	0	7.0		LACGO	5	C	74LS681	DIP20b
68♦	SN74LS681N	TTL	4	55n	SUM	16	16	2.0	0.8	24m	0.5	0	7.0		LACGO	0	7	74LS681	DIP20a
69♦	MM74HC181J(A)	CMS	4	60n	LOG	16	15	4.2	1.2	4.0m	400m	0.5	7.0	500m	LACGO	4	8	74-181	DIP24d
70♦	MM74HC181N(A)	CMS	4	60n	LOG	16	15	4.2	1.2	4.0m	400m	0.5	7.0	500m	LACGO	4	8	74-181	DIP24e
71▼	TC74HC181P(A)	CMS	4	60n	SUM	4	16	3.15	1.35	4.0m	0.33	0	5.0	500m	LAGGO	4	8	74-181N	DIP24e
72	54LS181FM	TTL	4	62n	DIFF	16	16	2.0	0.7	4.0m	.40	0	5.0	175m	LACGO	5	C	54-181	FP66
73♦	74LS181PC	TTL	4	62n	DIFF	16	16	2.0	0.8	8.0m	.50	0	5.0	185m	LACGO	0	7	74-181	DIP24a
74▼	HD74LS181G	TTL	4	62n	LOG	16	16	2.0	0.8	8.0m	0.5	0	5.0	400m	LAGG	2	7	74-181	DIP24a
75♦	HD74LS181P	TTL	4	62n	LOG	16	16	2.0	0.8	8.0m	0.5	0	5.0	400m	LACG	2	7	74-181	DIP24a
76♦	MB74LS181	TTL	4	62n	DIFF	16	16	2.0	0.8	8.0m	.50	0	5.0	185m	LACGO	2	7	74-181	DIP24a
77♦	MB74LS181M	TTL	4	62n	DIFF	16	16	2.0	0.8	8.0m	.50	0	5.0	185m	LACGO	2	7	74-181	DIP24a
78♦	N74LS181N	TTL	4	62n	DIFF	16	16	2.0	0.8	8.0m	0.5	0.5	7.0	185m	LACGO	0	7	74-181	DIP24e
79♦	S54LS181F	TTL	4	62n	DIFF	16	16	2.0	0.7	4.0m	0.4	0.5	7.0	175m	LACGO	5	C	74-181	DIP24a
80	S54LS181W	TTL	4	62n	DIFF	16	16	2.0	0.7	4.0m	0.4	0.5	7.0	175m	LACGO	5	C	54-181	FP59c
81♦	SN54LS181J	TTL	4	62n	DIFF	16	16	2.0	0.8	4.0m	0.4	0	7.0		LACGO	5	C	74-181	DIP24a
82▼	SN54LS181N	TTL	4	62n	DIFF	16	16	2.0	0.8	4.0m	0.4	0	7.0		LACGO	5	C	74-181	DIP24a
83♦	SN74LS181J	TTL	4	62n	DIFF	16	16	2.0	0.8	8.0m	0.5	0	7.0		LACGO	0	7	74-181	DIP24a
84♦	SN74LS181N	TTL	4	62n	DIFF	16	16	2.0	0.8	8.0m	0.5	0	7.0		LACGO	0	7	74-181	DIP24a
85♦	MM54HC181J(A)	CMS	4	72n	LOG	16	15	4.2	1.2	4.0m	400m	0.5	7.0	500m	LACGO	5	C	74-181	DIP24d
86♦	AM25L06DC	TTL	4	80n	DIFF	16	16	2.0	0.7	4.9m	.30	0	5.0	125m†	W/Lat	0	7	U00-16	DIP24a
87♦	AM25L06PC	TTL	4	80n	DIFF	16	16	2.0	0.7	4.9m	.30	0	5.0	125m†	W/Lat	0	7	U00-16	DIP24a
88	883C4581B	CMS	4	240n	LOG	16	16	8.2	6.7	3.4m	1.5	0	15	300m	LACO	5	C	74-181	MO015AA
89	BCL4581B	CMS	4	240n	LOG	16	16	8.2	6.7	3.4m	1.5	0	15	300m	LACO	5	C	74-181	MO015AA
90	CD40181BD	CMS	4	320n	LOG	16	16	7.0	3.0	1.3m	0.5	0.5	20	500m	LACO	5	C	74-181	MO015AG
91	CD40181BE	CMS	4	320n	LOG	16	16	7.0	3.0	1.3m	0.5	0.5	20	500m	LACO	4	8	74-181	MO015AA
92	CD40181BF	CMS	4	320n	LOG	16	16	7.0	3.0	1.3m	0.5	0.5	20	500m	LACO	5	C	74-181	MO015AA
93	SCL4581B	CMS	4	370n	SUM	16	16	9.99	.01C	1.3m	.50	0	15	300m	LACG	5	C	74-181	None
94♦	MC14581BAL	CMS	4	375n	DIFF	16	16	11.0	4.0	3.0m	1.5	0	15	300uQ	LACO	5	C	74-181	DIP24a
95▼	MC14581BALD	CMS	4	375n	DIFF	16	16	11.0	4.0	3.0m	1.5	0	15	300uQ	LACO	5	C	74-181	DIP24a
96▼	MC14581BALDS	CMS	4	375n	DIFF	16	16	11.0	4.0	3.0m	1.5	0	15	300uQ	LACO	5	C	74-181	DIP24a
97▼	MC14581BALS	CMS	4	375n	DIFF	16	16	11.0	4.0	3.0m	1.5	0	15	300uQ	LACO	5	C	74-181	DIP24a
98	CD4057AD	CMS	4	720n	SUM	7	9	9.95	0.05C	90u	.50	0.5	15	500m	4 MOD	5	C	40-57A	MO015AH
99	HBC4057AD	CMS	4	720n	SUM	7	9	9.95	.05C	90u	.50	0	10	100uQ	4 MOD	5	C	40-57A	MO015AH
100	HBF4057AD	CMS	4	720n	SUM	7	9	9.95	.05C	90u	.50	0	10	100uQ	4 MOD	4	8	40-57A	MO015AH
101♦	MC14581BCL	CMS	4	750n	DIFF	16	16	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO	4	8	74-181	DIP24a
102▼	MC14581BCLD	CMS	4	750n	DIFF	16	16	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO	4	8	74-181	DIP24a
103▼	MC14581BCLDS	CMS	4	750n	DIFF	16	16	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO	4	8	74-181	DIP24a
104▼	MC14581BCLS	CMS	4	750n	DIFF	16	16	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO	4	8	74-181	DIP24a
105♦	MC14581BCP	CMS	4	750n	DIFF	16	16	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO	4	8	74-181	DIP24a
106▼	MC14581BCPD	CMS	4	750n	DIFF	16	16	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO	4	8	74-181	DIP24a
107▼	MC14581BCPDS	CMS	4	750n	DIFF	16	16	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO	4	8	74-181	DIP24a
108▼	MC14581BCPS	CMS	4	750n	DIFF	16	16	11.0	4.0	3.0m	1.5	0	15	1.2mQ	LACO	4	8	74-181	DIP24a

ALU, 16-BIT

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

18. ARITHMETIC LOGIC UNITS - 16-Bit

IN ORDER OF: (1) BITS (2) tpd MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] BITS	[2] tpd, MAX (s)	[2] tpd, MAX OPER MODE	NO. OF OPER. LOG	NO. OF OPER. ARITH.	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL, TEST (A)	VOL, MAX	SUPPLY VOLTAGE, RATED NEG. (V)	SUPPLY VOLTAGE, RATED POS. (V)	PD, RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING	
1																				
2	L4C381GC	CMS	16			3	3	2.0	0.8	8.0m	0.5	0	5.0		LACG	0	7	U00-44	PG68A	
3	L4C381GM	CMS	16			3	3	2.0	0.8	8.0m	0.5	0	5.0		LACG	0	7	U00-44	PG68A	
4	L4C381JC	CMS	16			3	3	2.0	0.8	8.0m	0.5	0	5.0		LACG	0	7	U00-44	LC53	
5	L4C381JM	CMS	16			3	3	2.0	0.8	8.0m	0.5	0	5.0		LACG	5	7	U00-44	LC53	
6	L4C381KC	CMS	16			3	3	2.0	0.8	8.0m	0.5	0	5.0		LACG	0	7	U00-44	LC23	
7	L4C381KM	CMS	16			3	3	2.0	0.8	8.0m	0.5	0	5.0		LACG	0	7	U00-44	LC23	
8	L4C381LC	CMS	16			3	3	2.0	0.8	8.0m	0.5	0	5.0		LACG	0	7	U00-44	LC53	
9	L4C381LM	CMS	16			3	3	2.0	0.8	8.0m	0.5	0	5.0		LACG	0	7	U00-44	LC53	
10♦	L429C01D	CMS	16			5	3	2.0	0.8	8.0m	0.5	5.0	7.0		LACO	5		U00-45	DIP64a	
11♦	L429C01G	CMS	16			5	3	2.0	0.8	8.0m	0.5	5.0	7.0		LACO	5		U00-45a	PG68a	
12	L429C01J	CMS	16			5	3	2.0	0.8	8.0m	0.5	5.0	7.0		LACO	5		U00-45a	LC30	
13	L429C01K	CMS	16			5	3	2.0	0.8	8.0m	0.5	5.0	7.0		LACO	5		U00-45	LC13	
14♦	L429C01P	CMS	16			5	3	2.0	0.8	8.0m	0.5	5.0	7.0		LACO	5		U00-45	DIP64a	
15▼	CY7C9101-28DMB(A)	CMS	16	33n	SUM	5	3	2.0	0.8	16.0m	0.4	0.0	5.0			5	C	U00-27	DIP64a	
16▼	CY7C9101-28LMB(A)	CMS	16	33n	SUM	5	3	2.0	0.8	16.0m	0.4	0.0	5.0			5	C	U00-27a	LC13	
17▼	CY7C9101-31DC(A)	CMS	16	36n	SUM	5	3	2.0	0.8	16.0m	0.4	0.0	5.0			0	7	U00-27	DIP64a	
18▼	CY7C9101-31JC(A)	CMS	16	36n	SUM	5	3	2.0	0.8	16.0m	0.4	0.0	5.0			0	7	U00-27a	LC30	
19▼	CY7C9101-31LC(A)	CMS	16	36n	SUM	5	3	2.0	0.8	16.0m	0.4	0.0	5.0			0	7	U00-27a	LC13	
20▼	CY7C9101-31PC(A)	CMS	16	36n	SUM	5	3	2.0	0.8	16.0m	0.4	0.0	5.0			0	7	U00-27	DIP64	
21▼	CY7C9101-36DMB(A)	CMS	16	43n	SUM	5	3	2.0	0.8	16.0m	0.4	0.0	5.0			5	C	U00-27	DIP64a	
22▼	CY7C9101-36LMB(A)	CMS	16	43n	SUM	5	3	2.0	0.8	16.0m	0.4	0.0	5.0			5	C	U00-27a	LC13	
23▼	CY7C9101-24DC(A)	CMS	16	29	SUM	5	3	2.0	0.8	16.0m	0.4	0.0	5.0			0	7	U00-27	DIP64a	
24▼	CY7C9101-24JC(A)	CMS	16	29	SUM	5	3	2.0	0.8	16.0m	0.4	0.0	5.0			0	7	U00-27a	LC30	
25▼	CY7C9101-24LC(A)	CMS	16	29	SUM	5	3	2.0	0.8	16.0m	0.4	0.0	5.0			0	7	U00-27a	LC13	
26▼	CY7C9101-24PC(A)	CMS	16	29	SUM	5	3	2.0	0.8	16.0m	0.4	0.0	5.0			0	7	U00-27	DIP64	
ALU, FLOATING POINT																				
30▼	TMC3033J3A	CMS	16	35n	LOG		2	2.0	0.8	4.0m	0.4		5.0			5	C	X00-51	DIP64a	
31▼	TMC3033J3A1	CMS	16	300n	LOG		2	2.0	0.8	4.0m	0.4		5.0			5	C	X00-51	DIP64a	
32▼	TMC3033J3C1	CMS	16	300n	LOG		2	2.0	0.8	4.0m	0.4		5.0			0	7	X00-51	DIP64a	
33▼	TMC3033J3C	CMS	16	375n	LOG		2	2.0	0.8	4.0m	0.4		5.0			0	7	X00-51	DIP64a	
34♦	TDC1033(A)	BIP	22			5	8					0						U00-31	LC	☑
35♦	TDC1022J1C	TTL	22	200n	LOG		8	2.0T	0.8	4.0m	0.5	0.5	7.0			5	C	U00-28	DIP64a	
36♦	TDC1022J1G(A)	TTL	22	200n	LOG		8	2.0T	0.8	4.0m	0.6	0.5	7.0			0	7	U00-28	DIP64a	
37♦	TMC3200C	CMS	34					2.0T	0.8	4.0m	0.4	0	5.0			0	7	U00-41	LC84	☑

Digital ICs qualified to military screening levels are presented in D.A.T.A.'s quarterly MILITARY ELECTRONIC DEVICES GUIDE.

19. LOOK-AHEAD CARRY GENERATORS – 4-Bit Devices

IN ORDER OF: (1) BITS (2) tpd MAX
(3) TECH & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	3 TECH	1 BITS	2 tpd MAX (s)	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG (V)	POS (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP RANGE CODE -	+	CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
LOOK-AHEAD CARRY GENERATOR, 4-BIT																	
4♦	MB10179		4		-.96	-1.6C			5.2	0	300mt		3	8	1	S00-4	DIP16b
5♦	MB10179M		4		-.96	-1.6C			5.2	0	300mt		3	8	1	S00-4	DIP16b
6▼	M54HC182F1	CMS	4							5.0			5	C	1	54-182	DIP16a
7▼	M74HC182B1	CMS	4							5.0			4	8	1	74-182N	DIP16a
8▼	M74HC182C1	CMS	4							5.0			4	8	1	S00-12	LC19
9▼	M74HC182F1(A)	CMS	4							5.0			4	8	1	74-182N	DIP16a
10♦	MC54HC182J(A)	CMS	4		3.15	0.9			0.5	7.0	500m		5	C	1	74-182	DIP16a
11♦	MC74HC182J(A)	CMS	4		3.15	0.9			0.5	7.0	500m		4	8	1	74-182	DIP16a
12♦	MC74HC182N(A)	CMS	4		3.15	0.9			0.5	7.0	500m		4	8	1	74-182	DIP16b
13♦	MB459	TTL	4		2.0	0.8			0	5.0	180mt		0	7	1	74-182	DIP16b
14♦	MB459M	TTL	4		2.0	0.8			0	5.0	180mt		0	7	1	74-182	DIP16b
15♦	HD100179	TTL	4	2.4n	-1.1	-1.5			7.0	0	40mt	Use w/HD100	0	8	1	S00-10	DIP24 ☑
16▼	MC10H179FN	ECL	4	2.5n	-1.1	-1.4			8.0	0	300mt		0	7	1	S00-7	DIP16a
17♦	MC10H179L	ECL	4	2.5n	-1.1	-1.4			8.0	0	300mt		0	7	1	S00-7	DIP16a
18▼	MC10H179LD	ECL	4	2.5n	-1.1	-1.4			8.0	0	300mt		0	7	1	S00-7	DIP16a
19▼	MC10H179LDS	ECL	4	2.5n	-1.1	-1.4			8.0	0	300mt		0	7	1	S00-7	DIP16a
20♦	MC10H179P	ECL	4	2.5n	-1.1	-1.4			8.0	0	300mt		0	7	1	S00-7	DIP16b
21▼	MC10H179PD	ECL	4	2.5n	-1.1	-1.4			8.0	0	300mt		0	7	1	S00-7	DIP16b
22▼	MC10H179PDS	ECL	4	2.5n	-1.1	-1.4			8.0	0	300mt		0	7	1	S00-7	DIP16b
23	HD100179F	TTL	4	2.5n	-1.1	-1.5			7.0	0	40mt	Use w/HD100	0	8	1	S00-10	FP ☑
24	F100179FC	ECL	4	2.8n	-1.2	-1.5	20m	-1.0	7.0	0.5	1.2 Q	Use w/F1001	0	7	1	S00-10	FP126
25♦	MC10H179J	ECL	4	2.8n	-1.1	-1.4		-1.6	5.2		300mt	use w/10-181	0	7	1	S00-4	DIP16a
26♦	MC10H179N	ECL	4	2.8n	-1.1	-1.4		-1.6	5.2		300mt	use w/10-181	0	7	1	S00-4	DIP16a
27	MC10H179NL	ECL	4	2.8n	-1.1	-1.4		-1.6	5.2		300mt	noise 150mv	0	7	1	S00-4	LC45
28▼	100179F	ECL	4	3.0n	-1.1	-1.4		-1.6	4.5		675 †	Use w/F1001	0	8	1	S00-10	DIP24d
29▼	100179Y	ECL	4	3.0n	-1.1	-1.4		-1.6	4.5		675 †	Use w/F1001	0	8	1	S00-10	FP126
30♦	F100179DC	ECL	4	3.0n	-1.2	-1.5	20m	-1.0	7.0	0.5	1.2 Q	Use w/F1001	0	7	1	S00-10	DIP24c
31♦	10179F	ECL	4	3.9n	-1.1	-1.4		-1.6	5.2	0	300mt	Carry Block	3	8	1	S00-7	DIP16a
32♦	10179N	ECL	4	3.9n	-1.1	-1.4		-1.6	5.2	0	300mt	Carry Block	3	8	1	S00-7	DIP16a
33♦	HD10179	ECL	4	5.5n	-0.8Δ	-1.9*			8	0	25m		3	8	1	S00-11	DIP16b
34♦	F10179DC	ECT	4	5.5n	-.96	-1.6C	20m	-.96	5.2	0	374mQ	Use w/F1018	0	7	1	S00-4	DIP16a
35♦	F10579DM	ECT	4	5.5n	-.93	-1.6C	10m	-.93	5.2	0	374mQ	Use w/F1018	5	C	1	S00-4	DIP16a
36	F10579FM	ECT	4	5.5n	-.93	-1.6C	10m	-.93	5.2	0	374mQ	Use w/F1018	5	C	1	S00-4	FP103
37♦	MC10179L	ECT	4	5.5n	-.96	-1.6C			8.0	0	300mt	Uses 4 MC	3	8	1	S00-4	DIP16a
38▼	MC10179LD	ECT	4	5.5n	-.96	-1.6C			8.0	0	300mt	Uses 4 MC	3	8	1	S00-4	DIP16a
39▼	MC10179LDS	ECT	4	5.5n	-.96	-1.6C			8.0	0	300mt	Uses 4 MC	3	8	1	S00-4	DIP16a
40♦	MC10179P	ECT	4	5.5n	-.96	-1.6C			8.0	0	300mt	Uses 4 MC	3	8	1	S00-4	DIP16b
41▼	MC10179PD	ECT	4	5.5n	-.96	-1.6C			8.0	0	300mt	Uses 4 MC	3	8	1	S00-4	DIP16b
42▼	MC10179PDS	ECT	4	5.5n	-.96	-1.6C			8.0	0	300mt	Uses 4 MC	3	8	1	S00-4	DIP16b
43	MC10579F	ECT	4	5.5n	-.93	-1.6C	20m	-.93	5.2	0	300mt	Uses 4 MC	5	C	1	S00-4	FP85
44♦	MC10579L	ECT	4	5.5n	-.93	-1.6C	20m	-.93	5.2	0	300mt	Uses 4 MC	5	C	1	S00-4	DIP16a
45▼	IDT74FCT182AD	CMS	4	5.8n	2.0	0.8	48m	0.5		5.0	5.0uQ		0	7	4	S00-15	DIP16a
46▼	IDT74FCT182AJ	CMS	4	5.8n	2.0	0.8	48m	0.5		5.0	5.0uQ		0	7	4	S00-15	LC20
47▼	IDT74FCT182AL	CMS	4	5.8n	2.0	0.8	48m	0.5		5.0	5.0uQ		0	7	4	S00-15	LC19
48▼	IDT74FCT182AP	CMS	4	5.8n	2.0	0.8	48m	0.5		5.0	5.0uQ		0	7	4	S00-15	DIP20a
49▼	IDT74FCT182ASO	CMS	4	5.8n	2.0	0.8	48m	0.5		5.0	5.0uQ		0	7	4	S00-15	FP168
50♦	GXB10179D	ECL	4	6.1n	-.70	-1.9			5.2	0			3	8	1	S004	DIP16b
51♦	GXB10179P	ECL	4	6.1n	.70	1.9			5.2	0			3	8	1	S00-4	DIP16b
52♦	DM74S182N	TTL	4	7.0n	2.0	0.8			0	7.0	260m	Use w/DM	0	7	1	74-182	DIP16a
53▼	IDT54FCT182ADB	CMS	4	7.4n	2.0	0.8	32m	0.5		5.0	5.0uQ		5	C	4	S00-15	DIP16a
54▼	IDT54FCT182AEB	CMS	4	7.4n	2.0	0.8	32m	0.5		5.0	5.0uQ		5	C	4	S00-15	FP183
55▼	IDT54FCT182ALB	CMS	4	7.4n	2.0	0.8	32m	0.5		5.0	5.0uQ		5	C	4	S00-15	LC19
56♦	IDT54AHCT182D	CMS	4	8.0n	2.0	0.8	14m	0.4		5.0			5	C	4	74-182	DIP16a
57♦	IDT54AHCT182DB	CMS	4	8.0n	2.0	0.8	14m	0.4		5.0			5	C	4	74-182	DIP16a
58♦	IDT54AHCT182L	CMS	4	8.0n	2.0	0.8	14m	0.4		5.0			5	C	4	S00-15	LC25
59♦	IDT54AHCT182LB	CMS	4	8.0n	2.0	0.8	14m	0.4		5.0			5	C	4	S00-15	LC25
60♦	IDT74AHCT182D	CMS	4	8.0n	2.0	0.8	24m	0.5		5.0			0	7	4	74-182	DIP16a
61♦	IDT74AHCT182L	CMS	4	8.0n	2.0	0.8	24m	0.5		5.0			0	7	4	S00-15	LC25
62♦	DM74AS264J	TTL	4	8.0n	2.0	0.8	20m	0.5	0	7.0		Cascadable	0	7	1	74AS264	DIP16a
63♦	IDT74FCT182D	CMS	4	9.0n	2.0	0.8	48m	0.5		5.0	5.0uQ		0	7	4	74-182	DIP16a
64▼	IDT74FCT182J	CMS	4	9.0n	2.0	0.8	48m	0.5		5.0	5.0uQ		0	7	4	S00-15	LC20
65♦	IDT74FCT182L	CMS	4	9.0n	2.0	0.8	48m	0.5		5.0	5.0uQ		0	7	4	S00-15	LC19
66▼	IDT74FCT182P	CMS	4	9.0n	2.0	0.8	48m	0.5		5.0	5.0uQ		0	7	4	S00-15	DIP20a
67▼	IDT74FCT182SO	CMS	4	9.0n	2.0	0.8	48m	0.5		5.0	5.0uQ		0	7	4	S00-15	FP168
68♦	54F182DM	TTL	4	9.0n	2.0	0.8	20m	0.5	0.5	7.0		Multilev	5	C	1	74-182	DIP16b
69	54F182FM	TTL	4	9.0n	2.0	0.8	20m	0.5	0.5	7.0		Multilev	5	C	1	54-182	FP117
70	54F182L1M	TTL	4	9.0n	2.0	0.8	20m	0.5	0.5	7.0		Multilev	5	C	1	S00-12	LC19
71♦	DM54AS264J(A)	TTL	4	9.0n	2.0	0.8	20m	0.5	0	7.0		Cascadable	5	C	1	74AS264	DIP16a
72♦	MC74F182J	TTL	4	9.5n	2.0	0.8	20m	0.5	0	5.2			0	7	1	74-182	DIP16a
73♦	MC74F182N	TTL	4	9.5n	2.0	0.8	20m	0.5	0	5.2			0	7	1	74-182	DIP16b
74♦	IDM2902JC	CMS	4	10n	2.0	0.8			0	5.0	260mt		0	7	4	S00-2	DIP16b
75♦	IDM2902JM	CMS	4	10n	2.0	0.8			0	5.0	260mt		5	C	4	S00-2	DIP16b
76♦	IDM2902NC	CMS	4	10n	2.0	0.8			0	5.0	260mt		0	7	4	S00-2	DIP16a
77♦	54S182DM	TTL	4	10n	2.0	0.8	20m	.50	0	5.0	400m	Use w/54S18	5	C	1	74-182	DIP16a
78	54S182FM	TTL	4	10n	2.0	0.8	20m	.50	0	5.0	400m	Use w/54S18	5	C	1	54-182	FP103
79♦	74F182DC	TTL	4	10n	2.0	0.8	20m	0.5	0.5	7.0		Multilev	0	7	1	74-182	DIP16b
80	74F182L1C	TTL	4	10n	2.0	0.8	20m	0.5	0.5	7.0		Multilev	0	7	1	S00-12	LC19
81♦	74F182PC	TTL	4	10n	2.0	0.8	20m	0.5	0.5	7.0		Multilev	0	7	1	74-182	DIP16a
82	74F182QC	TTL	4	10n	2.0	0.8	20m	0.5	0.5	7.0		Multilev	0	7	1	S00-12	LC26
83	74F182SC	TTL	4	10n	2.0	0.8	20m	0.5	0.5	7.0		Multilev	0	7	1	54-182	FP148
84♦	74S182DC	TTL	4	10n	2.0	0.8	20m	.50	0	5.0	400m	Use w/74S18	0	7	1	74-182	DIP16a
85♦	74S182PC	TTL	4	10n	2.0	0.8	20m	.50	0	5.0	400m	Use w/74S18	0	7	1	74-182	DIP16 ☑
86♦	DM74AS182J(A)	TTL	4	10n	2.0	0.8	20m	0.5	0	7.0		Cascadable	0	7	1	74-182	DIP16a
87♦	DM74AS182N(A)	TTL	4	10n	2.0	0.8	20m	0.5	0	7.0		Cascadable	0	7	1	74-182	DIP16a
88♦	MC54F182J	TTL	4	10n	2.0	0.8	20m	0.5	0	5.5			5	C	1	74-182	DIP16a
89▼	MC54F182N	TTL	4	10n	2.0	0.8	20m	0.5	0	5.5			5	C	1	74-182	DIP16a
90	N74S182D	TTL	4	10n	2.0	0.8	20m	0.5	0.5	7.0	545m	Multiler	0	7	1	74-182	FP148
91♦	N74S182F	TTL	4	10n	2.0	0.8	20m	.50	0	5.0	545m	Use w/N74S1	0	7	1	74-182	DIP16b
92♦	N74S182N	TTL	4	10n	2.0	0.8	20m	0.5	0.5	7.0	545m	Multiler	0	7	1	74-182	DIP16a
93♦	S54S182F	TTL	4	10n	2.0	0.8	20m	0.5	0.5	7.0	545m	Multiler	5	C	1	74-182	DIP16b
94	S54S182W	TTL	4	10n	2.0	0.8	20m	0.5	0.5	7.0	545m	Multiler	5	C	1	54-182	FP154
95	SN54S182-16W	TTL	4	10n	2.0	0.8	20m	0.5	0	7.0			5	C	1	54-182	FP47h
96	SN54S182-20L	TTL	4	10n	2.0	0.8	20m	0.5	0	7.0			5	C	1	S00-12	LC16
97	SN54S182F	TTL	4	10n	2.0	0.8	20m	0.5	0	7.0	495m		5	C	1	54-182	FP181
98	SN54S182F16	TTL	4	10n	2.0	0.8	20m	3.4	0	7.0		Casc Ton	5	C	1	54-182	FP79c
99♦	SN54S182J	TTL	4	10n	2.0	0.8	20m	0.5	0	7.0	495m	CASCADABL	5	C	1	74-182	DIP16a
100♦	SN54S182J16	TTL	4	10n	2.0	0.8	20m	3.4	0	7.0		Casc Ton	5	C	1	74-182	DIP16a
101	SN54S182W	TTL	4	10n	2.0	0.8	20m	0.5	0	7.0	495m	CASCADABL	5	C	1	54-182	FP101
102	SN74S182D	TTL	4	10n	2.0	0.8	20m	0.5	0	7.0		Cascadabl	0	7	1	74-182	FP148
103♦	SN74S182J	TTL	4	10n	2.0	0.8	20m	0.5	0	7.0	545m	CASCADABL	5	7	1	74-182	DIP16a
104♦	SN74S182J16	TTL	4	10n	2.0	0.8	20m	3.4	0	7.0		Casc Ton	0	7	1	74-182	DIP16a
105♦	SN74S182N	TTL	4	10n	2.0	0.8	20m	0.5	0	7.0	545m	CASCADABL	0	7	1	74-182	DIP16a
106♦	SN74S182N16	TTL	4	10n	2.0	0.8	20m	0.5	0	7.0			0	7	1	74-182	DIP48
107▼	HD74HC182FP	CMS	4	11n	3.15	1.35	20u	0.1	0	5.0	500m		4	8	1	74-182N	FP162
108▼	HD74HC182P	CMS	4	11n	3.15	1.35	20u	0.1	0	5.0	500m		4	8	1	74-182N	DIP16a
109♦	93S42DC	TTL	4	11n	2.0	0.8	20m	.50	0	5.0	400mt	Use w/93S41	0	7	1	74-182	DIP16a
110♦	93S42DM	TTL	4	11n	2.0	0.8	20m	.50	0	5.0	400mt	Use w/93	5	C	1	74-182	DIP16a

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

19. LOOK-AHEAD CARRY GENERATORS - 4-Bit Devices (Cont'd)

IN ORDER OF: (1) BITS (2) tpd MAX
(3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] BITS	[2] tpd MAX (s)	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG (V)	POS (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP RANGE CODE -	+	CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1	93S42FM	TTL	4	11n	2.0	0.8	20m	.50	0	5.0	400m†	Use w/93S41	5	C	1	54-182	FP103
2♦	93S42PC	TTL	4	11n	2.0	0.8	20m	.50	0	5.0	400m†	Use w/93S41	0	7	1	74-182	DIP16 ☑
3♦	DM54AS282N	TTL	4	11n	2.0	0.8	20m	0.5	0	7.0		Select Carry	5	C	1	74AS282	DIP20a
4♦	DM74AS282J	TTL	4	11n	2.0	0.8	20m	0.5	0	7.0		Select Carry	0	7	1	74AS282	DIP20b
5♦	DM74AS282N(A)	TTL	4	11n	2.0	0.8	20m	0.5	0	7.0		Select Carry	0	7	1	74AS282	DIP20a
6♦	N74F182D(A)	TTL	4	11n	2.0	0.8	20m	0.5	0	5.0			0	7	1	74-182	FP148
7♦	N74F182N(A)	TTL	4	11n	2.0	0.8	20m	0.5	0	5.0			0	7	1	74-182	DIP16a
8♦	IDT54FCT182DB	CMS	4	12n	2.0	0.8	32m	0.5		5.0	5.0uQ		5	C	4	74-182	DIP16a
9▼	IDT54FCT182EB	CMS	4	12n	2.0	0.8	32m	0.5		5.0	5.0uQ		5	C	4	S00-15	FP183
10♦	IDT54FCT182LB	CMS	4	12n	2.0	0.8	32m	0.5		5.0	5.0uQ		5	C	4	S00-15	LC19
11	9342FM	TTL	4	12n	2.0	0.8			0	5.0	180m†	Use w/9341A	5	C	1	54-182	FP103
12♦	9342PC	TTL	4	12n	2.0	0.8			0	5.0	180m†	Use w/9341A	0	7	1	74-182	DIP16 ☑
13♦	DM54AS182J(A)	TTL	4	12n	2.0	0.8	20m	0.5	0	7.0		Cascadable	5	C	1	74-182	DIP16a
14♦	DM74AS264N(A)	TTL	4	12n	2.0	0.8	20m	0.5	0	7.0		Cascadable	0	7	1	74AS264	DIP16a
15♦	DM54AS282J(A)	TTL	4	13n	2.0	0.8	20m	0.5	0	7.0		Select Carry	5	C	1	74AS282	DIP20b
16♦	IDT39C02AD	CMS	4	14n	2.0	0.8	48m	0.5		5.0	1.0		0	7	4	74-182	DIP16a
17♦	IDT39C02AL	CMS	4	14n	2.0	0.8	48m	0.5		5.0	1.0		0	7	4	S00-15	LC25
18▼	N74F882D(A)	TTL	4	14n	2.0	0.8	20m	0.5	0	5.0		32Bit Look-Ahd.	0	7	1	74AS882	DIP24a
19▼	N74F882N(A)	TTL	4	14n	2.0	0.8	20m	0.5	0	5.0		32Bit Look-Ahd.	0	7	1	74AS882	DIP24a
20	SN74AS882FN(A)	TTL	4	14n	2.0	0.8	20m	0.3	0	7.0			0	7	1	S00-14	LC20a
21♦	SN74AS882NT(A)	TTL	4	14n	2	0.8			0	5		use w/881	0	7	1	74AS882	DIP24 ☑
22♦	IDT39C02ADB	CMS	4	16n	2.0	0.8	32m	0.5		5.0	1.0		5	C	4	74-182	DIP16a
23	CD54HC182F(A)	CMS	4	18n	3.15	1.35	20u	0.1	0.5	7.0	500m		5	C	1	74-182	MS001a
24	CD54HCT182F(A)	CMS	4	18n	2.0	0.8	20u	0.1	0.5	7.0	500m		5	C	1	74-182	MS001a
25	CD74HC182E(A)	CMS	4	18n	3.15	0.9	20u	0.1	0.5	7.0	500m		4	8	1	74-182	MS001a
26	CD74HC182M(A)	CMS	4	18n	3.15	0.9	20u	0.1	0.5	7.0	300m		4	8	1	54-182	FP148
27	CD74HCT182E(A)	CMS	4	18n	2.0	0.8	20u	0.1	0.5	7.0	500m		4	8	1	74-182	MS001a
28	CD74HCT182M(A)	CMS	4	18n	2.0	0.8	20u	0.1	0.5	7.0	300m		4	8	1	54-182	FP148
29♦	DM54182J	TTL	4	22n	2.0	0.8	16m	.40	0	5.0	180m†	Use w/DM541	5	C	1	74-182	DIP16a
30♦	N74182F	TTL	4	22n	2.0	0.8	16m	.40	0	5.0	360m	Use w/N7418	0	7	1	74-182	DIP16b
31♦	N74182N	TTL	4	22n	2.0	0.8	16m	.40	0	5.0	360m	Use w/N7418	0	7	1	74-182	DIP16a
32♦	S54182F	TTL	4	22n	2.0	0.8	16m	.40	0	5.0	325m	Use w/54181	5	C	1	74-182	DIP16b
33	S54182W	TTL	4	22n	2.0	0.8	16m	.40	0	5.0	325m	Use w/54181	5	C	1	54-182	FP47g
34♦	SFC4182E	TTL	4	22n	2.4	0.4C	16m	.40	0	5.0	360m	Use w/SFC41	0	7	1	74-182	DIP16a
35♦	SFC4182EM	TTL	4	22n	2.4	0.4C	16m	.40	0	5.0	325m	Use w/SFC41	5	C	1	74-182	DIP16a
36♦	SFC4182ET	TTL	4	22n	2.4	0.4C	16m	.40	0	5.0	360m	Use w/SFC41	2	8	1	74-182	DIP16a
37♦	SN54182J	TTL	4	22n	2.0	0.8	16m	0.4	0	7.0	325m	CASCADABL	5	C	1	74-182	DIP16a
38♦	SN74182N	TTL	4	22n	2.0	0.8	16m	0.4	0	7.0	360m	CASCADABL	0	7	1	74-182	DIP16a
39♦	SN54LS182J	TTL	4	30n	2.0	0.7	4.0m	.40	0	5.5	80m	Use w/'181	5	C	1	74-182	DIP16a
40▼	SN54LS182N	TTL	4	30n	2.0	0.7	4.0m	.40	0	5.5	80m	Use w/'181	5	C	1	74-182	DIP16a
41♦	SN74LS182J	TTL	4	30n	2.0	0.8	8.0m	.50	0	5.2	80m	Use w/'181	0	7	1	74-182	DIP16a
42♦	SN74LS182N	TTL	4	30n	2.0	0.8	8.0m	.50	0	5.2	80m	Use w/'181	0	7	1	74-182	DIP16a
43♦	PC54HC182D(A)	CMS	4	36n	3.15	0.9	20u	0.1	0.5	7.0	500m		5	C	1	74-182	DIP16b
44♦	PC54HCT182D(A)	CMS	4	36n	2.0	0.8	20u	0.1	0.5	7.0	500m		5	C	1	74-182	DIP16b
45♦	PC74HC182D(A)	CMS	4	36n	3.15	0.9	20u	0.1	0.5	7.0	500m		4	8	1	74-182	DIP16b
46♦	PC74HCT182D(A)	CMS	4	36n	2.0	0.8	20u	0.1	0.5	7.0	500m		4	8	1	74-182	DIP16b
47	74HC182D	CMS	4	37n	3.15	1.35	20u	0.1		5.0		Multi-level	4	8	1	74AS264	FP162
48♦	74HC182N	CMS	4	37n	4.2	1.8	20u	0.1	0.5	7.0		Multi-level	4	8	1	74AS264	DIP16b
49▼	TC74HC182F(A)	CMS	4	41n	3.15	1.35	4.0m	0.33	0	5.0	180m	tr,tf 19ns max	4	8	1	74-182N	FP167
50▼	TC74HC182P(A)	CMS	4	41n	3.15	1.35	4.0m	0.33	0	5.0	500m	tr,tf 19ns max	4	8	1	74-182N	DIP16a
51♦	MM74HC182J(A)	CMS	4	42n	4.2	1.2	4.0m	400m	0.5	7.0	500m	TTL COMP.	4	8	1	74-182	DIP16a
52♦	MM74HC182N(A)	CMS	4	42n	4.2	1.2	4.0m	400m	0.5	7.0	500m	TTL COMP.	4	8	1	74-182	DIP16a
53♦	PC74HC182P	CMS	4	44n	3.15	1.35	20u	0.1	0	5.0	500m		4	C	1	74-182	DIP16b
54	PC74HC182T	CMS	4	44n	3.15	1.35	20u	0.1	0	5.0	300m		4	C	1	74-182	FP148
55♦	MM54HC182J(A)	CMS	4	48n	4.2	1.2	4.0m	400m	0.5	7.0	500m	TTL COMP.	5	C	1	74-182	DIP16a
56♦	PC74HCT182P	CMS	4	51n	2.0	0.8	20u	0.1	0	5.0	500m		4	C	1	74-182	DIP16b
57	PC74HCT182T	CMS	4	51n	2.0	0.8	20u	0.1	0	5.0	300m		4	C	1	74-182	FP148
58♦	4582BDC	CMS	4	55n	11	4.0	3.0m	1.5	0	15	9.0mQ	Use w/4581B	4	8	1	S00-3	DIP16a
59♦	4582BDM	CMS	4	55n	11	4.0	3.4m	1.5	0	15	9.0mQ	Use w/4581B	5	C	1	S00-3	DIP16a
60	4582BFC	CMS	4	55n	11	4.0	3.0m	1.5	0	15	9.0mQ	Use w/4581B	4	8	1	54-182	FP103
61	4582BFM	CMS	4	55n	11	4.0	3.4m	1.5	0	15	9.0mQ	Use w/4581B	5	C	1	54-182	FP103
62♦	4582BPC	CMS	4	55n	11	4.0	3.0m	1.5	0	15	9.0mQ	Use w/4581B	4	8	1	74-182	DIP16 ☑
63	74HCT182D	CMS	4	56n	2.0	0.8	20u	0.1		5.0		Multi-level	4	8	1	74AS264	FP162
64♦	74HCT182N	CMS	4	56n	2.0	0.8	20u	0.1		5.0		Multi-level	4	8	1	74AS264	DIP16b
65♦	HCC40182BD	CMS	4	80n	11	4.0	4.2m	1.5	0	15	200m	Use w/HCC40	5	C	1	S00-9	DIP16a
66	HCC40182BF	CMS	4	80n	11	4.0	4.2m	1.5	0	15	200m	Use w/HCC40	5	C	1	S00-9	None
67♦	HCC40182BK	CMS	4	80n	11	4.0	4.2m	1.5	0	15	200m	Use w/HCC40	5	C	1	S00-9	DIP16 ☑
68♦	HCF40182BE	CMS	4	80n	11	4.0	4.0m	1.5	0	15	200m	Use w/HCF40	4	8	1	S00-9	DIP16a
69	HCF40182BF	CMS	4	80n	11	4.0	4.0m	1.5	0	15	200m	Use w/HCF40	4	8	1	S00-9	None
70	883C4582B	CMS	4	160n	8.2	6.7	3.4m	1.5	0	15	300m		5	C	1	74-182	MO001AG
71	BCL4582B	CMS	4	160n	8.2	6.7	3.4m	1.5	0	15	300m		5	C	1	74-182	MO001AG
72♦	MC14582BAL	CMS	4	220n	11.0	4.0	3.0m	1.5	0	15	300uQ	Uses 4 MC	5	C	1	74-182	DIP16b
73▼	MC14582BALD	CMS	4	220n	11.0	4.0	3.0m	1.5	0	15	300uQ	Uses 4 MC	5	C	1	74-182	DIP16b
74▼	MC14582BALDS	CMS	4	220n	11.0	4.0	3.0m	1.5	0	15	300uQ	Uses 4 MC	5	C	1	74-182	DIP16b
75▼	MC14582BALS	CMS	4	220n	11.0	4.0	3.0m	1.5	0	15	300uQ	Uses 4 MC	5	C	1	74-182	DIP16b
76♦	MC14582BCL	CMS	4	220n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Uses MC14	4	8	1	74-182	DIP16b
77▼	MC14582BCLD	CMS	4	220n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Uses MC14	4	8	1	74-182	DIP16b
78▼	MC14582BCLDS	CMS	4	220n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Uses MC14	4	8	1	74-182	DIP16b
79▼	MC14582BCLS	CMS	4	220n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Uses MC14	4	8	1	74-182	DIP16b
80♦	MC14582BCP	CMS	4	220n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Uses 4 MC	4	8	1	74-182	DIP16a
81▼	MC14582BCPD	CMS	4	220n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Uses 4 MC	4	8	1	74-182	DIP16a
82▼	MC14582BCPDS	CMS	4	220n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Uses 4 MC	4	8	1	74-182	DIP16a
83▼	MC14582BCPS	CMS	4	220n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Uses 4 MC	4	8	1	74-182	DIP16a
84▼	MC14582BD	CMS	4	220n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	Uses 4 MC	4	8	1	74-182	DIP16a
85	CD40182BD	CMS	4	240n	7.0	3.0	1.3m	0.5	0.5	20	500m	Use w/CD401	5	C	1	74-182	MO001AE
86	CD40182BE	CMS	4	240n	7.0	3.0	1.3m	0.5	0.5	20	500m	Use w/CD401	4	8	1	74-182	MO001AC
87	CD40182BF	CMS	4	240n	7.0	3.0	1.3m	0.5	0.5	20	500m	Use w/CD401	5	C	1	74-182	MO001AC
88♦	SCL4582B	CMS	4	400n	3.5Δ	1.0*	1.3m	.50	0.5	18	100uQ	Use w/SCL45	5	C	1	74-182	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

25. PARITY GENERATORS/CHECKERS - 4-Bit

IN ORDER OF: (1) BITS (2) tpd MAX (3) TECH & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	[3] TECH	[1] BITS	[2] tpd MAX (s)	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG (V)	POS (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP RANGE CODE -	+	CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
PARITY GENERATOR, 4-BIT																	
4▼	N74F881D(A)	TTL	4	14n	2.0	0.8	48m	0.5	0	5.0		+Logic operat.	0	7	1	74AS881	FP170
5♦	N74F881N(A)	TTL	4	14n	2.0	0.8	48m	0.5	0	5.0		+Logic operat.	0	7	1	74AS881	DIP24a
6♦	MC4010L	TTL	4	35n	2.4	0.4C	16m	0.4	0	5.0	125m†	Par Tree	0	7	2	4-010	TO-116
7♦	MC4010P	TTL	4	35n	2.4	0.4C	16m	0.4	0	5.0	125m†	Par Tree	0	7	2	4-010	TO-116
8♦	MC4310F	TTL	4	35n	2.4	0.4C	16m	0.4	0	5.0	125m†	Par Tree	5	C	2	4-010	TO-86
9♦	MC4310L	TTL	4	35n	2.4	0.4C	16m	0.4	0	5.0	125m†	Par Tree	5	C	2	4-010	TO-116
PARITY GENERATOR, 8-BIT																	
13♦	MC4008L	TTL	8	46n	2.4	0.4C	16m	0.4	0	5.0	150m†	Parity Tree	0	7	1	74-408N	TO-116
14♦	MC4008P	TTL	8	46n	2.4	0.4C	16m	0.4	0	5.0	150m†	Parity Tree	0	7	1	74-408N	TO-116
15♦	MC4308F	TTL	8	46n	2.4	0.4C	16m	0.4	0	5.0	150m†	Parity Tree	5	C	1	54-408W	TO-86
16♦	MC4308L	TTL	8	46n	2.4	0.4C	16m	0.4	0	5.0	150m†	Parity Tree	5	C	1	74-408N	TO-116
PARITY GENERATOR, 9-BIT																	
20♦	MB447	TTL	9		2.0	0.8			0	5.0	190m†	Odd/Even	0	7	1	74-180N	DIP14b
21♦	MB447M	TTL	9		2.0	0.8			0	5.0	190m†	Odd/Even	0	7	1	74-180N	DIP14b
22♦	100160D	ECL	9	2.9n	-.88	-1.8			4.5	0		8 bit cmp	0	8	2	P00-25	DIP24d
23	F100160FC	ECL	9	3.1n	-1.2	-1.5	20m	-1.0	7.0	0.5	517mQ	Comp Outp	0	7	2	P00-25	FP126
24♦	F100160DC	ECL	9	3.3n	-1.2	-1.5	20m	-1.0	7.0	0.5	517mQ	re Output	0	7	2	P00-25	DIP24c
25♦	HD100160	ECL	9	3.6n	-1.2	-1.5			5.7	0	40m†	Odd/Even	0	8	2	P00-25	DIP24d
26	HD100160F	ECL	9	3.7n	-1.2	-1.5			5.7	0	40m†	Odd/Even	0	8	2	P00-25	FP146
27	HXA100160D	ECL	9	3.9n	-1.8	-.88			4.5	0	405m	Parity outpt	0	8	2	P00-25	DL ☑
28	HXA100160F	ECL	9	3.9n	-1.8	-.88			4.5	0	405m	Parity outpt	0	8	2	P00-25	FP ☑
29♦	100160Y	ECL	9	4.1n	-1.1	-1.4		-1.6	4.5	0	350m†	8-bit cmp	0	8	2	P00-25	FP173
30♦	100160F	ECL	9	4.3n	-1.1	-1.4		-1.6	4.5	0	350m†	8-bit cmp	0	8	2	P00-25	DIP24d
31♦	10170F	ECT	9	6.0n	-.96	-1.6C	20m	-.96	5.2	0	340m	n Emitter	3	8	1	P00-22	DIP16b
32▼	MC10170FN	ECT	9	8.8n	-.96	-1.6C			8.0	0	369m	Odd/Even	3	8	1	P00-11	DIP16a
33♦	MC10170L	ECT	9	8.8n	-.96	-1.6C			8.0	0	369m	Odd/Even	3	8	1	P00-11	DIP16a
34▼	MC10170LD	ECT	9	8.8n	-.96	-1.6C			8.0	0	369m	Odd/Even	3	8	1	P00-11	DIP16a
35▼	MC10170LDS	ECT	9	8.8n	-.96	-1.6C			8.0	0	369m	Odd/Even	3	8	1	P00-11	DIP16a
36♦	MC10170P	ECT	9	8.8n	-.96	-1.6C			8.0	0	369m	b	3	8	1	P00-11	DIP16b
37▼	MC10170PD	ECT	9	8.8n	-.96	-1.6C			8.0	0	369m	b	3	8	1	P00-11	DIP16b
38▼	MC10170PDS	ECT	9	8.8n	-.96	-1.6C			8.0	0	369m	b	3	8	1	P00-11	DIP16b
39	MC10570F	ECT	9	8.8n	-.93	-1.6C	10m	-.96	5.2	0	369m	b	5	C	1	P00-11	FP85
40♦	MC10570L	ECT	9	8.8n	-.93	-1.6C	10m	-.96	5.2	0	369m	b	5	C	1	P00-11	DIP16a
41♦	DM54AS286J(A)	TTL	9	9.5n	2.0	0.8	20m	0.5	0	7.0			5	C	1	74AS286	DIP14a
42♦	DM74AS286J(A)	TTL	9	9.5n	2.0	0.8	20m	0.5	0	7.0			0	7	1	74AS286	DIP14a
43♦	DM74AS286N(A)	TTL	9	9.5n	2.0	0.8	20m	0.5	0	7.0			0	7	1	74AS286	DIP14a
44▼	SN74AS280D	TTL	9	12n	2.0	0.8	20m	0.5	0	5.0		Odd/Evn Parity	0	7	1	74S280N	FP147
45♦	SN74AS280N	TTL	9	12n	2.0	0.8	20m	0.5	0	5.0		Odd/Evn Parity	0	7	1	74S280N	DIP14a
46♦	DM74AS280J(A)	TTL	9	14n	2.0	0.8	20m	0.5	0	7.0		Odd/Even	0	7	1	74S280	DIP14a
47♦	DM74AS280N(A)	TTL	9	14n	2.0	0.8	20m	0.5	0	7.0		Odd/Even	0	7	1	74S280	DIP14a
48▼	N74F280AD(A)	TTL	9	14n	2.0	0.8	20m	0.5	0	5.0		Odd/Even	0	7	1	74S280	FP147
49♦	N74F280AN(A)	TTL	9	14n	2.0	0.8	20m	0.5	0	5.0		Odd/Even	0	7	1	74S280	DIP14a
50▼	N74F280D(A)	TTL	9	14n	2.0	0.8	20m	0.5	0	5.0		Odd/Even	0	7	1	74S280	FP147
51▼	N74F280N(A)	TTL	9	14n	2.0	0.8	20m	0.5	0	5.0		Odd/Even	0	7	1	74S280	DIP14a
52♦	DM54AS280J(A)	TTL	9	15n	2.0	0.8	20m	0.5	0	7.0		Odd/Even	5	C	1	74S280	DIP14a
53	S54F280AG(A)	TTL	9	15n	2.0	0.8	20m	0.5	0	7.0		Odd/Even	5	C	1	P00-30	LC24
54▼	SN74AS286D	TTL	9	15n	2.0	0.8	48m	0.5	0	5.0		Odd/Evn Parity	0	7	1	74AS286	FP147
55♦	SN74AS286N	TTL	9	15n	2.0	0.8	48m	0.5	0	5.0		Odd/Evn Parity	0	7	1	74AS286	DIP14a
56♦	MC54F280J		9	17n	2.0	0.8	20.0m	0.5	0.5	7.0			5	C	1	54S280w	DIP14a
57▼	MC54F280N		9	17n	2.0	0.8	20.0m	0.5	0.5	7.0			5	C	1	54S280w	DIP14a
58♦	MC74F280J		9	17n	2.0	0.8	20.0m	0.5	0.5	7.0			4	8	1	54S280w	DIP14a
59♦	MC74F280N		9	17n	2.0	0.8	20.0m	0.5	0.5	7.0			4	8	1	54S280w	DIP14a
60	S54F280AF(A)	TTL	9	17n	2.0	0.8	20m	0.5	0	7.0		Odd/Even	5	C	1	54S280W	FP ☑
61♦	S54F280AW	TTL	9	17n	2.0	0.8	20m	0.5	0	7.0		Odd/Even	5	C	1	54S280W	DIP14 ☑
62♦	54F280DM	TTL	9	21n	2.0	0.8	20m	0.5	0	7.0		Odd/Even	5	C	1	74S280N	DIP14b
63	54F280FM	TTL	9	21n	2.0	0.8	20m	0.5	0	7.0		Odd/Even	5	C	1	54S280W	FP115
64	54F280L1M	TTL	9	21n	2.0	0.8	20m	0.5	0	7.0		Odd/Even	5	C	1	P00-30	LC19
65♦	54S280DM	TTL	9	21n	2.0	0.8			0	5.0	525m	Odd/even Outp	5	C	1	74S280N	DIP14a
66	54S280FM	TTL	9	21n	2.0	0.8			0	5.0	525m	Odd/even Outp	5	C	1	54S280W	FP52
67♦	74F280DC	TTL	9	21n	2.0	0.8	20m	0.5	0	7.0		Odd/Even	0	7	1	74S280N	DIP14b
68	74F280L1C	TTL	9	21n	2.0	0.8	20m	0.5	0	7.0		Odd/Even	0	7	1	P00-30	LC19
69♦	74F280PC	TTL	9	21n	2.0	0.8	20m	0.5	0	7.0		Odd/Even	0	7	1	74S280N	DIP14a
70	74F280QC	TTL	9	21n	2.0	0.8	20m	0.5	0	7.0		Odd/Even	0	7	1	P00-30	LC26
71	74F280SC	TTL	9	21n	2.0	0.8	20m	0.5	0	7.0		Odd/Even	0	7	1	54S280	FP147
72♦	N74S280F	TTL	9	21n	2.0	0.8	20m	0.5	0	5.0	525m	Odd/Even	0	7	1	74S280N	DIP14b
73♦	N74S280N	TTL	9	21n	2.0	0.8	20m	0.5	0.5	7.0	525m	Odd/Even	0	7	1	74S280N	DIP14a
74♦	S54S280F	TTL	9	21n	2.0	0.8	20m	0.5	0.5	7.0	525m	Odd/Even	5	C	1	74S280N	DIP14b
75	S54S280W	TTL	9	21n	2.0	0.8	20m	0.5	0.5	7.0	525m	Odd/Even	5	C	1	54S280W	FP153
76♦	SN54S280J	TTL	9	21n	2.0	0.8	20m	0.5	0	7.0	335m†	Odd/Even	5	C	1	74S280N	DIP14a
77♦	SN74S280N	TTL	9	21n	2.0	0.8	20m	0.5	0	7.0	335m†	Odd/Even	0	7	1	74S280N	DIP14a
78▼	HD74HC280FP	CMS	9	22n	3.15	1.35	4.0m	0.33	0	5.0		Odd/Even	4	8	1	74S280N	FP161
79▼	HD74HC280P	CMS	9	22n	3.15	1.35	4.0m	0.33	0	5.0		Odd/Even	4	8	1	74S280N	DIP14a
80♦	N82S62A	TTL	9	23n	2.7	.50C	20m	0.5	0	5.0	355m	Inh Inp	0	7	1	40-101B	DIP14a
81♦	S82S62A	TTL	9	23n	2.7	.50C	20m	0.5	0	5.0	355m	Inh Inp	5	C	1	40-101B	DIP14a
82♦	S82S62F	TTL	9	23n	2.7	.50C	20m	0.5	0	5.0	355m	Inh Inp	5	C	1	40-101B	DIP14b
83	DM54S280J	TTL	9	24n	2.0	0.8	20m	0.5		5.0		Evn/odd parity				None	None
84	DM54S280W	TTL	9	24n	2.0	0.8			0	7.0		Odd/Even	5	C	1	74S280	FP97c
85♦	DM74S280N	TTL	9	24n	2.0	0.8			0	7.0		Odd/Even	0	7	1	74S280	DIP14a
86♦	93S62DC	TTL	9	26n	2.0	0.8	20m	0.5	0	5.0	325m	Enabl Inp	0	7	1	40-101B	TO-116
87♦	93S62DM	TTL	9	26n	2.0	0.8	20m	0.5	0	5.0	325m	Enabl Inp	5	C	1	40-101B	TO-116
88♦	93S62FM	TTL	9	26n	2.0	0.8	20m	0.5	0	5.0	325m	Enabl Inp	5	C	1	40-101B	TO-86
89♦	93S62PC	TTL	9	26n	2.0	0.8	20m	0.5	0	5.0	325m	W/enable Input	0	7	1	40-101B	TO-116
90▼	SN74ALS280D	TTL	9	26n	2.0	0.8	24m	0.5	0	5.0		Odd/Evn Parity	0	7	1	74S280N	FP147
91♦	SN74ALS280N	TTL	9	26n	2.0	0.8	24m	0.5	0	5.0		Odd/Evn Parity	0	7	1	74S280N	DIP14a
92♦	N82S62F	TTL	9	34n	2.7	0.8C	20m	0.5	0	5.0	335mQ	Odd/Even	0	7	1	40-101B	DIP14b
93♦	N82S62N	TTL	9	34n	2.7	0.8C	20m	0.5	0	5.0	335mQ	Odd/Even	0	7	1	40-101B	DIP14a
94	74HC280D	CMS	9	43n	3.15	1.35	20u	0.1		5.0		Odd/Even	4	8	1	74S280	FP147
95♦	74HC280N	CMS	9	43n	3.15	1.35	20u	0.1		5.0		Odd/Even	4	8	1	74S280	DIP14a
96♦	MM74HC280J	CMS	9	44n	4.2	1.2	4.0m	0.4	0.5	7.0	500m	TTL COMP	4	8	1	74S280N	DIP14a
97♦	MM74HC280N	CMS	9	44n	4.2	1.2	4.0m	0.4	0.5	7.0	500m	TTL COMP	4	8	1	74S280N	DIP14a
98	CD74HC280E	CMS	9	50n	3.15	1.35	20u	0.1	0	7.0	500m	Odd/even	4	8	1	74S280N	MO001AB
99	CD74HC280M(A)	CMS	9	50n	3.15	1.35	20u	0.1	0	7.0	300m	Odd/Even	4	8	1	54S280	FP147
100♦	PC74HC280D(A)	CMS	9	50n	3.15	0.9	20u	0.1	0	7.0	500m	Odd/even	4	8	1	74S280	DIP14b
101▼	HD74LS280G	TTL	9	50n	2.0	0.8	8.0m	0.5	0	5.0	400m	Odd/Even	2	7	1	74S280N	DIP14a
102♦	HD74LS280P	TTL	9	50n	2.0	0.8	8.0m	0.5	0	5.0	400m	Odd/Even	2	7	1	74S280N	DIP14a
103♦	M74LS280P	TTL	9	50n	2.0	0.8	8.0m	0.5	0.5	7.0	80m†	Odd/Even	2	7	1	74S280N	DIP14a
104♦	MB74LS280	TTL	9	50n	2.0	0.8	8.0m	0.5	0	5.0	135m	Odd,Even	2	7	1	74S280N	DIP14a
105♦	MB74LS280M	TTL	9	50n	2.0	0.8	8.0m	0.5	0	5.0	135m	Odd,Even	2	7	1	74S280N	DIP14a
106♦	SN54LS280J	TTL	9	50n	2.0	0.7	4.0m	0.4	0	7.0	80m†	Odd/Even	5	C	1	74S280N	DIP14a
107▼	SN54LS280N	TTL	9	50n	2.0	0.7	4.0m	0.4	0	7.0	80m†	Odd/Even	5	C	1	74S280N	DIP14a
108	SN74LS280D	TTL	9	50n	2.0	0.8	8.0m	0.5	0	7.0		Odd/even	0	7	1	74S280	FP147
109♦	SN74LS280J	TTL	9	50n	2.0	0.8	8.0m	0.5	0	7.0	80m†	Odd/Even	0	7	1	74S280N	DIP14a
110♦	SN74LS280N	TTL	9	50n	2.0	0.8	8.0m	0.5	0	7.0	80m†	Odd/Even	0	7	1	74S280N	DIP14a

25. PARITY GENERATORS/CHECKERS - 9-Bit (Cont'd)

IN ORDER OF: (1) BITS (2) tpd MAX
(3) TECH & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	3 TECH	1 BITS	2 tpd MAX (s)	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG (V)	POS (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP RANGE CODE -	+	CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1	SN74S280D	TTL	9	50n	2.0	0.8	8.0m	0.5	0	7.0		Odd/even	0	7	1	74S280	FP147
2♦	MC54HC280J(A)	CMS	9	51n	3.2	1.1	3.4m	0.4	0	7.0	500m		5	C	1	74S280N	DIP14 ☑
3♦	MC74HC280J(A)	CMS	9	51n	3.2	1.1	4.0m	0.4	0	7.0	500m		4	8	1	74S280N	DIP14 ☑
4♦	MC74HC280N(A)	CMS	9	51n	3.2	1.1	4.0m	0.4	0	7.0	500m		4	8	1	74S280N	DIP14 ☑
5♦	MM54HC280J	CMS	9	52n	4.2	1.2	4.0m	0.4	0.5	7.0	500m	TTL COMP	5	C	1	54S280W	DIP14a
6▼	SN74HC280D	CMS	9	52n	3.15	0.90	4.0m	0.33	0	5.0		Odd/even	4	8	1	74S280	FP147
7♦	SN74HC280N	CMS	9	52n	3.15	0.90	4.0m	0.33	0	5.0		Odd/even	4	8	1	74S280	MO001AA
8♦	N8262F	TTL	9	55n	2.6	0.4C	16m	0.5	0	5.0	350m	Inhibitinp	0	7	1	40-101B	DIP14b
9♦	N8262N	TTL	9	55n	2.6	0.4C	16m	0.4	0	5.0	350m	Inh Inp	0	7	1	40-101B	DIP14a
10♦	S8262F	TTL	9	55n	2.6	0.4C	20m	0.5	0	5.0	370m	Inh Inp	5	C	1	40-101B	DIP14b
11	S8262W	TTL	9	55n	2.6	0.4C	20m	0.5	0	5.0	370m	Inh Inp	5	C	1	40-101B	FP39e
12	74HCT280D	CMS	9	56n	2.0	0.8	20u	0.1		5.0		Odd/Even	4	8	1	74S280	FP147
13♦	74HCT280N	CMS	9	56n	2.0	0.8	20u	0.1		5.0		Odd/Even	4	8	1	74S280	DIP14a
14	CD74HCT280E	CMS	9	56n	2.00	0.80	20u	0.1	0	7.0	500m	Odd/even	4	8	1	74S280N	MO001AB
15	CD74HCT280M(A)	CMS	9	56n	2.0	0.8	20u	0.1	0	7.0	300m	Odd/Even	4	8	1	54S280	FP147
16♦	PC74HCT280D(A)	CMS	9	56n	2.0	0.8	20u	0.1	0	7.0	500m	Odd/even	4	8	1	74S280	DIP14b
17♦	DM7220J	TTL	9	58n	2.0	0.8	16m	0.4	0	5.0	175m	Odd/Even	5	C	1	P00-5	DIP14a
18♦	DM7220N	TTL	9	58n	2.0	0.8	16m	0.4	0	5.0	175m	Odd/Even	5	C	1	P00-5	DIP14a
19	DM7220W	TTL	9	58n	2.0	0.8	16m	0.4	0	5.0	175m	Odd/Even	5	C	1	P00-5	FP97a
20♦	DM8220J	TTL	9	58n	2.0	0.8	16m	0.4	0	5.0	175m	Odd/Even	0	7	1	P00-5	DIP14a
21♦	DM8220N	TTL	9	58n	2.0	0.8	16m	0.4	0	5.0	175m	Odd/Even	0	7	1	P00-5	DIP14a
22♦	M54HC280F1(A)	CMS	9	59n	3.15	1.35	20u	0.1	0	7.0	500m	Odd/Even	5	C	1	74S280	DIP14a
23▼	TC74HC280F(A)	CMS	9	59n	3.15	1.35	4.0m	0.33	0	5.0	180m	Odd/Even	4	8	1	74S280N	FP166
24▼	TC74HC280P(A)	CMS	9	59n	3.15	1.35	4.0m	0.33	0	5.0	500m	Odd/Even	4	8	1	74S280N	DIP14a
25	CD54HC280F	CMS	9	60n	3.15	1.35	20u	0.1	0	7.0	500m	Odd/even	5	C	1	74S280N	MO001AB
26♦	PC54HC280D(A)	CMS	9	60n	3.15	0.9	20u	0.1	0	7.0	500m	Odd/even	5	C	1	74S280	DIP14b
27♦	PC74HC280P	CMS	9	60n	3.15	1.35	20u	0.1	0	5.0	500m	Odd/even	4	C	1	74S280	DIP14b
28	PC74HC280T	CMS	9	60n	3.15	1.35	20u	0.1	0	5.0	300m	Odd/even	4	C	1	74S280	FP147
29♦	SN54HC280J	CMS	9	61n	3.15	0.90	4m	0.4	0	5.0		Odd/even	5	C	1	74S280N	MO001AA
30▼	HD74HC180FP	CMS	9	65n	3.15	1.35	20u	0.1	0	5.0	500m	Odd/Even	4	8	1	74-180N	FP161
31▼	HD74HC180P	CMS	9	65n	3.15	1.35	20u	0.1	0	5.0	500m	Odd/Even	4	8	1	74-180N	DIP14a
32▼	SN74HC180D	TTL	9	65n	3.15	0.9	4m	0.33	0	5.0	245m	Odd/Even	4	8	1	74-180N	FP147
33▼	SN74HC180N	TTL	9	65n	3.15	0.9	4m	0.33	0	5.0	245m	Odd/Even	4	8	1	74-180N	DIP14a
34	CD54HCT280F	CMS	9	68n	2.00	0.80	20u	0.1	0	7.0	500m	Odd/even	5	C	1	74S280N	MO001AB
35♦	PC54HCT280D(A)	CMS	9	68n	2.0	0.8	20u	0.1	0	7.0	500m	Odd/even	5	C	1	74S280	DIP14b
36♦	PC74HCT280P	CMS	9	68n	2.0	0.8	20u	0.1	0	5.0	500m	Odd/even	4	C	1	74S280	DIP14b
37	PC74HCT280T	CMS	9	68n	2.0	0.8	20u	0.1	0	5.0	300m	Odd/even	4	C	1	74S280	FP147
38♦	54180DM	TTL	9	68n	2.0	0.8			0	5.0	280m	E10 Outp	5	C	1	74-180N	DIP14a
39	54180FM	TTL	9	68n	2.0	0.8			0	5.0	280m	E10 Outp	5	C	1	54-180W	FP52
40♦	74180DC	TTL	9	68n	2.0	0.8			0	5.0	280m	E10 Outp	0	7	1	74-180N	DIP14a
41♦	74180PC	TTL	9	68n	2.0	0.8			0	5.0	280m	E10 Outp	0	7	1	74-180N	DIP14a
42♦	DM54180J	TTL	9	68n	2.0	0.8	16m	0.4	0	5.0	180m†	Odd/Even	5	C	1	74-180N	DIP14a
43♦	DM74180J	TTL	9	68n	2.0	0.8	16m	0.4	0	5.0	180m†	Odd/Even	0	7	1	74-180N	DIP14a
44♦	DM74180N	TTL	9	68n	2.0	0.8	16m	0.4	0	5.0	180m†	Odd/Even	0	7	1	74-180N	DIP14a
45	DM74180W	TTL	9	68n	2.0	0.8	16m	0.4	0	5.0	180m†	Odd/Even	0	7	1	54-180W	FP97a
46♦	M53380P	TTL	9	68n	2.0	0.8	16m	0.4	0	5.0	280mQ	Odd/Even	0	7	1	74-180N	DIP14a
47♦	N74180F	TTL	9	68n	2.0	0.8	16m	0.4	0	5.0	280m	Odd/Even	0	7	1	74-180N	DIP14b
48♦	N74180N	TTL	9	68n	2.0	0.8	16m	0.4	0.5	7.0	280m	Odd/Even	0	7	1	74-180N	DIP14a
49♦	S54180F	TTL	9	68n	2.0	0.8	16m	0.4	0.5	7.0	245m	Odd/Even	5	C	1	74-180N	DIP14b
50	S54180W	TTL	9	68n	2.0	0.8	16m	0.4	0.5	7.0	245m	Odd/Even	5	C	1	54-180W	FP153
51♦	SFC4180E	TTL	9	68n	2.4	0.4C	16m	0.4	0	5.0	280m	mpt w/DTL	0	7	1	74-180N	TO-116
52♦	SFC4180EM	TTL	9	68n	2.4	0.4C	16m	0.4	0	5.0	245m	mpt w/DTL	5	C	1	74-180N	TO-116
53♦	SFC4180ET	TTL	9	68n	2.4	0.4C	16m	0.4	0	5.0	280m	mpt w/DTL	2	8	1	74-180N	TO-116
54♦	SFC4180JM	TTL	9	68n	2.4	0.4C	16m	0.4	0	5.0	245m	mpt w/DTL	5	C	1	74-180N	TO-116
55♦	SFC4180KM	TTL	9	68n	2.4	0.4C	16m	0.4	0	5.0	245m	mpt w/DTL	5	C	1	74-180N	TO-116
56♦	SFC4180PM	TTL	9	68n	2.4	0.4C	16m	0.4	0	5.0	245m	mpt w/DTL	5	C	1	54-180W	TO-85
57♦	SN54180J	TTL	9	68n	2.0	0.8	16m	0.4	0	7.0	245m	Odd/Even	5	C	1	74-180N	DIP14a
58♦	SN74180N	TTL	9	68n	2.0	0.8	16m	0.4	0	7.0	280m	Odd/Even	0	7	1	74-180N	DIP14a
59♦	M74HC280B1(A)	CMS	9	71n	3.15	1.35	20u	0.1	0	7.0	500m	Odd/Even	4	8	1	74S280	DIP14a
60	M74HC280C1(A)	CMS	9	71n	3.15	1.35	20u	0.1	0	7.0	500m	Odd/Even	4	8	1	P00-30	LC33
61♦	M74HC280F1(A)	CMS	9	71n	3.15	1.35	20u	0.1	0	7.0	500m	Odd/Even	4	8	1	74S280	DIP14a
62▼	SN54HC180J	TTL	9	78n	3.15	0.9	4m	0.4	0	5.0	245m	Odd/Even	5	C	1	74-180N	DIP14a
63♦	HCC40101BD	CMS	9	200n	11	4.0	3.4m	1.5	0	15	500m	Inhibitinp	5	C	1	40-101B	DIP14a
64♦	HCC40101BF	CMS	9	200n	11	4.0	3.4m	1.5	0	15	500m	Inhibitinp	5	C	1	40-101B	DIP14a
65	HCC40101BK	CMS	9	200n	11	4.0	3.4m	1.5	0	15	500m	Inhibitinp	5	C	1	40-101B	FP130
66♦	HCF40101BE	CMS	9	200n	11	4.0	3.4m	1.5	0	15	500m	Inhibitinp	4	8	1	40-101B	DIP14a
67♦	HCF40101BF	CMS	9	200n	11	4.0	3.4m	1.5	0	15	500m	Inhibitinp	4	8	1	40-101B	DIP14a
68	CD40101BD	CMS	9	300n	7.0	3.0	1.3m	0.5	0	20	500m	Inhib Inp	5	C	1	40-101B	MO001AD
69	CD40101BE	CMS	9	300n	7.0	3.0	1.3m	0.5	0	20	500m	Inhib Inp	4	8	1	40-101B	MO001AB
70	CD40101BF	CMS	9	300n	7.0	3.0	1.3m	0.5	0	20	500m	Inhib Inp	5	C	1	40-101B	MO001AB

PARITY GENERATOR, 11-BIT

74♦	F10170DC	ECT	11	7.5n	-.96	-1.6C	20m	-.96	5.2	0	354mQ	11 Input	0	7	1	P00-24	DIP16a
75♦	F10570DM	ECT	11	7.5n	-.93	-1.6C	10m	-.93	5.2	0	354mQ	11 Input	5	C	1	P00-24	DIP16a
76	F10570FM	ECT	11	7.5n	-.93	-1.6C	10m	-.93	5.2	0	354mQ	11 Input	5	C	1	P00-24	FP103

PARITY GENERATOR, 12-BIT

80♦	HEF4531B	CMS	12				1.1m	0.5	0	10		Par Tree	4	8	1	45-31B	DIP16b
81♦	MB10160	ECL	12		-.96	-1.6C			5.2	0	320m†	Par Tree	3	8	1	P00-7	DIP16b
82♦	MB10160M	ECL	12		-.96	-1.6C			5.2	0	320m†	Par Tree	3	8	1	P00-7	DIP16b
83♦	GXB10160	ECL	12	4.5n	-.88	-1.7C	20m	-.96	5.2	0	364	Par Tree	0	7	1	P00-7	DIP16a
84▼	MC10H160FN	ECL	12	4.5n	-1.1	-1.4			8.0	0	320m		0	7	1	P00-7	DIP16a
85♦	MC10H160L	ECL	12	4.5n	-1.1	-1.4			8.0	0	320m		0	7	1	P00-7	DIP16a
86▼	MC10H160LD	ECL	12	4.5n	-1.1	-1.4			8.0	0	320m		0	7	1	P00-7	DIP16a
87▼	MC10H160LDS	ECL	12	4.5n	-1.1	-1.4			8.0	0	320m		0	7	1	P00-7	DIP16a
88♦	MC10H160P	ECL	12	4.5n	-1.1	-1.4			8.0	0	320m		0	7	1	P00-7	DIP16b
89▼	MC10H160PD	ECL	12	4.5n	-1.1	-1.4			8.0	0	320m		0	7	1	P00-7	DIP16b
90▼	MC10H160PDS	ECL	12	4.5n	-1.1	-1.4			8.0	0	320m		0	7	1	P00-7	DIP16b
91♦	MC10H160J	ECL	12	4.8n	-1.1	-1.4			8.0	0		Odd/even	0	7	1	P00-7	DIP16a
92♦	MC10H160N	ECL	12	4.8n	-1.1	-1.4			8.0	0		Odd/even	0	7	1	P00-7	DIP16a
93♦	F10160DC	ECL	12	7.5n	-.96	-1.6C	20m	-.96	5.2	0	307mQ	Par Tree	0	7	1	P00-23	DIP16a
94♦	F10560DM	ECL	12	7.5n	-.93	-1.6C	10m	-.93	5.2	0	307mQ	Par Tree	5	C	1	P00-23	DIP16a
95	F10560FM	ECL	12	7.5n	-.93	-1.6C	10m	-.93	5.2	0	307mQ	Parity Tree	5	C	1	P00-23	FP103
96▼	MC10160FN	ECT	12	7.5n	-.96	-1.6C	20m	-.96	8.0	0	320n†	W1MC10107	3	8	1	P00-7	DIP16a
97♦	MC10160L	ECT	12	7.5n	-.96	-1.6C	20m	-.96	8.0	0	320n†	W1MC10107	3	8	1	P00-7	DIP16a
98▼	MC10160LD	ECT	12	7.5n	-.96	-1.6C	20m	-.96	8.0	0	320n†	W1MC10107	3	8	1	P00-7	DIP16a
99▼	MC10160LDS	ECT	12	7.5n	-.96	-1.6C	20m	-.96	8.0	0	320n†	W1MC10107	3	8	1	P00-7	DIP16a
100♦	MC10160P	ECT	12	7.5n	-.96	-1.6C	20m	-.96	8.0	0	320n†	W1MC10107	3	8	1	P00-7	DIP16b
101▼	MC10160PD	ECT	12	7.5n	-.96	-1.6C	20m	-.96	8.0	0	320n†	W1MC10107	3	8	1	P00-7	DIP16b
102▼	MC10160PDS	ECT	12	7.5n	-.96	-1.6C	20m	-.96	8.0	0	320n†	W1MC10107	3	8	1	P00-7	DIP16b
103	MC10560F	ECT	12	7.5n	-.93	-1.6C	10m	.93	5.2	0	320n†	W1MC10507	5	C	1	P00-7	FP85
104♦	MC10560L	ECT	12	7.5n	-.93	-1.6C	10m	.93	5.2	0	320n†	w/MC10507	5	C	1	P00-7	DIP16b
105♦	10160F	ECL	12	8.0n	-1.1	-1.4		-1.6	5.2	0	322m†	Odd/Even	3	8	1	P00-7	DIP16a
106♦	10160N	ECL	12	8.0n	-1.1	-1.4		-1.6	5.2	0	322m†	Odd/Even	3	8	1	P00-7	DIP16a
107♦	GXB10160D	ECL	12	8.0n	-.70	-1.9			5.2	0			3	8	1	P00-7	DIP16b
108♦	GXB10160P	ECL	12	8.0n	-.70	-1.9			5.2	0			3	8	1	P00-7	DIP16b
109♦	HD10160	TTL	12	8.1n	-.81	-1.8			8.0	0	25m†	dd Parity	3	8	1	P00-23	DIP16 ☑
110♦	93S48DC	TTL	12	28n	2.0	0.8	20m	0.5	0	5.0	400mQ	Odd/Even	0	7	1	P00-19	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

25. PARITY GENERATORS/CHECKERS - 12-Bit (Cont'd)

IN ORDER OF: (1) BITS (2) tpd MAX (3) TECH & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	3 TECH	1 BITS	2 tpd MAX (s)	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG (V)	POS (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP RANGE CODE -	+	CKTS PER PKG	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	93S48PC	TTL	12	28n	2.0	0.8	20m	0.5	0	5.0	400mQ	Odd/Even	0	7	1	P00-19	DIP16a
2♦	9348DC	TTL	12	40n	2.0	0.8			0	5.0	235mt	Odd/Even	0	7	1	P00-13	TO-116
3♦	9348DM	TTL	12	40n	2.0	0.8			0	5.0	235mt	Odd/Even	5	C	1	P00-13	TO-116
4♦	9348FM	TTL	12	40n	2.0	0.8			0	5.0	235mt	Odd/Even	5	C	1	P00-13	TO-86
5♦	9348PC	TTL	12	40n	2.0	0.8			0	5.0	235mt	Odd/Even	0	7	1	P00-13	TO-116
6	HEF4531	CMS	12	55n	11	4.0	3.0m	1.5	0	15	400m	Par Tree	4	8	1	45-31B	DL ⊠
7♦	HEF4531BPN	CMS	12	55n	11.0	4.0	3.0m	1.5	0	15	400m	Par Tree	4	8	1	45-31B	DIP16b
8	HEF4531BTD	CMS	12	55n	11.0	4.0	3.0m	1.5	0	15	200m	Par Tree	4	8	1	45-31B	FP148
9♦	HEF4531BD	CMS	13	120n	7.0	3.0	1u	1.0	0	10	500m	Par Tree	4	8	1	45-31B	DIP16b
10♦	HEF4531BP	CMS	13	120n	7.0	3.0	1u	1.0	0	10	500m	Par Tree	4	8	1	45-31B	DIP16b
11♦	HEF4531BT	CMS	13	120n	7.0	3.0	1u	1.0	0	10	400m	Par Tree	4	8	1	45-31B	FP148
12♦	4531BDC	CMS	12	180n	11	4.0	3.0m	1.5	0	15	9.0mQ	buff outp	4	8	1	45-31B	DIP16a
13♦	4531BDM	CMS	12	180n	11	4.0	3.4m	1.5	0	15	9.0mQ	buff outp	5	C	1	45-31B	DIP16a
14	4531BFC	CMS	12	180n	11	4.0	3.0m	1.5	0	15	9.0mQ	buff outp	4	8	1	45-31B	FP103
15	4531BFM	CMS	12	180n	11	4.0	3.4m	1.5	0	15	9.0mQ	buff outp	5	C	1	45-31B	FP103
16	4531BPC	CMS	12	180n	11	4.0	3.0m	1.5	0	15	9.0mQ	buff outp	4	8	1	45-31B	None
17	883C4531B	CMS	12	240n	8.2	6.7	3.4m	1.5	0	15	300m		5	C	1	45-31B	MO001AG
18	BCL4531B	CMS	12	240n	8.2	6.7	3.4m	1.5	0	15	300m		5	C	1	45-31B	MO001AG
19♦	MC14531BAL	CMS	12	240n	11.0	4.0	3.0m	1.5	0	15	300mQ	buff outp	5	C	1	45-31B	DIP16b
20▼	MC14531BALD	CMS	12	240n	11.0	4.0	3.0m	1.5	0	15	300mQ	buff outp	5	C	1	45-31B	DIP16b
21▼	MC14531BALDS	CMS	12	240n	11.0	4.0	3.0m	1.5	0	15	300mQ	buff outp	5	C	1	45-31B	DIP16b
22▼	MC14531BALS	CMS	12	240n	11.0	4.0	3.0m	1.5	0	15	300mQ	buff outp	5	C	1	45-31B	DIP16b
23♦	MC14531BCL	CMS	12	360n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	buff outp	4	8	1	45-31B	DIP16b
24▼	MC14531BCLD	CMS	12	360n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	buff outp	4	8	1	45-31B	DIP16b
25▼	MC14531BCLDS	CMS	12	360n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	buff outp	4	8	1	45-31B	DIP16b
26▼	MC14531BCLS	CMS	12	360n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	buff outp	4	8	1	45-31B	DIP16b
27♦	MC14531BCP	CMS	12	360n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	buff outp	4	8	1	45-31B	DIP16a
28▼	MC14531BCPD	CMS	12	360n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	buff outp	4	8	1	45-31B	DIP16a
29▼	MC14531BCPDS	CMS	12	360n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	buff outp	4	8	1	45-31B	DIP16a
30▼	MC14531BCPS	CMS	12	360n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	buff outp	4	8	1	45-31B	DIP16a
31▼	MC14531BD	CMS	12	360n	11.0	4.0	3.0m	1.5	0	15	1.2mQ	buff outp	4	8	1	45-31B	DIP16a
32♦	TC4531BP	CMS	12	400n	14.9	.05C	3.0m	1.5	0	15	300m	buff outp	4	8	1	45-31B	DIP16a
33♦	SCL4531B	CMS	12	840n	3.5Δ	1.0	1.3m	0.5	0	18	100uQ	buff outp	5	C	1	45-31B	DIP16a

PARITY GENERATOR, 16-BIT

37♦	N74F630D(A)	TTL	16		2.0T	0.8	20m	0.5	0	5.0	600mt	Tri-State	0	7	1	74LS630	FP193
38♦	N74F630N(A)	TTL	16		2.0T	0.8	20m	0.5	0	5.0	600mt	Tri-State	0	7		74LS630	DIP28a
39♦	N74F631D(A)	TTL	16		2.0Ø	0.8	20m	0.5	0	5.0	600mt	Open Collector	0	7	1	74LS631	FP193
40♦	N74F631N(A)	TTL	16		2.0Ø	0.8	20m	0.5	0	5.0	600mt	Open Collector	0	7	1	74LS631	DIP28a

D.A.T.A.'s 14th MICROPROCESSOR ICs describes over 10,000 system-application circuits from 85 manufacturers.

26. LATCHES - D-type

IN ORDER OF: (1) TYPE CODE (2) BITS
(3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	2 BITS	3 tpd MAX (s)	1 OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
LATCH, D-TYPE																	
4♦	N74F373D	TTL		8.0n	TS	2.0	0.8	20m	0.5	0	5.0		8-Trans.	0	7	74LS363	FP170
5♦	N74F373N	TTL		8.0n	TS	2.0	0.8	20m	0.5	0	5.0		8-Trans.	0	7	74LS363	DIP20a
6♦	N74F259D(A)	TTL		10n		2.0	0.8	20m	0.5	0	5.0		.	0	7	74-259	FP148
7♦	N74F259N(A)	TTL		10n		2.0	0.8	20m	0.5	0	5.0		Quad latch	0	7	74-259	DIP16a
8♦	IDT54AHCT533D	CMOS		24n	TS	2.0	0.8	14m	0.4	0.5	7.0		Transparent	5	C	74LS533	DIP20b
9♦	MSM4042RS	CMS		400n		3.6	1.0			0.3	16	200m		4	8	40-42B	DIP16 ☑
10♦	MB430		1			2.4	0.4			0	5.0	20m†		0	7	74LS77N	DIP14b
11♦	MB430M		1			2.4	0.4			0	5.0	20m†		0	7	74LS77N	DIP14b
12♦	GXB10130	ECL	1	2.0n	EF	-1.1	-1.4	20m	-.96	5.2	0	110m†	Compl. Outputs	0	7	L00-55	DIP16a
13♦	F100130FC	ECL	1	2.4n	EF	-1.1	-1.4	20m	-1.0	4.5	0.5	670mQ		0	7	L00-79	FP126
14♦	F100150FC	ECL	1	2.4n	EF	-1.1	-1.4	20m	-1.0	4.5	0.5	715mQ		0	7	L00-80	FP126
15♦	MC1668L	ECL	1	2.5n		-.96	-1.6	20m	-.96	8.0	0	220m†	FO-70	3	8	L00-162	DIP16a
16▼	MC1668LD	ECL	1	2.5n		-.96	-1.6	20m	-.96	8.0	0	220m†	FO-70	3	8	L00-162	DIP16a
17▼	MC1668LDS	ECL	1	2.5n		-.96	-1.6	20m	-.96	8.0	0	220m†	FO-70	3	8	L00-162	DIP16a
18♦	F100130DC	ECL	1	2.6n	EF	-1.1	-1.4	20m	-1.0	4.5	0.5	670mQ		0	7	L00-79	DIP24c
19♦	F100150DC	ECL	1	2.6n	EF	-1.1	-1.4	20m	-1.0	4.5	0.5	715mQ		0	7	L00-80	DIP24c
20♦	10130F	ECL	1	3.8n	EF	-1.1	-1.4		-1.6	5.2	0	156m†	Compl. Outputs	3	8	L00-55	DIP16a
21♦	10130N	ECL	1	3.8n	EF	-1.1	-1.4		-1.6	5.2	0	156m†	.	3	8	L00-55	DIP16a
22♦	MC10530F	ECL	1	4.0n	EF	-1.1	-1.4	10m	-.93	5.2	0	155m†	Compl. Outputs	5	C	L00-14	FP85
23♦	MC10530L	ECL	1	4.0n	EF	-1.1	-1.4	10m	-.93	5.2	0	155m†	Compl. Outputs	5	C	L00-14	DIP16b
24♦	54LS375DM	TTL	2			2.0	0.7	4.0m	0.4	0	5.0	60m	F Compl	5	C	74LS375N	DIP16a
25	54LS375FM	TTL	2			2.0	0.7	4.0m	0.4	0	5.0	60m	F Compl	5	C	54LS375W	FP103
26♦	MB10130		2			-.96	-1.6			5.2	0	155m†		3	8	L00-14	DIP16b
27♦	MB10130M		2			-.96	-1.6			5.2	0	155m†		3	8	L00-14	DIP16b
28♦	MB10133		2			-.96	-1.6			5.2	0	155m†	Outp en	3	8	L00-12	DIP16b
29♦	MB10133M		2			-.96	-1.6			5.2	0	155m†	Outp en	3	8	L00-12	DIP16b
30♦	N74F256D(A)	TTL	2			2.0	0.8	20m	0.5	0	5.0		Serial-Binary	0	7	74LS256	FP148
31♦	N74F256N(A)	TTL	2			2.0	0.8	20m	0.5	0	5.0		Serial-Binary	0	7	74LS256	DIP16a
32▼	MC10H130FN	ECL	2	1.8n	EF	-1.1	-1.4			5.2	0	155m†	2inp MUX	0	7	L00-55	DIP16a
33♦	MC10H130L	ECL	2	1.8n	EF	-1.1	-1.4			5.2	0	155m†	2inp MUX	0	7	L00-55	DIP16a
34▼	MC10H130LD	ECL	2	1.8n	EF	-1.1	-1.4			5.2	0	155m†	2inp MUX	0	7	L00-55	DIP16a
35▼	MC10H130LDS	ECL	2	1.8n	EF	-1.1	-1.4			5.2	0	155m†	2inp MUX	0	7	L00-55	DIP16a
36♦	MC10H130P	ECL	2	1.8n	EF	-1.1	-1.4			5.2	0	155m†		0	7	L00-55	DIP16b
37▼	MC10H130PD	ECL	2	1.8n	EF	-1.1	-1.4			5.2	0	155m†		0	7	L00-55	DIP16b
38▼	MC10H130PDS	ECL	2	1.8n	EF	-1.1	-1.4			5.2	0	155m†		0	7	L00-55	DIP16b
39♦	GXB10133	ECL	2	2.0n	EF	-1.1	-1.4	20m	-.96	5.2	0	110m†		0	7	L00-37	DIP16a
40♦	HD10230	ECL	2	2.0n	EF	-1.1	-1.4			5.2	0	200m		3	8	L00-117	DIP16b
41♦	MC10H130J	ECL	2	2.0n	EF	-1.1	-1.4			5.2	0		Compl. Outputs	0	7	L00-55	DIP16a
42♦	MC10H130N	ECL	2	2.0n	EF	-1.1	-1.4			5.2	0		Compl. Outputs	0	7	L00-55	DIP16a
43♦	HD10130	ECL	2	2.2n	EF	-1.1	-1.4			5.2	0	200m		3	8	L00-117	DIP16b
44♦	F10130DC	ECL	2	3.5n	EF	-1.1	-1.4	20m	-.96	5.2	0	182mQ	Compl. Outputs	0	7	L00-75	DIP16a
45♦	F10530DM	ECL	2	3.5n	EF	-1.1	-1.4	10m	-.93	5.2	0	182mQ	Compl. Outputs	5	C	L00-75	DIP16a
46♦	F10530FM	ECL	2	3.5n	EF	-1.1	-1.4	10m	-.93	5.2	0	182mQ	Compl. Outputs	5	C	L00-75	FP103
47♦	F95130DC	ECL	2	3.5n		-1.1	-1.4	19m	-1.0	5.2	0	182mQ		0	7	L00-75	DIP16a
48▼	MC10130FN	ECL	2	4.0n	EF	-1.1	-1.4			5.2	0	155m†	Compl. Outputs	3	8	L00-55	DIP16a
49♦	MC10130L	ECL	2	4.0n	EF	-1.1	-1.4			5.2	0	155m†	Compl. Outputs	3	8	L00-55	DIP16a
50▼	MC10130LD	ECL	2	4.0n	EF	-1.1	-1.4			5.2	0	155m†	Compl. Outputs	3	8	L00-55	DIP16a
51▼	MC10130LDS	ECL	2	4.0n	EF	-1.1	-1.4			5.2	0	155m†	Compl. Outputs	3	8	L00-55	DIP16a
52♦	MC10130P	ECL	2	4.0n	EF	-1.1	-1.4			5.2	0	155m†	Compl. Outputs	3	8	L00-55	DIP16b
53▼	MC10130PD	ECL	2	4.0n	EF	-1.1	-1.4			5.2	0	155m†	Compl. Outputs	3	8	L00-55	DIP16b
54▼	MC10130PDS	ECL	2	4.0n	EF	-1.1	-1.4			5.2	0	155m†	Compl. Outputs	3	8	L00-55	DIP16b
55♦	HD10175	ECL	2	4.7n	EF	-1.1	-1.4			5.2	0	200m		3	8	L00-15	DIP16b
56♦	F10133DC	ECL	2	5.4n	EF	-1.1	-1.4	20m	-.96	5.2	0	390mQ		0	7	L00-12	DIP16a
57♦	F10153DC	ECL	2	5.4n	EF	-1.1	-1.4	20m	-.96	5.2	0	390mQ		0	7	L00-76	DIP16a
58♦	F10533DM	ECL	2	5.4n	EF	-1.1	-1.4	10m	-.93	5.2	0	390mQ		5	C	L00-12	DIP16a
59♦	F10533FM	ECL	2	5.4n	EF	-1.1	-1.4	10m	-.93	5.2	0	390mQ		5	C	L00-12	FP103
60♦	F10553DM	ECL	2	5.4n	EF	-1.1	-1.4	10m	-.93	5.2	0	390mQ		5	C	L00-76	DIP16a
61♦	F10553FM	ECL	2	5.4n	EF	-1.1	-1.4	10m	-.93	5.2	0	390mQ		5	C	L00-76	FP103
62♦	MC10533F	ECL	2	5.4n	EF	-1.1	-1.4	10m	-.93	5.2	0	310m†	FO-90	5	C	L00-12	FP85
63♦	MC10533L	ECL	2	5.4n	EF	-1.1	-1.4	10m	-.93	5.2	0	310m†	FO-90	5	C	L00-12	DIP16b
64♦	MC10553F	ECL	2	5.4n	EF	-1.1	-1.4	10m	-.93	5.2	0	390mQ		5	C	L00-12	FP85
65♦	MC10553L	ECL	2	5.4n	EF	-1.1	-1.4	10m	-.93	5.2	0	390mQ		5	C	L00-12	DIP16a
66♦	10133F	ECL	2	5.9n	EF	-1.1	-1.4		-1.6	5.2	0	310m†	NOR	3	8	L00-12	DIP16a
67♦	10133N	ECL	2	5.9n	EF	-1.1	-1.4		-1.6	5.2	0	310m†	NOR	3	8	L00-12	DIP16a
68♦	SN74LS549JS	ECL	2	18n	TS	2.0	0.7	32m	0.5	8.0	0		2-stage	0	7	74LS549	DIP24e
69♦	SN74LS549NS	ECL	2	18n	TS	2.0	0.7	32m	0.5	8.0	0		2-stage	0	7	74LS549	DIP24e
70♦	MC54HC75J(A)	CMS	2	23n		3.15	0.9	20u	0.1	0.5	7.0	500m	Transparent	5	C	74-75N	DIP16a
71♦	MC74HC75J(A)	CMS	2	23n		3.15	0.9	20u	0.1	0.5	7.0	500m	Transparent	4	8	74-75N	DIP16a
72♦	MC74HC75N(A)	CMS	2	23n		3.15	0.9	20u	0.1	0.5	7.0	500m	Transparent	4	8	74-75N	DIP16b
73♦	N74LS75D	TTL	2	27n		2.0	0.8	8.0m	0.5	0.5	7.0		Compl. Outputs	0	7	74-75N	FP148
74♦	N74LS75N	TTL	2	27n		2.0	0.8	8.0m	0.5	0.5	7.0	60m	Compl. Outputs	0	7	74-75N	DIP16a
75♦	S54LS75F	TTL	2	27n		2.0	0.7	4.0m	0.4	0.5	7.0	60m	Compl. Outputs	5	C	74-75N	DIP16b
76♦	S54LS75W	TTL	2	27n		2.0	0.7	4.0m	0.4	0.5	7.0	60m	Compl. Outputs	5	C	54-75W	FP154
77	S54LS77W	TTL	2	27n		2.0	0.7	4.0m	0.4	0	5.0	65m		5	C	54-77W	FP39e
78♦	DM5475J	TTL	2	30n		2.0	0.8	16m	0.4	0	5.0	250mQ		5	C	74-75N	DIP16a
79	DM5475W	TTL	2	30n		2.0	0.8	16m	0.4	0	5.0	250mQ		5	C	54-75W	FP88a
80♦	DM7475N	TTL	2	30n		2.0	0.8	16m	0.4	0	5.0	250mQ		0	7	74-75N	DIP16a
81♦	N74LS75F	TTL	2	30n		2.0	0.8	8.0m	0.5	0	5.0	60m	Compl. Outputs	0	7	74-75N	DIP16b
82	S5477W	TTL	2	30n		2.0	0.8	16m	0.4	0	5.0	230m		5	C	54-77W	FP39e
83♦	CD74HC75E(A)	CMS	2	33n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	74-75	MS001a
84♦	CD74HC75M(A)	CMS	2	33n		3.15	1.35	20u	0.1	0	7.0	300m	Transparent	4	8	54-75	FP148
85♦	CD54HC75F(A)	CMS	2	39n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	5	C	74-75	MS001a
86♦	CD74HCT75E(A)	CMS	2	40n		2.0	0.8	20u	0.1	0	7.0	500m	Transparent	4	8	74-75	MS001a
87♦	CD74HCT75M(A)	CMS	2	40n		2.0	0.8	20u	0.1	0	7.0	300m	Transparent	4	8	54-75	FP148
88♦	M53275P	TTL	2	40n		2.0	0.8	16m	0.4	0	5.0	160m†		0	7	74-75N	DIP16a
89♦	N7475F	TTL	2	40n		2.0	0.8	16m	0.4	0	5.0	265m	transpar	0	7	74-75N	DIP16b
90♦	N7475N	TTL	2	40n		2.0	0.8	16m	0.4	0.5	7.0	265m	transpar	0	7	74-75N	DIP16a
91♦	S5475F	TTL	2	40n		2.0	0.8	16m	0.4	0.5	7.0	230m	transpar	5	C	74-75N	DIP16b
92	S5475W	TTL	2	40n		2.0	0.8	16m	0.4	0.5	7.0	230m	transpar	5	C	54-75W	FP154
93♦	SFC475E	TTL	2	40n		2.4	0.4	16m	0.4	0	5.0	265m	Compl. Outputs	0	7	74-75N	DIP16a
94♦	SFC475EM	TTL	2	40n		2.4	0.4	16m	0.4	0	5.0	230m	Compl. Outputs	5	C	74-75N	DIP16a
95♦	SFC475ET	TTL	2	40n		2.4	0.4	16m	0.4	0	5.0	265m	Compl. Outputs	-	8	74-75N	DIP16a
96♦	SFC475JM	TTL	2	40n		2.4	0.4	16m	0.4	0	5.0	230m	Compl. Outputs	5	C	74-75N	DIP16a
97♦	SFC475KM	TTL	2	40n		2.4	0.4	16m	0.4	0	5.0	230m	Compl. Outputs	5	C	74-75N	DIP16a
98♦	CD54HCT75F(A)	CMS	2	48n		2.0	0.8	20u	0.1	0	7.0	500m	Transparent	5	C	74-75	MS001a
99♦	MC1813L	DTL	2	80n		2.6	.45	12m	1.1	0	5.0	220m†	F Compl	0	7	1-813P	DIP16b
100♦	MC1813P	DTL	2	80n		2.6	.45	12m	1.1	0	5.0	220m†	F Compl	0	7	1-813P	DIP16a
101♦	MC1814L	DTL	2	80n		2.6	.45	12m	1.1	0	5.0	220m†	P Compl	0	7	1-814P	TO-116
102♦	MC1814P	DTL	2	80n		2.6	.45	12m	1.1	0	5.0	220m†	P Compl	0	7	1-814P	TO-116
103♦	MC1914F	DTL	2	80n		2.6	0.4	12m	1.1	0	5.0	220m†	P Compl	5	C	1-814P	TO-116
104♦	MC1914L	DTL	2	80n		2.6	0.4	12m	1.1	0	5.0	220m†	P Compl	5	C	1-814P	TO-116
105	HD100130F	TTL	3	.75n		-1.1	-1.5			7.0	0	40m†		0	8	L00-79	FP ☑
106♦	100130FC	ECL	3	850p	EF					4.5	0	460m†		0	7	L00-50	FP126
107♦	HD100130	ECL	3	1.7n	EF	-1.1	-1.4			4.5	0	40m†		0	8	L00-79	DIP24d
108♦	54LS373DM	TTL	3	30n		2.0	0.8			0	5.0	200m	Compl. Outputs	5	C	74LS363N	DIP20b
109♦	54LS373FM	TTL	3	30n		2.0	0.8			0	5.0	200m	Compl. Outputs	5	C	54LS363W	FP144
110♦	54LS563DC	TTL	3	30n		2.0	0.8			0	5.0	200m	Compl. Outputs	0	7	74LS563N	DIP20b

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

26. LATCHES - D-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS
(3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[2] BITS	[3] tpd MAX (s)	[1] OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	54LS563DM	TTL	3	30n		2.0	0.8			0	5.0	200m	Compl. Outputs	5	C	74LS563N	DIP20 ☑
2♦	54LS563FM	TTL	3	30n		2.0	0.8			0	5.0	200m	Compl. Outputs	5	C	54LS563W	FP144
3♦	54LS563PC	TTL	3	30n		2.0	0.8			0	5.0	200m	Compl. Outputs	0	7	74LS563N	DIP20a
4♦	74LS373DC	TTL	3	30n		2.0	0.8			0	5.0	200m	Compl. Outputs	0	7	74LS363N	DIP20b
5♦	54LS533DM	TTL	3	35n		2.0	0.8			0	5.0	200m	Compl. Outputs	5	C	74LS533N	DIP20b
6♦	54LS533FM	TTL	3	35n		2.0	0.8			0	5.0	200m	Compl. Outputs	5	C	54LS533W	FP144
7♦	54LS573DM	TTL	3	35n		2.0	0.8			0	5.0	200m	Compl. Outputs	5	C	74LS573N	DIP20b
8♦	54LS573FM	TTL	3	35n		2.0	0.8			0	5.0	200m	Compl. Outputs	5	C	54LS573W	FP144
9♦	74LS533DC	TTL	3	35n		2.0	0.8			0	5.0	200m	Compl. Outputs	0	7	74LS533N	DIP20b
10♦	74LS533PC	TTL	3	35n		2.0	0.8			0	5.0	200m	Compl. Outputs	0	7	74LS533N	DIP20a
11▼	BU4042B	CMS	4			7.0	3.0		.05	0	10	550m	Compl. Outputs	4	8	40-42B	DIP16c
12▼	BU4042BF	CMS	4			7.0	3.0		.05	0	10	550m	Compl. Outputs	4	8	40-42B	FP162
13♦	M4042BP	CMS	4			11	4.0	2.4m	1.5	0	18	500m	Compl. Outputs	4	8	40-42B	DIP16b
14♦	M4508BP	CMS	4			11.0	4.0	2.4m	1.5	0	18	0.5		4	8	45-08B	DIP24a
15♦	9534DC	ECL	4	4.3n		-.90	-1.7			5.2	0	415m†	Engate	0	7	L00-48	DIP16a
16♦	F10168DC	ECL	4	5.4n	EF	-1.1	-1.4	20m	-.96	5.2	0	390mQ		0	7	L00-77	DIP16a
17♦	F10568DM	ECL	4	5.4n	EF	-1.1	-1.4	10m	-.93	5.2	0	390mQ		5	C	L00-77	DIP16a
18♦	F10568FM	ECL	4	5.4n	EF	-1.1	-1.4	10m	-.93	5.2	0	390mQ		5	C	L00-77	FP103
19♦	HD10133	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	200m		3	8	L00-118	DIP16b
20▼	MC10133FN	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	310m†	FO-90	3	8	L00-12	DIP16a
21♦	MC10133L	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	310m†	FO-90	3	8	L00-12	DIP16a
22▼	MC10133LD	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	310m†	FO-90	3	8	L00-12	DIP16a
23▼	MC10133LDS	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	310m†	FO-90	3	8	L00-12	DIP16a
24♦	MC10133P	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	310m†	FO-90	3	8	L00-12	DIP16b
25▼	MC10133PD	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	310m†	FO-90	3	8	L00-12	DIP16b
26▼	MC10133PDS	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	310m†	FO-90	3	8	L00-12	DIP16b
27▼	MC10168FN	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	390m	FO-90	3	8	L00-13	DIP16a
28♦	MC10168L	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	390m	FO-90	3	8	L00-13	DIP16a
29▼	MC10168LD	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	390m	FO-90	3	8	L00-13	DIP16a
30▼	MC10168LDS	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	390m	FO-90	3	8	L00-13	DIP16a
31♦	MC10168P	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	390m		3	8	L00-13	DIP16b
32▼	MC10168PD	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	390m		3	8	L00-13	DIP16b
33▼	MC10168PDS	ECL	4	5.4n	EF	-1.1	-1.4			5.2	0	390m		3	8	L00-13	DIP16b
34♦	MC10568F	ECL	4	5.4n	EF	-1.1	-1.4	10m	-.93	5.2	0	390m		5	C	L00-13	FP85
35♦	MC10568L	ECL	4	5.4n	EF	-1.1	-1.4	10m	-.93	5.2	0	390m		5	C	L00-13	DIP16a
36▼	MC10153FN	ECL	4	5.6n	EF	-1.1	-1.4			5.2	0	390mQ	FO-90	3	8	L00-12	DIP16a
37♦	MC10153L	ECL	4	5.6n	EF	-1.1	-1.4			5.2	0	390mQ	FO-90	3	8	L00-12	DIP16a
38▼	MC10153LD	ECL	4	5.6n	EF	-1.1	-1.4			5.2	0	390mQ	FO-90	3	8	L00-12	DIP16a
39▼	MC10153LDS	ECL	4	5.6n	EF	-1.1	-1.4			5.2	0	390mQ	FO-90	3	8	L00-12	DIP16a
40♦	MC10153P	ECL	4	5.6n	EF	-1.1	-1.4			5.2	0	390mQ	FO-90	3	8	L00-12	DIP16b
41▼	MC10153PD	ECL	4	5.6n	EF	-1.1	-1.4			5.2	0	390mQ	FO-90	3	8	L00-12	DIP16b
42▼	MC10153PDS	ECL	4	5.6n	EF	-1.1	-1.4			5.2	0	390mQ	FO-90	3	8	L00-12	DIP16b
43♦	DM74AS373J	TTL	4	6.0n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74LS373	DIP20b
44♦	DM74AS373N	TTL	4	6.0n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74LS373	DIP20a
45♦	DM74AS873J	TTL	4	6.0n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74AS873	DIP24a
46♦	DM74AS873N	TTL	4	6.0n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74AS873	DIP24a
47▼	SN74AS873DW	TTL	4	6n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS873	FP170
48♦	SN74AS873FN	TTL	4	6n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	L00-160	LC20a
49♦	SN74AS873NT	TTL	4	6n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS873	DIP24e
50♦	DM54AS373J	TTL	4	7.0n		2.0	0.8	32m	0.5	0	7.0		Transparent	5	C	74LS373	DIP20b
51♦	54F256DM(A)	TTL	4	9.0n		2.0	0.8	20m	0.5	0	7.0		Addressable	5	C	74LS256	DIP16b
52♦	54F256L1M(A)	TTL	4	9.0n		2.0	0.8	20m	0.5	0	7.0		Addressable	5	C	L00-164	LC19
53♦	74F256DC(A)	TTL	4	9.0n		2.0	0.8	20m	0.5	0	7.0		Addressable	0	7	74LS256	DIP16b
54♦	74F256L1C(A)	TTL	4	9.0n		2.0	0.8	20m	0.5	0	7.0		Addressable	0	7	L00-164	LC19
55♦	74F256PC(A)	TTL	4	9.0n		2.0	0.8	20m	0.5	0	7.0		Addressable	0	7	74LS256	DIP16a
56♦	74F256QC(A)	TTL	4	9.0n		2.0	0.8	20m	0.5	0	7.0		Addressable	0	7	L00-164	LC26
57♦	74F256SC(A)	TTL	4	9.0n		2.0	0.8	20m	0.5	0	7.0		Addressable	0	7	54LS256	FP148
58♦	DM54AS873J	TTL	4	9.0n		2.0	0.8	32m	0.5	0	7.0		Transparent	5	C	74AS873	DIP24a
59♦	DM74AS880J	TTL	4	9.5n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74AS880	DIP24a
60♦	DM74AS880N	TTL	4	9.5n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74AS880	DIP24a
61▼	SN74AS880DW	TTL	4	9.5n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS880	FP170
62♦	SN74AS880FN	TTL	4	9.5n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	L00-161	LC20a
63♦	SN74AS880NT	TTL	4	9.5n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS880	DIP24e
64▼	HD74HC375FP	CMS	4	10n		3.15	1.35	4.0m	0.33	0	5.0	500m	BISTABLE	4	8	74LS375N	FP162
65▼	HD74HC375P	CMS	4	10n		3.15	1.35	4.0m	0.33	0	5.0	500m	BISTABLE	4	8	74LS375N	DIP16a
66▼	TC74HC75F(A)	CMS	4	10n		3.15	1.35	4.0m	0.33	0	5.0	180m	Compl. Outputs	4	8	74-75N	FP167
67▼	TC74HC75P(A)	CMS	4	10n		3.15	1.35	4.0m	0.33	0	5.0	500m	Compl. Outputs	4	8	74-75N	DIP16a
68♦	DM54AS880J	TTL	4	11n		2.0	0.8	32m	0.5	0	7.0		Transparent	5	C	74AS880	DIP24a
69♦	9308DC	TTL	4	12n		1.8	0.85	14m	.45	0	5.0	585m	Engate	0	7	74-116N	DIP24b
70♦	9308DM	TTL	4	12n		1.7	.90	14m	0.4	0	5.0	585m	Engate	5	C	74-116N	DIP24b
71	9308FM	TTL	4	12n		1.7	.90	14m	0.4	0	5.0	585m	Engate	5	C	54-116W	FP66
72♦	9308PC	TTL	4	12n		1.8	0.85	14m	.45	0	5.0	585m	Engate	0	7	74-116N	DIP24a
73▼	HD74HC75FP	CMS	4	12n		3.15	1.35	20u	0.1	0	5.0	500m	Compl. Outputs	4	8	74-75N	FP162
74▼	HD74HC75P	CMS	4	12n		3.15	1.35	20u	0.1	0	5.0	500m	Compl. Outputs	4	8	74-75N	DIP16a
75▼	HD74HC77FP	CMS	4	12n		3.15	1.35	20u	0.1	0	5.0	500m		4	8	74LS77N	FP161
76▼	HD74HC77P	CMS	4	12n		3.15	1.35	20u	0.1	0	5.0	500m		4	8	74LS77N	DIP14a
77♦	DM74ALS873J	TTL	4	14n		2.0	0.8	24m	0.5	0	7.0		Transparent	0	7	74AS873	DIP24a
78♦	DM74ALS873N	TTL	4	14n		2.0	0.8	24m	0.5	0	7.0		Transparent	0	7	74AS873	DIP24a
79♦	DM74ALS880J	TTL	4	14n		2.0	0.8	24m	0.5	0	7.0		Transparent	0	7	74AS880	DIP24a
80♦	DM74ALS880N	TTL	4	14n		2.0	0.8	24m	0.5	0	7.0		Transparent	0	7	74AS880	DIP24a
81▼	SN74ALS873BDW	TTL	4	14n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 31mA max	0	7	74AS873	FP170
82▼	SN74ALS873BFN	TTL	4	14n	TS	2.0	0.8	24m	0.5	0	5.0		Transparent	0	7	L00-160	LC20a
83▼	SN74ALS873BNT	TTL	4	14n	TS	2.0	0.8	24m	0.5	0	5.0		Transparent	0	7	74AS873	DIP24e
84♦	UPD74HC375C(A)	CMS	4	14n		4.2	1.2	7.5m	0.4	0	6.0	500m	Dual Bistable	4	8	74LS375	DIP16b
85♦	V54ACT880D	CMS	4	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74AS880	DIP24
86♦	V54ACT880DL	CMS	4	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	L00-161	LC19a
87♦	V74ACT880D	CMS	4	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS880	DIP24
88♦	V74ACT880DL	CMS	4	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-161	LC19a
89♦	V74ACT880P	CMS	4	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS880	DIP24
90♦	V74ACT880PK	CMS	4	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-161	LC27
91♦	V74ACT880PO	CMS	4	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS880	FP170
92♦	DM54ALS873J	TTL	4	15n		2.0	0.8	12m	0.4	0	7.0		Transparent	5	C	74AS873	DIP24a
93♦	DM54ALS880J	TTL	4	15n		2.0	0.8	12m	0.4	0	7.0		Transparent	5	C	74AS880	DIP24a
94▼	SN54ALS873BJT	TTL	4	17n	TS	2.0	0.7	12m	0.4	0	5.0		Transparent	5	C	74AS873	DIP24e
95♦	9314DC	TTL	4	18n		1.8	0.85	14m	.45	0	5.0	300m	ultimode	0	7	L00-33	DIP16b
96♦	9314DM	TTL	4	18n		1.7	.90	14m	0.4	0	5.0	250m	ultimode	5	C	L00-33	DIP16b
97	9314FM	TTL	4	18n		1.7	.90	14m	0.4	0	5.0	250m	ultimode	5	C	L00-33	FP103
98	9314PC	TTL	4	18n		1.8	0.85	14m	.45	0	5.0	300m	ultimode	0	7	L00-33	None
99♦	HD74LS77P	TTL	4	18n		2.0	0.8	8.0m	0.5	0	5.0	400m	Plas Pkg	2	7	74LS77N	DIP14a
100♦	N74116N	TTL	4	18n		2.0	0.8	16m	0.4	0.5	7.0	500m	transpar	0	7	74-116N	DIP24e
101♦	S54116F	TTL	4	18n		2.0	0.8	16m	0.4	0.5	7.0	500m	transpar	5	C	74-116N	DIP24a
102	S54116W	TTL	4	18n		2.0	0.8	16m	0.4	0.5	7.0	500m	transpar	5	C	54-116W	FP59c
103▼	HD74LS77G	TTL	4	19n		2.0	0.8	8.0m	0.5	0	5.0	400m		2	7	74LS77N	DIP14a
104♦	SN74LS75D	TTL	4	19n		2.0	0.8	8.0m	0.5	0	7.0		Compl. Outputs	0	7	74-75	FP148
105▼	SN74ALS880ADW	TTL	4	20n	TS	2.0	0.8	24m	0.5	0.0	5.0		Tranparent	0	7	74AS880	FP170
106▼	SN74ALS880AFN	TTL	4	20n	TS	2.0	0.8	24m	0.5	0.0	5.0		Transparent	0	7	L00-161	LC20a
107▼	SN74ALS880ANT	TTL	4	20n	TS	2.0	0.8	24m	0.5	0.0	5.0		Transparent	0	7	74AS880	DIP24e
108▼	HD74LS75G	TTL	4	22n		2.0	0.8	8.0m	0.5	0	5.0	400m	Compl. Outputs	2	7	74-75N	DIP16a
109♦	HD74LS75P	TTL	4	22n		2.0	0.8	8.0m	0.5	0	5.0	400m	Compl. Outputs	2	7	74-75N	DIP16a
110♦	M54HC375F1(A)	CMS	4	24n		3.15	1.35	20u	0.1	0	7.0	500m		5	C	74LS375	DIP16b

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

26. LATCHES - D-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	2 BITS	3 tpd MAX (s)	1 OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	N9314F	TTL	4	24n		2.0	0.8	16m		0	5.0	275m	transpar	0	7	L00-33	DIP16b
2♦	N9314N	TTL	4	24n		2.0	0.8	16m		0	5.0	275m	transpar	0	7	L00-33	DIP16a
3♦	S9314F	TTL	4	24n		2.0	0.8	16m		0	5.0	275m	transpar	5	C	L00-33	DIP16b
4	S9314W	TTL	4	24n		2.0	0.8	16m		0	5.0	275m	transpar	5	C	L00-33	FP47g
5♦	SN74ALS873FN	TTL	4	24n	TS	2.0	0.8	12m	0.25	0	7.0		Transparent	0	7	L00-160	LC20a
6♦	SN54LS375J	TTL	4	25n		2.0	0.7	4.0m	0.4	0	7.0		Compl. Outputs	5	C	74LS375N	DIP16a
7▼	SN54LS375N	TTL	4	25n		2.0	0.7	4.0m	0.4	0	7.0		Compl. Outputs	5	C	74LS375N	DIP16a
8♦	SN74LS375D	TTL	4	25n		2.0	0.8	8.0m	0.5	0	7.0		Compl. Outputs	0	7	74LS375	FP148
9♦	SN74LS375J	TTL	4	25n		2.0	0.8	8.0m	0.4	0	7.0		Compl. Outputs	0	7	74LS375N	DIP16a
10♦	SN74LS375N	TTL	4	25n		2.0	0.8	8.0m	0.4	0	7.0		Compl. Outputs	0	7	74LS375N	DIP16a
11	74HC75D	CMS	4	26n		3.15	1.35	20u	0.1		5.0		COMP	4	8	74-75	FP162
12♦	74HC75N	CMS	4	26n		4.2	1.8	20u	0.1		5.0		COMP	4	8	74-75	DIP16b
13♦	M54HC75F1(A)	CMS	4	29n		3.15	1.35	20u	0.1	0	7.0	500m	Compl. Outputs	5	C	74-75	DIP16b
14♦	M54HC77F1(A)	CMS	4	29n		3.15	1.35	20u	0.1	0	7.0	500m		5	C	74LS77	DIP14a
15♦	M74HC375B1(A)	CMS	4	29n		3.15	1.35	20u	0.1	0	7.0	500m		4	8	74LS375	DIP16a
16	M74HC375C1(A)	CMS	4	29n		3.15	1.35	20u	0.1	0	7.0	500m		4	8	L00-168	LC33
17♦	M74HC375F1(A)	CMS	4	29n		3.15	1.35	20u	0.1	0	7.0	500m		4	8	74LS375	DIP16b
18♦	54LS256DM	TTL	4	30n		2.0	0.7	4.0m	0.4	0	5.0	125m	addrsble	5	C	74LS256N	DIP16a
19	54LS256FM	TTL	4	30n		2.0	0.7	4.0m	0.4	0	5.0	125m	addrsble	5	C	54LS256W	FP103
20♦	74LS256DC	TTL	4	30n		2.0	0.8	8.0m	0.5	0	5.0	125m	addrsble	0	7	74LS256N	DIP16a
21	74LS256PC	TTL	4	30n		2.0	0.8	8.0m	0.5	0	5.0	125m	addrsble	0	7	74LS256N	None
22♦	74LS375DC	TTL	4	30n		2.0	0.8	4.0m	4.0	0	5.0	60m	Compl. Outputs	0	7	74LS375N	DIP16a
23♦	74LS375PC	TTL	4	30n		2.0	0.8	4.0m	4.0	0	5.0	60m	Compl. Outputs	0	7	74LS375N	DIP16 Ø
24♦	DM54LS75J	TTL	4	30n		2.0	0.7	4.0m	0.4	0	7.0		Compl. Outputs	5	C	74-75	DIP16a
25	DM54LS77W	TTL	4	30n		2.0	0.7	4.0m	0.4	0	7.0			5	C	54-77	FP175
26♦	DM74LS75N	TTL	4	30n		2.0	0.8	8.0m	0.5	0	7.0	32m	Compl. Outputs	0	7	74-75	DIP16a
27	DM74LS77W	TTL	4	30n		2.0	0.8	8.0m	0.5	0	7.0			0	7	54-77	FP175
28▼	HD74LS375G	TTL	4	30n		2.0	0.8	8.0m	0.5	0	5.0	400m		2	7	74LS375N	DIP16a
29♦	HD74LS375P	TTL	4	30n		2.0	0.8	8.0m	0.5	0	5.0	400m		2	7	74LS375N	DIP16a
30♦	M74LS75P	TTL	4	30n		2.0	0.8	8.0m	0.5	0.5	7.0	32m†	Compl. Outputs	2	7	74-75N	DIP16b
31♦	M74LS375P	TTL	4	30n		2.0	0.8	8.0m	0.5	0.5	7.0	32m†		2	7	74LS375N	DIP16b
32♦	MC4037L	TTL	4	30n		2.4	0.4	16m	0.4	0	5.0	150m†		0	7	4-037P	TO-116
33♦	MC4037P	TTL	4	30n		2.4	0.4	16m	0.4	0	5.0	150m†		0	7	4-037P	TO-116
34♦	MC4337F	TTL	4	30n		2.4	0.4	13m	0.4	0	5.0	150m†		5	C	4-037P	TO-86
35♦	N74LS375D	TTL	4	30n		2.0	0.8	8.0m	0.5	0	7.0	60m	Transparent	0	7	74LS375N	FP148
36♦	N74LS375F	TTL	4	30n		2.0	0.8	8.0m	0.5	0	7.0	60m	transpar	0	7	74LS375N	DIP16b
37♦	N74LS375N	TTL	4	30n		2.0	0.8	8.0m	0.5	0	7.0	60m	Transparent	0	7	74LS375N	DIP16a
38♦	N74100F	TTL	4	30n		2.0	0.8	16m	0.4	0	5.0	530m	transpar	0	7	74-100N	DIP24a
39♦	N74100N	TTL	4	30n		2.0	0.8	16m	0.4	0	5.0	530m	transpar	0	7	74-100N	DIP24a
40♦	N74116F	TTL	4	30n		2.0	0.8	16m	0.4	0	5.0	500m	transpar	0	7	74-116N	DIP24a
41♦	PC74HC75D(A)	CMS	4	30n		3.15	0.9	20u	0.1	0	7.0	500m	Compl. Outputs	4	8	74-75	DIP16b
42♦	S54LS375F	TTL	4	30n		2.0	0.7	4.0m	0.4	0	7.0	60m	Transparent	5	C	74LS375N	DIP16b
43♦	S54LS375G	TTL	4	30n		2.0	0.7	4.0m	0.4	0	7.0	60m	Transparent	5	C	L00-168	LC25a
44♦	S54LS375W	TTL	4	30n		2.0	0.7	4.0m	0.4	0	7.0	60m	Transparent	5	C	54LS375W	FP47g
45♦	S9308F	TTL	4	30n		2.0	0.8	14m		0	5.0	500m	Engate	5	C	74-116N	DIP24a
46	S9308Q	TTL	4	30n		2.0	0.8	14m		0	5.0	500m	Engate	5	C	54-116W	FP59c
47♦	S54100F	TTL	4	30n		2.0	0.8	16m	0.4	0	5.0	460m	nsparent	5	C	74-100N	DIP24a
48	S54100Q	TTL	4	30n		2.0	0.8	16m	0.4	0	5.0	460m		5	C	54-100W	FP59b
49	S54100W	TTL	4	30n		2.0	0.8	16m	0.4	0	5.0	460m	transpar	5	C	54-100W	FP59c
50♦	SN54LS75J	TTL	4	30n		2.0	0.7	4.0m	0.4	0	5.0		Compl. Outputs	5	C	74-75N	DIP16a
51▼	SN54LS75N	TTL	4	30n		2.0	0.7	4.0m	0.4	0	5.0		Compl. Outputs	5	C	74-75N	DIP16a
52♦	SN54LS77J	TTL	4	30n		2.0	0.7	4.0m	0.4	0	5.0		Compl. Outputs	5	C	74LS77N	DIP14a
53▼	SN54LS77N	TTL	4	30n		2.0	0.7	4.0m	0.4	0	5.0		Compl. Outputs	5	C	74LS77N	DIP14a
54♦	SN54LS256J	TTL	4	30n		2.0	0.7	4.0m	0.4	0	5.0	125m	addrsble	5	C	74LS256N	DIP16a
55▼	SN54LS256N	TTL	4	30n		2.0	0.7	4.0m	0.4	0	5.0	125m	addrsble	5	C	74LS256N	DIP16a
56♦	SN74HC75N	CMS	4	30n		3.15	0.9	4.0m	0.33	0.0	5.0		Compl. Outputs	4	8	74-75N	DIP16a
57▼	SN74HC77D	CMS	4	30n		3.15	0.9	4.0m	0.33	0.0	5.0		Q only	4	8	74LS77N	FP147
58♦	SN74HC77N	CMS	4	30n		3.15	0.9	4.0m	0.33	0.0	5.0		Q only	4	8	74LS77N	MO001AA
59♦	SN74LS75J	TTL	4	30n		2.0	0.8	8.0m	0.5	0	5.0		Compl. Outputs	0	7	74-75N	DIP16a
60♦	SN74LS75N	TTL	4	30n		2.0	0.8	8.0m	0.5	0	5.0		Compl. Outputs	0	7	74-75N	DIP16a
61♦	SN74LS77J	TTL	4	30n		2.0	0.8	8.0m	0.5	0	5.0		Compl. Outputs	0	7	74LS77N	DIP14a
62♦	SN74LS77N	TTL	4	30n		2.0	0.8	8.0m	0.5	0	5.0		Compl. Outputs	0	7	74LS77N	DIP14a
63♦	SN74LS256J	TTL	4	30n		2.0	0.8	8.0m	0.5	0	5.0	125m	addrsble	0	7	74LS256N	DIP16a
64♦	SN74LS256N	TTL	4	30n		2.0	0.8	8.0m	0.5	0	5.0	125m	addrsble	0	7	74LS256N	DIP16b
65♦	SN54100J	TTL	4	30n		2.0	0.8	16m	0.4	0	7.0	320m†	Bistable	5	C	74-100N	DIP24a
66♦	SN54116J	TTL	4	30n		2.0	0.8	16m	0.4	0	7.0	500m	Bistable	5	C	74-116N	DIP24a
67♦	SN74100N	TTL	4	30n		2.0	0.8	16m	0.4	0	7.0	320m†	Bistable	0	7	74-100N	DIP24a
68▼	TC74HC77F(A)	CMS	4	30n		3.15	1.35	4.0m	0.33	0	5.0	180m	10 LSTTL Loads	4	8	74LS77N	FP166
69▼	TC74HC77P(A)	CMS	4	30n		3.15	1.35	4.0m	0.33	0	5.0	500m	10 LSTTL Loads	4	8	74LS77N	DIP14a
70▼	TC74HC375F(A)	CMS	4	30n		3.15	1.35	4.0m	0.33	0	5.0	180m	tr,tf 19ns max	4	8	74LS375N	FP167
71▼	TC74HC375P(A)	CMS	4	30n		3.15	1.35	4.0m	0.33	0	5.0	500m	tr,tf 19ns max	4	8	74LS375N	DIP16a
72♦	MM74HC75J	CMS	4	31n		4.2	1.2	4.0m	0.33	0	7.0	500m	Compl. Outputs	4	8	74-75N	DIP16a
73♦	MM74HC75N	CMS	4	31n		4.2	1.2	4.0m	0.33	0	7.0	500m	Compl. Outputs	4	8	74-75N	DIP16a
74♦	93L08DC	TTL	4	32n		1.8	0.85	14m	.45	0	5.0	100m†	Engate	0	7	74-116N	DIP24b
75♦	93L08DM	TTL	4	32n		1.7	.90	14m	0.4	0	5.0	100m†	Engate	5	C	74-116N	DIP24b
76	93L08FM	TTL	4	32n		1.7	.90	14m	0.4	0	5.0	100m†	Engate	5	C	54-116W	FP66
77♦	93L08PC	TTL	4	32n		1.8	0.85	14m	.45	0	5.0	100m†	Engate	0	7	74-116N	DIP24a
78♦	M74LS256P	TTL	4	32n		2.0	0.8	8.0m	0.5	0	5.0	125m	addrsble	2	7	L00-47	DIP14a
79♦	N74LS256D	TTL	4	32n		2.0	0.8	8.0m	0.5	0.5	7.0	180m	Addressable	0	7	54LS256	FP148
80♦	N74LS256N	TTL	4	32n		2.0	0.8	8.0m	0.5	0.5	7.0	180m	Addressable	0	7	74LS256N	DIP16a
81♦	S54LS256F	TTL	4	32n		2.0	0.7	4.0m	0.4	0.5	7.0	180m	Addressable	5	C	74LS256N	DIP16b
82♦	S54LS256W	TTL	4	32n		2.0	0.7	4.0m	0.4	0.5	7.0	180m	Addressable	5	C	54LS256W	FP154
83♦	PC74HC75P	CMS	4	33n		3.15	1.35	20u	0.1	0	5.0	500m	Compl. Outputs	4	C	74-75	DIP16b
84♦	PC74HC75T	CMS	4	33n		3.15	1.35	20u	0.1	0	5.0	300m	Compl. Outputs	4	C	74-75	FP148
85▼	SN74HC375D(A)	CMS	4	33n		3.15	0.9	4.0m	0.33	0	5.0	500m	BISTABLE	4	8	74LS375N	FP162
86▼	SN74HC375N(A)	CMS	4	33n		3.15	0.9	4.0m	0.33	0	5.0	500m	BISTABLE	4	8	74LS375N	DIP16a
87	74HCT75D	CMS	4	35n		2.0	0.8	20u	0.1		5.0		COMP	4	8	74-75	FP162
88♦	74HCT75N	CMS	4	35n		2.0	0.8	20u	0.1		5.0		COMP	4	8	74-75	DIP16b
89♦	5475DM	TTL	4	35n		2.0	0.8			0	5.0	250m	Compl. Outputs	5	C	74-75N	DIP14a
90♦	5475FM	TTL	4	35n		2.0	0.8			0	5.0	250m	Compl. Outputs	5	C	54-75W	FP52
91♦	5477FM	TTL	4	35n		2.0	0.8			0	5.0	250m	Compl. Outputs	5	C	54-77W	FP52
92♦	7475DC	TTL	4	35n		2.0	0.8			0	5.0	250m	Compl. Outputs	0	7	74-75N	DIP14a
93♦	7475PC	TTL	4	35n		2.0	0.8			0	5.0	250m	Compl. Outputs	0	7	74-75N	DL Ø
94♦	M74HC75B1(A)	CMS	4	35n		3.15	1.35	20u	0.1	0	7.0	500m	Compl. Outputs	4	8	74-75	DIP16a
95♦	M74HC75C1(A)	CMS	4	35n		3.15	1.35	20u	0.1	0	7.0	500m	Compl. Outputs	4	8	None	LC33
96♦	M74HC75F1(A)	CMS	4	35n		3.15	1.35	20u	0.1	0	7.0	500m	Compl. Outputs	4	8	74-75	DIP16b
97♦	M74HC77B1(A)	CMS	4	35n		3.15	1.35	20u	0.1	0	7.0	500m		4	8	74LS77	DIP14a
98	M74HC77C1(A)	CMS	4	35n		3.15	1.35	20u	0.1	0	7.0	500m		4	8	None	LC33
99♦	M74HC77F1(A)	CMS	4	35n		3.15	1.35	20u	0.1	0	7.0	500m		4	8	74LS77	DIP14a
100♦	N9308F	TTL	4	35n		2.0	0.8	14m		0	5.0	500m	Engate	0	7	74-116N	DIP24a
101♦	N9308N	TTL	4	35n		2.0	0.8	14m		0	5.0	500m	Engate	0	7	74-116N	DIP24a
102♦	PC74HCT75D(A)	CMS	4	35n		2.0	0.8	20u	0.1	0	7.0	500m	Compl. Outputs	4	8	74-75	DIP16b
103♦	PC54HC75D(A)	CMS	4	36n		3.15	0.9	20u	0.1	0	7.0	500m	Compl. Outputs	5	C	74-75	DIP16b
104♦	MM54HC75J	CMS	4	38n		4.2	1.2	4.0m	0.4	0.5	7.0	500m	Compl. Outputs	5	C	74-75N	DIP16a
105♦	N74LS256F	TTL	4	38n		2.0	0.8	8.0m	0.5	0	5.0	180m	Addressable	0	7	74LS256N	DIP16b
106	HEF4508	CMS	4	40n		11	4.0	3.0m	1.5	0	15	400m		4	8	45-08B	DL Ø
107♦	HEF4508BPN	CMS	4	40n		11.0	4.0	3.0m	1.5	0	15	400m		4	8	45-08B	DIP24b
108♦	SN5475J	TTL	4	40n		2.0	0.8	16m	0.4	0	7.0	160m†	Compl. Outputs	5	C	74-75N	DIP16a
109♦	SN7475N	TTL	4	40n		2.0	0.8	16m	0.4	0	7.0	160m†	Compl. Outputs	0	7	74-75N	DIP16a
110♦	PC54HCT75D(A)	CMS	4	42n		2.0	0.8	20u	0.1	0	7.0	500m	Compl. Outputs	5	C	74-75	DIP16b

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

26. LATCHES - D-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	2 BITS	3 tpd MAX (s)	1 OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	PC74HCT75P	CMS	4	42n		2.0	0.8	20u	0.1	0	5.0	500m	Compl. Outputs	4	C	74-75	DIP16b
2♦	PC74HCT75T	CMS	4	42n		2.0	0.8	20u	0.1	0	5.0	300m	Compl. Outputs	4	C	74-75	FP148
3♦	93L14DC	TTL	4	45n		1.8	0.85	14m	.45	0	5.0	50m†	Multim	0	7	L00-33	DIP16b
4♦	93L14DM	TTL	4	45n		1.7	.90	14m	0.4	0	5.0	50m†	Multim	5	C	L00-33	DIP16b
5	93L14FM	TTL	4	45n		1.7	.90	14m	0.4	0	5.0	50m†	Multim	5	C	L00-33	FP103
6	93L14PC	TTL	4	45n		1.8	0.85	14m	.45	0	5.0	50m†	Multim	0	7	L00-33	None
7♦	HCC4508BD	CMS	4	50n		11	4.0	3.4m	1.5	0	15			5	C	45-08B	DIP24a
8	HCC4508BK	CMS	4	50n		11	4.0	3.4m	1.5	0	15			5	C	45-08B	FP109
9♦	HCF4508BD	CMS	4	50n		11	4.0	3.4m	1.5	0	15			4	8	45-08B	DIP24a
10	HCF4508BE	CMS	4	50n		11	4.0	3.4m	1.5	0	15			4	8	45-08B	MO015AA
11♦	MC4035L	TTL	4	50n		2.4	0.4	11m	0.4	0	5.0	140mt	opn coll	0	7	4-035P	TO-116
12♦	MC4035P	TTL	4	50n		2.4	0.4	11m	0.4	0	5.0	140mt	opn coll	0	7	4-035P	TO-116
13♦	MC4335F	TTL	4	50n		2.4	0.4	9.3m	0.4	0	5.0	140mt	opn coll	5	C	4-035P	TO-86
14♦	MC4335L	TTL	4	50n		2.4	0.4	9.3m	0.4	0	5.0	140mt	opn coll	5	C	4-035P	TO-116
15	TC40H375F	CMS	4	65n		4.0	1.0	1.1m	0.4	0	10	180m	Bistable	4	8	74LS375N	FP167
16	TC40H375P	CMS	4	65n		4.0	1.0	1.1m	0.4	0	10	300m	Bistable	4	8	74LS375N	MO001AC
17♦	MC14508BAL	CMS	4	70n		11.0	4.0	3.0m	1.5	0	15	60uQ	FO50	5	C	45-08B	DIP24a
18▼	MC14508BALD	CMS	4	70n		11.0	4.0	3.0m	1.5	0	15	60uQ	FO50	5	C	45-08B	DIP24a
19▼	MC14508BALDS	CMS	4	70n		11.0	4.0	3.0m	1.5	0	15	60uQ	FO50	5	C	45-08B	DIP24a
20▼	MC14508BALS	CMS	4	70n		11.0	4.0	3.0m	1.5	0	15	60uQ	FO50	5	C	45-08B	DIP24a
21♦	MC14508BCL	CMS	4	70n		11.0	4.0	3.0m	1.5	0	15	240uQ	FO50	4	8	45-08B	DIP24a
22▼	MC14508BCLD	CMS	4	70n		11.0	4.0	3.0m	1.5	0	15	240uQ	FO50	4	8	45-08B	DIP24a
23▼	MC14508BCLDS	CMS	4	70n		11.0	4.0	3.0m	1.5	0	15	240uQ	FO50	4	8	45-08B	DIP24a
24▼	MC14508BCLS	CMS	4	70n		11.0	4.0	3.0m	1.5	0	15	240uQ	FO50	4	8	45-08B	DIP24a
25♦	MC14508BCP	CMS	4	70n		11.0	4.0	3.0m	1.5	0	15	240uQ	FO50	4	8	45-08B	DIP24a
26▼	MC14508BCPD	CMS	4	70n		11.0	4.0	3.0m	1.5	0	15	240uQ	FO50	4	8	45-08B	DIP24a
27▼	MC14508BCPDS	CMS	4	70n		11.0	4.0	3.0m	1.5	0	15	240uQ	FO50	4	8	45-08B	DIP24a
28▼	MC14508BCPS	CMS	4	70n		11.0	4.0	3.0m	1.5	0	15	240uQ	FO50	4	8	45-08B	DIP24a
29♦	4042BDC	CMS	4	72n		11	4.0	3.0m	1.5	0	15	9.0mQ	Compl. Outputs	4	8	40-42B	DIP16a
30♦	4042BDM	CMS	4	72n		11	4.0	3.4m	1.5	0	15	9.0mQ	Compl. Outputs	5	C	40-42B	DIP16a
31♦	4042BFC	CMS	4	72n		11	4.0	3.0m	1.5	0	15	9.0mQ	Compl. Outputs	4	8	40-42B	FP103
32♦	4042BFM	CMS	4	72n		11	4.0	3.4m	1.5	0	15	9.0mQ	Compl. Outputs	5	C	40-42B	FP103
33♦	4042BPC	CMS	4	72n		11	4.0	3.0m	1.5	0	15	9.0mQ	Compl. Outputs	4	8	40-42B	None
34♦	HEF4042	CMS	4	75n		11	4.0	3.0m	1.5	0	15	400m	Compl. Outputs	4	8	40-42B	DL ☑
35♦	HEF4042BPN	CMS	4	75n		11.0	4.0	3.0m	1.5	0	15	400m	Compl. Outputs	4	8	40-42B	DIP16b
36♦	HEF4042BTD	CMS	4	75n		11.0	4.0	3.0m	1.5	0	15	200m	Compl. Outputs	4	8	40-42B	FP148
37♦	883C4042B	CMS	4	80n		8.2	6.7	3.4m	1.5	0	15	300m	Compl. Outputs	5	C	40-42B	MO001AG
38♦	4723BDC	CMS	4	80n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	47-23B	DIP16a
39♦	4723BDM	CMS	4	80n		11	4.0	3.4m	1.5	0	15	9.0mQ	addrsble	5	C	47-23B	DIP16a
40	4723BFC	CMS	4	80n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	47-23B	FP103
41	4723BFM	CMS	4	80n		11	4.0	3.4m	1.5	0	15	9.0mQ	addrsble	5	C	47-23B	FP103
42	4723BPC	CMS	4	80n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	47-23B	None
43♦	BCL4042B	CMS	4	80n		8.2	6.7	3.4m	1.5	0	15	300m	Compl. Outputs	5	C	40-42B	MO001AG
44♦	HEF4042BD	CMS	4	80n	CO	8.0	2.0			0	10.0	500m	Compl. Outputs	4	8	40-42B	DIP16b
45♦	HEF4042BP	CMS	4	80n	CO	8.0	2.0			0	10.0	500m	Compl. Outputs	4	8	40-42B	DIP16b
46♦	HEF4042BT	CMS	4	80n	CO	8.0	2.0			0	10.0	400m	Compl. Outputs	4	8	40-42B	FP148
47▼	CDP1859D	CMS	4	100n	CM	7.0	3.0	2.6m	0.5		10	500m	Decoder MEM I/F	5	C	L00-175	DIP16a
48▼	CDP1859E	CMS	4	100n	CM	7.0	3.0	2.6m	0.5		10	500m	Decoder MEM I/F	4	8	L00-175	DIP16b
49	DM54L75AW	TTL	4	100n		2.0	0.7			0	8.0	17m		5	C	54-75W	FP98b
50♦	HCC4042BD	CMS	4	100n		11	4.0	3.4m	1.5	0	15	300uQ	Compl. Outputs	5	C	40-42B	DIP16a
51♦	HCC4042BF	CMS	4	100n		11	4.0	3.4m	1.5	0	15	300uQ	Compl. Outputs	5	C	40-42B	DIP16a
52♦	HCC4042BK	CMS	4	100n		11	4.0	3.4m	1.5	0	15	300uQ	Compl. Outputs	5	C	40-42B	FP131
53♦	HCF4042BE	CMS	4	100n		11	4.0	3.4m	1.5	0	15	300uQ	Compl. Outputs	4	8	40-42B	DIP16a
54♦	HCF4042BF	CMS	4	100n		11	4.0	3.4m	1.5	0	15	300uQ	Compl. Outputs	4	8	40-42B	DIP16a
55♦	HEF4508BD	CMS	4	100n	TS	7.0	3.0	1u	1.0	0	10	500m	.	4	8	45-08B	DIP24b
56♦	HEF4508BP	CMS	4	100n	TS	7.0	3.0	1u	1.0	0	10	500m	.	4	8	45-08B	DIP24b
57♦	HEF4508BT	CMS	4	100n	TS	7.0	3.0	1u	1.0	0	10	400m	.	4	8	45-08B	FP170
58♦	SCL4042B	CMS	4	110n		3.5Δ	1.0✱	1.3m	0.5	0	18	30uQ	Compl. Outputs	5	C	40-42B	DIP16a
59♦	883C4508B	CMS	4	120n	TS	8.2	6.7	3.4m	1.5	0	15	300m		5	C	45-08B	MO015AA
60♦	BCL4508B	CMS	4	120n	TS	8.2	6.7	3.4m	1.5	0	15	300m		5	C	45-08B	MO015AA
61♦	CD4042BCJ	CMS	4	120n		11	4.0	3.0m	1.5	0	15	240uQ	Compl. Outputs	4	8	40-42B	DIP16a
62♦	CD4042BCN	CMS	4	120n		11	4.0	3.0m	1.5	0	15	240uQ	Compl. Outputs	4	8	40-42B	DIP16a
63♦	CD4042BMJ	CMS	4	120n		11	4.0	3.4m	1.5	0	15	60uQ	Compl. Outputs	5	C	40-42B	DIP16a
64♦	CD4042BMW	CMS	4	120n		11	4.0	3.4m	1.5	0	15	60uQ	Compl. Outputs	5	C	40-42B	FP88c
65♦	CD4508BD	CMS	4	120n	TS	7.0	3.0	1.3m	0.5	0	20	500m		5	C	45-08B	MO015AG
66♦	CD4508BE	CMS	4	120n	TS	7.0	3.0	1.3m	0.5	0	20	500m		4	8	45-08B	MO015AA
67♦	CD4508BF	CMS	4	120n	TS	7.0	3.0	1.3m	0.5	0	20	500m		5	C	45-08B	MO015AA
68♦	DM54L75AJ	ITL	4	120n		2.0	0.7	2.0m	0.3		5.0		COMP	5	C	54-75	DIP16b
69♦	DM74L75AN	ITL	4	120n		2.0	0.7	3.6m	0.4		5.0		COMP	0	7	74-75	DIP16a
70♦	MC14042BAL	CMS	4	120n		11.0	4.0	3.0m	1.5	0	15	60uQ	Compl. Outputs	5	C	40-42B	DIP16b
71▼	MC14042BALD	CMS	4	120n		11.0	4.0	3.0m	1.5	0	15	60uQ	Compl. Outputs	5	C	40-42B	DIP16b
72▼	MC14042BALDS	CMS	4	120n		11.0	4.0	3.0m	1.5	0	15	60uQ	Compl. Outputs	5	C	40-42B	DIP16b
73▼	MC14042BALS	CMS	4	120n		11.0	4.0	3.0m	1.5	0	15	60uQ	Compl. Outputs	5	C	40-42B	DIP16b
74♦	MC14042BCL	CMS	4	120n		11.0	4.0	3.0m	1.5	0	15	240uQ	Compl. Outputs	4	8	40-42B	DIP16b
75▼	MC14042BCLD	CMS	4	120n		11.0	4.0	3.0m	1.5	0	15	240uQ	Compl. Outputs	4	8	40-42B	DIP16b
76▼	MC14042BCLDS	CMS	4	120n		11.0	4.0	3.0m	1.5	0	15	240uQ	Compl. Outputs	4	8	40-42B	DIP16b
77▼	MC14042BCLS	CMS	4	120n		11.0	4.0	3.0m	1.5	0	15	240uQ	Compl. Outputs	4	8	40-42B	DIP16b
78♦	MC14042BCP	CMS	4	120n		11.0	4.0	3.0m	1.5	0	15	240uQ	Compl. Outputs	4	8	40-42B	DIP16a
79▼	MC14042BCPD	CMS	4	120n		11.0	4.0	3.0m	1.5	0	15	240uQ	Compl. Outputs	4	8	40-42B	DIP16a
80▼	MC14042BCPDS	CMS	4	120n		11.0	4.0	3.0m	1.5	0	15	240uQ	Compl. Outputs	4	8	40-42B	DIP16a
81▼	MC14042BCPS	CMS	4	120n		11.0	4.0	3.0m	1.5	0	15	240uQ	Compl. Outputs	4	8	40-42B	DIP16a
82▼	MC14042BD	CMS	4	120n		11.0	4.0	3.0m	1.5	0	15	240uQ	Compl. Outputs	4	8	40-42B	DIP16a
83▼	CDP1858D	CMS	4	125n	CM	7.0	3.0	2.6m	0.5		10	500m	Decoder MEM I/F	5	C	L00-174	DIP16a
84▼	CDP1858E	CMS	4	125n	CM	7.0	3.0	2.6m	0.5		10	500m	Decoder MEM I/F	4	8	L00-174	DIP16b
85▼	CDP1866E	CMS	4	125n	CM	7.0	3.0	2.6m	0.5		10	500m	Decoder MEM I/F	4	8	L00-149	DIP18a
86♦	HBC4042AD(1)	CMS	4	125n		9.99	.01	1.0m	0.5	0	10	20uQ	Compl. Outputs	5	C	40-42B	DIP16a
87♦	HBC4042AF(1)	CMS	4	125n		9.99	.01	1.0m	0.5	0	10	20uQ	Compl. Outputs	5	C	40-42B	DIP16a
88♦	HBC4042AK(1)	CMS	4	125n		9.99	.01	1.0m	0.5	0	10	20uQ	Compl. Outputs	5	C	40-42B	FP131
89♦	HEF4042P	CMS	4	132n		7.0	3.0	2.0m	0.5	0	10	200uQ	Compl. Outputs	4	8	40-42B	DIP16b
90♦	CD4042BD	CMS	4	150n		7.0	3.0	1.3m	0.5	0	20	500m	Compl. Outputs	5	C	40-42B	MO001AE
91♦	CD4042BE	CMS	4	150n		7.0	3.0	1.3m	0.5	0	20	500m	Compl. Outputs	4	8	40-42B	MO001AC
92♦	CD4042BF	CMS	4	150n		7.0	3.0	1.3m	0.5	0	20	500m	Compl. Outputs	5	C	40-42B	MO001AC
93♦	CD4723BCJ	CMS	4	150n		11	4.0	3.0m	1.5	0	15	1.2mQ	Addressable	4	8	47-23B	DIP16a
94♦	CD4723BCN	CMS	4	150n		11	4.0	3.0m	1.5	0	15	1.2mQ	Addressable	4	8	47-23B	DIP16a
95♦	CD4723BMJ	CMS	4	150n		11	4.0	3.4m	1.5	0	15	300uQ	Addressable	5	C	47-23B	DIP16a
96♦	CD4723BMW	CMS	4	150n		11	4.0	3.4m	1.5	0	15	300uQ	Addressable	5	C	47-23B	FP88c
97♦	UPD4042BG	CMS	4	160n		11.0	4.0	2.4m	1.5	0	18	200m	Compl. Outputs	4	8	40-42B	FP162
98♦	CD4042AD(1)	CMS	4	200n		9.5	0.05C	1.0m	0.5	0	15	500m	Compl. Outputs	5	C	40-42B	MO001AE
99♦	CD4042AF(1)	CMS	4	200n		9.5	0.05C	1.0m	0.5	0	15	500m	Compl. Outputs	5	C	40-42B	MO001AC
100▼	CDP1859CD	CMS	4	200n	CM	3.5	1.5	1.6m	0.4		5.0	500m	Decoder MEM I/F	5	C	L00-175	DIP16a
101▼	CDP1859CE	CMS	4	200n	CM	3.5	1.5	1.6m	0.4		5.0	500m	Decoder MEM I/F	4	8	L00-175	DIP16b
102▼	CDP1866CD	CMS	4	200n	CM	3.5	1.5	1.6m	0.4		5.0	500m	Decoder MEM I/F	5	C	L00-149	DIP18a
103▼	CDP1866CE	CMS	4	200n	CM	3.5	1.5	1.6m	0.4		5.0	500m	Decoder MEM I/F	4	8	L00-149	DIP18a
104▼	CDP1867CD	CMS	4	200n	CM	3.5	1.5	1.6m	0.4		5.0	500m	Addressable	5	C	L00-150	DIP18a
105▼	CDP1867CE	CMS	4	200n	CM	3.5	1.5	1.6m	0.4		5.0	500m	Addressable	4	8	L00-150	DIP18a
106▼	CDP1868CD	CMS	4	200n	CM	3.5	1.5	1.6m	0.4		5.0	500m	Addressable	5	C	L00-149	DIP18a
107▼	CDP1868CE	CMS	4	200n	CM	3.5	1.5	1.6m	0.4		5.0	500m	Addressable	4	8	L00-149	DIP18a
108♦	HBF4042AE(1)	CMS	4	200n		9.99	.01	500u	0.5	0	10	200uQ	Compl. Outputs	4	8	40-42B	DIP16a
109♦	HBF4042AF(1)	CMS	4	200n		9.99	.01	500u	0.5	0	10	200uQ	Compl. Outputs	4	8	40-42B	DIP16a
110♦	TC4508BP	CMS	4	200n		14.9	.05	3.0m	1.5	0	15	300m		4	8	45-08B	DIP24b

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

26. LATCHES - D-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS
(3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	2 BITS	3 tpd MAX (s)	1 OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1	SCL4508B	CMS	4	220n		3.5Δ	1.0*	1.3m	0.5	0	18	300m	tate Out	5	C	45-08B	None
2▼	CDP1858CD	CMS	4	225n	CM	3.5	1.5	1.6m	0.4		5.0	500m	Decoder MEM I/F	5	C	L00-174	DIP16a
3▼	CDP1858CE	CMS	4	225n	CM	3.5	1.5	1.6m	0.4		5.0	500m	Decoder MEM I/F	4	8	L00-174	DIP16b
4♦	CD4042AE(1)	CMS	4	250n		9.5	0.05C	500u	0.5	0	15	500m	Compl. Outputs	4	8	40-42B	MO001AC
5♦	MC682L	TTL	4	300n		12.5	1.5	12m	1.5	0	15	375m†	Compl. Outputs	3	7	6-82P	DIP16b
6♦	MC682P	TTL	4	300n		12.5	1.5	12m	1.5	0	15	375m†	Compl. Outputs	3	7	6-82P	DIP16a
7♦	TC4042BP	CMS	4	300n		14.9	.05	3.0m	1.5	0	15	300m		4	8	40-42B	DIP16a
8♦	MSM4042	CMS	4	400n		7.2	2.0	3.0m	0.5	0	16	200m	Clocked	2	7	40-42B	DIP16a
9♦	MSM4508RS	CMS	4	400n		3.6	1.0			0.3	16	200m		4	8	45-08B	DIP24 ☑
10▼	MC10H175FN	ECL	5	1.7n	EF	-1.1	-1.4			5.2	0	400m†		0	7	L00-15	DIP16a
11♦	MC10H175L	ECL	5	1.7n	EF	-1.1	-1.4			5.2	0	400m†		0	7	L00-15	DIP16a
12▼	MC10H175LD	ECL	5	1.7n	EF	-1.1	-1.4			5.2	0	400m†		0	7	L00-15	DIP16a
13▼	MC10H175LDS	ECL	5	1.7n	EF	-1.1	-1.4			5.2	0	400m†		0	7	L00-15	DIP16a
14♦	MC10H175P	ECL	5	1.7n	EF	-1.1	-1.4			5.2	0	400m†		0	7	L00-15	DIP16b
15▼	MC10H175PD	ECL	5	1.7n	EF	-1.1	-1.4			5.2	0	400m†		0	7	L00-15	DIP16b
16▼	MC10H175PDS	ECL	5	1.7n	EF	-1.1	-1.4			5.2	0	400m†		0	7	L00-15	DIP16b
17♦	MC10H175J	ECL	5	2.2n	EF	-1.1	-1.4		-1.6	5.2	0	400m†	ECL 10KH	0	7	L00-15	DIP16a
18♦	MC10H175N	ECL	5	2.2n	EF	-1.1	-1.4		-1.6	5.2	0	400m†	ECL 10KH	0	7	L00-15	DIP16a
19♦	100175D	ECL	5	3.4n	EF	-1.1	-1.4			4.5	0	350m†		0	8	L00-39	DIP16b
20♦	10175F	ECL	5	3.6n	EF	-1.1	-1.4		-1.6	5.2	0	405m†	Wired-OR	3	8	L00-15	DIP16a
21♦	10175N	ECL	5	3.6n	EF	-1.1	-1.4		-1.6	5.2	0	405m†	Wired-OR	3	8	L00-15	DIP16a
22♦	F10175DC	ECL	5	4.3n	EF	-1.1	-1.4	20m	-.96	5.2	0	504mQ	Q Latch	0	7	L00-78	DIP16a
23♦	F10575DM	ECL	5	4.3n	EF	-1.1	-1.4	10m	-.93	5.2	0	504mQ	nt Latch	5	C	L00-78	DIP16a
24♦	F10575FM	ECL	5	4.3n	EF	-1.1	-1.4	10m	-.93	5.2	0	504mQ	nt Latch	5	C	L00-78	FP103
25♦	MC10575F	ECL	5	4.3n	EF	-1.1	-1.4	10m	-.96	5.2	0	504m	Q Latch	5	C	L00-78	FP85
26♦	MC10575L	ECL	5	4.3n	EF	-1.1	-1.4	10m	-.96	5.2	0	504m	Q Latch	5	C	L00-78	DIP16a
27▼	MC10175FN	ECL	5	4.5n	EF	-1.1	-1.4			5.2	0	504m	Q Latch	3	8	L00-78	DIP16a
28♦	MC10175L	ECL	5	4.5n	EF	-1.1	-1.4			5.2	0	504m	Q Latch	3	8	L00-78	DIP16a
29▼	MC10175LD	ECL	5	4.5n	EF	-1.1	-1.4			5.2	0	504m	Q Latch	3	8	L00-78	DIP16a
30▼	MC10175LDS	ECL	5	4.5n	EF	-1.1	-1.4			5.2	0	504m	Q Latch	3	8	L00-78	DIP16a
31♦	MC10175P	ECL	5	4.5n	EF	-1.1	-1.4			5.2	0	504m	Q Latch	3	8	L00-78	DIP16b
32▼	MC10175PD	ECL	5	4.5n	EF	-1.1	-1.4			5.2	0	504m	Q Latch	3	8	L00-78	DIP16b
33▼	MC10175PDS	ECL	5	4.5n	EF	-1.1	-1.4			5.2	0	504m	Q Latch	3	8	L00-78	DIP16b
34♦	100150FC	ECL	6	750p	EF					4.5	0	480m†		0	7	L00-80	FP26
35♦	HD100150	ECL	6	1.7n	EF	-1.1	-1.4			4.5	0	40m†	comp out	0	8	L00-80	DIP24d
36♦	HD100150F	ECL	6	1.7n	EF	-1.1	-1.4			4.5	0	40m†		0	8	L00-80	FP146
37♦	N8T3404F	TTL	6	6.0n		2.0	0.8	10m	.45	0	5.0			0	7	L00-73	DIP16a
38♦	DS3685J(A)	TTL	6	8.0n	TS	2.0	0.8	20m	0.5	0	7.0	1.2		0	7	L00-141	DIP16a
39♦	DS3685N(A)	TTL	6	8.0n	TS	2.0	0.8	20m	0.5	0	7.0	1.2		0	7	L00-141	DIP16a
40♦	D3404	TTL	6	12n		2.0	0.85	10m	.45	0	5.0	375m	4-2 bit	0	7	L00-73	DIP16b
41♦	P3404	TTL	6	12n		2.0	0.85	10m	.45	0	5.0	375m	4-2 bit	0	7	L00-73	DIP16a
42	8T3404F	TTL	6	17n		2.0	0.8	10m	0.8	0	5.0	393m	Hi-Speed			L00-73	None
43♦	8T3404N	TTL	6	17n		2.0	0.8	10m	0.8	0	5.0	393m	Hi-Speed	0	7	L00-73	DIP16a
44♦	N8T3404N	TTL	6	17n		2.0	0.8	10m	.45	0	7.0			0	7	L00-73	DIP16b
45▼	CDP1881E	CMS	6	125n	CM	7.0	3.0	3.2m	0.5		10	500m	Addressable	4	8	L00-151	DIP20a
46♦	CDP1881CE	CMS	6	175n	CM	3.5	1.5	1.6m	0.4		5.0	500m	Addressable	4	8	L00-151	DIP20a
47♦	54HCT373	CMS	8		TS	2.0	0.8	11m	0.4		5.0	1.0	Transparent	5	C	54-373	DIP20b
48♦	54HCT563	CMS	8		TS	2.0	0.8	11m	0.4		5.0	1.0	Transparent	5	C	54LS563	DIP20b
49♦	54HCT573	CMS	8		TS	2.0	0.8	11m	0.4		5.0	1.0	Transparent	5	C	54LS573	DIP20b
50♦	74HCT373	CMS	8		TS	2.0	0.8	12m	0.37		5.0	1.0	Transparent	4	8	74LS373	DIP20b
51♦	74HCT533	CMS	8		TS	2.0	0.8	12m	0.37		5.0	1.0	Transparent	4	8	74LS533	DIP20b
52♦	74HCT563	CMS	8		TS	2.0	0.8	12m	0.37		5.0	1.0	Transparent	4	8	74LS563	DIP20b
53♦	74HCT573	CMS	8		TS	2.0	0.8	12m	0.37		5.0	1.0	Transparent	4	8	74LS573	DIP20b
54♦	HEF40373B(A)	CMS	8		TS	3.5	1.5	1.0u	0.5	0	18	400m	Xparent	4	8	40-373	DIP20 ☑
55▼	M54HCT373F1	CMS	8		TS						5.0		Transparent	5	C	54-373	DIP20c
56▼	M74HCT373B1	CMS	8		TS						5.0		Transparent	4	8	74LS373N	DIP20c
57▼	M74HCT373C1	CMS	8		TS						5.0		Transparent	4	8	L00-155	LC19
58▼	M74HCT373F1	CMS	8		TS						5.0		Transparent	4	8	74LS373N	DIP20c
59♦	M4099BP	CMS	8			11.0	4.0	2.4m	1.5	0	18	0.5	Addressable	4	8	40-99B	DIP16b
60♦	MBL8282	BIP	8		TS	2.0	0.8	32m	0.45	0	7.0	1.0	Addressable	0	7	L00-131	DIP20b
61♦	MBL8283	BIP	8		TS	2.0	0.8	32m	0.45	0	7.0	1.0	Addressable	0	7	L00-131a	DIP20b
62♦	MC54HC259J(A)	CMS	8			3.15	0.9			0.5	7.0	500m	Addressable	5	C	74-259	DIP16a
63♦	MC54HCT373J(A)	CMS	8		TS	2.0	0.8			0.5	7.0	500m	Transparent	5	C	74LS373	DIP20b
64♦	MC74HC259J(A)	CMS	8			3.15	0.9			0.5	7.0	500m	Addressable	4	8	74-259	DIP16a
65♦	MC74HC259N(A)	CMS	8			3.15	0.9			0.5	7.0	500m	Addressable	4	8	74-259	DIP16b
66♦	MC74HCT373J(A)	CMS	8		TS	2.0	0.8			0.5	7.0	500m	Transparent	4	8	74LS373	DIP20b
67♦	MC74HCT373N(A)	CMS	8		TS	2.0	0.8			0.5	7.0	500m	Transparent	4	8	74LS373	DIP20b
68	MM74C373N	CMS	8			3.5	1.5	1.6m		0	5.0	500m		0	7	74LS363N	DL ☑
69▼	N74F825D(A)	TTL	8		TS	2.0	0.8	48m	0.5	0	5.0		8-Bit Non Inv.	0	7	74AS825	FP170
70▼	N74F825N(A)	TTL	8		TS	2.0	0.8	48m	0.5	0	5.0		8-Bit Non Inv.	0	7	74AS825	DIP24a
71▼	N74F826D(A)	TTL	8		TS	2.0	0.8	48m	0.5	0	5.0		8-Bit Inv.	0	7	74AS826	FP170
72▼	N74F826N(A)	TTL	8		TS	2.0	0.8	48m	0.5	0	5.0		8-Bit Inv.	0	7	74AS826	DIP24a
73▼	N74F845D(A)	TTL	8		TS	2.0	0.8	48m	0.5	0	5.0		8-Bit Non Inv.	0	7	74AS845	FP170
74▼	N74F845N(A)	TTL	8		TS	2.0	0.8	48m	0.5	0	5.0		8-Bit Non Inv.	0	7	74AS845	DIP24a
75▼	N74F846D(A)	TTL	8		TS	2.0	0.8	48m	0.5	0	5.0		8-Bit Inv.	0	7	74AS846	FP170
76▼	N74F846N(A)	TTL	8		TS	2.0	0.8	48m	0.5	0	5.0		8-Bit Inv.	0	7	74AS846	DIP24a
77	SN54LS605J	TTL	8			2.0	0.8	12m	0.4	0	5.0		2 inpMUX	5	C	74LS605	DL ☑
78▼	SN54LS605N	TTL	8			2.0	0.8	12m	0.4	0	5.0		2 inpMUX	5	C	74LS605	DL ☑
79	SN54LS607J	TTL	8			2.0	0.8	12m	0.4	0	5.0		2 inpMUX	5	C	74LS607	DL ☑
80▼	SN54LS607N	TTL	8			2.0	0.8	12m	0.4	0	5.0		2 inpMUX	5	C	74LS607	DL ☑
81♦	SN74HC533N	CMS	8			3.85	1.10	4.0m	0.50	0	7.0		Transparent	4	8	74LS533N	DIP20b
82	SN74LS605J	TTL	8			2.0	0.8	24m	0.5	0	5.0		2 inpMUX	0	7	74LS605	DL ☑
83	SN74LS607J	TTL	8			2.0	0.8	24m	0.5	0	5.0		inp MUX	0	7	74LS607	DL ☑
84▼	SP9210DG	ECL	8	3.0n	OE	-1.1	-1.4		-1.6	5.20	0		Dual 4-Bit M/S	3	8	L00-140	DIP28a
85▼	SP9210LC	ECL	8	3.0n	OE	-1.1	-1.4		-1.6	5.20	0		Dual 4-Bit M/S	3	8	L00-140	LC44
86♦	F100155FC(2)	ECL	8	3.3n	EF	-1.1Δ	-1.4*			4.5	0			0	8	L00-123	FP139
87♦	F100155DC(2)	ECL	8	3.5n	EF	-1.1Δ	-1.4*			4.5	0			0	8	L00-123	DIP24c
88♦	DM54AS846J(A)	TTL	8	5.0n		2.0	0.8	32m	0.5	0	7.0		Transparent	5	C	74AS846	DIP24a
89♦	DM74AS846N(A)	TTL	8	5.0n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74AS846	DIP24a
90▼	IDT74FCT533AD	CMS	8	5.2n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS533	DIP20b
91▼	IDT74FCT533AJ	CMS	8	5.2n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS533	LC20
92▼	IDT74FCT533AL	CMS	8	5.2n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS533	LC19
93▼	IDT74FCT533AP	CMS	8	5.2n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS533	DIP20a
94▼	IDT74FCT533ASO	CMS	8	5.2n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS533	FP168
95▼	IDT74FCT573AD	CMS	8	5.2n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	DIP20b
96▼	IDT74FCT573AJ	CMS	8	5.2n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	LC20
97▼	IDT74FCT573AL	CMS	8	5.2n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	LC19
98▼	IDT74FCT573AP	CMS	8	5.2n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	DIP20b
99▼	IDT74FCT573ASO	CMS	8	5.2n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	FP168
100▼	IDT54FCT533ADB	CMS	8	5.6n	TS	2.0	0.8	32m	0.5		5.0	5.0uQ	Transparent	5	C	74LS533	DIP20b
101▼	IDT54FCT533AEB	CMS	8	5.6n	TS	2.0	0.8	32m	0.5		5.0	5.0uQ	Transparent	5	C	74LS533	FP183
102▼	IDT54FCT533ALB	CMS	8	5.6n	TS	2.0	0.8	32m	0.5		5.0	5.0uQ	Transparent	5	C	74LS533	LC19
103▼	IDT54FCT573ADB	CMS	8	5.6n	TS	2.0	0.8	32m	0.5		5.0	5.0uQ	Transparent	5	C	54LS573	DIP20b
104▼	IDT54FCT573AEB	CMS	8	5.6n	TS	2.0	0.8	32m	0.5		5.0	5.0uQ	Transparent	5	C	54LS573	FP183
105▼	IDT54FCT573ALB	CMS	8	5.6n	TS	2.0	0.8	32m	0.5		5.0	5.0uQ	Transparent	5	C	54LS573	LC19
106♦	DM74AS573J	TTL	8	6.0n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74LS573	DIP20b
107♦	DM74AS573N	TTL	8	6.0n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74LS573	DIP20a
108▼	SN74AS573DW	TTL	8	6n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74LS573N	FP169
109♦	SN74AS573N	TTL	8	6n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74LS573N	DIP20a
110▼	IDT74FCT845BD	TTL	8	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Inverting	0	7	L00-139a	DIP24e

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

26. LATCHES - D-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[2] BITS	[3] tpd MAX (s)	[1] OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	IDT74FCT845BJ	TTL	8	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Inverting	0	7	L00-139a	LC27
2▼	IDT74FCT845BL	TTL	8	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Inverting	0	7	L00-139a	LC19a
3▼	IDT74FCT845BP	TTL	8	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Inverting	0	7	L00-139a	DIP24e
4▼	IDT74FCT846BD	TTL	8	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-Inverting	0	7	L00-139	DIP24e
5▼	IDT74FCT846BJ	TTL	8	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-Inverting	0	7	L00-139	LC27
6▼	IDT74FCT846BL	TTL	8	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-Inverting	0	7	L00-139	LC19a
7▼	IDT74FCT846BP	TTL	8	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-Inverting	0	7	L00-139	DIP24e
8♦	54F563DM(A)	TTL	8	7.0n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	74LS563	DIP20b
9♦	54F563L1M(A)	TTL	8	7.0n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-144	LC19
10♦	74F563L1C(A)	TTL	8	7.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-144	LC19
11♦	74F563PC(A)	TTL	8	7.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	74LS563	DIP20a
12♦	74F563QC(A)	TTL	8	7.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-144	LC26
13♦	74F563SC(A)	TTL	8	7.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	54LS563	FP169
14♦	DM54AS573J	TTL	8	7.0n		2.0	0.8	32m	0.5	0	7.0		Transparent	5	C	74LS573	DIP20b
15▼	P74PCT373DC	CMS	8	7.0n		2.0	0.8	64m	.55		5.0		Non-Inv 3-S Out	0	7	74LS373N	DIP20b
16▼	P74PCT373PC	CMS	8	7.0n		2.0	0.8	64m	.55		5.0		Non-Inv 3-S Out	0	7	74LS373N	DIP20a
17▼	P74PCT533DC	CMS	8	7.0n		2.0	0.8	64m	.55		5.0		Invert. Outputs	0	7	74LS533N	DIP20b
18▼	P74PCT533LC	CMS	8	7.0n		2.0	0.8	64m	.55		5.0		Invert. Outputs	0	7	74LS533N	LC17
19▼	P74PCT533PC	CMS	8	7.0n		2.0	0.8	64m	.55		5.0		Invert. Outputs	0	7	74LS533N	DIP20a
20▼	SN74AS533DW	TTL	8	7.0n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74LS533N	FP169
21♦	SN74AS533N	TTL	8	7.0n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74LS533N	DIP20a
22♦	DM74AS533J	TTL	8	7.5n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74LS533	DIP20b
23♦	DM74AS533N	TTL	8	7.5n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74LS533	DIP20a
24♦	DM74AS580J	TTL	8	7.5n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74AS580	DIP20b
25♦	DM74AS580N	TTL	8	7.5n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74AS580	DIP20a
26▼	IDT54FCT845BDB	TTL	8	7.5n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Inverting	5	C	L00-139a	DIP24e
27▼	IDT54FCT845BLB	TTL	8	7.5n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Inverting	5	C	L00-139a	LC19a
28▼	IDT54FCT846BDB	TTL	8	7.5n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Non-Inverting	5	C	L00-139	DIP24e
29▼	IDT54FCT846BLB	TTL	8	7.5n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Non-Inverting	5	C	L00-139	LC19a
30▼	SN74AS580DW	TTL	8	7.5n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS580	FP169
31♦	SN74AS580N	TTL	8	7.5n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS580	DIP20a
32♦	54F573DM(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	74LS573	DIP20b
33♦	54F573L1M(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-155	LC19
34♦	54F845DM(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-139	DIP24a
35♦	54F845L1M(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-139	LC19a
36♦	54F845SDM(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-139	DIP24e
37♦	74F373DC	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	74LS363N	DIP20b
38♦	74F373L1C	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-155	LC19
39♦	74F373PC	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	74LS363N	DIP20a
40♦	74F373QC	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-155	LC26
41♦	74F373SC	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	54LS363	FP169
42♦	74F563DC(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	5.0		Transparent	0	7	74LS563	DIP20a
43♦	74F573L1C(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-155	LC19
44♦	74F573PC(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	74LS573	DIP20a
45♦	74F573QC(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-155	LC26
46♦	74F573SC(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	54LS573	FP169
47♦	74F845DC(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-139	DIP24a
48♦	74F845L1C(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-139	LC19a
49♦	74F845PC(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-139	DIP24a
50♦	74F845QC(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-139	LC27
51♦	74F845SC(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-139	FP170
52♦	74F845SDC(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-139	DIP24e
53♦	74F845SPC(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-139	DIP24e
54▼	CD74AC373E(A)	CMS	8	8.0n	TS	3.85	1.65	24m	0.44		5.0	500m	Transparent	4	8	74LS373N	MS001c
55▼	CD74AC373M(A)	CMS	8	8.0n	TS	3.85	1.65	24m	0.44		5.0	400m	Transparent	4	8	74LS373N	MS013c
56♦	IDT74FCT373D	CMOS	8	8.0n	TS	2.0	0.8	48m	0.5	0.5	7.0		Transparent	0	7	74LS373	DIP20b
57♦	IDT74FCT373L	CMOS	8	8.0n	TS	2.0	0.8	48m	0.5	0.5	7.0		Transparent	0	7	L00-154	LC25
58▼	IDT74FCT573D	CMS	8	8.0n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	DIP20b
59▼	IDT74FCT573J	CMS	8	8.0n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	LC20
60▼	IDT74FCT573L	CMS	8	8.0n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	LC19
61▼	IDT74FCT573P	CMS	8	8.0n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	DIP20b
62▼	IDT74FCT573SO	CMS	8	8.0n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	FP168
63▼	N74F563(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	5.0		Transparent	0	7	74LS563	DIP20a
64▼	N74F563D(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	5.0		Transparent	0	7	74LS563	FP169
65▼	N74F563N(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	5.0		Transparent	0	7	74LS563	DIP20a
66▼	N74F564D(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	5.0		Transparent	0	7	74LS564	FP169
67▼	N74F564N(A)	TTL	8	8.0n	TS	2.0	0.8	20m	0.5	0	5.0		Transparent	0	7	74LS564	DIP20a
68▼	P54PCT373DM	CMS	8	8.0n		2.0	0.8	48m	.55		5.0		Non-Inv 3-S Out	5	C	74LS363N	DIP20b
69▼	P54PCT373LM	CMS	8	8.0n		2.0	0.8	48m	.55		5.0		Non-Inv 3-S Out	5	C	74LS363N	LC17
70▼	P54PCT373PM	CMS	8	8.0n		2.0	0.8	48m	.55		5.0		Non-Inv 3-S Out	5	C	74LS363N	DIP20a
71▼	P54PCT533DM	CMS	8	8.0n		2.0	0.8	48m	.55		5.0		Invert. Outputs	5	C	74LS533N	DIP20b
72▼	P54PCT533LM	CMS	8	8.0n		2.0	0.8	48m	.55		5.0		Invert. Outputs	5	C	74LS533N	LC17
73▼	P54PCT533PM	CMS	8	8.0n		2.0	0.8	48m	.55		5.0		Invert. Outputs	5	C	74LS533N	DIP20a
74♦	SN54AS373J	TTL	8	8n	TS	2.0	0.8	48m	0.5	0	5.0		Transparent	5	C	74LS363N	DIP20b
75♦	54F373DM	TTL	8	8.5n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	74LS363N	DIP20b
76♦	54F373FM	TTL	8	8.5n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	54LS363W	FP171
77♦	54F373L1M	TTL	8	8.5n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-155	LC19
78♦	IDT54FCT373D	CMOS	8	8.5n	TS	2.0	0.8	32m	0.5	0.5	7.0		Transparent	5	C	74LS373	DIP20b
79♦	IDT54FCT373DB	CMOS	8	8.5n	TS	2.0	0.8	32m	0.5	0.5	7.0		Transparent	5	C	74LS373	DIP20b
80♦	IDT54FCT373L	CMOS	8	8.5n	TS	2.0	0.8	32m	0.5	0.5	7.0		Transparent	5	C	L00-154	LC25
81♦	IDT54FCT373LB	CMOS	8	8.5n	TS	2.0	0.8	32m	0.5	0.5	7.0		Transparent	5	C	L00-154	LC25
82▼	IDT54FCT573DB	CMS	8	8.5n	TS	2.0	0.8	32m	0.5		5.0	5.0uQ	Transparent	5	C	54LS573	DIP20b
83▼	IDT54FCT573EB	CMS	8	8.5n	TS	2.0	0.8	32m	0.5		5.0	5.0uQ	Transparent	5	C	54LS573	FP183
84▼	IDT54FCT573LB	CMS	8	8.5n	TS	2.0	0.8	32m	0.5		5.0	5.0uQ	Transparent	5	C	54LS573	LC19
85♦	54F259DM(A)	TTL	8	9.0n		2.0	0.8	20m	0.5	0	7.0		Addressable	5	C	74-259	DIP16b
86♦	54F259L1M(A)	TTL	8	9.0n		2.0	0.8	20m	0.5	0	7.0		Addressable	5	C	L00-165	LC19
87♦	74F259DC(A)	TTL	8	9.0n		2.0	0.8	20m	0.5	0	7.0		Addressable	0	7	74-259	DIP16b
88♦	74F259L1C(A)	TTL	8	9.0n		2.0	0.8	20m	0.5	0	7.0		Addressable	0	7	L00-165	LC19
89♦	74F259PC(A)	TTL	8	9.0n		2.0	0.8	20m	0.5	0	7.0		Addressable	0	7	74-259	DIP16a
90♦	74F259QC(A)	TTL	8	9.0n		2.0	0.8	20m	0.5	0	7.0		Addressable	0	7	L00-165	LC26
91♦	74F259SC(A)	TTL	8	9.0n		2.0	0.8	20m	0.5	0	7.0		Addressable	0	7	54-259	FP148
92▼	CD54AC373F(A)	CMS	8	9.0n	TS	3.85	1.65	24m	0.5		5.0	500m	Transparent	5	C	54-373	MS001c
93♦	DM54S373J	TTL	8	9.0n		2.0	0.8			0	7.0		nsparent	5	C	74LS363N	DIP20b
94♦	DM54S373W	TTL	8	9.0n		2.0	0.8			0	7.0		nsparent	5	C	54LS363W	DIP20b
95♦	DM74AS845N(A)	TTL	8	9.0n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74AS845	DIP24a
96♦	DM74S373N	TTL	8	9.0n		2.0	0.8			0	7.0		nsparent	0	7	74LS363N	DIP20b
97♦	N74F533F	TTL	8	9.0n		2.0	0.8			-0.5	7.0			0	7	74LS533N	DIP20b
98▼	P74PCT373LC	CMS	8	9.0n		2.0	0.8	64m	.55		5.0		Non-Inv 3-S Out	0	7	74LS373N	LC17
99♦	S54F533F	TTL	8	9.0n		2.0	0.8			-0.5	7.0			5	C	74LS533N	DIP20b
100	S54F533W	TTL	8	9.0n		2.0	0.8			-0.5	7.0			5	C	54LS533W	FP154
101▼	SN74AS845DW	TTL	8	9n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS845	FP170
102♦	SN74AS845FN	TTL	8	9.0n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	L00-158	LC20a
103♦	54F533DM	TTL	8	9.2n		2.0	0.8			0	5.0		Compl. Outputs	5	C	74LS533N	DIP20b
104♦	74F533DC	TTL	8	9.2n		2.0	0.8			0	5.0		Compl. Outputs	0	7	74LS533N	DIP20b
105♦	74F533PC	TTL	8	9.2n		2.0	0.8			0	5.0		Compl. Outputs	0	7	74LS533N	DIP20a
106♦	74F412DC	TTL	8	9.5n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	74S412	DIP24a
107♦	74F412L1C	TTL	8	9.5n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-166	LC19a
108♦	74F412PC	TTL	8	9.5n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	74S412	DIP24a
109♦	74F412QC	TTL	8	9.5n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-166	LC27
110♦	74F412SC	TTL	8	9.5n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	54S412	FP170

26. LATCHES - D-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS
(3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	2 BITS	3 tpd MAX (s)	1 OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1▼	IDT39C845D	TTL	8	9.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-inv	0	7	L00-138	DIP24e	
2▼	IDT39C845J	TTL	8	9.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-inv	0	7	L00-138	LC20a	
3▼	IDT39C845L	TTL	8	9.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-inv	0	7	L00-138	LC19a	
4▼	IDT39C845P	TTL	8	9.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-inv	0	7	L00-138	DIP24e	
5♦	N74F412D(A)	TTL	8	9.5n	TS	2.0	0.8	24m	0.5	0	5.0		MULTI MODE/NON	0	7	74S412	DIP24a	
6♦	N74F412N(A)	TTL	8	9.5n	TS	2.0	0.8	24m	0.5	0	5.0		MULTI-MODE/NON	0	7	74S412	DIP24a	
7♦	54F432DM	TTL	8	10n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	74S412	DIP24a	
8♦	54F432L1M	TTL	8	10n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-166	LC19a	
9♦	54F432SDM	TTL	8	10n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	74S412	DIP24e	
10♦	74F533L1C	TTL	8	10n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-143	LC19	
11♦	74F533QC	TTL	8	10n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-143	LC26	
12♦	74F533SC	TTL	8	10n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	54S412	FP169	
13♦	DM54AS533J	TTL	8	10n		2.0	0.8	32m	0.5	0	7.0		Transparent	5	C	74LS533	DIP20b	
14♦	DM54AS580J	TTL	8	10n		2.0	0.8	32m	0.5	0	7.0		Transparent	5	C	74AS580	DIP20b	
15♦	DM54AS845J(A)	TTL	8	10n		2.0	0.8	32m	0.5	0	7.0		Transparent	5	C	74AS845	DIP24a	
16▼	IDT39C846D	TTL	8	10n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Invert. Outputs	0	7	L00-139	DIP24e	
17▼	IDT39C846J	TTL	8	10n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Invert. Outputs	0	7	L00-139	LC20a	
18▼	IDT39C846L	TTL	8	10n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Invert. Outputs	0	7	L00-139	LC19a	
19▼	IDT39C846P	TTL	8	10n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Invert. Outputs	0	7	L00-139	DIP24e	
20♦	IDT74FCT533D	CMS	8	10n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS533	DIP20b	
21▼	IDT74FCT533J	CMS	8	10n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS533	LC20	
22♦	IDT74FCT533L	CMS	8	10n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	L00-154	LC19	
23▼	IDT74FCT533P	CMS	8	10n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS533	DIP20a	
24▼	IDT74FCT533SO	CMS	8	10n	TS	2.0	0.8	48m	0.5		5.0	5.0uQ	Transparent	0	7	74LS533	FP168	
25♦	N8TS805F	TTL	8	10n	TS	2.0	0.8	20m		0	5.0			0	7	L00-69	DIP20	☑
26♦	N8TS807F	TTL	8	10n	TS	2.0	0.8	20m		0	5.0			0	7	L00-69a	DIP20	☑
27♦	N8TS809F	TTL	8	10n	TS	2.0	0.8	20m		0	5.0			0	7	L00-69a	DIP20	☑
28♦	N8TS809N	TTL	8	10n	TS	2.0	0.8	20m		0	5.0			0	7	L00-69a	DIP20	☑
29♦	N74F533D	TTL	8	10n	TS	2.0	0.8	24m	0.5	0	5.0		Transparent	0	7	74LS533N	FP170	
30♦	N74F533N	TTL	8	10n	TS	2.0	0.8	24m	0.5	0	5.0		Transparent	0	7	74LS533N	DIP20a	
31♦	S8TS809F	TTL	8	10n	TS	2.0	0.8	20m		0	5.0			5	C	L00-69a	DIP20	☑
32▼	SN74AS846DW	TTL	8	10n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS846	FP170	
33♦	SN74AS846FN	TTL	8	10n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	L00-159	LC20a	
34♦	SN74AS846NT	TTL	8	10n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS846	DIP24e	
35♦	54F412DM	TTL	8	11n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	74S412	DIP24a	
36♦	54F412L1M	TTL	8	11n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-166	LC19a	
37▼	HD74HC563FP	CMS	8	11n	TS	3.15	1.35	6.0m	0.33	0	5.0	500m	Invert. Outputs	4	8	74AS580	FP168	
38▼	HD74HC563P	CMS	8	11n	TS	3.15	1.35	6.0m	0.33	0	5.0	500m	Invert. Outputs	4	8	74AS580	DIP20a	
39▼	HD74HC573FP	CMS	8	11n	TS	3.15	1.35	6.0m	0.33	0	5.0	500m	Non-Inv	4	8	74LS573N	FP168	
40▼	HD74HC573P	CMS	8	11n	TS	3.15	1.35	6.0m	0.33	0	5.0	500m	Non-Inv	4	8	74LS573N	DIP20a	
41▼	IDT39C845DB	TTL	8	11n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Non-inv	5	C	L00-138	DIP24e	
42▼	IDT39C845LB	TTL	8	11n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Non-inv	5	C	L00-138	LC19a	
43♦	MC54F533J	TTL	8	11n		2.0	0.8	20m	0.5	0	5.0		Transparent	5	C	74LS533N	DIP20b	
44♦	MC74F533J	TTL	8	11n		2.0	0.8	20m	0.5	0	5.0		Transparent	0	7	74LS533N	DIP20b	
45♦	MC74F533N	TTL	8	11n		2.0	0.8	20m	0.5	0	5.0			0	7	74LS533N	DIP20b	
46♦	N74F373F	TTL	8	11n		2.0	0.8			-0.5	7.0			0	7	74LS363N	DIP20b	
47♦	S54F373F	TTL	8	11n		2.0	0.8			-0.5	7.0			5	C	74LS363N	DIP20b	
48♦	54F533FM	TTL	8	12n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	54LS533W	FP171	
49♦	54F533L1M	TTL	8	12n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-143	LC19	
50♦	74F432L1C	TTL	8	12n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-166	LC19a	
51♦	74F432PC	TTL	8	12n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	74S412	DIP24a	
52♦	74F432QC	TTL	8	12n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-166	LC27	
53♦	74F432SC	TTL	8	12n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	54S412	FP170	
54♦	74F432SDC	TTL	8	12n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	74S412	DIP24e	
55♦	74F432SPC	TTL	8	12n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	74S412	DIP24e	
56▼	IDT39C846DB	TTL	8	12n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Invert. Outputs	5	C	L00-139	DIP24e	
57▼	IDT39C846LB	TTL	8	12n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Invert. Outputs	5	C	L00-139	LC19a	
58♦	IDT54FCT533DB	CMS	8	12n	TS	2.0	0.8	32m	0.5		5.0	5.0uQ	Transparent	5	C	74LS533	DIP20b	
59▼	IDT54FCT533EB	CMS	8	12n	TS	2.0	0.8	32m	0.5		5.0	5.0uQ	Transparent	5	C	L00-154	FP183	
60♦	IDT54FCT533LB	CMS	8	12n	TS	2.0	0.8	32m	0.5		5.0	5.0uQ	Transparent	5	C	L00-154	LC19	
61♦	MC54F533N	TTL	8	12n		2.0	0.8	20m	0.5	0	5.0			5	C	74LS533N	DIP20b	
62▼	N74F432D(A)	TTL	8	12n	TS	2.0	0.8	24m	0.5	0	5.0		Invert. Outputs	0	7	74S412	FP170	
63▼	N74F432N(A)	TTL	8	12n	TS	2.0	0.8	24m	0.5	0	5.0		Invert. Outputs	0	7	74S412	DIP24a	
64	N74S373D	TTL	8	12n		2.0	0.8	20m	0.5	0.5	7.0		Transpnt	0	7	74LS363N	FP169	
65♦	N74S373F	TTL	8	12n		2.0	0.8	20m	0.5	0	5.0		Transpnt	0	7	74LS363N	DIP20a	
66♦	N74S373N	TTL	8	12n		2.0	0.8	20m	0.5	0.5	7.0		Transpnt	0	7	74LS363N	DIP20d	
67♦	S54S373F(1)	TTL	8	12n	TS	2.0	0.8	20m	0.5	0.5	7.0			5	C	74LS363N	DIP20b	
68♦	SN74S373DW	TTL	8	12n	TS	2.0	0.8	20m	0.5	0	7.0		Transparent	0	7	74LS363	FP169	
69♦	V54ACT573D	CMS	8	12n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74LS573	DIP20b	
70♦	V54ACT573DL	CMS	8	12n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74LS573	LC25	
71♦	V54ACT574D	CMS	8	12n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74LS574	DIP20b	
72♦	V54ACT574DL	CMS	8	12n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74LS574	LC25	
73♦	V74ACT573D	CMS	8	12n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS573	DIP20b	
74♦	V74ACT573DL	CMS	8	12n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS573	LC25	
75♦	V74ACT573P	CMS	8	12n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS573	DIP20b	
76♦	V74ACT573PK	CMS	8	12n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS573	LC26	
77♦	V74ACT573PO	CMS	8	12n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS573	FP179	
78♦	V74ACT574D	CMS	8	12n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS574	PL20r	
79♦	V74ACT574DL	CMS	8	12n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS574	LC25	
80♦	V74ACT574P	CMS	8	12n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS574	PL20r	
81♦	V74ACT574PK	CMS	8	12n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS574	LC26	
82♦	V74ACT574PO	CMS	8	12n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS574	FP179	
83♦	74F573DC(A)	TTL	8	13n	TS	2.0	0.8	20m	0.5	0	5.0		Transparent	0	7	74LS573	DIP20a	
84▼	HD74HCT563FP	CMS	8	13n		2.0	0.8	6.0m	0.33	0	5.0	500m	Transparent	4	8	74LS563N	FP168	
85▼	HD74HCT563P	CMS	8	13n		2.0	0.8	6.0m	0.33	0	5.0	500m	Transparent	4	8	74LS563N	DIP20a	
86▼	HD74HCT573FP	CMS	8	13n	TS	2.0	0.8	6.0m	0.33	0	5.0	500m	Transparent	4	8	74LS573N	FP168	
87▼	HD74HCT573P	CMS	8	13n	TS	2.0	0.8	6.0m	0.33	0	5.0	500m	Transparent	4	8	74LS573N	DIP20a	
88♦	MC74F373J	TTL	8	13n	OC	2.0	0.8	20m	0.5	0	5.0			0	7	74LS363N	DIP20b	
89♦	MC74F373N	TTL	8	13n	OC	2.0	0.8	20m	0.5	0	5.0			0	7	74LS363N	DIP20b	
90♦	N8TS805N	TTL	8	13n	TS	2.0	0.8	20m	0.5	0.5	7.0		Transparent	0	7	L00-69	DIP20d	
91♦	N8TS807N	TTL	8	13n	TS	2.0	0.8	20m	0.5	0.5	7.0		Transparent	0	7	L00-69a	DIP20d	
92▼	N74F573D(A)	TTL	8	13n	TS	2.0	0.8	20m	0.5	0	5.0		Transparent	0	7	74LS573	FP169	
93▼	N74F573N(A)	TTL	8	13n	TS	2.0	0.8	20m	0.5	0	5.0		Transparent	0	7	74LS573	DIP20a	
94♦	S8TS805F	TTL	8	13n	TS	2.0	0.8	20m	0.5	0.5	7.0		Transparent	5	C	L00-69	DIP20b	
95♦	S8TS807F	TTL	8	13n	TS	2.0	0.8	20m	0.5	0.5	7.0		Transparent	5	C	L00-69a	DIP20b	
96▼	SN54S373J	TTL	8	13n		2.0	0.7	20m	0.5	0	5.0	800m	n-Invert	5	C	74LS363N	DIP20b	
97▼	SN74S531J	TTL	8	13n		2.0	0.8	32m	0.5	0	5.0		Ninv Out	0	7	74S531	DIP20b	
98▼	SN74S531N	TTL	8	13n		2.0	0.8	32m	0.5	0	5.0		-INV OUT	0	7	74S531	DIP20a	
99♦	UPD74HC373C(A)	CMS	8	13n		4.2	1.2	11m	0.4	0	6.0	500m	Transpar/3-st	4	8	74LS373	DIP20b	
100♦	UPD74HC563C(A)	CMS	8	13n		4.2	1.2	11m	0.4	0	6.0	500m	Transpar/3-st	4	8	74LS563	DIP20b	
101♦	DM74ALS573J	TTL	8	14n		2.0	0.8	24m	0.5	0	7.0		Transparent	0	7	74LS573	DIP20b	
102♦	DM74ALS573N	TTL	8	14n		2.0	0.8	24m	0.5	0	7.0		Transparent	0	7	74LS573	DIP20a	
103▼	HD74HCT373FP	CMS	8	14n	TS	2.0	0.8	6.0m	0.33	0	5.0	500m	Transparent	4	8	74LS363N	FP168	
104▼	HD74HCT373P	CMS	8	14n	TS	2.0	0.8	6.0m	0.33	0	5.0	500m	Transparent	4	8	74LS363N	DIP20a	
105▼	HD74HCT533FP	CMS	8	14n	TS	2.0	0.8	6.0m	0.33	0	5.0	500m	Transparent	4	8	74LS533N	FP168	
106▼	HD74HCT533P	CMS	8	14n	TS	2.0	0.8	6.0m	0.33	0	5.0	500m	Transparent	4	8	74LS533N	DIP20a	
107▼	IDT74AHCT573D	CMS	8	14n	TS	2.0	0.8	24m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	DIP20b	
108▼	IDT74AHCT573J	CMS	8	14n	TS	2.0	0.8	24m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	LC20	
109▼	IDT74AHCT573L	CMS	8	14n	TS	2.0	0.8	24m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	LC19	
110▼	IDT74AHCT573P	CMS	8	14n	TS	2.0	0.8	24m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	DIP20a	

26. LATCHES - D-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[2] BITS	[3] tpd MAX (s)	[1] OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	IDT74AHCT573SO	CMS	8	14n	TS	2.0	0.8	24m	0.5		5.0	5.0uQ	Transparent	0	7	74LS573	FP168
2▼	SN74ALS573BDW	TTL	8	14n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 27mA max	0	7	74LS573N	FP169
3▼	SN74ALS573BN	TTL	8	14n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 27mA max	0	7	74LS573N	DIP20b
4♦	V54ACT580D	CMS	8	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	54AS580	DIP20b
5♦	V54ACT580DL	CMS	8	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	54AS580	LC25
6♦	V74ACT580D	CMS	8	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS580	DIP20b
7♦	V74ACT580DL	CMS	8	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS580	LC25
8♦	V74ACT580P	CMS	8	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS580	DIP20b
9♦	V74ACT580PK	CMS	8	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS580	LC26
10♦	V74ACT580PO	CMS	8	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS580	FP179
11♦	54AC373DM(A)	CMS	8	15n	TS	2.0	0.8	24m	0.4	0				5	C	74LS373	DIP20a
12♦	54AC373SM(A)	CMS	8	15n	TS	2.0	0.8	24m	0.4	0				5	C	74LS373	FP179
13♦	54ACT373DM(A)	CMS	8	15n	TS	2.0	0.8	24m	0.4	0				5	C	74LS373	DIP20a
14♦	54ACT373SM(A)	CMS	8	15n	TS	2.0	0.8	24m	0.4	0				5	C	74LS373	FP179
15♦	74AC373DC(A)	CMS	8	15n	TS	2.0	0.8	24m	0.4	0				4	8	74LS373	DIP20a
16♦	74AC373PC(A)	CMS	8	15n	TS	2.0	0.8	24m	0.4	0				4	8	74LS373	DIP20a
17♦	74AC373SG(A)	CMS	8	15n	TS	2.0	0.8	24m	0.4	0				4	8	74LS373	FP179
18♦	74ACT373DC(A)	CMS	8	15n	TS	2.0	0.8	24m	0.4	0				4	8	74LS373	DIP20a
19♦	74ACT373PC(A)	CMS	8	15n	TS	2.0	0.8	24m	0.4	0				4	8	74LS373	DIP20a
20♦	74ACT373SG(A)	CMS	8	15n	TS	2.0	0.8	24m	0.4	0				4	8	74LS373	FP179
21♦	DM54ALS573J	TTL	8	15n		2.0	0.8	12m	0.4	0	7.0		Transparent	5	C	74LS573	DIP20b
22♦	DM74S374N	TTL	8	15n		2.0	0.8			0	7.0		nsparent	0	7	74LS364N	DIP20b
23▼	IDT54AHCT573DB	CMS	8	15n	TS	2.0	0.8	14m	0.4		5.0	5.0uQ	Transparent	5	C	54LS573	DIP20b
24▼	IDT54AHCT573EB	CMS	8	15n	TS	2.0	0.8	14m	0.4		5.0	5.0uQ	Transparent	5	C	54LS573	FP183
25▼	IDT54AHCT573LB	CMS	8	15n	TS	2.0	0.8	14m	0.4		5.0	5.0uQ	Transparent	5	C	54LS573	LC19
26♦	MC54F373J	TTL	8	15n	OC	2.0	0.8	20m	0.5	0	5.0			5	C	74LS363N	DIP20b
27♦	MC54F373N	TTL	8	15n		2.0	0.8	20m	0.5	0	5.0			5	C	74LS363N	DIP20b
28▼	SN54ALS573BJ	TTL	8	15n	TS	2.0	0.7	12m	0.4	0	5.0		ICC 27mA max	5	C	74LS573N	DIP20b
29♦	SN74LS651JS(2)	TTL	8	15n	TS	2.0	0.8	12m	0.4		7.0		Invert. Outputs	0	7	74LS363N	DIP24e
30♦	SN74LS651NS(2)	TTL	8	15n	TS	2.0	0.8	12m	0.4		7.0		Invert. Outputs	0	7	74LS363N	DIP24e
31♦	UPD74HC533C(A)	CMS	8	15n		4.2	1.2	11m	0.4	0	6.0	500m	Transpar/3-st	4	8	74LS533	DIP16b
32♦	UPD74HC573C(A)	CMS	8	15n		4.2	1.2	11m	0.4	0	6.0	500m	Transpar/3-st	4	8	74LS573	DIP20b
33♦	V54ACT373D	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74LS363	DIP20b
34♦	V54ACT373DL	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74LS363	LC25
35♦	V54ACT533D	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74LS363	DIP20b
36♦	V54ACT533DL	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74LS363	LC25
37♦	V54ACT563D	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74LS563	DIP20b
38♦	V54ACT563DL	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74LS563	LC25
39♦	V74ACT373D	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS363	DIP20b
40♦	V74ACT373DL	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS363	LC25
41♦	V74ACT373P	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS363	DIP20b
42♦	V74ACT373PK	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS363	LC26
43♦	V74ACT373PO	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS363	FP179
44♦	V74ACT533D	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS363	DIP20b
45♦	V74ACT533DL	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS363	LC25
46♦	V74ACT533P	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS363	DIP20b
47♦	V74ACT533PK	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS363	LC26
48♦	V74ACT533PO	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS363	FP179
49♦	V74ACT563D	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS563	DIP20b
50♦	V74ACT563DL	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS563	LC25
51♦	V74ACT563P	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS563	DIP20b
52♦	V74ACT563PK	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS563	LC26
53♦	V74ACT563PO	CMS	8	15n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74LS563	FP179
54♦	AM29845DC	TTL	8	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Non-Inverting	0	7	L00-139	DIP24e
55♦	AM29845DCB	TTL	8	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Non-Inverting	0	7	L00-139	DIP24e
56♦	AM29845LC	TTL	8	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Non-Inverting	0	7	L00-139	LC17
57♦	AM29845LCB	TTL	8	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Non-Inverting	0	7	L00-139	LC17
58♦	AM29846DC	TTL	8	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Invert. Outputs	0	7	L00-139	DIP24e
59♦	AM29846DCB	TTL	8	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Invert. Outputs	0	7	L00-139	DIP24e
60♦	AM29846LC	TTL	8	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Invert. Outputs	0	7	L00-139	LC17
61♦	AM29846LCB	TTL	8	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Invert. Outputs	0	7	L00-139	LC17
62♦	DM74ALS373J	TTL	8	16n		2.0	0.8	24m	0.5	0	7.0		Transparent	0	7	74LS373	DIP20b
63♦	DM74ALS373N	TTL	8	16n		2.0	0.8	24m	0.5	0	7.0		Transparent	0	7	74LS373	DIP20a
64▼	HD74HC259FP	CMS	8	16n		3.15	1.35	20u	0.1	0	5.0	500m	Addressable	4	8	74-259N	FP162
65▼	HD74HC259P	CMS	8	16n		3.15	1.35	20u	0.1	0	5.0	500m	Addressable	4	8	74-259N	DIP16a
66▼	HD74HC373FP	CMS	8	16n	TS	3.15	1.35	6.0m	0.33	0	5.0	500m	Transparent	4	8	74LS373N	FP168
67▼	HD74HC373P	CMS	8	16n	TS	3.15	1.35	6.0m	0.33	0	5.0	500m	Transparent	4	8	74LS373N	DIP20a
68▼	HD74HC533FP	CMS	8	16n	TS	3.15	1.35	6.0m	0.33	0	5.0	500m	Transparent	4	8	74LS533N	FP168
69▼	HD74HC533P	CMS	8	16n	TS	3.15	1.35	6.0m	0.33	0	5.0	500m	Transparent	4	8	74LS533N	DIP20a
70♦	IDT54AHCT373D	CMS	8	16n	TS	2.0	0.8	24m	0.5		5.0		Transparent	0	7	74LS373	DIP24b
71♦	IDT54AHCT373L	CMS	8	16n	TS	2.0	0.8	24m	0.5		5.0		Transparent	0	7	L00-154	LC25
72♦	IDT74AHCT373D	CMS	8	16n	TS	2.0	0.8	24m	0.5		5.0		Transparent	0	7	74LS373	DIP24b
73♦	IDT74AHCT373L	CMS	8	16n	TS	2.0	0.8	24m	0.5		5.0		Transparent	0	7	L00-154	LC25
74▼	SN74ALS373DW	TTL	8	16n	TS	2.0	0.8	24m	0.5	0	5.0		Transparent	0	7	74LS363N	FP169
75♦	SN74ALS373N	TTL	8	16n	TS	2.0	0.8	24m	0.5	0	5.0		Transparent	0	7	74LS363N	DIP20a
76▼	SN74AS373DW	TTL	8	16n	TS	2.0	0.8	24m	0.5	0.0	5.0		Transparent	0	7	74LS363N	FP169
77♦	SN74AS373N	TTL	8	16n	TS	2.0	0.8	24m	0.5	0.0	5.0		Transparent	0	7	74LS363N	DIP20a
78♦	AM2956DC	TTL	8	18n	TS	2.0	0.80	20m	0.45	0	7.0		Transparent	0	7	L00-61	DIP20b
79♦	AM2956FM	TTL	8	18n	TS	2.0	0.80	20m	0.45	0	7.0		Transparent	5	C	L00-61	FP143
80♦	AM2956LC	TTL	8	18n	TS	2.0	0.80	20m	0.45	0	7.0		Transparent	0	7	L00-61	LC17
81♦	AM2956PC	TTL	8	18n	TS	2.0	0.80	20m	0.45	0	7.0		Transparent	0	7	L00-61	DIP20b
82♦	AM2956XM	TTL	8	18n	TS	2.0	0.80	20m	0.45	0	7.0		Transparent	5	C	L00-61	CH140
83♦	DM54LS373W	TTL	8	18n		2.0	0.8			0	7.0		nsparent	5	C	54LS363W	DIP20b
84♦	DM74ALS563J	TTL	8	18n		2.0	0.8	24m	0.5	0	7.0		Transparent	0	7	74LS563	DIP20b
85♦	DM74ALS563N	TTL	8	18n		2.0	0.8	24m	0.5	0	7.0		Transparent	0	7	74LS563	DIP20a
86♦	DM74ALS580J	TTL	8	18n		2.0	0.8	24m	0.5	0	7.0		Transparent	0	7	74AS580	DIP20b
87♦	DM74ALS580N	TTL	8	18n		2.0	0.8	24m	0.5	0	7.0		Transparent	0	7	74AS580	DIP20a
88♦	DM74LS373N	TTL	8	18n		2.0	0.8			0	7.0		nsparent	0	7	74LS363N	DIP20b
89♦	DN74LS373P3	TTL	8	18n		2.0	0.8	12m	0.4	0.5	7.0	400m	Transparent	2	7	74LS373	DIP20a
90♦	DN74LS373P6	TTL	8	18n		2.0	0.8	12m	0.4	0.5	7.0	400m	Transparent	2	7	74LS373	FP179
91♦	N74LS373D	TTL	8	18n		2.0	0.8	24m	0.5	0.5	7.0	200m	Transparent	0	7	74LS363N	FP169
92♦	N74LS373N	TTL	8	18n		2.0	0.8	24m	0.5	0.5	7.0	200m	transpar	0	7	74LS363N	DIP20d
93♦	S54LS373F	TTL	8	18n		2.0	0.7	12m	0.4	0.5	7.0	200m	transpar	5	C	74LS363N	DIP20b
94	S54LS373G	TTL	8	18n		2.0	0.7	12m	0.4	0.5	7.0		Transpnt	5	C	L00-143	LC24
95▼	SN54LS373J	TTL	8	18n	TS	2.0	0.7	12m	0.4	0	5.0		Transparent	5	C	74LS363N	DIP20b
96▼	SN54LS373N	TTL	8	18n	TS	2.0	0.7	12m	0.4	0	5.0		Transparent	5	C	74LS363N	DIP20b
97▼	SN74ALS563ADW	TTL	8	18n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 29mA max	0	7	74AS580	FP169
98▼	SN74ALS563AN	TTL	8	18n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 29mA max	0	7	74AS580	DIP20a
99▼	SN74ALS580ADW	TTL	8	18n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 29mA max	0	7	74AS580	FP169
100▼	SN74ALS580AN	TTL	8	18n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 29mA max	0	7	74AS580	DIP20b
101♦	SN74ALS666DW	TTL	8	18n	TS	2.0	0.8	24m	0.5	0	5.0		Transparent	0	7	74ALS666	FP170
102♦	SN74ALS666FN	TTL	8	18n	TS	2.0	0.8	24m	0.5	0	5.0		Transparent	0	7	54ALS666	LC20a
103▼	SN74ALS666NT	TTL	8	18n	TS	2.0	0.8	24m	0.5	0	5.0		Transparent	0	7	74ALS666	DIP24e
104▼	SN74ALS845-1DW	TTL	8	18n	TS	2.0	0.8	48m	0.5	0	5.0		ICC 67mA max	0	7	74AS845N	FP170
105▼	SN74ALS845-1NT	TTL	8	18n	TS	2.0	0.8	48m	0.5	0	5.0		ICC 67mA max	0	7	74AS845N	DIP24e
106▼	SN74ALS845DW	TTL	8	18n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 67mA max	0	7	74AS845N	FP170
107♦	SN74ALS845NT	TTL	8	18n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 67mA max	0	7	74AS845N	DIP24e
108♦	SN74LS373DW	TTL	8	18n	TS	2.0	0.8	24m	0.5	0	5.0		Transparent	0	7	74LS363	FP169
109▼	SN74LS373J	TTL	8	18n	TS	2.0	0.8	24m	0.5	0	7.0		Transparent	0	7	74LS363N	DIP20b
110▼	SN74LS373N	TTL	8	18n	TS	2.0	0.8	24m	0.5	0.0	5.0		Transparent	0	7	74LS363N	DIP20a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

26. LATCHES - D-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[2] BITS	[3] tpd MAX (s)	[1] OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1▼	SN74S373J	TTL	8	18n		2.0	0.7	20m	0.5	0	5.0	700m	fered In	0	7	74LS363N	DL	☑
2♦	SN74S373N(1)	TTL	8	18n		2.0	0.8	20m	0.5	0	5.0	700m		0	7	74LS363N	DIP20b	
3♦	SN74S533J	TTL	8	18n		2.0	0.8	12m	0.4	0	5.0		Invert. Outputs	0	7	74LS533N	DIP20	☑
4♦	SN74S533N	TTL	8	18n		2.0	0.8	12m	0.4	0	5.0		Invert. Outputs	0	7	74LS533N	DIP20	☑
5♦	SN74S535J(1)	TTL	8	18n		2.0	0.8	32m	0.5	0	7.0		Invert. Outputs	0	7	74S535	DIP20b	
6♦	SN74S535N(1)	TTL	8	18n		2.0	0.8	32m	0.5	0	7.0		Invert. Outputs	0	7	74S535	DIP20a	
7♦	UPD74HC259C(A)	CMS	8	18n		4.2	1.2	7.5m	0.4		6.0	500m	Addr/1-of-8 Dec	4	8	74-259	DIP16b	
8♦	DM54ALS373J	TTL	8	19n		2.0	0.8	12m	0.4	0	7.0		Transparent	5	C	74LS373	DIP20b	
9♦	IDT54AHCT373DB	CMS	8	19n	TS	2.0	0.8	14m	0.4		5.0		Transparent	5	C	74LS373	DIP20b	
10♦	IDT54AHCT373LB	CMS	8	19n	TS	2.0	0.8	14m	0.4		5.0		Transparent	5	C	L00-154	LC25	
11♦	IDT74AHCT533D	CMS	8	19n	TS	2.0	0.8	24m	0.5		5.0		Transparent	0	7	74LS533	DIP24b	
12♦	IDT74AHCT533L	CMS	8	19n	TS	2.0	0.8	24m	0.5		5.0		Transparent	0	7	L00-154	LC25	
13♦	SN54ALS373J	TTL	8	19n	TS	2.0	0.7	12m	0.4	0	5.0		Transparent	5	C	74LS363N	DIP20b	
14▼	SN74ALS259D	TTL	8	19n	TP	2.0	0.8	8.0m	0.5	0	5.0		Addr	0	7	74-259N	FP162	
15▼	SN74ALS259N	TTL	8	19n	TP	2.0	0.8	8.0m	0.5	0	5.0		Addr	0	7	74-259N	DIP16a	
16♦	AM29845DM	TTL	8	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Non-Inverting	5	C	L00-139	DIP24e	
17♦	AM29845DMB	TTL	8	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Non-Inverting	5	C	L00-139	DIP24e	
18♦	AM29845LM	TTL	8	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Non-Inverting	5	C	L00-139	LC17	
19♦	AM29845LMB	TTL	8	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Non-Inverting	5	C	L00-139	LC17	
20♦	AM29846DM	TTL	8	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Invert. Outputs	5	C	L00-139	DIP24e	
21♦	AM29846DMB	TTL	8	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Invert. Outputs	5	C	L00-139	DIP24e	
22♦	AM29846LM	TTL	8	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Invert. Outputs	5	C	L00-139	LC17	
23♦	AM29846LMB	TTL	8	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Invert. Outputs	5	C	L00-139	LC17	
24	SN54LS604J	TTL	8	20n		2.0	0.8	12m	0.4	0	5.0	275mQ	-Inp MUX	5	C	74LS604	DL	☑
25▼	SN54LS604N	TTL	8	20n		2.0	0.8	12m	0.4	0	5.0	275mQ	-Inp MUX	5	C	74LS604	DL	☑
26	SN54LS606J	TTL	8	20n		2.0	0.8	12m	0.4	0	5.0	275mQ	-Inp MUX	5	C	74LS606	DL	☑
27▼	SN54LS606N	TTL	8	20n		2.0	0.8	12m	0.4	0	5.0	275mQ	-Inp MUX	5	C	74LS606	DL	☑
28♦	SN74ALS667DW	TTL	8	20n	TS	2.0	0.8	24m	0.5	0	5.0		Transparent	0	7	74ALS667	FP170	
29♦	SN74ALS667FN	TTL	8	20n	TS	2.0	0.8	24m	0.5	0	5.0		Transparent	0	7	54ALS667	LC20a	
30▼	SN74ALS667NT	TTL	8	20n	TS	2.0	0.8	24m	0.5	0	5.0		Transparent	0	7	74ALS667	DIP24e	
31▼	SN74ALS846-1NT	TTL	8	20n	TS	2.0	0.8	48m	0.5	0	5.0		ICC 72mA max	0	7	74AS846N	DIP24e	
32▼	SN74ALS846DW	TTL	8	20n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 72mA max	0	7	74AS846N	FP170	
33♦	SN74ALS846NT	TTL	8	20n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 72mA max	0	7	74AS846N	DIP24e	
34▼	SN74ALS991DW	TTL	8	20n	TS	2.0	0.8	8.0m	0.5	0.0	5.0		Transparent	0	7	74ALS991	FP169	
35	SN74LS604J	TTL	8	20n		2.0	0.8	24m	0.5	0	5.0	275mQ	2inp MUX	0	7	74LS604	DL	☑
36	SN74LS606J	TTL	8	20n		2.0	0.8	24m	0.5	0	5.0	275mQ	2inp MUX	0	7	74LS606	DL	☑
37♦	SN74LS652JS(2)	TTL	8	20n	TS	2.0	0.8	12m	0.4		7.0		Non-Inv	0	7	74LS363N	DIP24e	
38♦	SN74LS652NS(2)	TTL	8	20n	TS	2.0	0.8	12m	0.4		7.0		Non-Inv	0	7	74LS363N	DIP24e	
39♦	SN74S412N	TTL	8	20n	TS	2.0	0.85	20m	0.5	0	7.0	650m	Multimod	0	7	74S412N	DIP24a	
40♦	DM54ALS563J	TTL	8	21n		2.0	0.8	12m	0.4	0	7.0		Transparent	5	C	74LS563	DIP20b	
41♦	DM54ALS580J	TTL	8	21n		2.0	0.8	12m	0.4	0	7.0		Transparent	5	C	74AS580	DIP20b	
42♦	M74ALS573P	TTL	8	21n	TS	2.0	0.8	24m	0.5	0.5	7.0		Non-Inv	2	7	74LS573N	DIP20a	
43▼	SN54ALS563AJ	TTL	8	21n	TS	2.0	0.7	12m	0.4	0	5.0		ICC 29mA max	5	C	74AS580	DIP20a	
44▼	SN54ALS580AJ	TTL	8	21n	TS	2.0	0.7	12m	0.4	0	5.0		ICC 29mA max	5	C	74AS580	DIP20b	
45♦	M5L8283P	TTL	8	22n		2.0	0.8	32m	0.45	0.5	7.0		Compl. Outputs	0	7	L00-131a	DIP20	☑
46♦	QC8283	TTL	8	22n	TS	2.0	0.8	32m	0.45		5.0	1.0	Addressable	0	7	L00-131a	DIP20	☑
47♦	QD8283	TTL	8	22n	TS	2.0	0.8	32m	0.45		5.0	1.0	Addressable	0	7	L00-131a	DIP20	☑
48♦	QP8283	TTL	8	22n	TS	2.0	0.8	32m	0.45		5.0	1.0	Addressable	0	7	L00-131a	DIP20	☑
49▼	SAB8283A	BIP	8	22n	TS	2.0	0.8	32m	0.45	0	5.0	1.0	Invert. Outputs	0	7	L00-131a	DIP20	
50♦	TC8283	TTL	8	22n	TS	2.0	0.8	32m	0.45		5.0	1.0	Addressable	4	8	L00-131a	DIP20	☑
51♦	TD8283	TTL	8	22n	TS	2.0	0.8	32m	0.45		5.0	1.0	Addressable	4	8	L00-131a	DIP20	☑
52♦	TP8283	TTL	8	22n	TS	2.0	0.8	32m	0.45		5.0	1.0	Addressable	4	8	L00-131a	DIP20	☑
53▼	UPB8282C	BIP	8	22n	TS	2.0	0.8	32m	0.45		5.0	800m†	8-Bit Latch	0	7	L00-131	DIP20b	
54▼	UPD71082C	BIP	8	22n	TS	2.0	0.8	32m	0.45		5.0	800m†	8-Bit Latch	0	7	L00-131	DIP20b	
55▼	UPD71082G	BIP	8	22n	TS	2.0	0.8	32m	0.45		5.0	800m†	8-Bit Latch	0	7	L00-131	FP168	
56▼	UPD71083C	BIP	8	22n	TS	2.0	0.8	32m	0.45		5.0	800m†	8-Bit Latch	0	7	L00-131a	DIP20b	
57▼	UPD71083G	BIP	8	22n	TS	2.0	0.8	32m	0.45		5.0	800m†	8-Bit Latch	0	7	L00-131a	FP168	
58♦	M74ALS373P	TTL	8	23n	TS	2.0	0.8	24m	0.5	0	7.0		Transparent	2	7	74LS373	DIP20b	
59♦	M74ALS563P	TTL	8	23n	TS	2.0	0.8	24m	0.5	0.5	7.0		Invert. Outputs	2	7	74LS563N	DIP20a	
60♦	M74ALS580P	TTL	8	23n	TS	2.0	0.8	24m	0.5	0.5	7.0		Invert. Outputs	2	7	74AS580	DIP20a	
61▼	SN74ALS533DW	TTL	8	23n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 110mA max	0	7	74LS533N	FP169	
62♦	SN74ALS533N	TTL	8	23n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 110mA max	0	7	74LS533N	DIP20a	
63♦	IDT54AHCT533DB	CMS	8	24n	TS	2.0	0.8	14m	0.4		5.0		Transparent	5	C	74LS533	DIP24b	
64♦	IDT54AHCT533L	CMS	8	24n	TS	2.0	0.8	14m	0.4		5.0		Transparent	5	C	L00-154	LC25	
65♦	IDT54AHCT533LB	CMS	8	24n	TS	2.0	0.8	14m	0.4		5.0		Transparent	5	C	L00-154	LC25	
66♦	M74ALS533P	TTL	8	24n	TS	2.0	0.8	24m	0.5	0.5	7.0		Transparent	2	7	74LS533	DIP20b	
67▼	SN74ALS990DW	TTL	8	24n	TS	2.0	0.8	8.0m	0.5	0.0	5.0		Transparent	0	7	74ALS990	FP169	
68♦	SN74ALS990N	TTL	8	24n	TS	2.0	0.8	8.0m	0.5	0.0	5.0		Transparent	0	7	74ALS990	DIP20b	
69▼	IC8283	BIP	8	25n	TS	2.0	0.8	20m	0.45		5.0	1.0		4	8	L00-131a	DIP20a	
70▼	ID8283	BIP	8	25n	TS	2.0	0.8	20m	0.45		5.0	1.0		4	8	L00-131a	DIP20a	
71▼	IP8283	BIP	8	25n	TS	2.0	0.8	20m	0.45		5.0	1.0		4	8	L00-131a	DIP20a	
72♦	M74ALS873P	TTL	8	25n	TS	2.0	0.8	24m	0.5	0.5	7.0		Non-Inv	2	7	74AS873	DIP24e	
73♦	M74ALS880P	TTL	8	25n	TS	2.0	0.8	24m	0.5	0.5	7.0		Invert. Outputs	2	7	74AS880	DIP24e	
74♦	MC54HC373J(A)	CMS	8	25n		3.85	1.10	5.1m	0.4	0.5	7.0	500m	Trnsprnt	5	C	74LS373	DIP20	☑
75♦	MC54HC533J(A)	CMS	8	25n		3.85	1.10	5.1m	0.4	0.5	7.0	500m	Trnsprnt	5	C	74LS573	DIP20	☑
76♦	MC74HC373J(A)	CMS	8	25n		3.85	1.10	6.0m	0.4	0.5	7.0	500m	Trnsprnt	4	8	74LS373	DIP20	☑
77♦	MC74HC373N(A)	CMS	8	25n		3.85	1.10	6.0m	0.4	0.5	7.0	500m	Trnsprnt	4	8	74LS373	DIP20	☑
78♦	MC74HC533J(A)	CMS	8	25n		3.85	1.10	6.0m	0.4	0.5	7.0	500m	Trnsprnt	4	8	74LS533	DIP20	☑
79♦	MC74HC533N(A)	CMS	8	25n		3.85	1.10	6.0m	0.4	0.5	7.0	500m	Trnsprnt	4	8	74LS533	DIP20	☑
80♦	SN54LS533J	TTL	8	25n		2.0	0.7	12m	0.4	0	7.0		Invert. Outputs	5	C	74LS533N	DIP20b	
81♦	SN54LS533W	TTL	8	25n	TS	2.0	0.7	12m	0.4		7.0		Invert. Outputs	5	C	74LS533N	FP183	
82♦	SN54S533L	TTL	8	25n	TS	2.0	0.8	20m	0.5		7.0		Invert. Outputs	5	C	74LS533N	LC43	
83♦	SN74LS533J	TTL	8	25n		2.0	0.8	12m	0.4	0	7.0		Invert. Outputs	0	7	74LS533N	DIP20b	
84♦	SN74LS533N	TTL	8	25n		2.0	0.8	12m	0.4	0	7.0		Invert. Outputs	0	7	74LS533N	DIP20a	
85♦	SN74LS653JS(2)	TTL	8	25n		2.0	0.8	12m	0.4		7.0		Invert. Outputs	0	7	74LS363N	DIP24e	
86♦	SN74LS653NS(2)	TTL	8	25n		2.0	0.8	12m	0.4		7.0		Invert. Outputs	0	7	74LS363N	DIP24e	
87♦	AM25S373DC	TTL	8	26n		2.0	0.8	20m	0.45	0.5	7.0		NON INV	0	7	74LS373	DIP20b	
88♦	AM25S373DM	TTL	8	26n		2.0	0.8	20m	0.45	0.5	7.0		NON INV	5	C	74LS373	DIP20b	
89	AM25S373FM	TTL	8	26n		2.0	0.8	20m	0.45	0.5	7.0		NON INV	5	C	74LS373	FP123	
90♦	AM25S373PC	TTL	8	26n		2.0	0.8	20m	0.45	0.5	7.0		NON INV	0	7	74LS373	DIP20b	
91♦	AM25S533DC	TTL	8	26n		2.0	0.8	20m	0.45	0.5	7.0		INVERT	0	7	74LS533	DIP20b	
92♦	AM25S533DM	TTL	8	26n		2.0	0.8	20m	0.45	0.5	7.0		INVERT	5	C	74LS533	DIP20b	
93	AM25S533FM	TTL	8	26n		2.0	0.8	20m	0.45	0.5	7.0		INVERT	5	C	74LS533	FP123	
94♦	AM25S533PC	TTL	8	26n		2.0	0.8	20m	0.45	0.5	7.0		INVERT	0	7	74LS533	DIP20b	
95♦	AM2957DC	TTL	8	26n	TS	2.0	0.80	20m	0.45	0	7.0		Transparent	0	7	L00-61a	DIP20b	
96♦	AM2957LC	TTL	8	26n	TS	2.0	0.80	20m	0.45	0	7.0		Transparent	0	7	L00-61a	LC17	
97♦	AM2957PC	TTL	8	26n	TS	2.0	0.80	20m	0.45	0	7.0		Transparent	0	7	L00-61a	DIP20b	
98♦	AM2957XC	TTL	8	26n	TS	2.0	0.8	20m	0.45	0	7.0		Transparent	0	7	L00-61a	CH140	
99♦	AM2957XM	TTL	8	26n	TS	2.0	0.8	20m	0.45	0	7.0		Transparent	5	C	L00-61a	CH140	
100♦	M54HC259F1(A)	CMS	8	26n		3.15	1.35	20u	0.1	0	7.0	500m	Addressable	5	C	74-259	DIP16b	
101	SN54S373W	TTL	8	26n		2.0	0.8	20m	0.45	0.5	7.0		NON INV	5	6	74LS373	FP123	
102♦	SN54S533J	TTL	8	26n		2.0	0.8	20m	0.45	0.5	7.0		INVERT	5	C	74LS533	DIP20b	
103	SN54S533W	TTL	8	26n		2.0	0.8	20m	0.45	0.5	7.0		INVERT	5	C	74LS533	FP123	
104♦	MC3482BL	TTL	8	27n	TS	2.0	0.8	48m	0.5	0	8.0		transpar	0	7	L00-128	DIP20b	
105♦	MC6882BL	TTL	8	27n	TS	2.0	0.8	48m	0.5	0	8.0		transpar	0	7	L00-128	DIP20b	
106♦	N74LS363N	TTL	8	27n		2.0	0.8	24m	0.5	0.5	7.0	350m	transpar	0	7	74LS363N	DIP20d	
107♦	S54LS363F	TTL	8	27n		2.0	0.7	12m	0.4	0.5	7.0	350m	transpar	5	C	74LS363N	DIP20b	
108♦	S54LS363G	TTL	8	27n		2.0	0.7	12m	0.4	0.5	7.0		Transparent	5	C	54LS363	LC24	
109♦	9334DC	TTL	8	28n		2.0	0.8			0	5.0	280m†	addrsble	0	7	74-259N	DIP16b	
110	9334FM	TTL	8	28n		2.0	0.8			0	5.0	280m†	addrsble	5	C	54-259W	FP103	

26. LATCHES - D-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[2] BITS	[3] tpd MAX (s)	[1] OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	9334PC	TTL	8	28n		2.0	0.8			0	5.0	280m†	addrsble	0	7	74-259N	DIP16 ☑
2♦	DM54LS374W	TTL	8	28n		2.0	0.8			0	7.0		nsparent	5	C	54S374W	DIP20b
3♦	DM74LS374N	TTL	8	28n		2.0	0.8			0	7.0		nsparent	0	7	74LS364N	DIP20b
4♦	DM54259W	TTL	8	28n		2.0	0.8			0	7.0		Addressable	5	C	54-259W	FP97c
5♦	DM74259N	TTL	8	28n		2.0	0.8			0	7.0		Addressable	0	7	74-259N	DIP16a
6♦	MC3482AL	TTL	8	28n	TS	2.0	0.8	48m	0.5	0	8.0		nsparent	0	7	L00-127	DIP20b
7♦	MC6882AL	TTL	8	28n	TS	2.0	0.8	48m	0.5	0	8.0		nsparent	0	7	L00-127	DIP20b
8▼	SN74ALS996-1NT	TTL	8	28n	TS	2.0	0.8	48m	0.5	0.0	5.0		Bus Structured	0	7	74ALS996	DIP24e
9♦	SN74ALS996NT	TTL	8	28n	TS	2.0	0.8	24m	0.5	0.0	5.0		Bus Structured	0	7	74ALS996	DIP24e
10	SN74S374J(1)	TTL	8	28n		2.0	0.7	12m	0.4	0	5.0	200mQ	buffered Inp	0	7	74LS364N	DL ☑
11♦	SN74259N	TTL	8	28n		2.0	0.8	16m	0.4	0	7.0	450m	Addressable	0	7	74-259N	DIP16a
12♦	M54HC373F1(A)	CMS	8	29n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	5	C	74LS373	DIP20b
13♦	M54HC533F1(A)	CMS	8	29n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	5	C	74LS533	DIP20b
14♦	M54HC563F1(A)	CMS	8	29n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	5	C	74LS563	DIP20b
15♦	M54HC573F1(A)	CMS	8	29n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	5	C	74LS573	DIP20b
16♦	MD74HCT373RE	CMS	8	29n	TS	2.0	0.8	12m	0.37		5.0	450m	Transparent	4	8	74LS373	DIP20b
17♦	MD74HCT573RE	CMS	8	29n	TS	2.0	0.8	12m	0.37		5.0	450m	Transparent	4	8	74LS373N	DIP20b
18♦	54LS259DM	TTL	8	30n		2.0	0.7	4.0m	0.4	0	5.0	180m	addrsble	5	C	74-259N	DIP16a
19	54LS259FM	TTL	8	30n		2.0	0.7	4.0m	0.4	0	5.0	180m	addrsble	5	C	54-259W	FP103
20♦	74LS259DC	TTL	8	30n		2.0	0.8	8.0m	0.5	0	5.0	180m	addrsble	0	7	74-259N	DIP16a
21♦	74LS259PC	TTL	8	30n		2.0	0.8	8.0m	0.5	0	5.0	180m	addrsble	0	7	74-259N	DIP16 ☑
22♦	CD54HC373F	CMS	8	30n	TS	4.2	1.2	20u	0.1	0	7.0	500m	Transparent	5	C	74LS373N	DIP20b
23♦	CD74HC373E	CMS	8	30n	TS	4.2	1.2	20u	0.1	0	7.0	500m	Transparent	4	8	74LS373N	DIP20a
24▼	HD74LS373G	TTL	8	30n		2.0	0.8	24m	0.5	0.5	5.5		Non-INV	2	7	74LS373	DIP20b
25▼	HD74LS373P	TTL	8	30n		2.0	0.8	24m	0.5	0.5	5.5		Non-INV	2	7	74LS373	DIP20a
26▼	IB8282	BIP	8	30n	TS	2.0	0.8	32m	0.45		5.0	1.0		4	8	L00-131	DIP20
27♦	LC74HC373	CMS	8	30n	TS	3.5	1.5	20u	0.1		5.0	0.5		4	8	74LS373	DIP20a
28♦	M5L8282P	TTL	8	30n		2.0	0.8	32m	0.45	0.5	7.0		Compl. Outputs	0	7	L00-131	DIP20 ☑
29▼	P8282	BIP	8	30n	TS	2.0	0.8	32m	0.45		5.0	1.0		0	7	L00-131	DIP20a
30▼	P8283	BIP	8	30n	TS	2.0	0.8	32m	0.45		5.0	1.0		0	7	L00-131a	DIP20a
31♦	QC8282	TTL	8	30n	TS	2.0	0.8	32m	0.45		5.0	1.0	Addressable	0	7	L00-131	DIP20 ☑
32♦	QD8282	TTL	8	30n	TS	2.0	0.8	32m	0.45		5.0	1.0	Addressable	0	7	L00-131	DIP20 ☑
33♦	QP8282	TTL	8	30n	TS	2.0	0.8	32m	0.45		5.0	1.0	Addressable	0	7	L00-131	DIP20 ☑
34▼	SAB8282A	BIP	8	30n	TS	2.0	0.8	32m	0.45	0	5.0	1.0	Transparent	0	7	L00-131	DIP20
35♦	SN54LS373L	TTL	8	30n	TS	2.0	0.7	12m	0.4		5.0		Buff inn	5	C	74LS363N	LC43
36♦	SN54LS533L	TTL	8	30n	TS	2.0	0.7	12m	0.4		7.0		Buff inp	5	C	74LS363N	LC43
37♦	SN54S373L	TTL	8	30n	TS	2.0	0.8	12m	0.4		7.0		Buff inp	5	C	74LS363N	LC43
38♦	SN74LS259BD	TTL	8	30n	TP	2.0	0.8	8.0m	0.5	0	5.0		Addressable	0	7	74-259	FP148
39♦	SN74LS259BN	TTL	8	30n	TP	2.0	0.8	8.0m	0.5	0	5.0		Addressable	0	7	74-259	DIP16a
40♦	TC8282	TTL	8	30n	TS	2.0	0.8	32m	0.45		5.0	1.0	Addressable	4	8	L00-131	DIP20 ☑
41♦	TD8282	TTL	8	30n	TS	2.0	0.8	32m	0.45		5.0	1.0	Addressable	4	8	L00-131	DIP20 ☑
42♦	TP8282	TTL	8	30n	TS	2.0	0.8	32m	0.45		5.0	1.0	Addressable	4	8	L00-131	DIP20 ☑
43▼	UPB8282D	BIP	8	30n	TS	2.0	0.8	32	0.45		5.0			0	7	L00-131	DIP20a
44▼	UPB8283C	BIP	8	30n	TS	2.0	0.8	32m	0.45		5.0	800m†	8-Bit Latch	0	7	L00-131a	DIP20b
45▼	UPB8283D	BIP	8	30n	TS	2.0	0.8	32	0.45		5.0			0	7	L00-131a	DIP20a
46♦	MD54HC573RC	CMS	8	31n	TS	2.0	0.8	12m	0.4	0.5	7.5	1.0	Transparent	5	C	74LS573N	DIP20
47♦	MD54HCT373RC	CMS	8	31n	TS	2.0	0.8	12m	0.4		5.0	1.0	Transparent	5	C	74LS373	DIP20b
48♦	MD54HCT573RC	CMS	8	31n	TS	2.0	0.8	12m	0.4		5.0	1.0	Transparent	5	C	74LS573	DIP20b
49♦	M74HC259B1(A)	CMS	8	32n		3.15	1.35	20u	0.1	0	7.0	500m	Addressable	4	8	74-259	DIP16a
50♦	M74HC259C1(A)	CMS	8	32n		3.15	1.35	20u	0.1	0	7.0	500m	Addressable	4	8	L00-147	LC33
51♦	M74HC259F1(A)	CMS	8	32n		3.15	1.35	20u	0.1	0	7.0	500m	Addressable	4	8	74-259	DIP16b
52♦	N74LS259D	TTL	8	32n		2.0	0.8	8.0m	0.5	0.5	7.0	180m	Addressable	0	7	54-259N	FP148
53♦	N74LS259N	TTL	8	32n		2.0	0.8	8.0m	0.5	0.5	7.0	180m	Addressable	0	7	74-259N	DIP16a
54♦	N74LS363F	TTL	8	32n		2.0	0.8	24m	0.5	0	5.0	350m	transpar	0	7	74LS363N	DIP20b
55♦	S54LS259F	TTL	8	32n		2.0	0.7	4.0m	0.4	0.5	7.0	180m	Addressable	5	C	74-259N	DIP16b
56♦	S54LS259W	TTL	8	32n		2.0	0.7	4.0m	0.4	0.5	7.0	180m	Addressable	5	C	54-259W	FP154
57♦	74HC573D	CMS	8	33n	TS	3.15	1.35	20u	0.1		5.0		Transparent	4	8	74LS573	FP169
58♦	74HC573N	CMS	8	33n	TS	3.15	1.35	20u	0.1		5.0		Transparent	4	8	74LS573	DIP20a
59▼	SN74HC259D	CMS	8	33n		3.15	0.90	4.0m	0.33	0.0	5.00		Addressable	4	8	74-259N	FP162
60♦	SN74HC259N	CMS	8	33n		3.15	0.90	4.0m	0.33	0.0	5.00		Addressable	4	8	74-259N	DIP16a
61♦	SN74HC4724N	CMS	8	33n		3.15	0.90	4.0m	0.33	0.0	5.0		Addressable	4	8	47-24B	DIP16a
62▼	TC74HC259F(A)	CMS	8	33n		3.15	1.35	6.0m	0.33	0	5.0	180m	Addressable	4	8	74-259N	FP167
63▼	TC74HC259P(A)	CMS	8	33n		3.15	1.35	6.0m	0.33	0	5.0	500m	Addressable	4	8	74-259N	DIP16a
64▼	TC74HC563F(A)	CMS	8	33n	TS	3.15	1.35	6.0m	0.33	0	5.0	180m	Inverting O/Ps	4	8	74AS580	FP168
65▼	TC74HC563P(A)	CMS	8	33n	TS	3.15	1.35	6.0m	0.33	0	5.0	500m	Inverting O/Ps	4	8	74AS580	DIP20a
66▼	TC74HC573F(A)	CMS	8	33n	TS	3.15	1.35	6.0m	0.33	0	5.0	180m	Non-Inverting	4	8	74LS573N	FP168
67▼	TC74HC573P(A)	CMS	8	33n	TS	3.15	1.35	6.0m	0.33	0	5.0	500m	Non-Inverting	4	8	74LS573N	DIP20a
68♦	MM74HC563J	CMS	8	34n	TS	4.2	1.2	6.0m	0.33	0	7.0	500m	Compl. Outputs	4	8	74LS563N	DIP20b
69♦	MM74HC563N	CMS	8	34n	TS	4.2	1.2	6.0m	0.33	0	7.0	500m	Compl. Outputs	4	8	74LS563N	DIP20a
70♦	MM74HC573J	CMS	8	34n	TS	4.2	1.2	6.0m	0.33	0	7.0	500m		4	8	74LS573N	DIP20b
71♦	MM74HC573N	CMS	8	34n	TS	4.2	1.2	6.0m	0.33	0	7.0	500m		4	8	74LS573N	DIP20a
72♦	82C82CJ	CMS	8	35n	TS	2.0	0.8	32m	0.45		5.0	1.0	non-inverting	0	7	L00-131	DIP20b
73♦	82C82CN	CMS	8	35n	TS	2.0	0.8	32m	0.45		5.0	1.0	non-inverting	0	7	L00-131	DIP20a
74♦	82C82MJ	CMS	8	35n	TS	2.0	0.8	32m	0.45		5.0	1.0	non-inverting	5	C	L00-131	DIP20b
75♦	82C82ML	CMS	8	35n	TS	2.0	0.8	32m	0.45		5.0	1.0	non-inverting	5	C	L00-131	LC43
76♦	82C82MW	CMS	8	35n	TS	2.0	0.8	32m	0.45		5.0	1.0	non-inverting	5	C	L00-131	FP183
77♦	82C83CJ	CMS	8	35n	TS	2.0	0.8	32m	0.45		5.0	1.0	inverting	0	7	L00-131a	DIP20b
78♦	82C83CN	CMS	8	35n	TS	2.0	0.8	32m	0.45		5.0		inverting	0	7	L00-131a	DIP20a
79♦	82C83MJ	CMS	8	35n	TS	2.0	0.8	32m	0.45		5.0	1.0	inverting	5	C	L00-131a	DIP20b
80♦	82C83ML	CMS	8	35n	TS	2.0	0.8	32m	0.45		5.0	1.0	inverting	5	C	L00-131a	LC43
81♦	82C83MW	CMS	8	35n	TS	2.0	0.8	32m	0.45		5.0	1.0	inverting	5	C	L00-131a	FP183
82♦	CD54HCT373F	CMS	8	35n	TS	2.0	0.8	20u	0.1	0	7.0	500m	Transparent	5	C	74LS373N	DIP20b
83♦	CD74HCT373E	CMS	8	35n	TS	2.0	0.8	20u	0.1	0	7.0	500m	Transparent	4	8	74LS373N	DIP20a
84♦	DM54LS259J	TTL	8	35n		2.0	0.7	4.0m	0.4		5.0		ADDR/MULT	5	C	L00-35	DIP16a
85♦	DM8334J	TTL	8	35n		2.0	0.8	16m	0.4	0	5.0	430mQ	Addrsble	0	7	74-259N	DIP16a
86♦	DM8334N	TTL	8	35n		2.0	0.8	16m	0.4	0	5.0	430mQ	Addrsble	0	7	74-259N	DIP16a
87	DM8334W	TTL	8	35n		2.0	0.8	16m	0.4	0	5.0	430mQ	Addrsble	0	7	54-259W	FP88b
88♦	DM9334J	TTL	8	35n		2.0	0.8	16m	0.4	0	5.0	430mQ	Addrsble	5	C	74-259N	DIP16a
89	DM9334W	TTL	8	35n		2.0	0.8	16m	0.4	0	5.0	430mQ	Addrsble	5	C	54-259W	FP88b
90♦	DM54259J	TTL	8	35n		2.0	0.8	16m	0.4		5.0		ADDR/MULT	5	C	54-259	DIP16a
91▼	HD74LS259G	TTL	8	35n		2.0	0.8	8.0m	0.5	0	5.0	400m	Addressable	2	7	54-259N	DIP16a
92♦	HD74LS259P	TTL	8	35n		2.0	0.8	8.0m	0.5	0	5.0	400m	Addressable	2	7	74-259N	DIP16a
93▼	IC8282	BIP	8	35n	TS	2.0	0.8	20m	0.45		5.0	1.0		4	8	L00-131	DIP20a
94▼	ID8282	BIP	8	35n	TS	2.0	0.8	20m	0.45		5.0	1.0		4	8	L00-131	DIP20a
95▼	IP8282	BIP	8	35n	TS	2.0	0.8	20m	0.45		5.0	1.0		4	8	L00-131	DIP20a
96♦	M54HCT563F1(A)	CMS	8	35n		2.0	0.8	20u	0.1	0	7.0	500m	Transparent	5	C	74LS563	DIP20b
97♦	M54HCT573F1(A)	CMS	8	35n		2.0	0.8	20u	0.1	0	7.0	500m	Transparent	5	C	74LS573	DIP20b
98♦	M74HC373B1(A)	CMS	8	35n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	74LS373	DIP20a
99♦	M74HC373C1(A)	CMS	8	35n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	L00-154	LC33
100♦	M74HC373F1(A)	CMS	8	35n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	74LS373	DIP20b
101♦	M74HC533B1(A)	CMS	8	35n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	74LS533	DIP20a
102♦	M74HC533C1(A)	CMS	8	35n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	L00-143	LC33
103♦	M74HC533F1(A)	CMS	8	35n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	74LS533	DIP20b
104♦	M74HC563B1(A)	CMS	8	35n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	74LS563	DIP20a
105♦	M74HC563C1(A)	CMS	8	35n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	L00-144	LC33
106♦	M74HC563F1(A)	CMS	8	35n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	74LS563	DIP20b
107♦	M74HC573B1(A)	CMS	8	35n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	74LS573	DIP20a
108♦	M74HC573C1(A)	CMS	8	35n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	L00-145	LC33
109♦	M74HC573F1(A)	CMS	8	35n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	74LS573	DIP20b
110♦	N9334F	TTL	8	35n		2.0	0.8	9.6m		0	5.0	430m	addrsble	0	7	74-259N	DIP16b

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

26. LATCHES - D-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS
(3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	2 BITS	3 tpd MAX (s)	1 OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	N9334N	TTL	8	35n		2.0	0.8	9.6m		0	5.0	430m	addrsble	0	7	74-259N	DIP16a
2♦	S9334F	TTL	8	35n		2.0	0.8	9.6m		0	5.0	430m	addrsble	5	C	74-259N	DIP16b
3	S9334W	TTL	8	35n		2.0	0.8	9.6m		0	5.0	430m	addrsble	5	C	54-259W	FP47g
4♦	74LS373PC	TTL	8	36n		2.0	0.8	8.0m	0.5	0	5.0	200m	nsparent	0	7	74LS363N	DIP20a
5♦	M74LS373P	TTL	8	36n	TS	2.0	0.8	8.0m	0.5	0.5	7.0	120m†	Transparent	2	7	74LS363N	DIP20a
6	SN54LS373W	TTL	8	36n		2.0	0.7	12m	0.4	0	5.0	200m		5	C	L00-61	FP136
7▼	TC74HC373F(A)	CMS	8	36n	TS	3.15	1.35	6.0m	0.33	0	5.0	180m	Non-Inverting	4	8	74LS373N	FP168
8▼	TC74HC373P(A)	CMS	8	36n	TS	3.15	1.35	6.0m	0.33	0	5.0	500m	Non-Inverting	4	8	74LS373N	DIP20a
9▼	TC74HC533F(A)	CMS	8	36n	TS	3.15	1.35	6.0m	0.33	0	5.0	180m	Inverting	4	8	74LS533N	FP168
10▼	TC74HC533P(A)	CMS	8	36n	TS	3.15	1.35	6.0m	0.33	0	5.0	500m	Inverting	4	8	74LS533N	DIP20a
11♦	74HC373D	CMS	8	37n	TS	3.15	1.35	20u	0.1		5.0		Transparent	4	8	74LS373	FP169
12♦	74HC373N	CMS	8	37n	TS	3.15	1.35	20u	0.1		5.0		Transparent	4	8	74LS373	DIP20a
13♦	74HC533D	CMS	8	37n	TS	3.15	1.35	20u	0.1		5.0		Transparent	4	8	74LS533	FP169
14♦	74HC533N	CMS	8	37n	TS	3.15	1.35	20u	0.1		5.0		Transparent	4	8	74LS533	DIP20a
15♦	93L34DC	TTL	8	37n		2.0	0.8			0	5.0	70m†	addrsble	0	7	74-259N	DIP16a
16♦	93L34DM	TTL	8	37n		2.0	0.7			0	5.0	70m†	addrsble	5	C	74-259N	DIP16a
17	93L34FM	TTL	8	37n		2.0	0.7			0	5.0	70m†	addrsble	5	C	54-259W	FP103
18♦	93L34PC	TTL	8	37n		2.0	0.8			0	5.0	70m†	addrsble	0	7	74-259N	DIP16 ☑
19♦	74HC563D	CMS	8	38n	TS	3.15	1.35	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS563N	DIP20b
20♦	74HCT373C	CMS	8	38n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS363N	DIP20b
21♦	74HCT373P	CMS	8	38n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS363N	DIP20b
22♦	74HCT533C	CMS	8	38n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS533N	DIP20b
23♦	74HCT533P	CMS	8	38n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS533N	DIP20b
24♦	74HCT563C	CMS	8	38n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS563N	DIP20b
25♦	74HCT563D	CMS	8	38n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS563N	DIP20b
26♦	74HCT563P	CMS	8	38n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS563N	DIP20b
27♦	74HCT573C	CMS	8	38n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS573N	DIP20b
28♦	74HCT573P	CMS	8	38n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS573N	DIP20b
29♦	DM54LS259W	TTL	8	38n		2.0	0.8			0	7.0		Addressable	5	C	54-259W	FP97c
30♦	DM74LS259N	TTL	8	38n		2.0	0.8			0	7.0		Addressable	0	7	54-259N	DIP16a
31♦	M74LS259P	TTL	8	38n		2.0	0.8	8.0m	0.5	0.5	7.0	100m†	Addressable	2	7	74-259N	DIP16b
32♦	N74LS259F	TTL	8	38n		2.0	0.8	8.0m	0.5	0	5.0	180m	Addressable	0	7	74-259N	DIP16b
33♦	SN54LS259J	TTL	8	38n		2.0	0.7	4.0m	0.4	0	5.0		Addr	5	C	74-259N	DIP16a
34▼	SN54LS259N	TTL	8	38n		2.0	0.7	4.0m	0.4	0	5.0		Addr	5	C	74-259N	DIP16a
35♦	SN74LS259J	TTL	8	38n		2.0	0.8	8.0m	0.5	0	5.0		Addr	0	7	74-259N	DIP16a
36♦	SN74LS259N	TTL	8	38n		2.0	0.8	8.0m	0.5	0	5.0		Addr	0	7	74-259N	DIP16a
37♦	74HC259D	CMS	8	39n		3.15	1.35	20u	0.1		5.0		Addressable	4	8	74-259	FP162
38♦	74HC259N	CMS	8	39n		3.15	1.35	20u	0.1		5.0		Addressable	4	8	74-259	DIP16b
39♦	CD74HC259E	CMS	8	39n	TS	3.15	1.35	20u	0.1	0.5	7.0	500m	Addressable	4	8	74-259	MS001a
40♦	CD74HC259M	CMS	8	39n	TS	3.15	1.35	20u	0.1	0.5	7.0	400m	Addressable	4	8	54-259	MS012c
41♦	CD74HCT259M	CMS	8	39n	TS	2.0	0.8	20u	0.1	0.5	7.0	400m	Addressable	4	8	54-259	MS012c
42♦	54ACT793J	CMS	8	40n		2.0	0.7	12m	0.4		5.0			5	C	54AC793	DIP20b
43	54ACT793L	CMS	8	40n		2.0	0.7	12m	0.4		5.0			5	C	54AC793	LC45
44	54ACT793W	CMS	8	40n		2.0	0.7	12m	0.4		5.0			5	C	54AC793	FP183
45♦	54ACT794J	CMS	8	40n	TS	2.0	0.7	12m	0.4		5.0		8 Bit Latch	5	C	54AC793	DIP20b
46♦	54ACT794L	CMS	8	40n	TS	2.0	0.7	12m	0.4		5.0		8 Bit Latch	5	C	54AC793	LC43
47♦	54ACT794W	CMS	8	40n	TS	2.0	0.7	12m	0.4		5.0		8 Bit Latch	5	C	54AC793	FP183
48♦	74ACT793J	CMS	8	40n		2.0	0.8	12m	0.4		5.0			4	8	74AC793	DIP20b
49♦	74ACT793N	CMS	8	40n		2.0	0.8	12m	0.4		5.0			4	8	74AC793	DIP20a
50♦	74ACT794J	CMS	8	40n	TS	2.0	0.8	12m	0.4	0.5	7.0		8 Bit Latch	5	C	74AC793	DIP20b
51♦	74ACT794N	CMS	8	40n	TS	2.0	0.8	12m	0.4		5.0		8 Bit Latch	5	C	74AC793	DIP20a
52♦	74HCT373D	CMS	8	40n	TS	2.0	0.8	20u	0.1		5.0		transpar	4	8	74LS363N	DIP20a
53♦	74HCT373N	CMS	8	40n	TS	2.0	0.8	20u	0.1		5.0		Transparent	4	8	74LS373	DIP20a
54♦	MV74HCT373	CMS	8	40n		2.0	0.8	12m	0.4	0.5	7.5	450m	Transparent	4	8	74LS373	DIP20b
55♦	MV74HCT573	CMS	8	40n		2.0	0.8	12m	0.4	0.5	7.5	450m	Transparent	4	8	74LS573N	DIP20b
56♦	N74HC573D	CMS	8	40n		3.15	0.9	6.0m	0.33		4.5	0.2	Transparent	4	8	74LS579	FP169
57♦	N74HC573N	CMS	8	40n		3.15	0.9	6.0m	0.33		4.5	0.5	Transparent	4	8	74LS579	DIP20b
58♦	CD74HC533E	CMS	8	41n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	74LS533N	DIP20a
59♦	CD74HC533M	CMS	8	41n		3.15	1.35	20u	0.1	0	7.0	300m	Transparent	4	8	54LS533	FP169
60♦	CD74HC563E	CMS	8	41n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	4	8	74LS563N	DIP20a
61♦	CD74HC563M	CMS	8	41n		3.15	1.35	20u	0.1	0	7.0	300m	Transparent	4	8	54LS563	FP169
62♦	MM54HC563J	CMS	8	41n	TS	4.2	1.2	6.0m	0.4	0.5	7.0	500m	Compl. Outputs	5	C	74LS563N	DIP20b
63♦	MM54HC573J	CMS	8	41n	TS	4.2	1.2	6.0m	0.4	0.5	7.0	500m		5	C	74LS573N	DIP20b
64♦	PC74HC533P	CMS	8	41n		3.15	0.9	20u	0.1	0	7.0	500m	Transparent	4	8	74LS533	DIP20b
65♦	PC74HC533T	CMS	8	41n		3.15	0.9	20u	0.1	0	7.0	300m	Transparent	4	8	74LS533	FP169
66♦	M74HCT563B1(A)	CMS	8	42n		2.0	0.8	20u	0.1	0	7.0	500m	Transparent	4	8	74LS563	DIP20a
67♦	M74HCT563C1(A)	CMS	8	42n		2.0	0.8	20u	0.1	0	7.0	500m	Transparent	4	8	L00-144	LC33
68♦	M74HCT563F1(A)	CMS	8	42n		2.0	0.8	20u	0.1	0	7.0	500m	Transparent	4	8	74LS563	DIP20b
69♦	M74HCT573B1(A)	CMS	8	42n		2.0	0.8	20u	0.1	0	7.0	500m	Transparent	4	8	74LS573	DIP20a
70♦	M74HCT573C1(A)	CMS	8	42n		2.0	0.8	20u	0.1	0	7.0	500m	Transparent	4	8	L00-145	LC33
71♦	M74HCT573F1(A)	CMS	8	42n		2.0	0.8	20u	0.1	0	7.0	500m	Transparent	4	8	74LS573	DIP20b
72♦	MV54HCT373	CMS	8	43n		2.0	0.8	12m	0.4	0.5	7.5	1.0	Transparent	5	C	74LS373	DIP20b
73♦	MV54HCT573	CMS	8	43n		2.0	0.8	12m	0.4	0.5	7.5	1.0	Transparent	5	C	74LS573N	DIP20b
74▼	SN74HC604N	CMS	8	43n	TS	3.15	0.9	4.0m	0.33	0.0	5.0		Multiplexed	4	8	74HC604	DIP28a
75♦	74HC563N	CMS	8	44n	TS	3.15	1.35	20u	0.1		5.0		Transparent	4	8	74LS573	DIP20a
76♦	74HCT563N	CMS	8	44n	TS	2.0	0.8	20u	0.1		5.0		Transparent	4	8	74LS573	DIP20a
77♦	74HCT573D	CMS	8	44n	TS	2.0	0.8	20u	0.1		5.0		transpar	4	8	74LS573	FP169
78♦	74HCT573N	CMS	8	44n	TS	2.0	0.8	20u	0.1		5.0		Transparent	4	8	74LS573	DIP20a
79♦	CD74HC373M(A)	CMS	8	44n		3.15	1.35	20u	0.1	0	7.0	300m	Transparent	4	8	54-373	FP169
80♦	CD74HC573E	CMS	8	44n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	5	8	74LS573N	DIP20a
81♦	CD74HC573M	CMS	8	44n		3.15	1.35	20u	0.1	0	7.0	300m	Transparent	4	8	54LS573	FP169
82♦	CD74HCT373M(A)	CMS	8	44n		2.0	0.8	20u	0.1	0	7.0	300m	Transparent	4	8	54-373	FP169
83♦	CD74HCT533E	CMS	8	44n		2.00	0.80	20u	0.1	0	7.0	500m	Transparent	4	8	74LS533N	DIP20a
84♦	CD74HCT533M	CMS	8	44n		2.0	0.8	20u	0.1	0	7.0	300m	Transparent	4	8	54LS533	FP169
85♦	CD74HCT563E	CMS	8	44n		2.00	0.80	20u	0.1	0	7.0	500m	Transparent	4	8	74LS563N	DIP20a
86♦	CD74HCT563M	CMS	8	44n		2.0	0.8	20u	0.1	0	7.0	300m	Transparent	4	8	54LS563	FP169
87♦	PC74HC563P	CMS	8	44n	TS	3.15	1.35	20u	0.1	0	5.0	500m	Transparent	4	C	74LS563	DIP20b
88♦	PC74HC563T	CMS	8	44n	TS	3.15	1.35	20u	0.1	0	5.0	300m	Transparent	4	C	74LS563	FP169
89♦	SN74HC563N	CMS	8	44n	TS	3.15	0.9	4.0m	0.4	0	5.0		Transparent	4	8	74LS563N	DIP20a
90♦	SN74HC573N	CMS	8	44n	TS	3.15	0.9	4.0m	0.33	0	5.0		Transparent	4	8	74LS573N	DIP20a
91▼	TC74HCT373F(A)	CMS	8	44n	TS	2.0	0.8	6.0m	0.33	0	5.0	180m	tr,tf 15ns max	4	8	74LS363N	FP168
92▼	TC74HCT373P(A)	CMS	8	44n	TS	2.0	0.8	6.0m	0.33	0	5.0	500m	tr,tf 15ns max	4	8	74LS363N	DIP20a
93▼	TC74HCT563P(A)	CMS	8	44n	TS	2.0	0.8	6.0m	0.33	0	5.0	500m	Inverting	4	8	74LS563N	DIP20a
94▼	TC74HCT573P(A)	CMS	8	44n	TS	2.0	0.8	6.0m	0.33	0	5.0	500m	Non-Inverting	4	8	74LS573N	DIP20a
95♦	PC74HC373P	CMS	8	45n		3.15	1.35	20u	0.1	0	5.0	500m	Transparent	4	C	74LS363	DIP20b
96♦	PC74HC373T	CMS	8	45n		3.15	1.35	20u	0.1	0	5.0	300m	Transparent	4	C	74LS363	FP169
97♦	PC74HC573P	CMS	8	45n	TS	3.15	1.35	20u	0.1	0	5.0	500m	Transparent	4	C	74LS573	DIP20b
98♦	PC74HC573T	CMS	8	45n	TS	3.15	1.35	20u	0.1	0	5.0	300m	Transparent	4	C	74LS573	FP169
99♦	PC74HCT373P	CMS	8	45n		2.0	0.8	20u	0.1	0	5.0	500m	Transparent	4	C	74LS363	DIP20b
100♦	PC74HCT373T	CMS	8	45n		2.0	0.8	20u	0.1	0	5.0	300m	Transparent	4	C	74LS363	FP169
101♦	PC74HCT533P	CMS	8	45n	TS	3.15	1.35	20u	0.1	0	5.0	500m	Transparent	4	C	74LS533	DIP20b
102♦	PC74HCT533T	CMS	8	45n	TS	3.15	1.35	20u	0.1	0	5.0	300m	Transparent	4	C	74LS533	FP169
103♦	PC74HCT563P	CMS	8	45n	TS	2.0	0.8	20u	0.1	0	5.0	500m	Transparent	4	C	74LS563	DIP20b
104♦	PC74HCT563T	CMS	8	45n	TS	2.0	0.8	20u	0.1	0	5.0	300m	Transparent	4	C	74LS563	FP169
105♦	SN74LS604N	TTL	8	45n	TS	2.0	0.8	24m	0.5	0	5.0		MUX Inp	0	7	74LS604	DIP28b
106♦	54HCT373C	CMS	8	47n	TS	2.0	0.7	-20u	0.4	0	7.0	0.5	transpar	5	C	74LS363N	DIP20b
107♦	54HCT373D	CMS	8	47n	TS	2.0	0.7	-20u	0.4	0	7.0	0.5	transpar	5	C	74LS363N	DIP20b
108♦	54HCT533C	CMS	8	47n	TS	2.0	0.7	-20u	0.4	0	7.0	0.5	transpar	5	C	74LS533N	DIP20b
109♦	54HCT533D	CMS	8	47n	TS	2.0	0.7	-20u	0.4	0	7.0	0.5	transpar	5	C	74LS533N	DIP20b
110♦	54HCT563C	CMS	8	47n	TS	2.0	0.7	-20u	0.4	0	7.0	0.5	transpar	5	C	74LS563N	DIP20b

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

26. LATCHES - D-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS
(3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[2] BITS	[3] tpd MAX (s)	[1] OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	54HCT563D	CMS	8	47n	TS	2.0	0.7	-20u	0.4	0	7.0	0.5	transpar	5	C	74LS563N	DIP20b
2♦	54HCT573C	CMS	8	47n	TS	2.0	0.7	-20u	0.4	0	7.0	0.5	transpar	5	C	74LS573N	DIP20b
3♦	54HCT573D	CMS	8	47n	TS	2.0	0.7	-20u	0.4	0	7.0	0.5	transpar	5	C	74LS573N	DIP20b
4♦	74SC373C	CMS	8	47n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS363N	DIP20b
5♦	74SC373D	CMS	8	47n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS363N	DIP20b
6♦	74SC373P	CMS	8	47n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS363N	DIP20b
7♦	74SC533C	CMS	8	47n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS533N	DIP20b
8♦	74SC533D	CMS	8	47n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS533N	DIP20b
9♦	74SC533P	CMS	8	47n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS533N	DIP20b
10♦	74SC563C	CMS	8	47n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS563N	DIP20b
11♦	74SC563D	CMS	8	47n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS563N	DIP20b
12♦	74SC563P	CMS	8	47n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS563N	DIP20b
13♦	74SC573C	CMS	8	47n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS573N	DIP20b
14♦	74SC573D	CMS	8	47n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS573N	DIP20b
15♦	74SC573P	CMS	8	47n	TS	2.0	0.8	-20u	0.4	0	7.0	0.5	transpar	4	8	74LS573N	DIP20b
16♦	74HCT533D	CMS	8	48n	TS	2.0	0.8	20u	0.1		5.0	0.5	transpar	4	8	74LS533	FP169
17♦	74HCT533N	CMS	8	48n	TS	2.0	0.8	20u	0.1		5.0	500m	transpar	4	8	74LS533	DIP20a
18♦	CD54HC259F	CMS	8	48n	TS	3.15	1.35	20u	0.1	0.5	7.0	500m	Addressable	5	C	74-259	DIP16a
19♦	CD54HCT259F	CMS	8	48n	TS	2.0	0.8	20u	0.1	0.5	7.0	500m	Addressable	5	C	74-259	DIP16a
20♦	MM74HC373J	CMS	8	49n	TS	4.2	1.2	6.0m	0.33	0	7.0	500m		4	8	74LS363N	DIP20b
21♦	MM74HC373N	CMS	8	49n	TS	4.2	1.2	6.0m	0.33	0	7.0	500m		4	8	74LS363N	DIP20a
22♦	MM74HC533J	CMS	8	49n	TS	4.2	1.2	6.0m	0.33	0	7.0	500m	Compl. Outputs	4	8	74LS533N	DIP20b
23♦	MM74HC533N	CMS	8	49n	TS	4.2	1.2	6.0m	0.33	0	7.0	500m		4	8	74LS533N	DIP20a
24♦	CD54HC533F	CMS	8	50n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	5	C	74LS533N	DIP20b
25♦	CD54HC563F	CMS	8	50n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	5	C	74LS563N	DIP20b
26♦	CD74HCT573E	CMS	8	50n		2.0	0.8	20u	0.1	0	7.0	500m	Transparent	4	8	74LS573N	DIP20a
27♦	CD74HCT573M	CMS	8	50n		2.0	0.8	20u	0.1	0	7.0	300m	Transparent	4	8	54LS573	FP169
28♦	DM54LS373J	TTL	8	50n		2.0	0.7	12m	0.4		5.0		Transparent	5	C	L00-61	DIP20b
29♦	N74HCT573D	CMS	8	50n		2.0	0.8	6.0m	0.33		4.5	0.2	Transparent	4	8	74LS579	FP169
30♦	N74HCT573N	CMS	8	50n		2.0	0.8	6.0m	0.33		4.5	0.5	Transparent	4	8	74LS579	DIP20b
31♦	SN74HC373N	CMS	8	50n	TS	3.15	0.9	4.0m	0.4	0.0	5.0		Transparent	4	8	74LS363N	DIP20a
32▼	SN74HC533DW(A)	CMS	8	50n	TS	3.15	0.9	4.0m	0.33	0.0	5.0		Transparent	4	8	74LS533N	FP169
33♦	SN74LS606N	TTL	8	50n	TS	2.0	0.8	24m	0.5	0	7.0	275mQ	MUX Inp	0	7	74LS606	DIP28b
34♦	MC54HC563J(A)	CMS	8	51n		3.15	0.8			0.5	7.0	500m	Transparent	5	C	54LS563W	DIP20b
35♦	MC54HC573J(A)	CMS	8	51n		3.15	0.8			0.5	7.0	500m	Transparent	5	C	L00-163b	DIP20b
36♦	MC74HC563J(A)	CMS	8	51n		3.15	0.8			0.5	7.0	500m	Transparent	4	8	54LS563W	DIP20b
37♦	MC74HC563N(A)	CMS	8	51n		3.15	0.8			0.5	7.0	500m	Transparent	4	8	54LS563W	DIP20b
38♦	MC74HC573J(A)	CMS	8	51n		3.15	0.8			0.5	7.0	500m	Transparent	4	8	L00-163b	DIP20b
39♦	MC74HC573N(A)	CMS	8	51n		3.15	0.8			0.5	7.0	500m	Transparent	4	8	L00-163b	DIP20b
40♦	PC74HC259D(A)	CMS	8	51n		3.15	0.9	20u	0.1	0	7.0	500m	Addressable	4	8	74-259	DIP16b
41♦	PC74HC259T(A)	CMS	8	51n		3.15	0.9	20u	0.1	0	7.0	300m	Addressable	4	8	74-259	FP148
42♦	74HCT259D	CMS	8	53n		2.0	0.8	20u	0.1		5.0		Addressable	4	8	74-259	FP162
43♦	74HCT259N	CMS	8	53n		2.0	0.8	20u	0.1		5.0		Addressable	4	8	74-259	DIP16b
44♦	CD54HC573F	CMS	8	53n		3.15	1.35	20u	0.1	0	7.0	500m	Transparent	5	C	74LS573N	DIP20b
45♦	CD54HCT533F	CMS	8	53n		2.00	0.80	20u	0.1	0	7.0	500m	Transparent	5	C	74LS533N	DIP20b
46♦	CD54HCT563F	CMS	8	53n		2.00	0.80	20u	0.1	0	7.0	500m	Transparent	5	C	74LS563N	DIP20b
47♦	PC74HCT573P(A)	CMS	8	53n	TS	2.0	0.8	20u	0.1	0	5.0	500m	Transparent	4	C	74LS573	DIP20b
48♦	PC74HCT573T(A)	CMS	8	53n	TS	2.0	0.8	20u	0.1	0	5.0	300m	Transparent	4	C	74LS573	FP169
49▼	SN74HCT573DW	CMS	8	53n	TS	2.0	0.8	4m	0.33		5.0		Transparent	4	8	74LS573	FP169
50▼	SN74HCT573N	CMS	8	53n	TS	2.0	0.8	4m	0.33		5.0		Transparent	4	8	74LS573	DIP20b
51♦	M5M82C82P	CMS	8	55n	TS	2.0	0.8	12m	0.4	0.3	7.0			2	7	L00-131	DIP20a
52♦	M5M82C83P	CMS	8	55n	TS	2.0	0.8	12m	0.4	0.3	7.0			2	7	L00-131a	DIP20a
53♦	PC74HCT259D(A)	CMS	8	55n		2.0	0.8	20u	0.1	0	7.0	500m	Addressable	4	8	74-259	DIP16b
54♦	MM74HCT373J(A)	CMS	8	56n	TS	2.0	0.8	6.0m	0.33	0	7.0	500m		4	8	74LS363N	DIP20b
55♦	MM74HCT373N(A)	CMS	8	56n	TS	2.0	0.8	6.0m	0.33	0	7.0	500m		4	8	74LS363N	DIP20a
56♦	PC74HC259P	CMS	8	56n		3.15	1.35	20u	0.1	0	5.0	500m	Addressable	4	C	74-259	DIP16b
57♦	TC40H373F	CMS	8	57n	TS	4.0	1.0	4.4m	0.4	0	10	180m	Non-Inv	4	8	54LS363W	FP168
58♦	TC40H373P	CMS	8	57n	TS	4.0	1.0	4.4m	0.4	0	10	300m	Non-Inv	4	8	74LS363N	DIP20b
59♦	MM54HC373J	CMS	8	59n	TS	4.2	1.2	6.0m	0.4	0.5	7.0	500m		5	C	74LS363N	DIP20b
60♦	MM54HC533J	CMS	8	59n	TS	4.2	1.2	6.0m	0.4	0.5	7.0	500m	Compl. Outputs	5	C	74LS533N	DIP20b
61♦	PC74HCT259P	CMS	8	59n		2.0	0.8	20u	0.1	0	5.0	500m	Addressable	4	C	74-259	DIP16b
62♦	PC74HCT259T(A)	CMS	8	59n		2.0	0.8	20u	0.1	0	5.0	300m	Addressable	4	C	74-259	FP148
63♦	CD54HCT573F	CMS	8	60n		2.00	0.80	20u	0.1	0	7.0	500m	Transparent	5	C	74LS573N	DIP20b
64♦	MV74SC373(A)	CMS	8	60n		2.0	0.8	10m	0.4	0.5	7.5	450m	Transparent	0	7	74LC373	DIP20b
65♦	MV74SC533(A)	CMS	8	60n		2.0	0.8	10m	0.4	0.5	7.5	450m	Transparent	0	7	74LS533	DIP20b
66♦	MV74SC563(A)	CMS	8	60n		2.0	0.8	10m	0.4	0.5	7.5	450m	Transparent	0	7	74LS563N	DIP20b
67♦	MV74SC573(A)	CMS	8	60n		2.0	0.8	10m	0.4	0.5	7.5	450m	Transparent	0	7	74LS573	DIP20b
68♦	SN54HC373J	CMS	8	60n	TS	3.15	0.90	4m	0.40	0.0	5.00		Transparent	5	C	74LS363N	DIP20b
69♦	SN74LS605N	TTL	8	60n	OC	2.0	0.8	24m	0.5	0	5.0		MUX Inp	0	7	74LS605	DIP28b
70♦	PC54HC259D(A)	CMS	8	62n		3.15	0.9	20u	0.1	0	7.0	500m	Addressable	5	C	74-259	DIP16b
71▼	SN74HCT373DW(A)	CMS	8	65n	TS	2.0	0.8	4.0m	0.33	0.0	5.0		Transparent	4	8	74LS373	FP169
72▼	SN74HCT373N(A)	CMS	8	65n	TS	2.0	0.8	4.0m	0.33	0.0	5.0		Transparent	4	8	74LS373	DIP20a
73▼	SN74HCT533N(A)	CMS	8	65n	TS	2.0	0.8	4.0m	0.33	0.0	5.0		Transparent	4	8	74LS533	DIP20a
74♦	PC54HCT259D(A)	CMS	8	66n		2.0	0.8	20u	0.1	0	7.0	500m	Addressable	5	C	74-259	DIP16b
75♦	MM54HCT373J(A)	CMS	8	68n	TS	2.0	0.8	6.0m	0.4	0.5	7.0	500m		5	C	74LS363N	DIP20b
76	HEF4724	CMS	8	70n		11	4.0	3.0m	1.5	0	15	400m	addrsble	4	8	47-24B	DL ☑
77♦	HEF4724BPN	CMS	8	70n		11.0	4.0	3.0m	1.5	0	15	400m	Addressable	4	8	47-24B	DIP16b
78♦	HEF4724BTD	CMS	8	70n		11.0	4.0	3.0m	1.5	0	15	200m	Addressable	4	8	47-24B	FP148
79♦	SN74LS607N	TTL	8	70n	OC	2.0	0.8	24m	0.5	0	5.0		MUX Inp	0	7	74LS607	DIP28b
80▼	SN54HCT373J(A)	CMS	8	79n	TS	2.0	0.8	4.0m	0.4	0.0	5.0		Transparent	5	C	74LS373	DIP20a
81▼	SN74HCT563N	CMS	8	79n	TS	2.0	0.8	4m	0.33		5.0	1.0	Transparent	4	8	74LS563	DIP20b
82♦	4724BDC	CMS	8	80n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	47-24B	DIP16a
83♦	4724BDM	CMS	8	80n		11	4.0	3.4m	1.5	0	15	9.0mQ	addrsble	5	C	47-24B	DIP16a
84	4724BFC	CMS	8	80n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	47-24B	FP103
85	4724BFM	CMS	8	80n		11	4.0	3.4m	1.5	0	15	9.0mQ	addrsble	5	C	47-24B	FP103
86	4724BPC	CMS	8	80n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	47-24B	None
87	TC40H259F	CMS	8	80n		4.0	1.0	1.1m	0.4	0	10	180m	Addrsble	4	8	54-259W	FP167
88	TC40H259P	CMS	8	80n		4.0	1.0	1.1m	0.4	0	10	300m	Ressable	4	8	74-259N	MO001AC
89♦	HEF4724BD	CMS	8	95n		7.0	3.0	1u	1.0	0	10	500m	Addressable	4	8	47-24B	DIP16b
90♦	HEF4724BP	CMS	8	95n		7.0	3.0	1u	1.0	0	10	500m	Addressable	4	8	47-24B	DIP16b
91♦	HEF4724BT	CMS	8	95n		7.0	3.0	1u	1.0	0	10	400m	Addressable	4	8	47-24B	FP148
92♦	HCC4099BD	CMS	8	100n		11	4.0	3.4m	1.5	0	15	100uQ	Addressable	5	C	40-99B	DIP16a
93♦	HCC4099BF	CMS	8	100n		11	4.0	3.4m	1.5	0	15	100uQ	Addressable	5	C	40-99B	DIP16a
94♦	HCC4099BK	CMS	8	100n		11	4.0	3.4m	1.5	0	15	100uQ	Addressable	5	C	40-99B	FP131
95♦	HCF4099BE	CMS	8	100n		11	4.0	3.4m	1.5	0	15	100uQ	Addressable	4	8	40-99B	DIP16a
96♦	HCF4099BF	CMS	8	100n		11	4.0	3.4m	1.5	0	15	100uQ	Addressable	4	8	40-99B	DIP16a
97♦	MC14099BAL	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	5	C	40-99B	DIP16a
98▼	MC14099BALD	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	5	C	40-99B	DIP16a
99▼	MC14099BALDS	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	5	C	40-99B	DIP16a
100▼	MC14099BALS	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	5	C	40-99B	DIP16a
101♦	MC14099BCL	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	40-99B	DIP16a
102▼	MC14099BCLD	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	40-99B	DIP16a
103▼	MC14099BCLDS	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	40-99B	DIP16a
104▼	MC14099BCLS	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	40-99B	DIP16a
105♦	MC14099BCP	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	40-99B	DIP16a
106▼	MC14099BCPD	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	40-99B	DIP16a
107▼	MC14099BCPDS	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	40-99B	DIP16a
108▼	MC14099BCPS	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	40-99B	DIP16a
109▼	MC14099BDW	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	40-99B	DIP16a
110♦	MC14599BAL	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	5	C	45-99	DIP18b

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

26. LATCHES - D-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[2] BITS	[3] tpd MAX (s)	[1] OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	MC14599BALD	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	5	C	45-99	DIP18b
2▼	MC14599BALDS	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	5	C	45-99	DIP18b
3▼	MC14599BALS	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	5	C	45-99	DIP18b
4♦	MC14599BCL	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	45-99	DIP18b
5▼	MC14599BCLD	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	45-99	DIP18b
6▼	MC14599BCLDS	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	45-99	DIP18b
7▼	MC14599BCLS	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	45-99	DIP18b
8	MC14599BCP	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	45-99	DL ☑
9▼	MC14599BCPD	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	45-99	DL ☑
10▼	MC14599BCPDS	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	45-99	DL ☑
11▼	MC14599BCPS	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	45-99	DL ☑
12▼	MC14599BDW	CMS	8	100n		11	4.0	3.0m	1.5	0	15	9.0mQ	addrsble	4	8	45-99	DL ☑
13♦	HEF40373BP	CMS	8	120n	TS	7.0	3.0	1u	1.0	0	10	500m	Transparent	4	8	40-373	DIP20a
14♦	HEF40373BT	CMS	8	120n	TS	7.0	3.0	1u	1.0	0	10	400m	Transparent	4	8	40-373	FP169
15♦	CD4099BCJ	CMS	8	150n		11	4.0	3.0m	1.5	0	15	1.2mQ	Addressable	4	8	40-99B	DIP16a
16♦	CD4099BCN	CMS	8	150n		11	4.0	3.0m	1.5	0	15	1.2mQ	Addressable	4	8	40-99B	DIP16a
17♦	CD4099BD	CMS	8	150n		7.0	3.0	1.3m	0.5	0	20	500m	Addressable	5	C	40-99B	MO001AE
18♦	CD4099BE	CMS	8	150n		7.0	3.0	1.3m	0.5	0	20	500m	Addressable	4	8	40-99B	MO001AC
19♦	CD4099BF	CMS	8	150n		7.0	3.0	1.3m	0.5	0	20	500m	Addressable	5	C	40-99B	MO001AC
20♦	CD4099BMJ	CMS	8	150n		11	4.0	3.4m	1.5	0	15	300uQ	Addressable	5	C	40-99B	DIP16a
21♦	CD4099BMW	CMS	8	150n		11	4.0	3.4m	1.5	0	15	300uQ	Addressable	5	C	40-99B	FP88c
22♦	CD4724BCJ	CMS	8	150n		11	4.0	3.0m	1.5	0	15	1.2mQ	Addressable	4	8	47-24B	DIP16a
23♦	CD4724BCN	CMS	8	150n		11	4.0	3.0m	1.5	0	15	1.2mQ	Addressable	4	8	47-24B	DIP16a
24♦	CD4724BD	CMS	8	150n		7.0	3.0	1.3m	0.5	0	20	500m	Addressable	5	C	47-24B	MO001AE
25♦	CD4724BE	CMS	8	150n		7.0	3.0	1.3m	0.5	0	20	500m	Addressable	4	8	47-24B	MO001AC
26♦	CD4724BF	CMS	8	150n		7.0	3.0	1.3m	0.5	0	20	500m	Addressable	5	C	47-24B	MO001AG
27♦	CD4724BMJ	CMS	8	150n		11	4.0	3.4m	1.5	0	15	300uQ	Addressable	5	C	47-24B	DIP16a
28♦	CD4724BMW	CMS	8	150n		11	4.0	3.4m	1.5	0	15	300uQ	Addressable	5	C	47-24B	FP88c
29♦	MC14597BAL	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	W/cntr	5	C	45-97	DIP16a
30▼	MC14597BALD	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	W/cntr	5	C	45-97	DIP16a
31▼	MC14597BALDS	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	W/cntr	5	C	45-97	DIP16a
32▼	MC14597BALS	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	W/cntr	5	C	45-97	DIP16a
33♦	MC14597BCL	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	W/cntr	4	8	45-97	DIP16a
34▼	MC14597BCLD	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	W/cntr	4	8	45-97	DIP16a
35▼	MC14597BCLDS	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	W/cntr	4	8	45-97	DIP16a
36▼	MC14597BCLS	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	W/cntr	4	8	45-97	DIP16a
37♦	MC14597BCP	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	W/cntr	4	8	45-97	DIP16a
38▼	MC14597BCPD	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	W/cntr	4	8	45-97	DIP16a
39▼	MC14597BCPDS	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	W/cntr	4	8	45-97	DIP16a
40▼	MC14597BCPS	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	W/cntr	4	8	45-97	DIP16a
41▼	MC14597BDW	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	W/cntr	4	8	45-97	DIP16a
42♦	MC14598BAL	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	Bin Addr	5	C	45-98	DIP18b
43▼	MC14598BALD	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	Bin Addr	5	C	45-98	DIP18b
44♦	MC14598BCL	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	Bin Addr	4	8	45-98	DIP18b
45▼	MC14598BCLD	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	Bin Addr	4	8	45-98	DIP18b
46	MC14598BCP	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	Bin Addr	4	8	45-98	DL ☑
47▼	MC14598BCPD	CMS	8	200n		11	4.0	12m†	1.5	0	15	9.0mQ	Bin Addr	4	8	45-98	DL ☑
48♦	TC4099BP	CMS	8	200n		14.9	.05	3.0m	1.5	0	15	300m	Addressable	4	8	40-99B	DIP16a
49♦	CD74HCT259E	CMS	8	46		2.0	0.8	20u	0.1	0	5.0	500m	Addressable	4	8	74-259	MS001a
50▼	N74F823D(A)	TTL	9		TS	2.0	0.8	48m	0.5	0	5.0		9-Bit Non Inv.	0	7	74AS823	FP170
51▼	N74F823N(A)	TTL	9		TS	2.0	0.8	48m	0.5	0	5.0		9-Bit Non Inv.	0	7	74AS823	DIP24a
52▼	N74F824D(A)	TTL	9		TS	2.0	0.8	48m	0.5	0	5.0		9-Bit Inv.	0	7	74AS824	FP170
53▼	N74F824N(A)	TTL	9		TS	2.0	0.8	48m	0.5	0	5.0		9-Bit Inv.	0	7	74AS824	DIP24a
54▼	N74F843D(A)	TTL	9		TS	2.0	0.8	48m	0.5	0	5.0		9-Bit Non Inv.	0	7	74AS843	FP170
55▼	N74F843N(A)	TTL	9		TS	2.0	0.8	48m	0.5	0	5.0		9-Bit Non Inv.	0	7	74AS843	DIP24a
56▼	N74F844D(A)	TTL	9		TS	2.0	0.8	48m	0.5	0	5.0		9-Bit Inv.	0	7	74AS844	FP170
57▼	N74F844N(A)	TTL	9		TS	2.0	0.8	48m	0.5	0	5.0		9-Bit Inv.	0	7	74AS844	DIP24a
58▼	IDT74FCT843BD	TTL	9	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Inverting	0	7	L00-138a	DIP24e
59▼	IDT74FCT843BJ	TTL	9	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Inverting	0	7	L00-138a	LC27
60▼	IDT74FCT843BL	TTL	9	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Inverting	0	7	L00-138a	LC19a
61▼	IDT74FCT843BP	TTL	9	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Inverting	0	7	L00-138a	DIP24e
62▼	IDT74FCT844BD	TTL	9	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-Inverting	0	7	L00-138	DIP24e
63▼	IDT74FCT844BJ	TTL	9	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-Inverting	0	7	L00-138	LC27
64▼	IDT74FCT844BL	TTL	9	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-Inverting	0	7	L00-138	LC19a
65▼	IDT74FCT844BP	TTL	9	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-Inverting	0	7	L00-138	DIP24e
66▼	IDT54FCT843BDB	TTL	9	7.5n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Inverting	5	C	L00-138a	DIP24e
67▼	IDT54FCT843BLB	TTL	9	7.5n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Inverting	5	C	L00-138a	LC19a
68▼	IDT54FCT844BDB	TTL	9	7.5n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Non-Inverting	5	C	L00-138	DIP24e
69▼	IDT54FCT844BLB	TTL	9	7.5n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Non-Inverting	5	C	L00-138	LC19a
70♦	54F843DM(A)	TTL	9	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-138	DIP24a
71♦	54F843L1M(A)	TTL	9	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-138	LC19a
72♦	54F843SDM(A)	TTL	9	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-138	DIP24e
73♦	74F843DC(A)	TTL	9	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-138	DIP24a
74♦	74F843L1C(A)	TTL	9	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-138	LC19a
75♦	74F843PC(A)	TTL	9	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-138	DIP24a
76♦	74F843QC(A)	TTL	9	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-138	LC27
77♦	74F843SC(A)	TTL	9	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-138	FP170
78♦	74F843SDC(A)	TTL	9	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-138	DIP24e
79♦	74F843SPC(A)	TTL	9	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-138	DIP24e
80♦	DM74AS843N(A)	TTL	9	9.0n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74AS843	DIP24a
81♦	SN54ALS843JT	TTL	9	9.0n	TS	2.0	0.8	12m	0.25	0	7.0		Transparent	5	C	74AS843	DIP24e
82▼	SN74AS843DW	TTL	9	9.0n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS843	FP170
83♦	SN74AS843FN	TTL	9	9.0n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	L00-156	LC20a
84♦	SN74AS843NT	TTL	9	9.0n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS843	DIP24e
85▼	IDT39C843D	TTL	9	9.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-inv	0	7	L00-138	DIP24e
86▼	IDT39C843J	TTL	9	9.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-inv	0	7	L00-138	LC20a
87▼	IDT39C843L	TTL	9	9.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-inv	0	7	L00-138	LC19a
88▼	IDT39C843P	TTL	9	9.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-inv	0	7	L00-138	DIP24e
89♦	DM54AS843J(A)	TTL	9	10n		2.0	0.8	32m	0.5	0	7.0		Transparent	5	C	74AS843	DIP24a
90♦	DM74AS844N(A)	TTL	9	10n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74AS844	DIP24a
91▼	IDT39C844D	TTL	9	10n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Invert. Outputs	0	7	L00-138	DIP24e
92▼	IDT39C844J	TTL	9	10n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Invert. Outputs	0	7	L00-138	LC20a
93▼	IDT39C844L	TTL	9	10n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Invert. Outputs	0	7	L00-138	LC19a
94▼	IDT39C844P	TTL	9	10n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Invert. Outputs	0	7	L00-138	DIP24e
95▼	SN74AS844DW	TTL	9	10n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS844	FP170
96♦	SN74AS844FN	TTL	9	10n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	L00-157	LC20a
97♦	SN74AS844NT	TTL	9	10n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS844	DIP24e
98♦	DM54AS844J(A)	TTL	9	11n		2.0	0.8	32m	0.5	0	7.0		Transparent	5	C	74AS844	DIP24a
99▼	IDT39C843DB	TTL	9	11n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Non-inv	5	C	L00-138	DIP24e
100▼	IDT39C843LB	TTL	9	11n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Non-inv	5	C	L00-138	LC19a
101▼	IDT39C844DB	TTL	9	12n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Invert. Outputs	5	C	L00-138	DIP24e
102▼	IDT39C844LB	TTL	9	12n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Invert. Outputs	5	C	L00-138	LC19a
103♦	V54ACT843D	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	L00-138	DIP24
104♦	V54ACT843DL	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	L00-156	LC19a
105♦	V54ACT844D	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74AS844	DIP24
106♦	V54ACT844DL	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	L00-157	LC19a
107♦	V54ACT845D	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74AS845	DIP24
108♦	V54ACT845DL	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74AS845	LC19a
109♦	V54ACT846D	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	74AS846	DIP24
110♦	V54ACT846DL	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	L00-159	LC19a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

26. LATCHES - D-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[2] BITS	[3] tpd MAX (s)	[1] OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	V74ACT843D	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-138	DIP24
2♦	V74ACT843DL	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-156	LC19a
3♦	V74ACT843P	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-138	DIP24
4♦	V74ACT843PK	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-156	LC27
5♦	V74ACT843PO	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-138	FP170
6♦	V74ACT844D	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS844	DIP24
7♦	V74ACT844DL	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-157	LC19a
8♦	V74ACT844P	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS844	DIP24
9♦	V74ACT844PK	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-157	LC27
10♦	V74ACT844PO	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS844	DIP24
11♦	V74ACT845D	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS845	DIP24
12♦	V74ACT845DL	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS845	LC19a
13♦	V74ACT845P	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS845	DIP24
14♦	V74ACT845PK	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS845	LC27
15♦	V74ACT845PO	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS845	FP170
16♦	V74ACT846D	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS846	DIP24
17♦	V74ACT846DL	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-159	LC19a
18♦	V74ACT846P	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS846	DIP24
19♦	V74ACT846PK	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-159	LC27
20♦	V74ACT846PO	CMS	9	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	74AS846	FP170
21♦	AM29843DC	TTL	9	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Non-Inverting	0	7	L00-138	DIP24e
22♦	AM29843DCB	TTL	9	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Non-Inverting	0	7	L00-138	DIP24e
23♦	AM29843LC	TTL	9	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Non-Inverting	0	7	L00-138	LC17
24♦	AM29843LCB	TTL	9	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Non-Inverting	0	7	L00-138	LC17
25♦	AM29844DC	TTL	9	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Invert. Outputs	0	7	L00-138	DIP24e
26♦	AM29844DCB	TTL	9	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Invert. Outputs	0	7	L00-138	DIP24e
27♦	AM29844LC	TTL	9	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Invert. Outputs	0	7	L00-138	LC17
28♦	AM29844LCB	TTL	9	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Invert. Outputs	0	7	L00-138	LC17
29▼	SN74ALS992DW	TTL	9	16n	TS	2.0	0.8	24m	0.5	0.0	5.0		Transparent	0	7	74ALS992	FP170
30♦	SN74ALS992FN	TTL	9	16n	TS	2.0	0.8	24m	0.5	0.0	5.0		Transparent	0	7	54ALS992	LC20a
31♦	SN74ALS992NT	TTL	9	16n	TS	2.0	0.8	24m	0.5	0.0	5.0		Transparent	0	7	74ALS992	DIP24e
32▼	SN74ALS843-1DW	TTL	9	18n	TS	2.0	0.8	48m	0.5	0.0	5.0		ICC 67mA max	0	7	74AS843N	FP170
33▼	SN74ALS843DW	TTL	9	18n	TS	2.0	0.8	24m	0.5	0.0	5.0		ICC 67mA max	0	7	74AS843N	FP170
34♦	SN74ALS843NT	TTL	9	18n	TS	2.0	0.8	24m	0.5	0.0	5.0		ICC 67mA max	0	7	74AS843	DIP24e
35♦	AM29843DM	TTL	9	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Non-Inverting	5	C	L00-138	DIP24e
36♦	AM29843DMB	TTL	9	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Non-Inverting	5	C	L00-138	DIP24e
37♦	AM29843LM	TTL	9	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Non-Inverting	5	C	L00-138	LC17
38♦	AM29843LMB	TTL	9	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Non-Inverting	5	C	L00-138	LC17
39♦	AM29844DM	TTL	9	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Invert. Outputs	5	C	L00-138	DIP24e
40♦	AM29844DMB	TTL	9	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Invert. Outputs	5	C	L00-138	DIP24e
41♦	AM29844LM	TTL	9	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Invert. Outputs	5	C	L00-138	LC17
42♦	AM29844LMB	TTL	9	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Invert. Outputs	5	C	L00-138	LC17
43▼	SN74ALS844-1DW	TTL	9	20n	TS	2.0	0.8	48m	0.5	0	5.0		ICC 72mA max	0	7	74AS844N	FP170
44▼	SN74ALS844-1NT	TTL	9	20n	TS	2.0	0.8	48m	0.5	0	5.0		ICC 72mA max	0	7	74AS844N	DIP24e
45▼	SN74ALS844DW	TTL	9	20n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 72mA max	0	7	74AS844N	FP170
46♦	SN74ALS844NT	TTL	9	20n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 72mA max	0	7	74AS844N	DIP24e
47▼	SN74ALS993DW	TTL	9	20n	TS	2.0	0.8	24m	0.5	0.0	5.0		Transparent	0	7	74ALS993	FP170
48♦	SN74ALS993FN	TTL	9	20n	TS	2.0	0.8	24m	0.5	0.0	5.0		Transparent	0	7	54ALS993	LC20a
49♦	SN74ALS993NT	TTL	9	20n	TS	2.0	0.8	24m	0.5	0.0	5.0		Transparent	0	7	74ALS993	DIP24e
50▼	N74F821D(A)	TTL	10		TS	2.0	0.8	48m	0.5	0	5.0		10-Bit Non-Inv.	0	7	74AS821	FP170
51▼	N74F821N(A)	TTL	10		TS	2.0	0.8	48m	0.5	0	5.0		10-Bit Non-Inv.	0	7	74AS821	DIP24a
52▼	N74F822D(A)	TTL	10		TS	2.0	0.8	48m	0.5	0	5.0		10-Bit Inv.	0	7	74AS822	FP170
53▼	N74F822N(A)	TTL	10		TS	2.0	0.8	48m	0.5	0	5.0		10-Bit Inv.	0	7	74AS822	DIP24a
54▼	N74F841D(A)	TTL	10		TS	2.0	0.8	48m	0.5	0	5.0		10-Bit Non-Inv.	0	7	L00-137a	FP170
55▼	N74F841N(A)	TTL	10		TS	2.0	0.8	48m	0.5	0	5.0		10-Bit Non-Inv.	0	7	L00-137	DIP24a
56▼	N74F842D(A)	TTL	10		TS	2.0	0.8	48m	0.5	0	5.0		10-Bit Inv.	0	7	74AS842	FP170
57▼	N74F842N(A)	TTL	10		TS	2.0	0.8	48m	0.5	0	5.0		10-Bit Inv.	0	7	74AS842	DIP24a
58▼	IDT74FCT841BD	TTL	10	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Inverting	0	7	L00-137a	DIP24e
59▼	IDT74FCT841BJ	TTL	10	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Inverting	0	7	L00-137a	LC27
60▼	IDT74FCT841BL	TTL	10	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Inverting	0	7	L00-137a	LC19a
61▼	IDT74FCT841BP	TTL	10	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Inverting	0	7	L00-137a	DIP24e
62▼	IDT74FCT842BD	TTL	10	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-Inverting	0	7	L00-137	DIP24e
63▼	IDT74FCT842BJ	TTL	10	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-Inverting	0	7	L00-137	LC27
64▼	IDT74FCT842BL	TTL	10	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-Inverting	0	7	L00-137	LC19a
65▼	IDT74FCT842BP	TTL	10	6.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-Inverting	0	7	L00-137	DIP24e
66▼	IDT54FCT841BDB	TTL	10	7.5n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Inverting	5	C	L00-137a	DIP24e
67▼	IDT54FCT841BLB	TTL	10	7.5n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Inverting	5	C	L00-137a	LC19a
68▼	IDT54FCT842BDB	TTL	10	7.5n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Non-Inverting	5	C	L00-137	DIP24e
69▼	IDT54FCT842BLB	TTL	10	7.5n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Non-Inverting	5	C	L00-137	LC19a
70♦	54F841DM(A)	TTL	10	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-137	DIP24a
71♦	54F841L1M(A)	TTL	10	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-137	LC19a
72♦	54F841SDM(A)	TTL	10	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			5	C	L00-137	DIP24e
73♦	74F841DC(A)	TTL	10	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-137	DIP24a
74♦	74F841L1C(A)	TTL	10	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-137	LC19a
75♦	74F841PC(A)	TTL	10	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-137	DIP24a
76♦	74F841QC(A)	TTL	10	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-137	LC27
77♦	74F841SC(A)	TTL	10	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-137	FP170
78♦	74F841SDC(A)	TTL	10	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-137	DIP24e
79♦	74F841SPC(A)	TTL	10	8.0n	TS	2.0	0.8	20m	0.5	0	7.0			0	7	L00-137	DIP24e
80♦	DM74AS841N(A)	TTL	10	9.0n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74AS841	DIP24a
81♦	DM74AS842N(A)	TTL	10	9.0n		2.0	0.8	48m	0.5	0	7.0		Transparent	0	7	74AS842	DIP24a
82▼	SN74AS841DW	TTL	10	9.0n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS841	FP170
83♦	SN74AS841FN	TTL	10	9n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	L00-137	LC20a
84♦	SN74AS841NT	TTL	10	9.0n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS841	DIP24e
85▼	SN74AS842DW	TTL	10	9.0n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS842	FP170
86♦	SN74AS842FN	TTL	10	9.0n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	L00-137a	LC20a
87♦	SN74AS842NT	TTL	10	9.0n	TS	2.0	0.8	48m	0.5	0.0	5.0		Transparent	0	7	74AS842	DIP24e
88▼	IDT39C841D	TTL	10	9.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-inv	0	7	L00-137	DIP24e
89▼	IDT39C841J	TTL	10	9.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-inv	0	7	L00-137	LC20a
90▼	IDT39C841L	TTL	10	9.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-inv	0	7	L00-137	LC19a
91▼	IDT39C841P	TTL	10	9.5n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Non-inv	0	7	L00-137	DIP24e
92♦	DM54AS841J(A)	TTL	10	10n		2.0	0.8	32m	0.5	0	7.0		Transparent	5	C	74AS841	DIP24a
93♦	DM54AS842J(A)	TTL	10	10n		2.0	0.8	32m	0.5	0	7.0		Transparent	5	C	74AS842	DIP24a
94▼	IDT39C842D	TTL	10	10n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Invert. Outputs	0	7	L00-137	DIP24e
95▼	IDT39C842J	TTL	10	10n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Invert. Outputs	0	7	L00-137	LC20a
96▼	IDT39C842L	TTL	10	10n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Invert. Outputs	0	7	L00-137	LC19a
97▼	IDT39C842P	TTL	10	10n	TS	2.0	0.8	48m	0.5	0	5.0	5.0uQ	Invert. Outputs	0	7	L00-137	DIP24e
98▼	IDT39C841DB	TTL	10	11n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Non-inv	5	C	L00-137	DIP24e
99▼	IDT39C841LB	TTL	10	11n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Non-inv	5	C	L00-137	LC19a
100▼	IDT39C842DB	TTL	10	12n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Invert. Outputs	5	C	L00-137	DIP24e
101▼	IDT39C842LB	TTL	10	12n	TS	2.0	0.8	32m	0.5	0	5.0	5.0uQ	Invert. Outputs	5	C	L00-137	LC19a
102▼	SN74ALS841-1DW	TTL	10	13n	TS	2.0	0.8	48m	0.5	0	5.0		ICC 62mA max	0	7	74AS841N	FP170
103▼	SN74ALS841-1FN	TTL	10	13n	TS	2.0	0.8	48m	0.5	0	5.0		ICC 62mA max	0	7	L00-137	LC27
104▼	SN74ALS841DW	TTL	10	13n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 62mA max	0	7	74AS841N	FP170
105♦	SN74ALS841FN	TTL	10	13n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 62mA max	0	7	L00-137	LC27
106♦	SN74ALS841NT	TTL	10	13n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 62mA max	0	7	74AS841N	DIP24e
107♦	V54ACT841D	CMS	10	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	L00-137	DIP24
108♦	V54ACT841DL	CMS	10	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	L00-137	LC19a
109♦	V54ACT842D	CMS	10	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	L00-137	DIP24
110♦	V54ACT842DL	CMS	10	14n	TS	2.0	-0.5			0	5.5		Transparent	5	C	L00-137	LC19a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

26. LATCHES - D-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS
(3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[2] BITS	[3] tpd MAX (s)	[1] OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING	
1♦	V74ACT841D	CMS	10	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-137	DIP24	
2♦	V74ACT841DL	CMS	10	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-137	LC19a	
3♦	V74ACT841P	CMS	10	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-137	DIP24	
4♦	V74ACT841PK	CMS	10	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-137	LC27	
5♦	V74ACT841PO	CMS	10	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-137	FP170	
6♦	V74ACT842D	CMS	10	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-137	DIP24	
7♦	V74ACT842DL	CMS	10	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-137	LC19a	
8♦	V74ACT842P	CMS	10	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-137	DIP24	
9♦	V74ACT842PK	CMS	10	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-137	LC27	
10♦	V74ACT842PO	CMS	10	14n	TS	2.0	-0.5			0	5.5		Transparent	4	8	L00-137	DIP24	
11♦	AM29841DC	TTL	10	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Non-Inverting	0	7	L00-137	DIP24e	
12♦	AM29841DCB	TTL	10	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Non-Inverting	0	7	L00-137	DIP24e	
13♦	AM29841LC	TTL	10	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Non-Inverting	0	7	L00-137	LC17	
14♦	AM29841LCB	TTL	10	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Non-Inverting	0	7	L00-137	LC17	
15♦	AM29842DC	TTL	10	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Invert. Outputs	0	7	L00-137	DIP24e	
16♦	AM29842DCB	TTL	10	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Invert. Outputs	0	7	L00-137	DIP24e	
17♦	AM29842LC	TTL	10	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Invert. Outputs	0	7	L00-137	LC17	
18♦	AM29842LCB	TTL	10	16n	TS	2.0	0.8	48m	0.5	0.5	7.0		Invert. Outputs	0	7	L00-137	LC17	
19▼	SN74ALS842-1DW	TTL	10	18n	TS	2.0	0.8	48m	0.5	0	5.0		ICC 74mA max	0	7	74AS842	FP170	
20▼	SN74ALS842-1FN	TTL	10	18n	TS	2.0	0.8	48m	0.5	0	5.0		ICC 74mA max	0	7	L00-137a	LC27	
21▼	SN74ALS842DW	TTL	10	18n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 74mA max	0	7	74AS842	FP170	
22♦	SN74ALS842FN	TTL	10	18n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 74mA max	0	7	L00-137a	LC27	
23♦	SN74ALS842NT	TTL	10	18n	TS	2.0	0.8	24m	0.5	0	5.0		ICC 74mA max	0	7	74AS842	DIP24e	
24♦	SN74ALS994NT	TTL	10	18n	TS	2.0	0.8	24m	0.5	0.0	5.0		Transparent	0	7	74ALS994	DIP24e	
25♦	AM29841DM	TTL	10	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Non-Inverting	5	C	L00-137	DIP24e	
26♦	AM29841DMB	TTL	10	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Non-Inverting	5	C	L00-137	DIP24e	
27♦	AM29841LM	TTL	10	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Non-Inverting	5	C	L00-137	LC17	
28♦	AM29841LMB	TTL	10	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Non-Inverting	5	C	L00-137	LC17	
29♦	AM29842DM	TTL	10	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Invert. Outputs	5	C	L00-137	DIP24e	
30♦	AM29842DMB	TTL	10	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Invert. Outputs	5	C	L00-137	DIP24e	
31♦	AM29842LM	TTL	10	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Invert. Outputs	5	C	L00-137	LC17	
32♦	AM29842LMB	TTL	10	20n	TS	2.0	0.8	32m	0.5	0.5	7.0		Invert. Outputs	5	C	L00-137	LC17	
33♦	SN74ALS995NT	TTL	10	20n	TS	2.0	0.8	24m	0.5	0.0	5.0		Transparent	0	7	74ALS995	DIP24e	

LATCH, RS

37♦	M54HC279F1(A)	CMS		26n		3.15	1.35	20u	0.1	0	7.0	500m	NAND Logic	5	C	74-279	DIP16b	
38▼	TC74HC279F(A)	CMS	1	33n		3.15	1.35	4.0m	0.33	0	5.0	180m	NAND Logic	4	8	74-279	FP167	
39▼	TC74HC279P(A)	CMS	1	33n	TP	3.15	1.35	4.0m	0.33	0	5.0	500m	NAND Logic	4	8	74-279	DIP16a	
40♦	M4043BP	CMS	4			11	4.0	2.4m	1.5	0	18	500m	NOR Logic	4	8	40-43B	DIP16b	
41♦	M4044BP	CMS	4			11.0	4.0	2.4m	1.5	0	18	0.5	NAND Logic	4	8	40-44B	DIP16b	
42♦	SN54279J	TTL	4	22n		2.0	0.8	16m	0.4	0	7.0	150m		5	C	74-279N	DIP16a	
43♦	SN74279N	TTL	4	22n		2.0	0.8	16m	0.4	0	7.0	150m		0	7	74-279N	DIP16a	
44♦	54LS279DM	TTL	4	27n		2.0	0.7	4.0m	0.4	0	5.0	35m		5	C	74-279N	DIP16a	
45♦	54LS279FM	TTL	4	27n		2.0	0.7	4.0m	0.4	0	5.0	35m		5	C	54-279W	FP103	
46♦	74LS279DC	TTL	4	27n		2.0	0.8	8.0m	0.5	0	5.0	35m		0	7	74-279N	DIP16a	
47♦	74LS279PC	TTL	4	27n		2.0	0.8	8.0m	0.5	0	5.0	35m		0	7	74-279N	DIP16	☑
48♦	74279DC	TTL	4	27n		2.0	0.8			0	5.0	150m	Compl. Outputs	0	7	74-279N	DIP16a	
49♦	74279PC	TTL	4	27n		2.0	0.8			0	5.0	150m	Compl. Outputs	0	7	74-279N	DIP16	☑
50♦	DN74LS279P2	TTL	4	27n		2.0	0.8	4.0m	0.4	0.5	7.0	400m	NAND Logic	2	7	74-279	DIP16a	
51♦	DN74LS279P5	TTL	4	27n		2.0	0.8	4.0m	0.4	0.5	7.0	400m	NAND Logic	2	7	74-279	FP178	
52▼	HD74LS279G	TTL	4	27n		2.0	0.8	8.0m	0.5	0	5.0	400m		2	7	74-279N	DIP16a	
53♦	HD74LS279P	TTL	4	27n		2.0	0.8	8.0m	0.5	0	5.0	400m		2	7	74-279N	DIP16a	
54♦	M74LS279P	TTL	4	27n		2.0	0.8	8.0m	0.5	0.5	7.0	19m†	NAND Logic	2	7	74-279N	DIP16b	
55♦	N74LS279F	TTL	4	27n		2.0	0.8	8.0m	0.5	0	5.0	35m		0	7	74-279N	DIP16b	
56♦	N74LS279N	TTL	4	27n		2.0	0.8	8.0m	0.5	0	5.0	35m		0	7	74-279N	DIP16a	
57♦	N74279D	TTL	4	27n		2.0	0.8	16m	0.4	0.5	7.0	150m	NAND Logic	0	7	74-279N	FP148	
58♦	N74279F	TTL	4	27n		2.0	0.8	16m	0.4	0	5.0	150m		0	7	74-279N	DIP16b	
59♦	N74279N	TTL	4	27n		2.0	0.8	16m	0.4	0.5	7.0	150m	NAND Logic	0	7	74-279N	DIP16a	
60♦	S54LS279F	TTL	4	27n		2.0	0.7	4.0m	0.4	0	5.0	35m		5	C	74-279N	DIP16b	
61♦	S54LS279W	TTL	4	27n		2.0	0.7	4.0m	0.4	0	5.0	35m		5	C	54-279W	FP47g	
62♦	S54279F	TTL	4	27n		2.0	0.8	16m	0.4	0.5	7.0	150m	NAND Logic	5	C	74-279N	DIP16b	
63♦	S54279W	TTL	4	27n		2.0	0.8	16m	0.4	0.5	7.0	150m	NAND Logic	5	C	54-279W	FP154	
64♦	SN54LS279AJ	TTL	4	27n		2.0	0.7	4.0m	0.4	0	7.0		NAND Logic	5	C	74-279	DIP16a	
65♦	SN54LS279J	TTL	4	27n		2.0	0.7	4.0m	0.4	0	5.0			5	C	74-279N	DIP16a	
66▼	SN54LS279N	TTL	4	27n		2.0	0.7	4.0m	0.4	0	5.0			5	C	74-279N	DIP16a	
67♦	SN74LS279AD	TTL	4	27n		2.0	0.8	8.0m	0.5	0	7.0		NAND Logic	0	7	74-279	FP148	
68♦	SN74LS279AN	TTL	4	27n		2.0	0.8	8.0m	0.5	0	7.0		NAND Logic	0	7	74-279	DIP16a	
69♦	SN74LS279J	TTL	4	27n		2.0	0.8	8.0m	0.5	0	5.0			0	7	74-279N	DIP16a	
70♦	SN74LS279N	TTL	4	27n		2.0	0.8	8.0m	0.5	0	5.0			0	7	74-279N	DIP16a	
71♦	M74HC279B1(A)	CMS	4	32n		3.15	1.35	20u	0.1	0	7.0	500m	NAND Logic	4	8	74-279	DIP16a	
72♦	M74HC279C1(A)	CMS	4	32n		3.15	1.35	20u	0.1	0	7.0	500m	NAND Logic	4	8	L00-167	LC33	
73♦	M74HC279F1(A)	CMS	4	32n		3.15	1.35	20u	0.1	0	7.0	500m	NAND Logic	4	8	74-279	DIP16b	
74♦	DM54LS279J	ITL	4	33n		2.0	0.7	4.0m	0.4		5.0		NAND Logic	5	C	54-279	DIP16b	
75♦	DM74LS279N	ITL	4	33n		2.0	0.8	8.0m	0.5		5.0		NAND Logic	0	7	74-279	DIP16a	
76♦	HEF4043	CMS	4	50n	TS	11	4.0	3.0m	1.5	0	15	400m	NOR Logic	4	8	40-43B	DL	☑
77♦	HEF4043BPN	CMS	4	50n	TS	11.0	4.0	3.0m	1.5	0	15	400m	NOR Logic	4	8	40-43B	DIP16b	
78♦	HEF4043BTD	CMS	4	50n	TS	11.0	4.0	3.0m	1.5	0	15	200m	NOR Logic	4	8	40-43B	FP148	
79♦	HEF4043P	CMS	4	50n	TS	7.0	3.0	2.0m	0.5	0	10	200uQ		4	8	40-43B	DIP16b	
80♦	HEF4044P	CMS	4	50n	TS	7.0	3.0	2.0m	0.5	0	10	200uQ		4	8	40-44B	DIP16b	
81♦	4044BDC	CMS	4	52n	TS	11	4.0	3.0m	1.5	0	15	9.0mQ		4	8	40-44B	DIP16a	
82♦	4044BDM	CMS	4	52n	TS	11	4.0	3.4m	1.5	0	15	9.0mQ		5	C	40-44B	DIP16a	
83♦	4044BFC	CMS	4	52n	TS	11	4.0	3.0m	1.5	0	15	9.0mQ		4	8	40-44B	FP103	
84♦	4044BFM	CMS	4	52n	TS	11	4.0	3.4m	1.5	0	15	9.0mQ		5	C	40-44B	FP103	
85♦	4044BPC	CMS	4	52n	TS	11	4.0	3.0m	1.5	0	15	9.0mQ		4	8	40-44B	None	
86♦	4043BDC	CMS	4	56n	TS	11	4.0	3.0m	1.5	0	15	9.0mQ		4	8	40-43B	DIP16a	
87♦	4043BDM	CMS	4	56n	TS	11	4.0	3.4m	1.5	0	15	9.0mQ		5	C	40-43B	DIP16a	
88♦	4043BFC	CMS	4	56n	TS	11	4.0	3.0m	1.5	0	15	9.0mQ		4	8	40-43B	FP103	
89♦	4043BFM	CMS	4	56n	TS	11	4.0	3.4m	1.5	0	15	9.0mQ		5	C	40-43B	FP103	
90♦	4043BPC	CMS	4	56n	TS	11	4.0	3.0m	1.5	0	15	9.0mQ		4	8	40-43B	None	
91♦	HEF4044	CMS	4	60n	TS	11	4.0	3.0m	1.5	0	15	400m	NAND Logic	4	8	40-44B	DL	☑
92♦	HEF4044BPN	CMS	4	60n	TS	11.0	4.0	3.0m	1.5	0	15	400m	NAND Logic	4	8	40-44B	DIP16b	
93♦	HEF4044BTD	CMS	4	60n	TS	11.0	4.0	3.0m	1.5	0	15	200m	NAND Logic	4	8	40-44B	FP148	
94♦	HEF4043BD	CMS	4	70n	TS	7.0	3.0	1u	1.0	0	10.0	500m	Common enable	4	8	40-43B	DIP16b	
95♦	HEF4043BP	CMS	4	70n	TS	7.0	3.0	1u	1.0	0	10.0	500m	Common enable.	4	8	40-43B	DIP16b	
96♦	HEF4043BT	CMS	4	70n	TS	7.0	3.0	1u	1.0	0	10.0	400m	Common Enable	4	8	40-43B	FP148	
97♦	HEF4044BD	CMS	4	80n	TS	7.0	3.0	1u	1.0	0	10.0	500m	Common Enable	4	8	40-44B	DIP16b	
98♦	HEF4044BP	CMS	4	80n	TS	7.0	3.0	1u	1.0	0	10.0	500m	Common Enable	4	8	40-44B	DIP16b	
99♦	HEF4044BT	CMS	4	80n	TS	7.0	3.0	1u	1.0	0	10.0	400m	Common Enable	4	8	40-44B	FP148	
100♦	883C4043B	CMS	4	100n		8.2	6.7	3.4m	1.5	0	15	300m	NOR Logic	5	C	40-43B	MO001AG	
101♦	883C4044B	CMS	4	100n		8.2	6.7	3.4m	1.5	0	15	300m	NAND Logic	5	C	40-44B	MO001AG	
102♦	BCL4043B	CMS	4	100n		8.2	6.7	3.4m	1.5	0	15	300m	NOR Logic	5	C	40-43B	MO001AG	
103♦	BCL4044B	CMS	4	100n		8.2	6.7	3.4m	1.5	0	15	300m	NAND Logic	5	C	40-44B	MO001AG	
104♦	HCC4043BD	CMS	4	100n		11	4.0	3.4m	1.5	0	15	60uQ	NOR Logic	5	C	40-43B	DIP16a	
105♦	HCC4043BF	CMS	4	100n		11	4.0	3.4m	1.5	0	15	60uQ	NOR Logic	5	C	40-43B	DIP16a	
106♦	HCC4043BK	CMS	4	100n		11	4.0	3.4m	1.5	0	15	60uQ	NOR Logic	5	C	40-43B	FP131	
107♦	HCC4044BD	CMS	4	100n	TS	11	4.0	3.4m	1.5	0	15	60uQ	NAND Logic	5	C	40-44B	DIP16a	
108♦	HCC4044BF	CMS	4	100n	TS	11	4.0	3.4m	1.5	0	15	60uQ	NAND Logic	5	C	40-44B	DIP16a	
109♦	HCC4044BK	CMS	4	100n	TS	11	4.0	3.4m	1.5	0	15	60uQ	NAND Logic	5	C	40-44B	FP131	
110♦	HCF4043BE	CMS	4	100n	TS	11	4.0	3.4m	1.5	0	15	60uQ	NOR Logic	4	8	40-43B	DIP16a	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

26. LATCHES - RS-type (Cont'd)

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	[2] BITS	[3] tpd MAX (s)	[1] OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	+	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1♦	HCF4043BF	CMS	4	100n	TS	11	4.0	3.4m	1.5	0	15	60uQ	NOR Logic	4	8	40-43B	DIP16a
2♦	HCF4044BE	CMS	4	100n	TS	11	4.0	3.4m	1.5	0	15	60uQ	NAND Logic	4	8	40-44B	DIP16a
3♦	HCF4044BF	CMS	4	100n	TS	11	4.0	3.4m	1.5	0	15	60uQ	NAND Logic	4	8	40-44B	DIP16a
4♦	MC14043BAL	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	60uQ	NOR Logic	5	C	40-43B	DIP16b
5▼	MC14043BALD	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	60uQ	NOR Logic	5	C	40-43B	DIP16b
6▼	MC14043BALDS	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	60uQ	NOR Logic	5	C	40-43B	DIP16b
7▼	MC14043BALS	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	60uQ	NOR Logic	5	C	40-43B	DIP16b
8♦	MC14043BCL	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NOR Logic	4	8	40-43B	DIP16b
9▼	MC14043BCLD	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NOR Logic	4	8	40-43B	DIP16b
10▼	MC14043BCLDS	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NOR Logic	4	8	40-43B	DIP16b
11▼	MC14043BCLS	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NOR Logic	4	8	40-43B	DIP16b
12♦	MC14043BCP	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NOR Logic	4	8	40-43B	DIP16a
13▼	MC14043BCPD	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NOR Logic	4	8	40-43B	DIP16a
14▼	MC14043BCPDS	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NOR Logic	4	8	40-43B	DIP16a
15▼	MC14043BCPS	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NOR Logic	4	8	40-43B	DIP16a
16▼	MC14043BD	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NOR Logic	4	8	40-43B	DIP16a
17♦	MC14044BAL	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	60uQ	NAND Logic	5	C	40-44B	DIP16b
18▼	MC14044BALD	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	60uQ	NAND Logic	5	C	40-44B	DIP16b
19▼	MC14044BALDS	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	60uQ	NAND Logic	5	C	40-44B	DIP16b
20▼	MC14044BALS	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	60uQ	NAND Logic	5	C	40-44B	DIP16b
21♦	MC14044BCL	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NAND Logic	4	8	40-44B	DIP16b
22▼	MC14044BCLD	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NAND Logic	4	8	40-44B	DIP16b
23▼	MC14044BCLDS	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NAND Logic	4	8	40-44B	DIP16b
24▼	MC14044BCLS	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NAND Logic	4	8	40-44B	DIP16b
25♦	MC14044BCP	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NAND Logic	4	8	40-44B	DIP16a
26▼	MC14044BCPD	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NAND Logic	4	8	40-44B	DIP16a
27▼	MC14044BCPDS	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NAND Logic	4	8	40-44B	DIP16a
28▼	MC14044BCPS	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NAND Logic	4	8	40-44B	DIP16a
29▼	MC14044BD	CMS	4	120n	TS	11.0	4.0	3.0m	1.5	0	15	240uQ	NAND Logic	4	8	40-44B	DIP16a
30♦	CD4043BD	CMS	4	140n	TS	7.0	3.0	1.3m	0.5	0	20	500m	NOR Logic	5	C	40-43B	MO001AE
31♦	CD4043BE	CMS	4	140n	TS	7.0	3.0	1.3m	0.5	0	20	500m	NOR Logic	4	8	40-43B	MO001AC
32♦	CD4043BF	CMS	4	140n	TS	7.0	3.0	1.3m	0.5	0	20	500m	NOR Logic	5	C	40-43B	MO001AC
33♦	CD4044BD	CMS	4	140n	TS	7.0	3.0	1.3m	0.5	0	20	500m	NAND Logic	5	C	40-44B	MO001AE
34♦	CD4044BE	CMS	4	140n	TS	7.0	3.0	1.3m	0.5	0	20	500m	NAND Logic	4	8	40-44B	MO001AC
35♦	CD4044BF	CMS	4	140n	TS	7.0	3.0	1.3m	0.5	0	20	500m	NAND Logic	5	C	40-44B	MO001AC
36♦	SCL4043B	CMS	4	150n	TS	3.5Δ	1.0*			0	18	300uQ	NOR Logic	5	C	40-43B	DL ☑
37♦	SCL4044B	CMS	4	150n	TS	3.5Δ	1.0*			0	18	300uQ	NAND Logic	5	C	40-44B	DL ☑
38♦	CD4043AD	CMS	4	175n	TS	9.5	0.05C	500u	0.5	0	15	500m	NOR Logic	5	C	40-43B	MO001AE
39♦	CD4043AF	CMS	4	175n	TS	9.95	0.05C	500u	0.5	0	15	500m	NOR Logic	5	C	40-43B	MO001AC
40♦	CD4043MJ	CMS	4	175n	TS	9.99	.01	500u	0.5	0	10	20uQ	NOR Logic	5	C	40-43B	DIP16a
41♦	CD4043MW	CMS	4	175n	TS	9.99	.01	500u	0.5	0	10	20uQ	NOR Logic	5	C	40-43B	FP88c
42♦	CD4044AD	CMS	4	175n	TS	9.95	0.05C	500u	0.5	0	15	500m	NAND Logic	5	C	40-44B	MO001AE
43♦	CD4044AF	CMS	4	175n	TS	9.95	0.05C	500u	0.5	0	15	500m	NAND Logic	5	C	40-44B	MO001AC
44♦	CD4044MJ	CMS	4	175n	TS	9.99	.01	500u	0.5	0	10	20uQ	NAND Logic	5	C	40-44B	DIP16a
45♦	CD4044MW	CMS	4	175n	TS	9.99	.01	500u	0.5	0	10	20uQ	NAND Logic	5	C	40-44B	FP88c
46♦	HBC4043AD	CMS	4	175n	TS	9.95	.05	500u	0.5	0	10	20uQ	NOR Logic	5	C	40-43B	DIP16a
47♦	HBC4043AF	CMS	4	175n	TS	9.95	.05	500u	0.5	0	10	20uQ	NOR Logic	5	C	40-43B	DIP16a
48♦	HBC4043AK	CMS	4	175n	TS	9.95	.05	500u	0.5	0	10	20uQ	NOR Logic	5	C	40-43B	FP131
49♦	HBC4044AD	CMS	4	175n	TS	9.95	.05	500u	0.5	0	10	20uQ	NAND Logic	5	C	40-44B	DIP16a
50♦	HBC4044AF	CMS	4	175n	TS	9.95	.05	500u	0.5	0	10	20uQ	NAND Logic	5	C	40-44B	DIP16a
51♦	HBC4044AK	CMS	4	175n	TS	9.95	.05	500u	0.5	0	10	20uQ	NAND Logic	5	C	40-44B	FP131
52♦	TC4043BP	CMS	4	180n	TS	14.9	.05	3.0m	1.5	0	15	300m	NOR Logic	4	8	40-43B	DIP16a
53♦	TC4044BP	CMS	4	180n	TS	14.9	.05	3.0m	1.5	0	15	300m	NAND Logic	4	8	40-44B	DIP16a
54♦	CD4043AE	CMS	4	200n	TS	9.5	0.05C	250u	0.5	0	15	500m	NOR Logic	4	8	40-43B	MO001AC
55♦	CD4043CJ	CMS	4	200n	TS	9.99	.01	250u	0.5	0	10	200uQ	NOR Logic	4	8	40-43B	DIP16a
56♦	CD4043CN	CMS	4	200n	TS	9.99	.01	250u	0.5	0	10	200uQ	NOR Logic	4	8	40-43B	DIP16a
57♦	CD4044AE	CMS	4	200n	TS	9.95	0.05C	250u	0.5	0	15	500m	NAND Logic	4	8	40-44B	MO001AC
58♦	CD4044CJ	CMS	4	200n	TS	9.99	.01	250u	0.5	0	10	200uQ	NAND Logic	4	8	40-44B	DIP16a
59♦	CD4044CN	CMS	4	200n	TS	9.99	.01	250u	0.5	0	10	200uQ	NAND Logic	4	8	40-44B	DIP16a
60♦	HBF4043AE	CMS	4	200n		9.95	.05	250u	0.5	0	10	200uQ	NOR Logic	4	8	40-43B	DIP16a
61♦	HBF4043AF	CMS	4	200n		9.95	.05	250u	0.5	0	10	200uQ	NOR Logic	4	8	40-43B	DIP16a
62♦	HBF4044AE	CMS	4	200n	TS	9.95	.05	250u	0.5	0	10	200uQ	NAND Logic	4	8	40-44B	DIP16a
63♦	HBF4044AF	CMS	4	200n	TS	9.95	.05	250u	0.5	0	10	200uQ	NAND Logic	4	8	40-44B	DIP16a
64♦	MSM4043	CMS	4	200n	TS	7.2	2.0	3.0m	0.5	0	10	2.8mQ	NOR Logic	2	7	40-43B	DIP16a
65♦	MSM4044	CMS	4	200n	TS	7.2	2.0	3.0m	0.5	0	10	2.8mQ	NAND Logic	2	7	40-44B	DIP16a
66♦	MSM4043RS	CMS	4	400n		3.6	1.0			0.3	16	200m	NOR Logic	4	8	40-43B	DIP16 ☑
67♦	MSM4044RS	CMS	4	400n		3.6	1.0			0.3	16	200m	NAND Logic	4	8	40-44B	DIP16 ☑
68♦	DM7553J	TTL	8	38n		2.0	0.8	16m	0.4	0	5.0	330m†		5	C	75-53N	DIP16a
69	DM7553W	TTL	8	38n		2.0	0.8	16m	0.4	0	5.0	330m†		5	C	75-53N	FP88a
70♦	DM8553J	TTL	8	38n		2.0	0.8	16m	0.4	0	5.0	330m†		0	7	75-53N	DIP16a
71♦	DM8553N	TTL	8	38n		2.0	0.8	16m	0.4	0	5.0	330m†		0	7	75-53N	DIP16a
72	DM8553W	TTL	8	38n		2.0	0.8	16m	0.4	0	5.0	330m†		0	7	75-53N	FP88a
73♦	883C4099B	CMS	8	100n		8.2	6.7	3.4m	1.5	0	15	300m	ADDR	5	C	40-99B	MO001AG
74♦	BCL4099B	CMS	8	100n		8.2	6.7	3.4m	1.5	0	15	300m	ADDR	5	C	40-99B	MO001AG
75♦	SCL4099B	CMS	8	200n		3.5Δ	1.0*	3.4m	1.5	0	18	300m	ADDR	5	C	40-99B	MO001AG

If this is February 1988 or later, it is time to order your next issue of DIGITAL ICs. references parts from 230 vendors.

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

27. SPECIAL DEVICES - Error Detection/Correction

IN ORDER OF:(1)TYPE CODE(2)TECHNOLOGY (3)TYPE NUMBER

LINE No.	[3] TYPE NUMBER	[1] TYPE CODE	[2] TECH	f MAX (Hz)	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	GENERAL DESCRIPTION	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
ERROR DETECTION/CORRECTION														
4▼	673480J	1	BIP	15M	2.0	0.8		7.0		0	7	Single Burst Error Recovery IC	KO3-38	DIP24 ☑
5▼	MC74F2960-1J(A)	1	BIP		2.0T	0.8	0	5.0		0	7	Error Detection and Correction	74F2960	DIP48a
6▼	MC74F2960J(A)	1	BIP		2.0T	0.8	0	5.0		0	7	Error Detection and Correction	74F2960	DIP48a
7♦	MC8500L	1	BIP	3.0M	2.4	0.5C	0	5.0	365m	0	7	Error Pattern Register	K03-22	DIP24a
8♦	MC8500P	1	BIP	3.0M	2.4	0.5	0	5.0	365m	0	7	Error Pattern Register	K03-22	DIP24e
9♦	MC8501L	1	BIP	3.0M	2.4	0.5	0	5.0	320m	0	7	Error Pattern Register	K03-23	DIP16a
10♦	MC8501P	1	BIP	3.0M	2.4	0.5C	0	5.0	320m	0	7	Error Pattern Register	K03-23	DIP16b
11♦	MC8502L	1	BIP	3.0M	2.4	0.5	0	5.0	350m	0	7	Dual Mode Register	K03-21	DIP24a
12▼	N9401F(1)	1	BIP	12M	2.0	0.8	0	5.0	577m†	0	7	CRC Generator Checker	K03-20a	DIP14b
13▼	N9401N	1	BIP	12M	2.0	0.8	0	5.0	577m†	0	7	CRC Generator Checker	K03-20a	DIP14b
14♦	24-12-03	3	CMS		2.0	0.8		5.0	100m	0	7	Detect and correct errors	K07-47	DIP24a
15♦	MC10163L	1	ECL		-.96	-1.6C	8.0	0	520m†	3	8	Mem Sys Err Det/Corr Ckt	K03-2	DIP16a
16▼	MC10163LD	1	ECL		-.96	-1.6C	8.0	0	520m†	3	8	Mem Sys Err Det/Corr Ckt	K03-2	DIP16a
17▼	MC10163LDS	1	ECL		-.96	-1.6C	8.0	0	520m†	3	8	Mem Sys Err Det/Corr Ckt	K03-2	DIP16a
18♦	MC10163P	1	ECL		-.96	-1.6C	8.0	0	520m†	3	8	Mem Sys Err Det/Corr Ckt	K03-2	DIP16b
19▼	MC10163PD	1	ECL		-.96	-1.6C	8.0	0	520m†	3	8	Mem Sys Err Det/Corr Ckt	K03-2	DIP16b
20▼	MC10163PDS	1	ECL		-.96	-1.6C	8.0	0	520m†	3	8	Mem Sys Err Det/Corr Ckt	K03-2	DIP16b
21♦	MC10193L	1	ECL		-.96	-1.6C	8.0	0	520m†	3	8	Mem Sys Err Det/Corr Ckt	K03-3	DIP16a
22▼	MC10193LD	1	ECL		-.96	-1.6C	8.0	0	520m†	3	8	Mem Sys Err Det/Corr Ckt	K03-3	DIP16a
23▼	MC10193LDS	1	ECL		-.96	-1.6C	8.0	0	520m†	3	8	Mem Sys Err Det/Corr Ckt	K03-3	DIP16a
24♦	MC10193P	1	ECL		-.96	-1.6C	8.0	0	520m†	3	8	Mem Sys Err Det/Corr Ckt	K03-3	DIP16b
25▼	MC10193PD	1	ECL		-.96	-1.6C	8.0	0	520m†	3	8	Mem Sys Err Det/Corr Ckt	K03-3	DIP16b
26▼	MC10193PDS	1	ECL		-.96	-1.6C	8.0	0	520m†	3	8	Mem Sys Err Det/Corr Ckt	K03-3	DIP16b
27♦	MC8502P	1	MON		2.4Δ	0.5C	0	7.0	350m†	0	7	Error Det/Corr Ckt	K03-21	DIP24a
28	MC10563F	1	MON		-.93	-1.6C	5.2	0	650m	5	C	Mem Sys Err Det/Corr Ckt	K03-2	FP85
29♦	MC10563L	1	MON		-.93	-1.6C	5.2	0	650m	5	C	Mem Sys Err Det/Corr Ckt	K03-2	DIP16a
30	MC10593F	1	MON		-.93	-1.6C	5.2	0	650m	5	C	Mem Sys Err Det/Corr Ckt	K03-3	FP85
31♦	MC10593L	1	MON		-.93	-1.6C	5.2	0	650m	5	C	Mem Sys Err Det/Corr Ckt	K03-3	DIP16a
32▼	N8X01A	1	MON	12M	2.0	0.8	0	5.0	577m†	0	7	CRC Generator Checker	K03-20	DIP14b
33▼	N8X01AF	1	MON	12M	2.0	0.8	0	5.0	577m†	0	7	CRC Generator Checker	K03-20	DIP14b
34▼	N8X01AN	1	MON	12M	2.0	0.8	0	5.0	577m†	0	7	CRC Generator Checker	K03-20	DIP14b
35▼	S9401F	1	MON	12M	2.0	0.8	0	5.0	577m	5	C	CRC Generator Checker	K03-20a	DL ☑
36♦	54F418DM(A)	1	TTL		2.0	0.8	0	7.0		5	C	32-Bit Mem Error Detection	K03-26	DIP48 ☑
37	54F418L1M(A)	1	TTL		2.0	0.8	0	7.0		5	C	32-Bit Mem Error Detection	K03-25	LC29
38♦	54F420DM(A)	1	TTL		2.0	0.8	0	7.0		5	C	Par Check Bit/Syn Bit Gen	K03-28	DIP48 ☑
39	54F420L1M(A)	1	TTL		2.0	0.8	0	7.0		5	C	Par Check Bit/Syn Bit Gen	K03-27	LC29
40♦	54F630DM(A)	1	TTL		2.0	0.8	0	7.0		5	C	16-Bit EDAC	74LS630	DIP28a
41	54F630L1M(A)	1	TTL		2.0	0.8	0	7.0		5	C	16-Bit EDAC	K03-29	LC19a
42	54F632L1M	1	TTL		2.0	0.8	0	7.0		5	C	32-Bit Parallel EDAC	K03-30	LC29
43♦	74F418DC(A)	1	TTL		2.0	0.8	0	7.0		0	7	32-Bit Mem Error Detection	K03-26	DIP48 ☑
44	74F418L1C(A)	1	TTL		2.0	0.8	0	7.0		0	7	32-Bit Mem Error Detection	K03-25	LC29
45♦	74F418PC(A)	1	TTL		2.0	0.8	0	7.0		0	7	32-Bit Mem Error Detection	K03-26	DIP48 ☑
46	74F418QC(A)	1	TTL		2.0	0.8	0	7.0		0	7	32-Bit Mem Error Detection	K03-25	LC29
47♦	74F418SC(A)	1	TTL		2.0	0.8	0	7.0		0	7	32-Bit Mem Error Detection	K03-26	DIP48 ☑
48♦	74F420DC(A)	1	TTL		2.0	0.8	0	7.0		0	7	Par Check Bit/Syn Bit Gen	K03-28	DIP48 ☑
49	74F420L1C(A)	1	TTL		2.0	0.8	0	7.0		0	7	Par Check Bit/Syn Bit Gen	K03-27	LC29
50♦	74F420PC(A)	1	TTL		2.0	0.8	0	7.0		0	7	Par Check Bit/Syn Bit Gen	K03-28	DIP48 ☑
51	74F420QC(A)	1	TTL		2.0	0.8	0	7.0		0	7	Par Check Bit/Syn Bit Gen	K03-27	LC29
52♦	74F420SC(A)	1	TTL		2.0	0.8	0	7.0		0	7	Par Check Bit/Syn Bit Gen	K03-28	DIP48 ☑
53♦	74F630DC(A)	1	TTL		2.0	0.8	0	7.0		0	7	16-Bit EDAC	74LS630	DIP28a
54	74F630L1C(A)	1	TTL		2.0	0.8	0	7.0		0	7	16-Bit EDAC	K03-29	LC19a
55♦	74F630PC(A)	1	TTL		2.0	0.8	0	7.0		0	7	16-Bit EDAC	74LS630	DIP28a
56	74F630QC(A)	1	TTL		2.0	0.8	0	7.0		0	7	16-Bit EDAC	K03-29	LC27
57♦	74F630SC(A)	1	TTL		2.0	0.8	0	7.0		0	7	16-Bit EDAC	74LS630	FP174
58	74F632L1C	1	TTL		2.0	0.8	0	7.0		0	7	32-Bit Parallel EDAC	K03-30	LC29
59	74F632QC	1	TTL		2.0	0.8	0	7.0		0	7	32-Bit Parallel EDAC	K03-30	LC29
60♦	SN54ALS632AJD	1	TTL		2.0	0.8	0.0	5.0		5	C	Build-In Diagnostic Capability	74ALS632	DIP52a
61♦	SN54LS630JD	1	TTL		2.0T	0.7	0	7.0	600m†	5	C	16-Bit Parallel Error DET/CORR	74LS630	DIP28a
62▼	SN74ALS616JD	1	TTL		2.0	0.8	0.0	5.0		0	7	Build-In Diagnostic Capability	74ALS616	DIP40a
63♦	SN74ALS632AFN	1	TTL		2.0	0.8	0.0	5.0		0	7	Build-In Diagnostic Capability	54ALS632	LC20d
64♦	SN74ALS632AJD	1	TTL		2.0	0.8	0.0	5.0		0	7	Build-In Diagnostic Capability	74ALS632	DIP52a
65▼	SN74ALS632BJD	1	TTL		2.0	0.8	0.0	5.0		0	7	Build-In Diagnostic Capability	74ALS632	DIP52a
66▼	SN74ALS634AJD	1	TTL		2.0	0.8	0.0	5.0		0	7	Build-In Diagnostic Capability	74ALS634	DIP48a
67♦	SN74AS632JD(A)	1	TTL		2.0	0.8	0	5.0		0	7	Built-In Diagnotic Capability	74ALS632	DIP52a
68♦	SN74LS630N	1	TTL		2.0T	0.8	0	7.0	600m†	0	7	16-Bit Parallel Error DET/CORR	74LS630	DIP28b
69♦	SN74LS631N	1	TTL		2.0Ø	0.8	0	7.0	600m†	0	7	16-Bit Parallel Error DET/CORR	74LS631	DIP28b
70♦	SN74LS636N	1	TTL		2.0T	0.8	0	7.0	500m†	0	7	8-Bit Parallel Error DET/CORR	74LS636	DIP20a
71♦	SN74LS637N	1	TTL		2.0Ø	0.8	0	7.0	500m†	0	7	8-Bit Parallel Error DET/CORR	74LS637	DIP20a
LOGIC BLOCK														
75♦	54H87DM	2	MON		2.0	0.8	0	5.0	270m†	5	C	4-Bit True/Complement Element	74H87N	TO-116
76	54H87FM	2	MON		2.0	0.8	0	5.0	270m†	5	C	4-Bit True/Compl Element	54H87W	FP21h
77♦	74H87DC	2	MON		2.0	0.8	0	5.0	270m†	0	7	4-Bit True/Compl Element	74H87N	TO-116
78♦	74H87PC	2	MON		2.0	0.8	0	5.0	270m†	0	7	4-Bit True/Compl Element	74H87N	DIP14a
79♦	H629B1	2	MON		22Δ	.40	0	20	250m	1	6	DTL Gate For Electronic Organ	K04-17	DIP14a
80♦	H632B1	2	MON		22Δ	.40	0	20	250m	1	6	DTL Gate For Electronic Organ	K04-16	DIP16a
81	N1025A	2	MON	125M	-.77	-1.6	5.2	0		0	7	Dual 4,5 Input Expander	None	None
82♦	N8261F	2	MON		2.6	.40C	0	5.0	140m	0	7	Fast Carry Extender;Gate Array	K04-10	DIP14a
83♦	N8261Q	2	MON		2.6	.40C	0	5.0	140m	0	7	Fast Carry Extender;Gate Array	K04-10	TO-88
84♦	SN74LS275N	2	MON		2.0	0.8	0	5.0	200m	0	7	7-Bit Slice Wallace Tree	74S275	DIP16a
85♦	MC10H119P	2	MOS		-1.0	1.45	0	0	100m	0	7	10kH Hi-Spd E-C L	K04-27	DIP16 ☑
86▼	MC10H119PD	2	MOS		-1.0	1.45	0	0	100m	0	7	10kH Hi-Spd E-C L	K04-27	DIP16 ☑
87▼	MC10H119PDS	2	MOS		-1.0	1.45	0	0	100m	0	7	10kH Hi-Spd E-C L	K04-27	DIP16 ☑
88▼	MC10H121FN	2	MOS		-1.0	1.45	0	0	100m	0	7	10kH Hi-Spd E-C L	K04-28	DIP16 ☑
89♦	MC10H121L	2	MOS		-1.0	1.45	0	0	100m	0	7	10kH Hi-Spd E-C L	K04-28	DIP16 ☑
90▼	MC10H121LD	2	MOS		-1.0	1.45	0	0	100m	0	7	10kH Hi-Spd E-C L	K04-28	DIP16 ☑
91▼	MC10H121LDS	2	MOS		-1.0	1.45	0	0	100m	0	7	10kH Hi-Spd E-C L	K04-28	DIP16 ☑
92♦	MC10H121P	2	MOS		-1.0	1.45	0	0	100m	0	7	10kH Hi-Spd E-C L	K04-28	DIP16 ☑
93▼	MC10H121PD	2	MOS		-1.0	1.45	0	0	100m	0	7	10kH Hi-Spd E-C L	K04-28	DIP16 ☑
94▼	MC10H121PDS	2	MOS		-1.0	1.45	0	0	100m	0	7	10kH Hi-Spd E-C L	K04-28	DIP16 ☑
95♦	MC14530BAL	2	MOS		12	4.0	0	15	15uQ	5	C	Dual 5-Input Majority Logic Gat	45-30B	DIP16a
96▼	MC14530BALD	2	MOS		12	4.0	0	15	15uQ	5	C	Dual 5-Input Majority Logic Gat	45-30B	DIP16a
97▼	MC14530BALDS	2	MOS		12	4.0	0	15	15uQ	5	C	Dual 5-Input Majority Logic Gat	45-30B	DIP16a
98▼	MC14530BALS	2	MOS		12	4.0	0	15	15uQ	5	C	Dual 5-Input Majority Logic Gat	45-30B	DIP16a
99♦	MC14530BCL	2	MOS		12	4.0	0	15	60uQ	4	8	Dual 5-Input Majority Logic Gat	45-30B	DIP16a
100▼	MC14530BCLD	2	MOS		12	4.0	0	15	60uQ	4	8	Dual 5-Input Majority Logic Gat	45-30B	DIP16a
101▼	MC14530BCLDS	2	MOS		12	4.0	0	15	60uQ	4	8	Dual 5-Input Majority Logic Gat	45-30B	DIP16a
102▼	MC14530BCLS	2	MOS		12	4.0	0	15	60uQ	4	8	Dual 5-Input Majority Logic Gat	45-30B	DIP16a
103♦	MC14530BCP	2	MOS		12	4.0	0	15	60uQ	4	8	Dual 5-Input Majority Logic Gat	45-30B	DIP16a
104▼	MC14530BCPD	2	MOS		12	4.0	0	15	60uQ	4	8	Dual 5-Input Majority Logic Gat	45-30B	DIP16a
105▼	MC14530BCPDS	2	MOS		12	4.0	0	15	60uQ	4	8	Dual 5-Input Majority Logic Gat	45-30B	DIP16a
106▼	MC14530BCPS	2	MOS		12	4.0	0	15	60uQ	4	8	Dual 5-Input Majority Logic Gat	45-30B	DIP16a
107▼	MC14530BD	2	MOS		12	4.0	0	15	60uQ	4	8	Dual 5-Input Majority Logic Gat	45-30B	DIP16a
108♦	MC14572UBAL	2	MOS		11.2	3.75	0	15	30u	5	C	Hex Gate4 Inv,2Ip Nor,2Ip NAND	45-72U	DIP16a
109▼	MC14572UBALD	2	MOS		11.2	3.75	0	15	30u	5	C	Hex Gate4 Inv,2Ip Nor,2Ip NAND	45-72U	DIP16a
110▼	MC14572UBALDS	2	MOS		11.2	3.75	0	15	30u	5	C	Hex Gate4 Inv,2Ip Nor,2Ip NAND	45-72U	DIP16a

27. SPECIAL DEVICES - Logic Block (Cont'd)

IN ORDER OF:(1)TYPE CODE(2)TECHNOLOGY (3)TYPE NUMBER

LINE No.	[3] TYPE NUMBER	[1] TYPE CODE	[2] TECH	f MAX (Hz)	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	GENERAL DESCRIPTION	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	MC14572UBALS	2	MOS		11.2	3.75	0	15	30u	5	C	Hex Gate4 Inv,2Ip Nor,2Ip NAND	45-72U	DIP16a
2♦	MC14572UBCL	2	MOS		11.2	3.75	0	15	30uQ	4	8	Hex Gate4 Inv,2Ip Nor,2Ip NAND	45-72U	DIP16a
3▼	MC14572UBCLD	2	MOS		11.2	3.75	0	15	30uQ	4	8	Hex Gate4 Inv,2Ip Nor,2Ip NAND	45-72U	DIP16a
4▼	MC14572UBCLDS	2	MOS		11.2	3.75	0	15	30uQ	4	8	Hex Gate4 Inv,2Ip Nor,2Ip NAND	45-72U	DIP16a
5▼	MC14572UBCLS	2	MOS		11.2	3.75	0	15	30uQ	4	8	Hex Gate4 Inv,2Ip Nor,2Ip NAND	45-72U	DIP16a
6♦	MC14572UBCP	2	MOS		11.2	3.75	0	15	30uQ	4	8	Hex Gate4 Inv,2Ip Nor,2Ip NAND	45-72U	DIP16a
7▼	MC14572UBCPD	2	MOS		11.2	3.75	0	15	30uQ	4	8	Hex Gate4 Inv,2Ip Nor,2Ip NAND	45-72U	DIP16a
8▼	MC14572UBCPDS	2	MOS		11.2	3.75	0	15	30uQ	4	8	Hex Gate4 Inv,2Ip Nor,2Ip NAND	45-72U	DIP16a
9▼	MC14572UBCPS	2	MOS		11.2	3.75	0	15	30uQ	4	8	Hex Gate4 Inv,2Ip Nor,2Ip NAND	45-72U	DIP16a
10▼	MC14572UBD	2	MOS		11.2	3.75	0	15	30uQ	4	8	Hex Gate4 Inv,2Ip Nor,2Ip NAND	45-72U	DIP16a
11	TC4530BP	2	MOS		14.9	.05*	0	15	300m	4	8	Dual 5-Input Majority Logic	45-30B	DL ☑
12♦	TC4572BP	2	MOS		11	4	0	15	300m	4	8	HEX GATE;4 INV,2-INPNOR,2-INPAN	45-72U	DIP14a
13♦	SN54LS275J	2	TTL		2.0	0.7	0	5.0	200m	5	C	7-Bit Slice Wallace Tree	74S275	DIP16a
SPECIAL DECODER/ENCODER														
17▼	ED5	3	CMS	25k	4.7	0.3	0	5		0	7	Prog ENCODE/DECODE:5-bits	K07-9	DIP18b
18♦	ED9(3)	3	CMS	25k	4.7	0.3	0	5		0	7	9-bit Prog ENCODE/DECODE	K07-9	DIP18b
19♦	ED11(3)	3	CMS	25k	4.7	0.3	0	5		0	7	ENCOD/DECOD,PROG:11 Bits	K07-9	DIP28a
20♦	ED15(3)	3	CMS	25k	4.7	0.3	0	5		0	7	ENCOD/DECOD,Prog:15 Bits	K07-9	DIP28a
21♦	F100156DC	3	ECL		-0.9Δ	-1.8*	4.5	0		0	8	Mask-Merge	K07-18	DIP24c
22	F100156FC	3	ECL		-0.9Δ	-1.8*	4.5	0		0	8	Mask-Merge	K07-18	FP139
23♦	HD100156	3	MON		-1.2	-1.5	5.7	0	40m†	0	8	Mask-Merge	K07-18	DIP24d
24	HD100156F	3	MON		-1.2	-1.5	5.7	0	40m†	0	8	Mask-Merge	K07-18	FP146
25♦	NE5044D	3	MON				0	10		2	7	Programmable 7 Channel RC Encod	K07-17	DIP16
26♦	NE5044N	3	MON				0	10		2	7	Programmable 7 Channel RC Encod	K07-17	DIP16a
27♦	DP8340J(2)	3	MOS	3.5M	2.0	0.8	0	7.0		0	7	Serial Bi-Phase Transmit/encod	K07-32	DIP24b
28♦	DP8340N(2)	3	MOS	3.5M	2.0	0.8	0	7.0		0	7	Serial Bi-Phase Transmit/Encod	K07-32	DIP24a
29	GZF1202P	3	MOS		3.5	1.5	0	5.0		4	8	Encod and Decod for Err Detect	K07-2	None
30♦	ICM7206JPE(1)	3	MOS	2.0M	4.6Δ	.50*	0	5.5	5.5m	4	8	Compli MOS Touch Tone Encod	K06-15	DIP16a
ADDITIONAL DIGITAL DEVICES														
34	NS8000A	7		1.5M	12		0		500m	5	A	Transformer Isolated Microchopp	K05-19	CN76
35♦	FZK101	7	BIP		7.5	4.5		18		0	7	Monostable,Pulse delay	K09-59	DIP16a
36♦	FZK105	7	BIP		7.5	4.5		18		2	8	Monostable,Pulse delay	K09-59	DIP16a
37▼	M54407B	7	BIP		2.0	0.8		7.0	750m	0	7	Annunciator	K02-49	DIP24 ☑
38♦	MC8503L	7	BIP	3.5M	2.4	0.5	0	5.0	400m	0	7	Universal Polynomial Generator	K02-43	DIP14a
39♦	MC8506L	7	BIP	2.8M	2.4	0.5C	0	7.0	585m†	0	7	Polynomial Generator	K02-45	DIP16a
40♦	MC8506P	7	BIP	2.8M	2.4	0.5C	0	7.0	585m†	0	7	Polynomial Generator	K02-45	DIP16a
41	CD4566BD	7	CMS		11	4	0	15	500m	5	A	Industrial Time-Base Generator	45-66	MO001AE
42	CD4566BE	7	CMS		11	4	0	15	500m	4	8	Industrial Time-Base Generator	45-66	MO001AC
43	CD4566BF	7	CMS		11	4	0	15	500m	5	A	Industrial Time-Base Generator	45-66	MO001AC
44	CD4566BK	7	CMS		11	4	0	15	500m	5	A	Industrial Time-Base Generator	45-66	MO004AG
45♦	HD14566B	7	CMS	3.0M	11.0	6.75	3.0	18.0	5.0nQ	4	8	Industrial Time Base Generator	45-66	DIP16b
46▼	MA7170AGB	7	CMS	10M	4.25	1.0		5.25		0	7	Bit-Slice Correlator	K03-39	PG111
47▼	MA7170AGC	7	CMS	10M	4.25	1.0		5.25		5	C	Bit-Slice Correlator	K03-39	PG111
48▼	MA7170AGE	7	CMS	10M	4.25	1.0		5.25		2	8	Bit-Slice Correlator	K03-39	PG111
49▼	MA7170AGF	7	CMS	10M	4.25	1.0		5.25		4	8	Bit-Slice Correlator	K03-39	PG111
50♦	MC4042L,P	7	CMS			.50C	0	5.0	120m†	0	7	Quad Predriver	74LS442N	TO-116
51♦	PC74HC4046AP	7	CMS		3.15	1.35	0	5.0	500m	4	C	Digital PLL Filter with VCO	40-46	DIP16b
52	PC74HC4046AT	7	CMS		3.15	1.35	0	5.0	400m	4	C	Digital PLL Filter with VCO	40-46	FP148
53♦	PC74HCT4046AP	7	CMS		2.0	0.8	0	5.0	500m	4	C	Digital PLL Filter with VCO	40-46	DIP16b
54	PC74HCT4046AT	7	CMS		2.0	0.8	0	5.0	400m	4	C	Digital PLL Filter with VCO	40-46	FP148
55▼	SN74HC7074NT(A)	7	CMS	20M	3.15	0.9	0.0	5.0		4	8	Six Section Multifunction	74HC7074	DIP24e
56♦	TMC2220J0A	7	CMS		2.0	0.8		5.25		5	C	Digital Correlator (4 x 1 bit)	K03-44	DIP64 ☑
57♦	TMC2220J0C	7	CMS		2.0	0.8		5.25		0	7	Digital Correlator (4 x 1 bit)	K03-44	DIP64 ☑
58♦	TMC2220J0G	7	CMS		2.0	0.8		5.25		0	7	Digital Correlator (4 x 1 bit)	K03-44	DIP64 ☑
59♦	5387AA	7	ECL	10k			4.0	26.3		2	7	Digital Clock Timer I.C.	K07-37	DIP40 ☑
60♦	AM6688DL6	7	ECL	100M	-.72	-1.9C	6.0	7.0		3	8	Quantizer 4-Bit	K08-1	DIP18a
61♦	AM6688DL7	7	ECL	100M	-.72	-1.9C	6.0	7.0		3	8	Quantizer 4-Bit	K08-1	DIP18a
62♦	AM6688DL8	7	ECL	100M	-.72	-1.9C	6.0	7.0		3	8	Quantizer 4-Bit	K08-1	DIP18a
63♦	AM6688DM6	7	ECL	100M	-.72	-1.9C	6.0	7.0		5	C	Quantizer 4-Bit	K08-1	DIP18a
64♦	AM6688DM7	7	ECL	100M	-.72	-1.9C	6.0	7.0		5	C	Quantizer 4-Bit	K08-1	DIP18a
65♦	AM6688DM8	7	ECL	100M	-.72	-1.9C	6.0	7.0		5	C	Quantizer 4-Bit	K08-1	DIP18a
66♦	MC12014P	7	ECL		2.4	0.5	8.0	0		0	7	Counter Control Logic	K05-43	DIP16b
67▼	MC12014PD	7	ECL		2.4	0.5	8.0	0		0	7	Counter Control Logic	K05-43	DIP16b
68▼	MC12014PDS	7	ECL		2.4	0.5	8.0	0		0	7	Counter Control Logic	K05-43	DIP16b
69♦	MC12040L	7	ECL	80M†	1.1	-1.4	5.2			0	7	Phase Frequency Detector	K07-40	DIP14a
70▼	MC12040LD	7	ECL	80M†	1.1	-1.4	5.2			0	7	Phase Frequency Detector	K07-40	DIP14a
71▼	MC12040LDS	7	ECL	80M†	1.1	-1.4	5.2			0	7	Phase Frequency Detector	K07-40	DIP14a
72♦	MC12040P	7	ECL	80M†	1.1	-1.4	5.2			0	7	Phase Frequency Detector	K07-40	DIP14a
73▼	MC12040PD	7	ECL	80M†	1.1	-1.4	5.2			0	7	Phase Frequency Detector	K07-40	DIP14a
74▼	MC12040PDS	7	ECL	80M†	1.1	-1.4	5.2			0	7	Phase Frequency Detector	K07-40	DIP14a
75♦	MC12090L	7	ECL	750M	-.81	-1.9	5.2	0		0	7	D Master/Slave Flip-Flop	K06-162	DIP16a
76▼	MC12090LD	7	ECL	750M	-.81	-1.9	5.2	0		0	7	D Master/Slave Flip-Flop	K06-162	DIP16a
77▼	MC12090LDS	7	ECL	750M	-.81	-1.9	5.2	0		0	7	D Master/Slave Flip-Flop	K06-162	DIP16a
78♦	MC12090P	7	ECL	750M	-.81	-1.9	5.2	0		0	7	D Master/Slave Flip-Flop	K06-162	DIP16b
79▼	MC12090PD	7	ECL	750M	-.81	-1.9	5.2	0		0	7	D Master/Slave Flip-Flop	K06-162	DIP16b
80▼	MC12090PDS	7	ECL	750M	-.81	-1.9	5.2	0		0	7	D Master/Slave Flip-Flop	K06-162	DIP16b
81♦	MC12514L	7	ECL		2.4	0.5	8.0	0		0	7	Counter Control Logic	K05-43	DIP16a
82♦	MC12514P	7	ECL		2.4	0.5	8.0	0		0	7	Counter Control Logic	K05-43	DIP16b
83♦	MC12540L	7	ECL	80M†	1.1	-1.4	5.2			5	C	Phase Frequency Detector	K07-40	DIP14a
84♦	MC12540P	7	ECL	80M†	1.1	-1.4	5.2			5	C	Phase Frequency Detector	K07-40	DIP14a
85	HMD11502-2	7	GA	1.0G	-0.8	-1.8C	3.5	5.0	1.2			Pulse Driver/Format Converter	K07-36	FP ☑
86♦	9650-2DC	7	MON		2.0	0.8	16	5.5	730m	0	7	4-Bit Curr Source;Lin +/-.05% F	K02-5	DIP16a
87♦	DM8898N	7	MON		2.0	0.8	0			0	7	TRISTATE BCD-BIN/BIN-BCDConv	K05-39	DIP16a
88♦	DM8899N	7	MON		2.0	0.8	0			0	7	TRISTATE BCD-BIN/BIN-BCDConv	K05-39	DIP16a
89♦	ESM381	7	MON		17	12	0	32	900m	2	7	Phase Cell, tpd 5.5ms At Vcc48v	K01-3	TO-116
90♦	ESM382	7	MON		17	12	0	32	900m	2	7	Control Gabe For ESM381	K05-29	TO-116
91▼	MC675L	7	MON		12.5	1.5C	0	15	180m	3	7	Pulse Stretcher;Fan Out 10	6-75P	TO-116
92▼	MC675P	7	MON		12.5	1.5C	0	15	180m	3	7	Pulse Stretcher;Fan Out 10	6-75P	DIP14a
93♦	MC8503P	7	MON		2.4Δ	0.5C	0	7.0	400m†	0	7	Universal Polynomial Generator	K02-43	DIP14a
94♦	MC8504P	7	MON		2.4Δ	0.4C	0	7.0	350m†	0	7	Universal Presettable Polynom	K02-44	DIP16a
95♦	MC12014L	7	MON		2.4	.50C	0	5.0		0	7	Counter Control Logic	None	DIP16b
96▼	MC12014LD	7	MON		2.4	.50C	0	5.0		0	7	Counter Control Logic	None	DIP16b
97▼	MC12014LDS	7	MON		2.4	.50C	0	5.0		0	7	Counter Control Logic	None	DIP16b
98♦	N8243F	7	MON		Ø	.40C	0	5.0	376m	0	7	8 Bit Position Scaler	K06-7	DIP24a
99♦	N8243N	7	MON		Ø	.40C	0	5.0	376m	0	7	8 Bit Position Scaler	K06-7	DIP24a
100♦	S8243F	7	MON		Ø	.40C	0	5.0	376m	5	C	8 Bit Position Scaler	K06-7	DIP24a
101	S8243Q	7	MON		Ø	.40C	0	5.0	376m	5	C	8 Bit Position Scaler	K06-7	FP59c
102▼	SAK140	7	MON				0	12	130m	4	8	Rev Cter for Cars;10 50mA max	K05-21	DIP14a
103♦	SN54265J	7	MON		2.0	0.8	0	5.0	170m	5	C	Quad Compl Outp Elem, TTL Gen.	74-265N	DIP16a
104♦	SN74265N	7	MON		2.0	0.8	0	5.0	170m	0	7	Quad Compl Outp Elem, TTL Gen.	74-265N	DIP16a
105	HXA100156D	7	MOS		-1.8	-.88	4.5	0	689m	0	8	MASK-MERGE SELECTOR	K01-6	DL ☑
106	HXA100156F	7	MOS		-1.8	-.88	4.5	0	689m	0	8	MASK-MERGE SELECTOR	K01-6	FP ☑
107	ICM7250D	7	MOS	100k			0	5.0	200m	2	8	CMOS Prog Ter/Cer;Out C 1-99RC	K05-34	None
108	ICM7260D	7	MOS	100k			0	5.0	200m	2	8	CMOS Prog Ter/Cer;Out C 1-59RC	K05-34	None
109▼	L2001E	7	MOS		3.5	1.0		5.0		4	C	Panel Switch & Encoder Cntlr	K02-50	DIP40 ☑
110♦	MC14566BAL	7	MOS	4.2M†	11	4.0	0	15	300uQ	5	C	Industrial Time Base Generator	45-66	DIP16a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

27. SPECIAL DEVICES - Additional Digital Devices (Cont'd)

IN ORDER OF:(1)TYPE CODE(2)TECHNOLOGY (3)TYPE NUMBER

LINE No.	[3] TYPE NUMBER	[1] TYPE CODE	[2] TECH	f MAX (Hz)	INPUT LOGIC LEVELS VIH MIN (V)	VIL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	+	GENERAL DESCRIPTION	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	OUTLINE DRAWING
1▼	MC14566BALD	7	MOS	4.2M†	11	4.0	0	15	300uQ	5	C	Industrial Time Base Generator	45-66	DIP16a
2▼	MC14566BALDS	7	MOS	4.2M†	11	4.0	0	15	300uQ	5	C	Industrial Time Base Generator	45-66	DIP16a
3▼	MC14566BALS	7	MOS	4.2M†	11	4.0	0	15	300uQ	5	C	Industrial Time Base Generator	45-66	DIP16a
4♦	MC14566BCL	7	MOS	4.2M†	11	4.0	0	15	1.2mQ	4	8	Industrial Time Base Generator	45-66	DIP16a
5▼	MC14566BCLD	7	MOS	4.2M†	11	4.0	0	15	1.2mQ	4	8	Industrial Time Base Generator	45-66	DIP16a
6▼	MC14566BCLDS	7	MOS	4.2M†	11	4.0	0	15	1.2mQ	4	8	Industrial Time Base Generator	45-66	DIP16a
7▼	MC14566BCLS	7	MOS	4.2M†	11	4.0	0	15	1.2mQ	4	8	Industrial Time Base Generator	45-66	DIP16a
8♦	MC14566BCP	7	MOS	4.2M†	11	4.0	0	15	1.2mQ	4	8	Industrial Time Base Generator	45-66	DIP16a
9▼	MC14566BCPD	7	MOS	4.2M†	11	4.0	0	15	1.2mQ	4	8	Industrial Time Base Generator	45-66	DIP16a
10▼	MC14566BCPDS	7	MOS	4.2M†	11	4.0	0	15	1.2mQ	4	8	Industrial Time Base Generator	45-66	DIP16a
11▼	MC14566BCPS	7	MOS	4.2M†	11	4.0	0	15	1.2mQ	4	8	Industrial Time Base Generator	45-66	DIP16a
12▼	MC14566BD	7	MOS	4.2M†	11	4.0	0	15	1.2mQ	4	8	Industrial Time Base Generator	45-66	DIP16a
13♦	MM4015	7	MOS	1.0M	-4.0	-2.0*	25	0	400m	5	C	60 Plus 4 Bit Accum/Regis	K01-2	DIP16a
14♦	MM5015	7	MOS	1.0M	-4.0	-2.0*	25	0	400m	2	7	60 Plus 4 Bit Accum/Regis	K01-2	DIP16a
15♦	MN3101	7	MOS		0.6	0.5*	15	0	45m†	1	7	CMOS Clock Gen/Driver for BBD	K02-40	DIP8a
16♦	MN3102	7	MOS		0.5	0.4*	0	5.0	2.5m†	1	7	CMOS Clock Gen/Driver for BBD	K02-41	DIP8a
17♦	MN3105	7	MOS			0.3	6.0			2	7	Clock Generator/Driver for BBD	K02-41	DIP8a
18♦	SFF5201	7	MOS	12M			0	12	400m	4	8	Oscillator/Frequency Divider	K02-3	TO-99
19	MC4044F	7	TTL		2.5	0.4		5.0	85m†	0	7	Phase Frequency Detector	4-044	FP189
20♦	MC4044L	7	TTL		2.5	0.4		5.0	85m†	0	7	Phase Frequency Detector	4-044	DIP14a
21♦	MC4044P	7	TTL		2.5	0.4		5.0	85m†	0	7	Phase Frequency Detector	4-044	DIP14a
22	MC4344F	7	TTL		2.4	0.4		5.0	85m†	5	C	Phase Frequency Detector	4-044	FP189
23♦	MC4344L	7	TTL		2.4	0.4		5.0	85m†	5	C	Phase Frequency Detector	4-044	DIP14a
24♦	PPD23-1	7	TTL	25M	2.0	0.8		5.0	850m	0	7	Programmable Pulse Discriminatr	K07-45	DIP24
25♦	PPD23-2	7	TTL	25M	2.0	0.8		5.0	850m	0	7	Programmable Pulse Discriminatr	K07-45	DIP24
26♦	PPD23-3	7	TTL	25M	2.0	0.8		5.0	850m	0	7	Programmable Pulse Discriminatr	K07-45	DIP24
27♦	PPD23-5	7	TTL	25M	2.0	0.8		5.0	850m	0	7	Programmable Pulse Discriminatr	K07-45	DIP24
28♦	PPD23-10	7	TTL	25M	2.0	0.8		5.0	850m	0	7	Programmable Pulse Discriminatr	K07-45	DIP24
29♦	PPD23-15	7	TTL	25M	2.0	0.8		5.0	850m	0	7	Programmable Pulse Discriminatr	K07-45	DIP24
30♦	PPD23-20	7	TTL	25M	2.0	0.8		5.0	850m	0	7	Programmable Pulse Discriminatr	K07-45	DIP24
31♦	PPD23-40	7	TTL	25M	2.0	0.8		5.0	850m	0	7	Programmable Pulse Discriminatr	K07-45	DIP24
32♦	PPD23-50	7	TTL	25M	2.0	0.8		5.0	850m	0	7	Programmable Pulse Discriminatr	K07-45	DIP24
33	PPG33-1	7	TTL				0	5.0	740m	0	7	Pgm Pls Gen;3-Bit;7nS Pul.W.Ch.	K02-47	MD30b
34	PPG33-2	7	TTL				0	5.0	740m	0	7	Pgm Pls Gen;3-Bit;14nS Pul.W.Ch	K02-47	MD30b
35	PPG33-3	7	TTL				0	5.0	740m	0	7	Pgm Pls Gen;3-Bit;21nS Pul.W.Ch	K02-47	MD30b
36	PPG33-5	7	TTL				0	5.0	740m	0	7	Pgm Pls Gen;3-Bit;35nS Pul.W.Ch	K02-47	MD30b
37	PPG33-10	7	TTL				0	5.0	740m	0	7	Pgm Pls Gen;3-Bit;70nS Pul.W.Ch	K02-47	MD30b
38	PPG33-15	7	TTL				0	5.0	740m	0	7	Pgm Pls Gen;3-Bit;105n Pul.W.Ch	K02-47	MD30b
39	PPG33-20	7	TTL				0	5.0	740m	0	7	Pgm Pls Gen;3-Bit;140n Pul.W.Ch	K02-47	MD30b
40	PPG33-40	7	TTL				0	5.0	740m	0	7	Pgm Pls Gen;3-Bit;280n Pul.W.Ch	K02-47	MD30b
41	PPG33-50	7	TTL				0	5.0	740m	0	7	Pgm Pls Gen;3-Bit;350n Pul.W.Ch	K02-47	MD30b
42	PPG36-1	7	TTL				0	5.0	900m	0	7	Pgm Pls Gen;6-Bit;63nS Pul.W.Ch	K02-48	MD30i
43	PPG36-2	7	TTL				0	5.0	900m	0	7	Pgm Pls Gen;6-Bit;126n Pul.W.Ch	K02-48	MD30i
44	PPG36-3	7	TTL				0	5.0	900m	0	7	Pgm Pls Gen;6-Bit;189n Pul.W.Ch	K02-48	MD30i
45	PPG36-4	7	TTL				0	5.0	900m	0	7	Pgm Pls Gen;6-Bit;252n Pul.W.Ch	K02-48	MD30i
46	PPG36-5	7	TTL				0	5.0	900m	0	7	Pgm Pls Gen;6-Bit;315n Pul.W.Ch	K02-48	MD30i
47	PPG36-6	7	TTL				0	5.0	900m	0	7	Pgm Pls Gen;6-Bit;378n Pul.W.Ch	K02-48	MD30i
48	PPG36-7	7	TTL				0	5.0	900m	0	7	Pgm Pls Gen;6-Bit;441n Pul.W.Ch	K02-48	MD30i
49	PPG36-8	7	TTL				0	5.0	900m	0	7	Pgm Pls Gen;6-Bit;504n Pul.W.Ch	K02-48	MD30i
50	PPG36-9	7	TTL				0	5.0	900m	0	7	Pgm Pls Gen;6-Bit;567n Pul.W.Ch	K02-48	MD30i
51	PPG36-10	7	TTL				0	5.0	900m	0	7	Pgm Pls Gen;6-Bit;630n Pul.W.Ch	K02-48	MD30i
52	SN54LS297FK	7	TTL	50M	2.0	0.7	0	7.0		5	C	Digital PLL Filter	K07-38	LC19
53♦	SN74LS297N	7	TTL	50M	2.0	0.8	0	7.0		0	7	Digital PLL Filter	74LS297	DIP16a
54	TTLPW005	7	TTL	98M	2.0	0.8	0	5.0		0	7	5.0ns TTL Pulse Width Regulator	K07-42	MD50
55	TTLPW005M	7	TTL	98M	2.0	0.8	0	5.0		5	C	5.0ns TTL Pulse Width Regulator	K07-42	MD50
56	TTLPW010	7	TTL	49M	2.0	0.8	0	5.0		0	7	10 ns TTL Pulse Width Regulator	K07-42	MD50
57	TTLPW010M	7	TTL	49M	2.0	0.8	0	5.0		5	C	10 ns TTL Pulse Width Regulator	K07-42	MD50
58	TTLPW015	7	TTL	30M	2.0	0.8	0	5.0		0	7	15 ns TTL Pulse Width Regulator	K07-42	MD50
59	TTLPW015M	7	TTL	30M	2.0	0.8	0	5.0		5	C	15 ns TTL Pulse Width Regulator	K07-42	MD50
60	TTLPW020	7	TTL	23M	2.0	0.8	0	5.0		0	7	20 ns TTL Pulse Width Regulator	K07-42	MD50
61	TTLPW020M	7	TTL	23M	2.0	0.8	0	5.0		5	C	20 ns TTL Pulse Width Regulator	K07-42	MD50
62	TTLPW025	7	TTL	18M	2.0	0.8	0	5.0		0	7	25 ns TTL Pulse Width Regulator	K07-42	MD50
63	TTLPW025M	7	TTL	18M	2.0	0.8	0	5.0		5	C	25 ns TTL Pulse Width Regulator	K07-42	MD50
64	TTLPW030	7	TTL	15M	2.0	0.8	0	5.0		0	7	30 ns TTL Pulse Width Regulator	K07-42	MD50
65	TTLPW030M	7	TTL	15M	2.0	0.8	0	5.0		5	C	30 ns TTL Pulse Width Regulator	K07-42	MD50
66	TTLPW035	7	TTL	13M	2.0	0.8	0	5.0		0	7	35 ns TTL Pulse Width Regulator	K07-42	MD50
67	TTLPW035M	7	TTL	13M	2.0	0.8	0	5.0		5	C	35 ns TTL Pulse Width Regulator	K07-42	MD50
68	TTLPW040	7	TTL	11M	2.0	0.8	0	5.0		0	7	40 ns TTL Pulse Width Regulator	K07-42	MD50
69	TTLPW040M	7	TTL	11M	2.0	0.8	0	5.0		5	C	40 ns TTL Pulse Width Regulator	K07-42	MD50
70	TTLPW045	7	TTL	10M	2.0	0.8	0	5.0		0	7	45 ns TTL Pulse Width Regulator	K07-42	MD50
71	TTLPW045M	7	TTL	10M	2.0	0.8	0	5.0		5	C	45 ns TTL Pulse Width Regulator	K07-42	MD50
72	TTLPW050	7	TTL	9.0M	2.0	0.8	0	5.0		0	7	50 ns TTL Pulse Width Regulator	K07-42	MD50
73	TTLPW050M	7	TTL	9.0M	2.0	0.8	0	5.0		5	C	50 ns TTL Pulse Width Regulator	K07-42	MD50
74	TTLPW060	7	TTL	8.0M	2.0	0.8	0	5.0		0	7	60 ns TTL Pulse Width Regulator	K07-42	MD50
75	TTLPW060M	7	TTL	8.0M	2.0	0.8	0	5.0		5	C	60 ns TTL Pulse Width Regulator	K07-42	MD50
76	TTLPW070	7	TTL	6.5M	2.0	0.8	0	5.0		0	7	70 ns TTL Pulse Width Regulator	K07-42	MD50
77	TTLPW070M	7	TTL	6.5M	2.0	0.8	0	5.0		5	C	70 ns TTL Pulse Width Regulator	K07-42	MD50
78	TTLPW075	7	TTL	6.0M	2.0	0.8	0	5.0		0	7	75 ns TTL Pulse Width Regulator	K07-42	MD50
79♦	TTLPW075M	7	TTL	6.0M	2.0	0.8	0	5.0		0	7	75 ns TTL Pulse Width Regulator	K07-42	MD50
80	TTLPW100	7	TTL	4.0M	2.0	0.8	0	5.0		0	7	100ns TTL Pulse Width Regulator	K07-42	MD50
81♦	TTLPW100M	7	TTL	4.0M	2.0	0.8	0	5.0		0	7	100ns TTL Pulse Width Regulator	K07-42	MD50
82	TTLPW150	7	TTL	3.0M	2.0	0.8	0	5.0		0	7	150ns TTL Pulse Width Regulator	K07-42	MD50
83♦	TTLPW150M	7	TTL	3.0M	2.0	0.8	0	5.0		0	7	150ns TTL Pulse Width Regulator	K07-42	MD50
84	TTLPW200	7	TTL	2.0M	2.0	0.8	0	5.0		0	7	200ns TTL Pulse Width Regulator	K07-42	MD50
85♦	TTLPW200M	7	TTL	2.0M	2.0	0.8	0	5.0		0	7	200ns TTL Pulse Width Regulator	K07-42	MD50
86	TTLPW250	7	TTL	1.9M	2.0	0.8	0	5.0		0	7	250ns TTL Pulse Width Regulator	K07-42	MD50
87♦	TTLPW250M	7	TTL	1.9M	2.0	0.8	0	5.0		0	7	250ns TTL Pulse Width Regulator	K07-42	MD50
88	TTLPW300	7	TTL	1.5M	2.0	0.8	0	5.0		0	7	300ns TTL Pulse Width Regulator	K07-42	MD50
89♦	TTLPW300M	7	TTL	1.5M	2.0	0.8	0	5.0		0	7	300ns TTL Pulse Width Regulator	K07-42	MD50
90	TTLPW400	7	TTL	1.0M	2.0	0.8	0	5.0		0	7	400ns TTL Pulse Width Regulator	K07-42	MD50
91♦	TTLPW400M	7	TTL	1.0M	2.0	0.8	0	5.0		0	7	400ns TTL Pulse Width Regulator	K07-42	MD50
92♦	TTLPW500	7	TTL	900k	2.0	0.8	0	5.0		0	7	500ns TTL Pulse Width Regulator	K07-42	MD50
93♦	TTLPW500M	7	TTL	900k	2.0	0.8	0	5.0		0	7	500ns TTL Pulse Width Regulator	K07-42	MD50

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

SECTION 28. TYPE NUMBERS WITH MILITARY SPECIFICATIONS

For additional information on military qualified devices, please refer to D.A.T.A.'s Military Electronics Devices Guide.

This Guide is published quarterly to correspond to the most recent QPL revisions. The latest edition contains information on more than 20,000 military qualified ICs and semiconductors.

The 3 microcircuit product selection sections, MIL-M-38510, DESC drawings and MIL-STD-883 are sorted by device function and cross indexed for easy access to the device information and standard outline drawings. MIL-S-19500 semiconductors are also sorted, listed, indexed, and reference a series of standard case outline drawings.

All military qualified manufacturers are listed within their respective sections, indicating D.A.T.A. mfr. code, government code, FSCM No., logo, and plant locations.

GENERIC/INDUSTRY PART NUMBER TO MIL-M-38510 PART NUMBER

GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER
25LS174	33106	54ALS1002	38402	54HC02	65101
25LS175	33107	54AS133	07009	54HC08	65203
54ALS00	37001	54C85	1XX03 *	54HC10	65002
54ALS02	37301	54F00	33001	54HC11	65204
54ALS08	37401	54F02	33301	54HC20	65003
54ALS10	37002	54F08	34001	54HC30	65004
54ALS11	37402	54F10	33003	54HC32	65201
54ALS20	37003	54F11	34002	54HC73	65301
54ALS27	37302	54F20	33004	54HC74	65302
54ALS30	37004	54F32	33501	54HC75	65401
54ALS32	37501	54F64	33401	54HC85	66101
54ALS74	37101	54F74	34101	54HC86	65202
54ALS109	37102	54F86	34501	54HC107	65303
54ALS112A	37103	54F109	34102	54HC109	65304
54ALS133	37005	54F112	34103	54HC112	65305
54ALS160	38101	54F174	34107	54HC123	65901
54ALS161	38001	54F175	34104	54HC160	66301
54ALS162	38102	54F280	34901	54HC161	66302
54ALS163	38002	54F283	34201	54HC162	66303
54ALS168	38103	54F373	34601	54HC163	66304
54ALS169	38003	54F374	34105	54HC174	65307
54ALS174	37201	54F521	34701	54HC175	65308
54ALS175	30107	54F533	34602	54HC191	66305
54ALS175	37202	54F534	34106	54HC192	66306
54ALS373	37203	54H00	02304	54HC193	66307
54ALS374	37204	54H01	02306	54HC221	65902
54ALS560	38104	54H10	02303	54HC257	65102
54ALS561	38004	54H20	02302	54HC259	65402
54ALS568	38105	54H30	02301	54HC266	65103
54ALS569	38005	54H50	04001	54HC273	65601
54ALS573	38201	54H51	04002	54HC280	66801
54ALS574	37104	54H53	04003	54HC283	66701
54ALS576	37105	54H55	04005	54HC373	65403
54ALS580	38202	54H72	02201	54HC374	65602
54ALS873	38203	54H76	02204	54HC377	65603
54ALS874	37106	54H101	02205	54HC390	66308
54ALS876	37107	54H103	02206	54HC393	66309
54ALS880	38204	54HC00	65001	54HC533	65404

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SECTION 28. TYPE NUMBERS WITH MILITARY SPECIFICATIONS

GENERIC/INDUSTRY PART NUMBER TO MIL-M-38510 PART NUMBER

GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER
54HC534	65605	54LS93	31502	54S86	07501
54HC563	65405	54LS107	30108	54S112	07102
54HC564	65606	54LS109	30109	54S113	07103
54HC573	65406	54LS112	30103	54S114	07104
54HC574	65604	54LS113	30104	54S134	07010
54HC590	66401	54LS114	30105	54S135	07502
54HC592	66402	54LS122	31403	54S174	07105
54HC593	66403	54LS123	31401	54S175	07106
54HC682	66102	54LS160A	31503	54S181	07801
54HC684	66103	54LS161A	31504	54S182	07802
54HC686	61104	54LS162A	31511	930	03001
54HC688	66105	54LS163A	31512	946	03004
54HC4002	65104	54LS168	31505	962	03005
54HC4017	66310	54LS169A	31506	1858	47X01 *
54HC4020	66311	54LS173	36101	4000A	05201
54HC4024	66312	54LS174	30106	4001A	05202
54HC4040	66313	54LS181	30801	4001B	05252
54HC4520	66314	54LS190	31513	4002A	05203
54L00	02004	54LS191	31509	4002B	05253
54L01	02006	54LS192	31507	4007A	05301
54L02	02701	54LS193	31508	4007UB	05351
54L10	02003	54LS196	32001	4008A	05401
54L20	02002	54LS197	32002	4011A	05001
54L30	02001	54LS221	31402	4011B	05051
54L71	02101	54LS259	31603	4012A	05002
54L72	02102	54LS259B	31605	4012B	05052
54L73	02103	54LS261	31801	4013A	05101
54L74	02105	54LS266	30303	4013B	05151
54L78	02104	54LS273	32501	4017A	05601
54L86	02601	54LS279	31602	4017B	05651
54L90	02501	54LS280	32901	4018A	05602
54L93	02502	54LS283	31202	4018B	05652
54LS00	30001	54LS290	32003	4019A	05302
54LS02	30301	54LS293	32004	4019B	05352
54LS03	30002	54LS373	32502	4020A	05603
54LS08	31004	54LS374	32503	4020B	05653
54LS09	31005	54LS375	31604	4022A	05604
54LS10	30005	54LS377	32504	4022B	05654
54LS12	30006	54LS390	32701	4023A	05003
54LS15	31002	54LS393	32702	4023B	05053
54LS20	30007	54LS490	32703	4024A	05605
54LS21	31003	54S00	07001	4024B	05655
54LS22	30008	54S02	07301	4025A	05204
54LS27	30302	54S03	07002	4025B	05254
54LS30	30009	54S08	08003	4027A	05102
54LS32	30501	54S09	08004	4027B	05152
54LS51	30401	54S10	07005	4029B	18X01 *
54LS54	30402	54S11	08001	4030A	05303
54LS73	30101	54S15	08002	4030B	05353
54LS74	30102	54S20	07006	4034B	05153
54LS75	31601	54S22	07007	4043A	05103
54LS76	30110	54S30	07008	4060A	05X01 *
54LS83A	31201	54S51	07401	4070B	17203
54LS85	31101	54S64	07402	4071B	17101
54LS86	30502	54S65	07403	4072B	17102
54LS90	31501	54S74	07101	4073B	17003
54LS92	31510	54S85	08201	4075B	17103

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SECTION 28. TYPE NUMBERS WITH MILITARY SPECIFICATIONS

GENERIC/INDUSTRY PART NUMBER TO MIL-M-38510 PART NUMBER

GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER
4077B	17204	5470	00206	10631	06102
4081B	17001	5472	00201	14585	1XX02 *
4082B	17002	5473	00202	40174B	17505
4085B	17201	5474	00205	54010	00107
4086B	17202	5475	01501	54107	00203
4095B	17502	5476	00204	54121	01201
4096B	17503	5477	01502	54122	01202
4098B	17504	5483	00602	54123	01203
4099B	17601	5485	15001	54160	01303
4514B	17301	5486	00701	54161	01306
4515B	17302	5490	01307	54162	01305
5400	00104	5492	01301	54163	01304
5402	00401	5493	01302	54174	01701
5403	00109	9314	01504	54175	01702
5408	01601	9324	15002	54180	01901
5409	01602	9601	01204	54181	01101
5410	00103	9602	01205	54182	01102
5412	00106	10501	06001	54192	01308
5420	00102	10502	06002	54193	01309
5423	00402	10504	06201	MC3101	15501
5425	00403	10505	06003	MC3106	15502
5427	00404	10506	06004	MC3111	15503
5430	00101	10507	06005	MPY-8HJM	50004
5432	16101	10509	06006	MPY-12HJM	50005
5450	00501	10531	06101	MPY-16HJM	50006
5451	00502	10535	06104	TDC1008JM	50001
5453	00503	10576	06103	TDC1009JM	50002
5454	00504	10597	06202	TDC1010JM	50003

MIL-M-38510 NUMBER TO GENERIC/INDUSTRY PART NUMBER

MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER
00101	5430	00503	5453	01309	54193
00102	5420	00504	5454	01501	5475
00103	5410	00602	5483	01502	5477
00104	5400	00701	5486	01504	9314
00106	5412	01101	54181	01601	5408
00107	54010	01102	54182	01602	5409
00109	5403	01201	54121	01701	54174
00201	5472	01202	54122	01702	54175
00202	5473	01203	54123	01901	54180
00203	54107	01204	9601	02001	54L30
00204	5476	01205	9602	02002	54L20
00205	5474	01301	5492	02003	54L10
00206	5470	01302	5493	02004	54L00
00401	5402	01303	54160	02006	54L01
00402	5423	01304	54163	02101	54L71
00403	5425	01305	54162	02102	54L72
00404	5427	01306	54161	02103	54L73
00501	5450	01307	5490	02104	54L78
00502	5451	01308	54192	02105	54L74

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SECTION 28. TYPE NUMBERS WITH MILITARY SPECIFICATIONS

MIL-M-38510 NUMBER TO GENERIC/INDUSTRY PART NUMBER

MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER
02201	54H72	06001	10501	17502	4095B
02204	54H76	06002	10502	17503	4096B
02205	54H101	06003	10505	17504	4098B
02206	54H103	06004	10506	17505	40174B
02301	54H30	06005	10507	17601	4099B
02302	54H20	06006	10509	18X01 *	4029B
02303	54H10	06101	10531	1XX02 *	14585
02304	54H00	06102	10631	1XX03 *	54C85
02306	54H01	06103	10576	30001	54LS00
02501	54L90	06104	10535	30002	54LS03
02502	54L93	06201	10504	30005	54LS10
02601	54L86	06202	10597	30006	54LS12
02701	54L02	07001	54S00	30007	54LS20
03001	930	07002	54S03	30008	54LS22
03004	946	07005	54S10	30009	54LS30
03005	962	07006	54S20	30101	54LS73
04001	54H50	07007	54S22	30102	54LS74
04002	54H51	07008	54S30	30103	54LS112
04003	54H53	07009	54AS133	30104	54LS113
04005	54H55	07010	54S134	30105	54LS114
05001	4011A	07101	54S74	30106	54LS174
05002	4012A	07102	54S112	30107	54ALS175
05003	4023A	07103	54S113	30108	54LS107
05051	4011B	07104	54S114	30109	54LS109
05052	4012B	07105	54S174	30110	54LS76
05053	4023B	07106	54S175	30301	54LS02
05101	4013A	07301	54S02	30302	54LS27
05102	4027A	07401	54S51	30303	54LS266
05103	4043A	07402	54S64	30401	54LS51
05151	4013B	07403	54S65	30402	54LS54
05152	4027B	07501	54S86	30501	54LS32
05153	4034B	07502	54S135	30502	54LS86
05201	4000A	07801	54S181	30801	54LS181
05202	4001A	07802	54S182	31002	54LS15
05203	4002A	08001	54S11	31003	54LS21
05204	4025A	08002	54S15	31004	54LS08
05252	4001B	08003	54S08	31005	54LS09
05253	4002B	08004	54S09	31101	54LS85
05254	4025B	08201	54S85	31201	54LS83A
05301	4007A	15001	5485	31202	54LS283
05302	4019A	15002	9324	31401	54LS123
05303	4030A	15501	MC3101	31402	54LS221
05351	4007UB	15502	MC3106	31403	54LS122
05352	4019B	15503	MC3111	31501	54LS90
05353	4030B	16101	5432	31502	54LS93
05401	4008A	17001	4081B	31503	54LS160A
05601	4017A	17002	4082B	31504	54LS161A
05602	4018A	17003	4073B	31505	54LS168
05603	4020A	17101	4071B	31506	54LS169A
05604	4022A	17102	4072B	31507	54LS192
05605	4024A	17103	4075B	31508	54LS193
05651	4017B	17201	4085B	31509	54LS191
05652	4018B	17202	4086B	31510	54LS92
05653	4020B	17203	4070B	31511	54LS162A
05654	4022B	17204	4077B	31512	54LS163A
05655	4024B	17301	4514B	31513	54LS190
05X01 *	4060A	17302	4515B	31601	54LS75

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SECTION 28. TYPE NUMBERS WITH MILITARY SPECIFICATIONS

MIL-M-38510 NUMBER TO GENERIC/INDUSTRY PART NUMBER

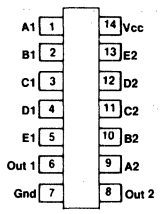
MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER	MIL-M-38510 PART NUMBER	GENERIC/INDUSTRY PART NUMBER
31602	54LS279	37102	54ALS109	65202	54HC86
31603	54LS259	37103	54ALS112A	65203	54HC08
31604	54LS375	37104	54ALS574	65204	54HC11
31605	54LS259B	37105	54ALS576	65301	54HC73
31801	54LS261	37106	54ALS874	65302	54HC74
32001	54LS196	37107	54ALS876	65303	54HC107
32002	54LS197	37201	54ALS174	65304	54HC109
32003	54LS290	37202	54ALS175	65305	54HC112
32004	54LS293	37203	54ALS373	65307	54HC174
32501	54LS273	37204	54ALS374	65308	54HC175
32502	54LS373	37301	54ALS02	65401	54HC75
32503	54LS374	37302	54ALS27	65402	54HC259
32504	54LS377	37401	54ALS08	65403	54HC373
32701	54LS390	37402	54ALS11	65404	54HC533
32702	54LS393	37501	54ALS32	65405	54HC563
32703	54LS490	38001	54ALS161	65406	54HC573
32901	54LS280	38002	54ALS163	65601	54HC273
33001	54F00	38003	54ALS169	65602	54HC374
33003	54F10	38004	54ALS561	65603	54HC377
33004	54F20	38005	54ALS569	65604	54HC574
33106	25LS174	38101	54ALS160	65605	54HC534
33107	25LS175	38102	54ALS162	65606	54HC564
33301	54F02	38103	54ALS168	65901	54HC123
33401	54F64	38104	54ALS560	65902	54HC221
33501	54F32	38105	54ALS568	66101	54HC85
34001	54F08	38201	54ALS573	66102	54HC682
34002	54F11	38202	54ALS580	66103	54HC684
34101	54F74	38203	54ALS873	66105	54HC688
34102	54F109	38204	54ALS880	66301	54HC160
34103	54F112	38402	54ALS1002	66302	54HC161
34104	54F175	47X01 *	1858	66303	54HC162
34105	54F374	50001	TDC1008JM	66304	54HC163
34106	54F534	50002	TDC1009JM	66305	54HC191
34107	54F174	50003	TDC1010JM	66306	54HC192
34201	54F283	50004	MPY-8HJM	66307	54HC193
34501	54F86	50005	MPY-12HJM	66308	54HC390
34601	54F373	50006	MPY-16HJM	66309	54HC393
34602	54F533	61104	54HC686	66310	54HC4017
34701	54F521	65001	54HC00	66311	54HC4020
34901	54F280	65002	54HC10	66312	54HC4024
36101	54LS173	65003	54HC20	66313	54HC4040
37001	54ALS00	65004	54HC30	66314	54HC4520
37002	54ALS10	65101	54HC02	66401	54HC590
37003	54ALS20	65102	54HC257	66402	54HC592
37004	54ALS30	65103	54HC266	66403	54HC593
37005	54ALS133	65104	54HC4002	66701	54HC283
37101	54ALS74	65201	54HC32	66801	54HC280

*** – Pending MIL-M-38510 Assignment**

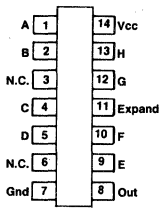
DRAWING SECTIONS

29. CIRCUIT DRAWINGS

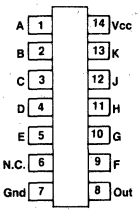
1-800 Dual 5-Input NAND Gate



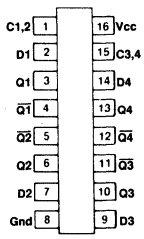
1-802P Expandable 8-Inputs NAND Gate



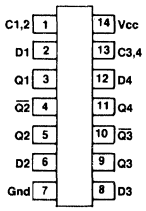
1-804 10-Input NAND Gate



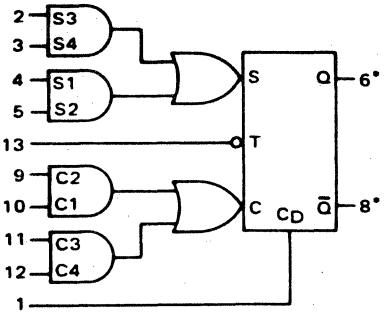
1-813P Quad Latch



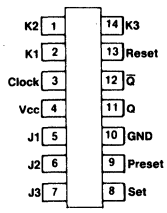
1-814P Quad Latch



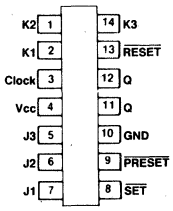
1-815 Parallel Gated Clocked Flip-Flop



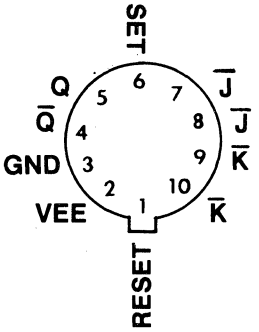
2-010 AND Input J-K Flip-Flop



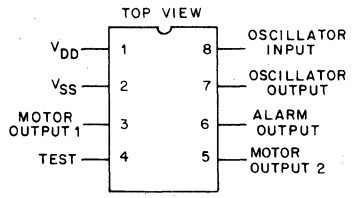
2-009 OR Input J-K Flip-Flop



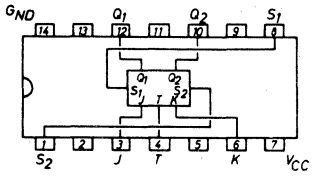
B02-335 A.C.-Coupled J-K Flip-Flop



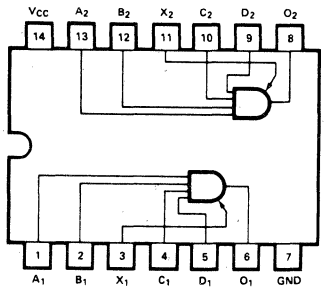
C04-62 Crystal Clock Oscillator



B02-336 J-K Master/Slave Flip-Flop

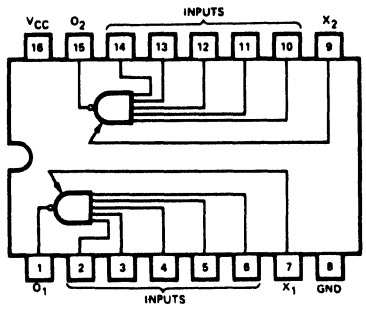


3-90C Dual 4-Input Power and Gate

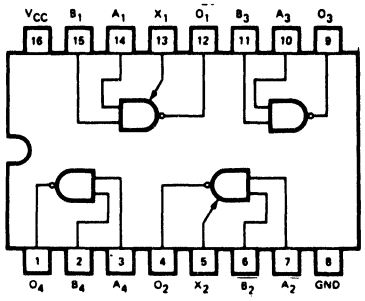


29. CIRCUIT DRAWINGS

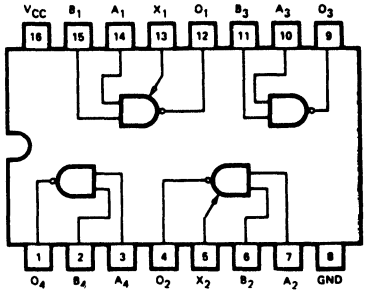
3-01C Dual 5 Input NAND Gate



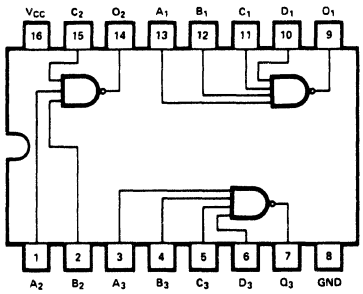
3-02C Quad 2 Input Power Gate



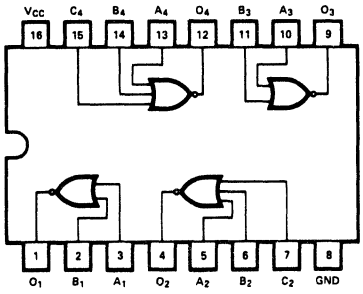
3-03C Quad 2 Input Power Gate



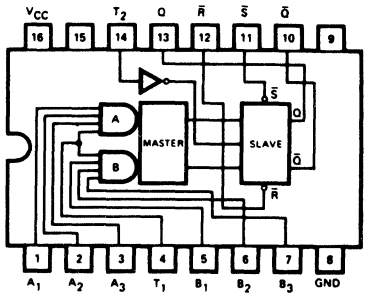
3-04C Triple 4,3,4 Input NAND Gate



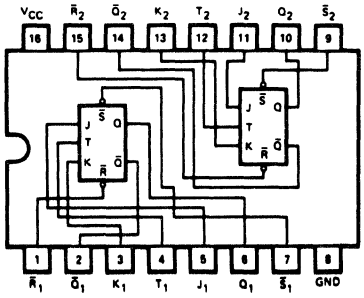
3-06C 2,2,3, Input NOR Gate



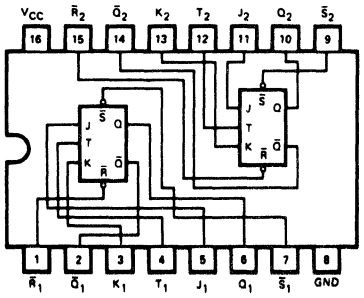
3-11C Master Slave Flip Flop



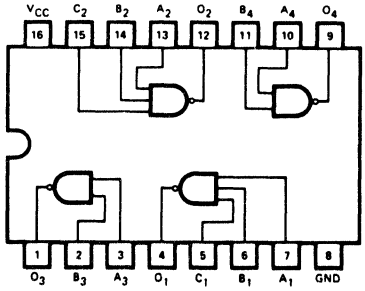
3-12C Dual J-K Flip Flop



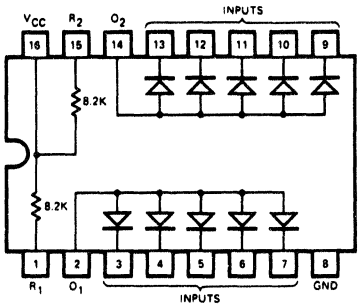
3-13C Dual J-K Flip Flop



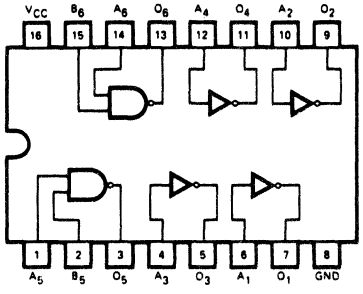
3-25C 2,2,3,3 Input NAND Gate



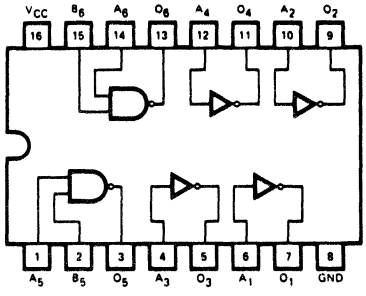
3-31C Dual 5 Input Gate Expander



3-32C Hex Inverter Gate

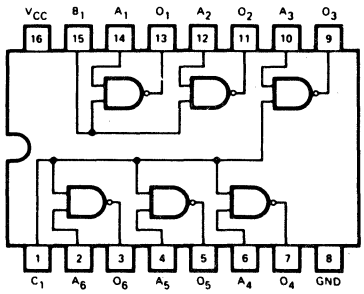


3-33C Hex Inverter Gate

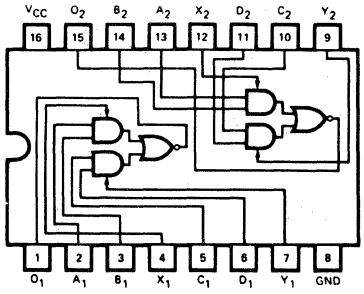


29. CIRCUIT DRAWINGS

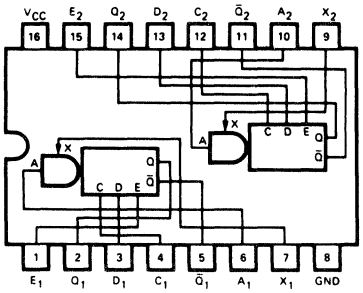
3-34C Strobed Hex Inverter



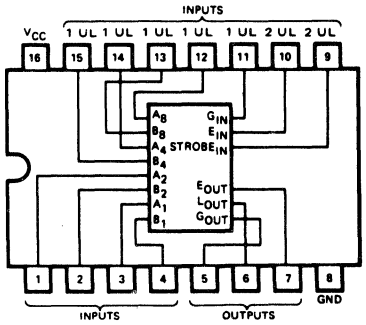
3-41C Dual 2 Wide, 2 Input AND, OR, INVERT Gate



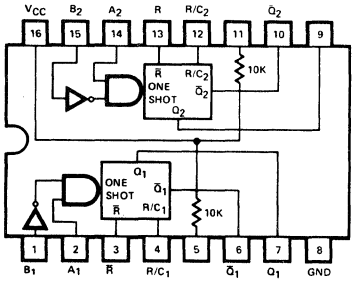
3-42C Dual Monostable Multivibrator



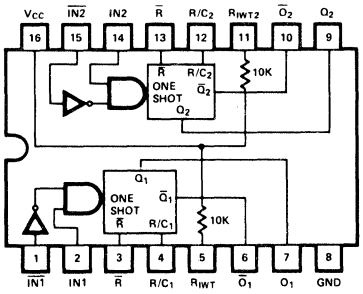
3-43C 4-Bit Comparator



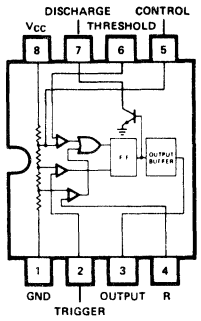
3-47C Dual Retriggerable Monostable Multivibrator



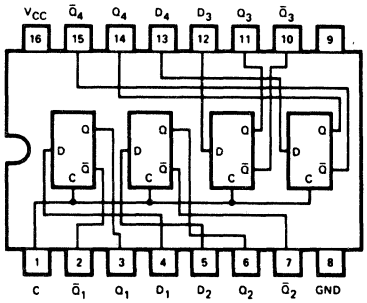
3-49C Dual Retriggerable Pulse Stretcher



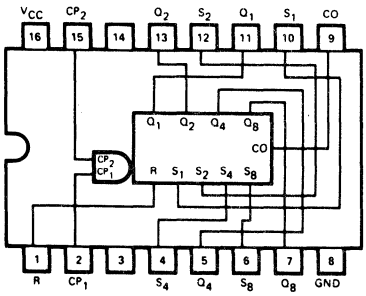
3-55 Timer



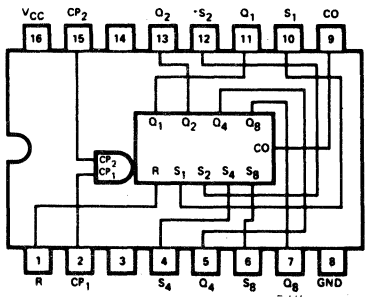
3-70C Quad "D" Flip-Flop



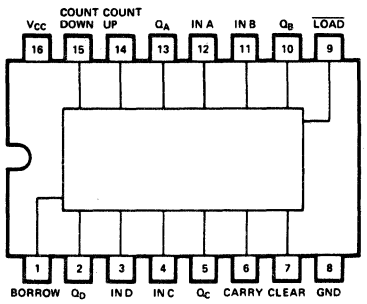
3-71C Decade Counter



3-72C Hexadecimal Counter

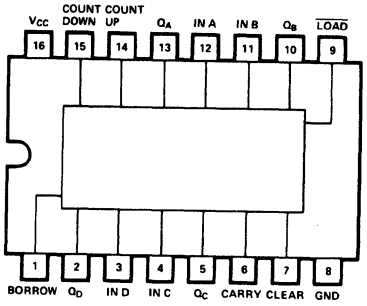


3-73C Decade Up/Down Counter

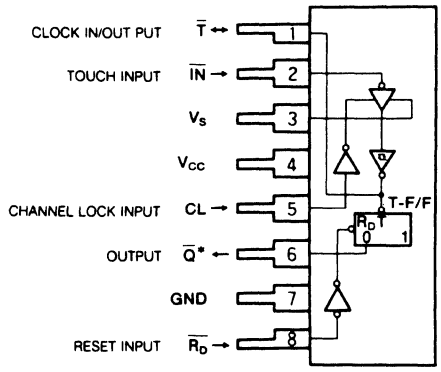


29. CIRCUIT DRAWINGS

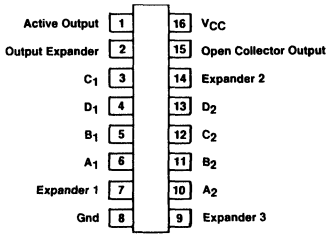
3-74C Hexadecimal Up/Down Counter



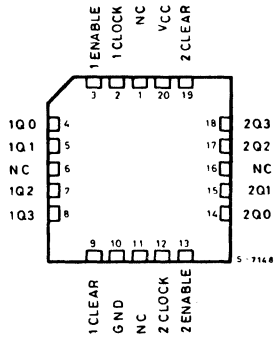
B06-29 Toggle Flip-Flop with Touch Input



3-44C Expandable AND/NOR Gate



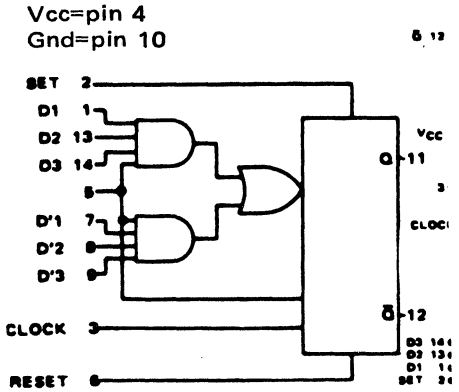
E03-115 Dual Decade Counter



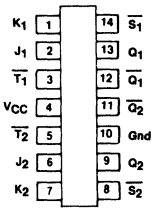
NC = No Internal Connection

4-18P AND Gated D-Type Flip-Flop

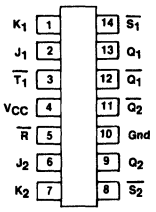
Vcc=pin 4
Gnd=pin 10



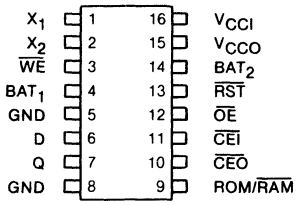
4-23P Dual J-K Flip-Flop



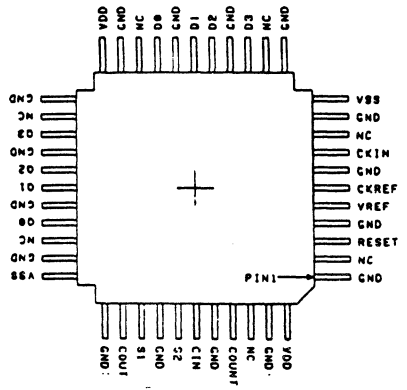
4-24P Dual J-K Flip-Flop



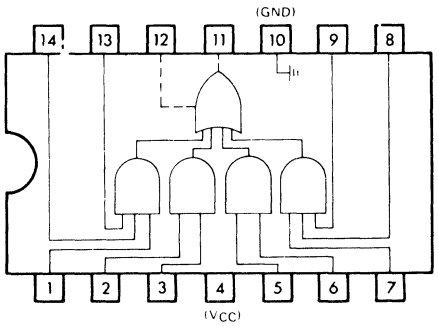
C04-68 Clock Calendar/Controller



E07-21 4-Bit Synchronous Up/Down Counter

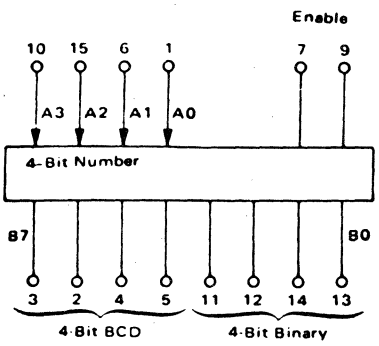


4-12P Quad 2-Input OR Expander

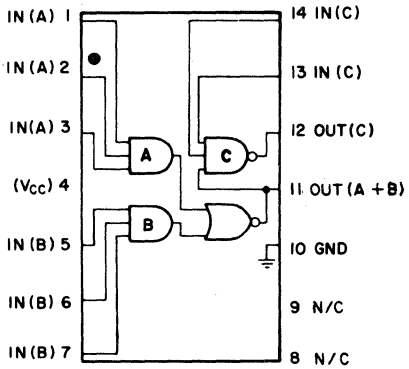


29. CIRCUIT DRAWINGS

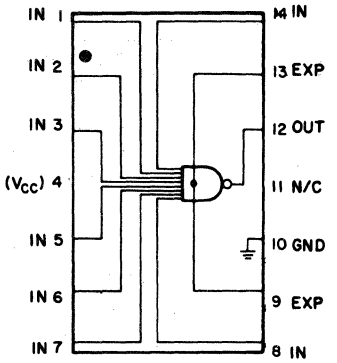
4-001P BCD to Binary/Binary to BCD Number Converter



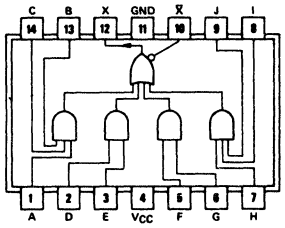
4-03P EXCLUSIVE OR with Gated Complement



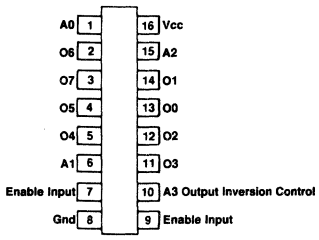
4-06P Expandable 8-Input NAND Gate



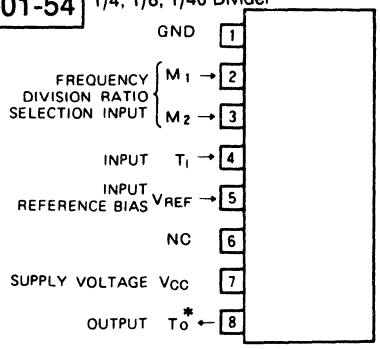
4-09P 4-Wide AND - OR Expanders



4-038P Inverting/Non-Inverting One-of-Eight Decoder

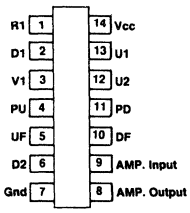


H01-54 1/4, 1/8, 1/40 Divider

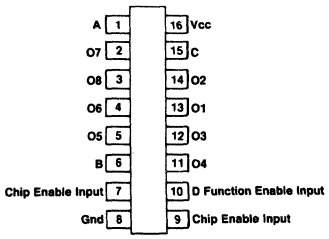


* : OPEN COLLECTOR OUTPUT
NC : NOT CONNECTED

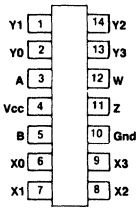
4-044 Phase-Frequency Detector



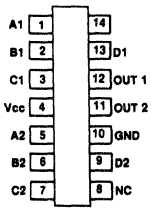
4-048P Non-Inverting One-of-Eight Decoder



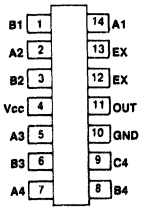
4-000P Dual 4-Channel Data Selector



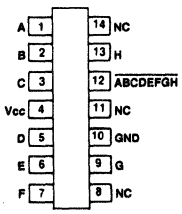
4-00P Dual 4-Input NAND Gate



4-01P Expandable 4 Wide 2-2-2-3 Input AND-OR-Invert Gate

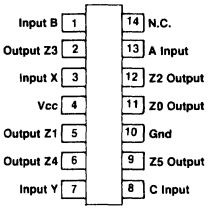


4-02P 8-Input NAND Gate

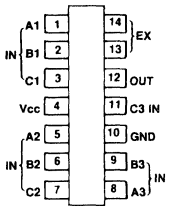


29. CIRCUIT DRAWINGS

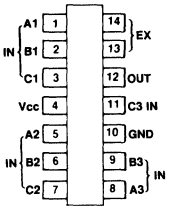
4-002P Dual 4-Bit Parity Tree



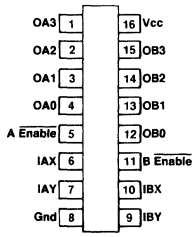
4-04P Expandable 3-Wide, 3-Input AND-OR-Invert Gate



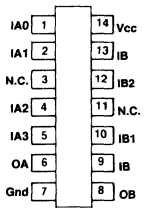
4-05P Expandable 2-Wide, 4-Input, AND-OR-Invert Gate



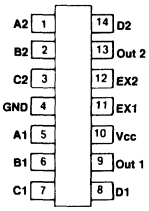
4-007P Dual Binary TO One-of-Four Line | Decoder



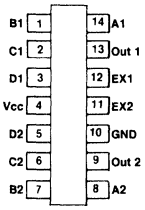
4-010 Dual 4-Bit Parity Tree



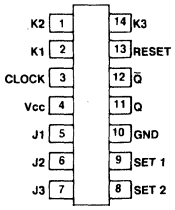
4-10P Dual 4-Input Expander for AND-OR-Invert Gate



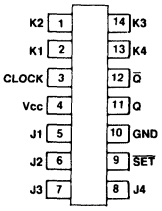
4-11P Dual 4-Input NAND Expander



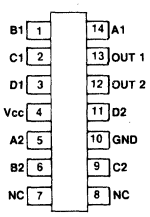
4-15P NAND J-K Flip-Flop



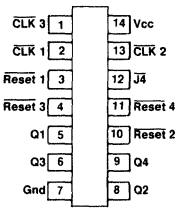
4-16P OR J-K Flip-Flop



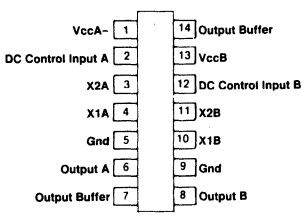
4-20P Expandable Dual 2-Wide, 2-Input AND-OR-Invert Gate



4-023P 4-Bit Universal Counter

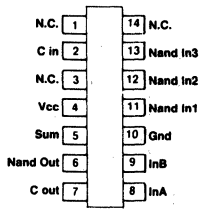


4-024 Dual Voltage-Controlled Multivibrator

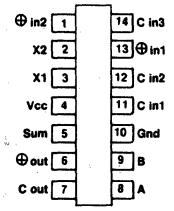


29. CIRCUIT DRAWINGS

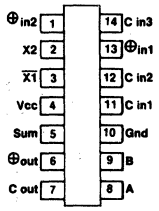
4-026P Full Adder



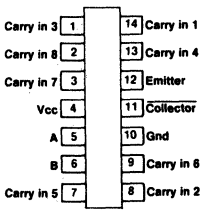
4-028P Dependent-Carry Fast Adder



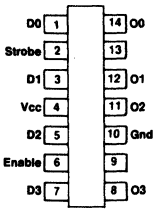
4-030P Independent-Carry Fast Adder



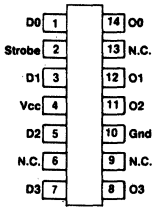
4-032P Carry Decoder



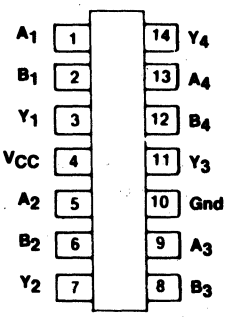
4-035P Quad Latch



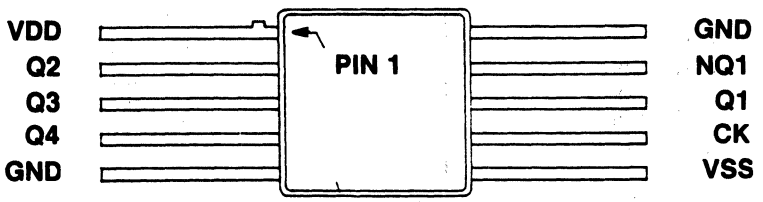
4-037P Quad Latch



4-08P Quad 2-Input NAND Gate

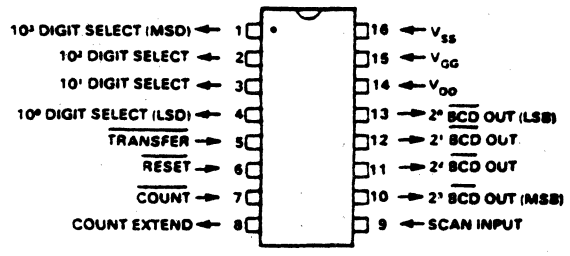


E03-112 Six Decade Counter/Display Decoder



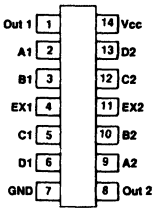
DIMENSIONS IN INCHES

E03-111 4-Digit Counter/Display Decoder

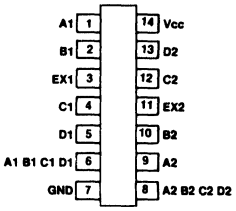


29. CIRCUIT DRAWINGS

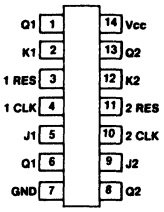
6-60P Dual 4-Input Expander



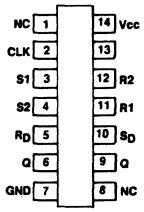
6-63P Expandable Dual 4-Input NAND Gate



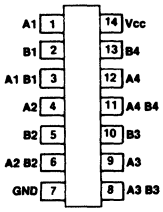
6-64P Dual JK Flip-Flop



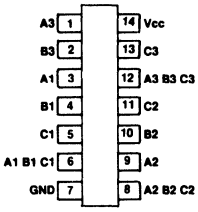
6-68P Master Slave R-S Flip-Flop



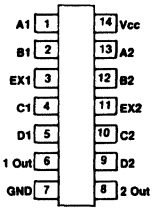
6-69P Quad 2-Input NAND Gate



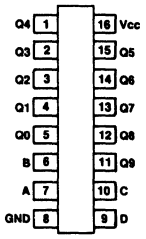
6-70P Triple 3-Input NAND Gate



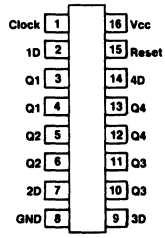
6-73P Dual Expandable AND OR INVERT Gate



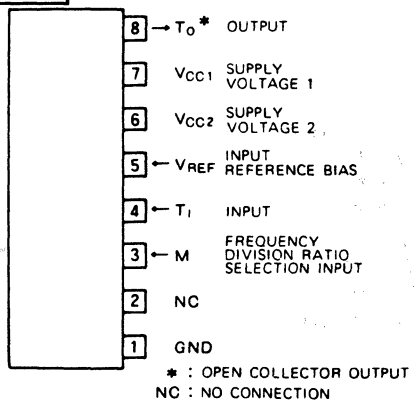
6-76P BCD To Decimal Decoder/Driver



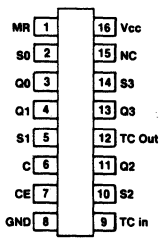
6-82P Quad D Latch



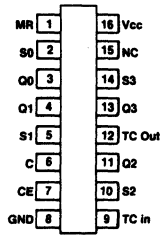
H01-55 1/10, 1/100 Divider



6-84P Decade Counter

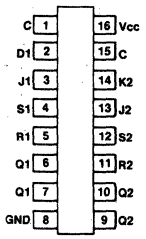


6-85P Binary Counter

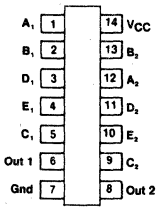


29. CIRCUIT DRAWINGS

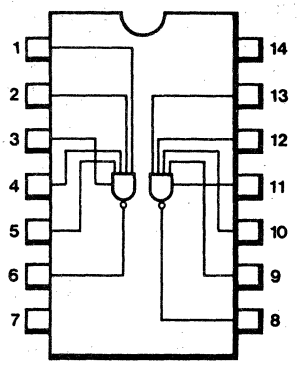
6-88P Dual J-K Flip-Flop



6-75P Dual Pulse Stretcher

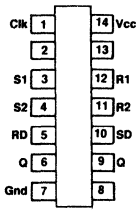


9-30D Expandable Dual 4-Input NAND Gate

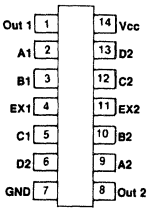


Vcc = Pin 14
GND = Pin 7

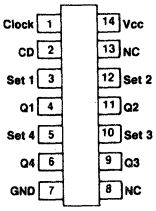
9-31L Clocked Flip-Flop



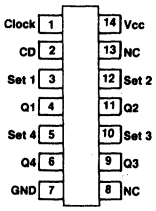
9-33L Dual 4-Input AND Expander



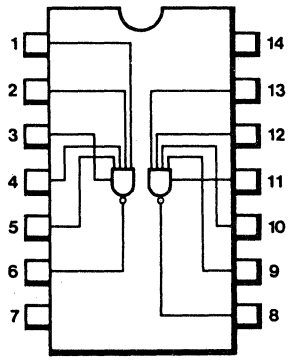
9-38L Presettable Decade Counter



9-39L Presettable Ring Counter

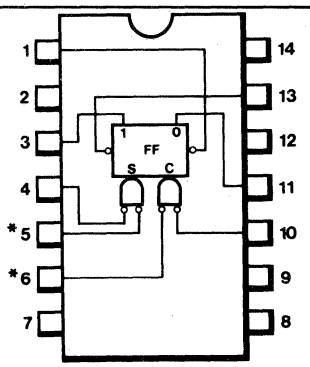


9-44L Expandable Dual 4-Input NAND Gate



Vcc = Pin 14
GND = Pin 7

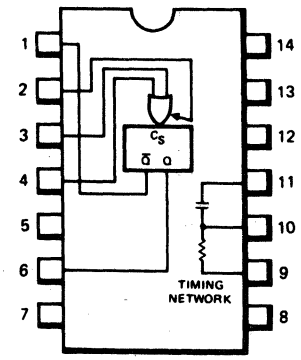
9-50L Pulse Triggered Binary



*These inputs are capacitively coupled.

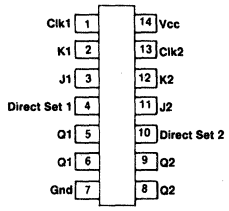
Vcc = Pin 14
GND = Pin 7

9-51L Monostable Multivibrator

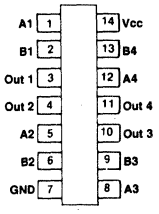


Vcc = Pin 14
GND = Pin 7

9-53L Dual J-K Flip-Flop

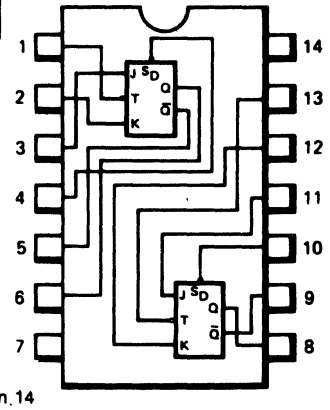


9-57L Quad 2-Input NAND Gate



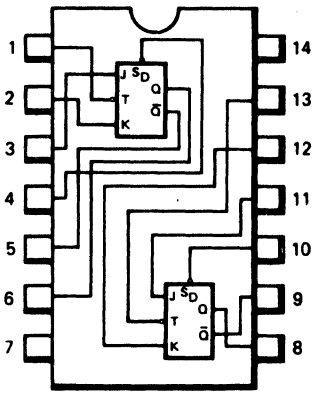
29. CIRCUIT DRAWINGS

9-093D Dual J-K Flip-Flop

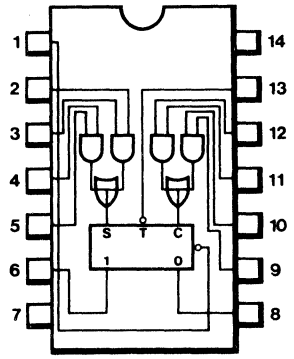


Vcc = Pin 14
GND = Pin 7

9-097D Dual J-K Flip-Flop

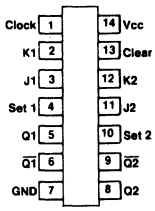


9-111D R-S Flip-Flop

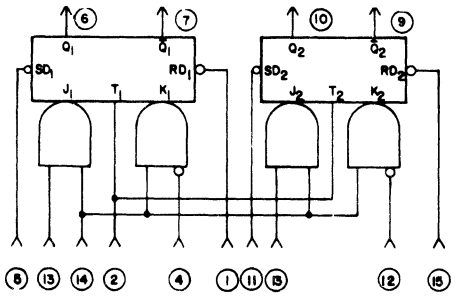


Vcc = Pin 14
GND = Pin 7

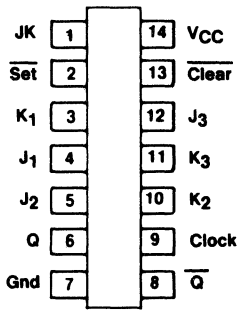
9-52L Dual J-K Flip-Flop with Common Clock and Common Clear



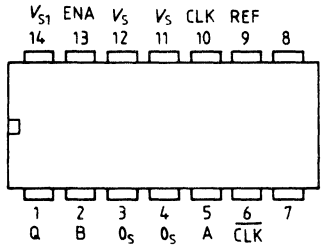
9-020D Dual J-K Flip-Flop



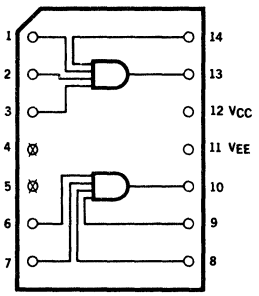
9-000P Gated J-K Flip-Flop



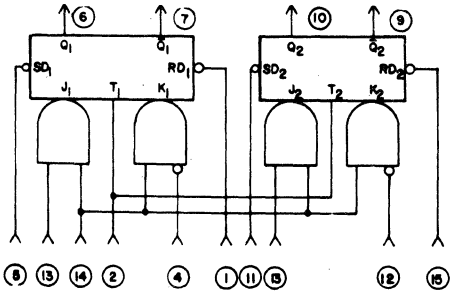
H01-57 Variable Divider



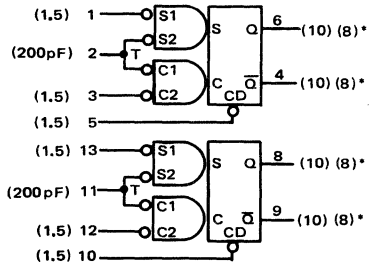
9-54L Dual 4-Input AND Gate



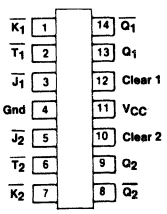
9-022D Dual J-K Flip-Flop



9-60L Dual Pulse Triggered Binary

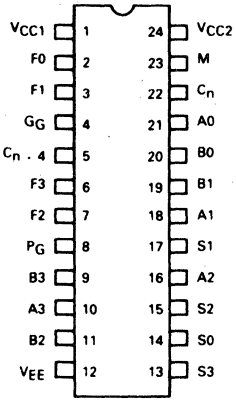


9-722P Dual J-K Flip-Flop

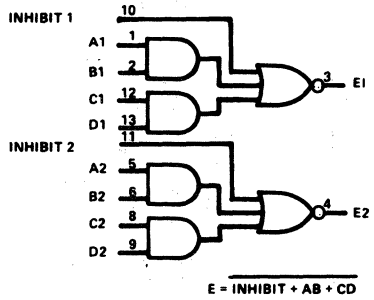


29. CIRCUIT DRAWINGS

10-181 4-Bit Arithmetic Logic Unit/Function Generator

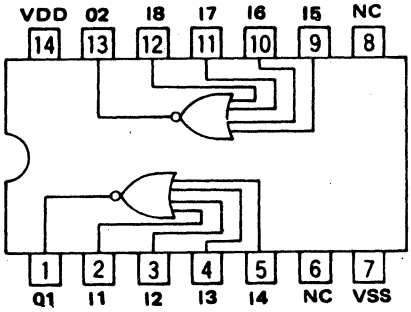


40-85B Dual 2-Wide 2-Input AND-OR-INVERT Gate

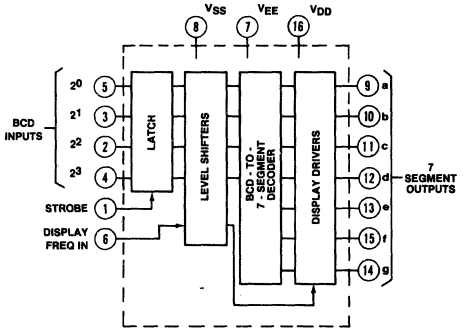


$E = \overline{INHIBIT + AB + CD}$

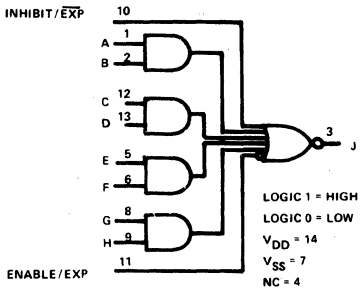
40-02B Dual 4-Input NOR Gate



40-56B BCD-to-7 Segment LCD Latch/Decoder/Driver

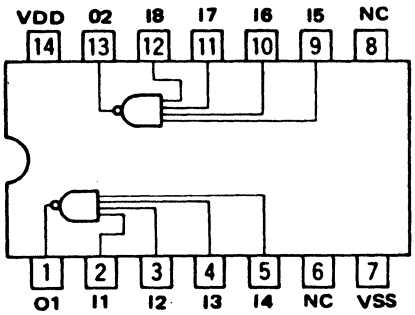


40-86B Expandable 4-Wide 2-Input AND-OR-INVERT Gate

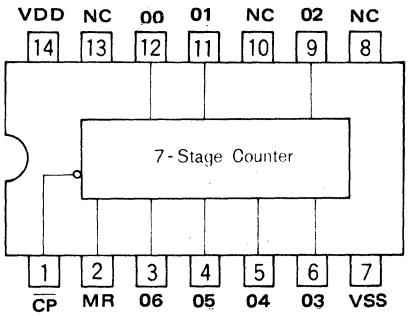


$J = INH + \overline{ENABLE} + AB + CD + EF + GH$

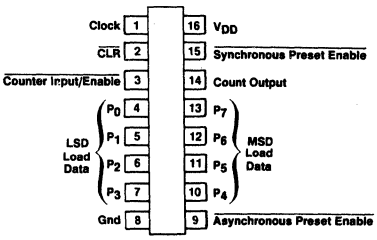
40-12B Dual 4-Input NAND Gate



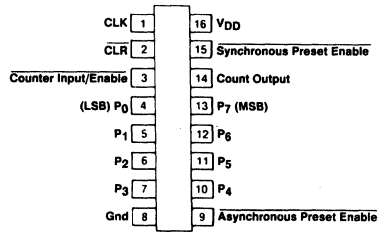
40-24B 7 Stage Ripple Carry Binary Counter/Divider



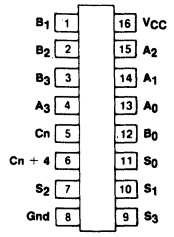
40-102B 8-Stage Decade BCD Synchronous Down Counter



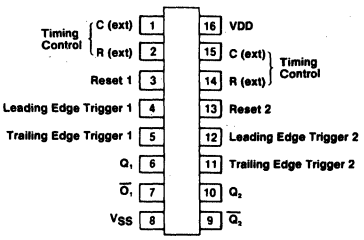
40-103B 8-Bit Binary Synchronous Down Counter



40-583B 4-Bit Full Adder with Fast Carry

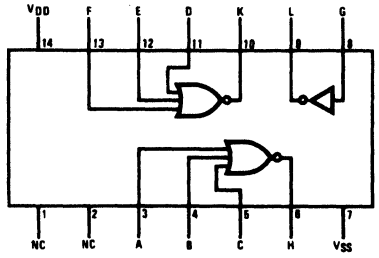


40-98B Dual Monostable Multivibrator

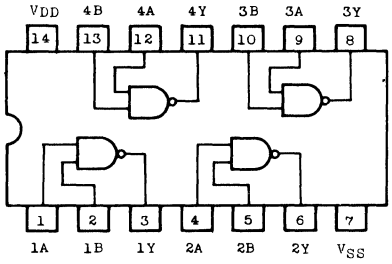


29. CIRCUIT DRAWINGS

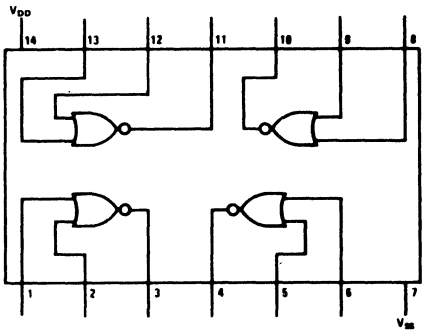
40-00B Dual 3-Input NOR Gates Plus Inverter



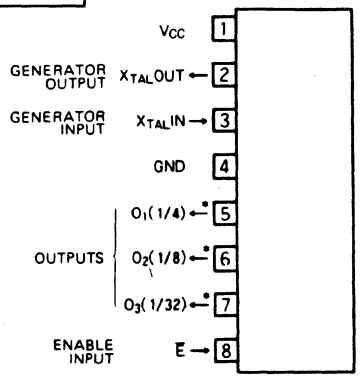
40H000 Quad 2-Input NAND Gate



40-01B Quadruple 2-Input NOR Gates

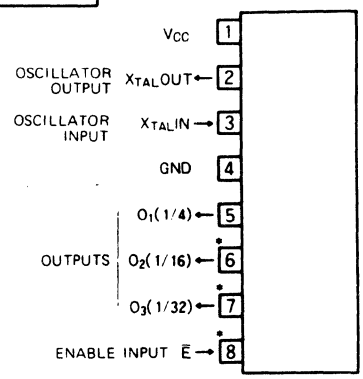


H03-103 1/4, 1/8, 1/32 Divider/Oscillator



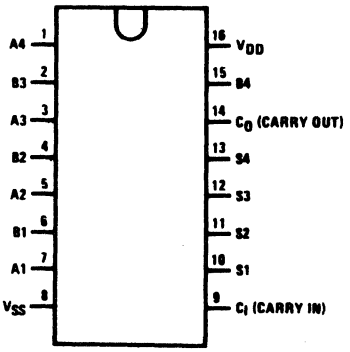
* : INDICATES OPEN COLLECTOR

H03-104 1/4, 1/16, 1/32 Divider/Oscillator

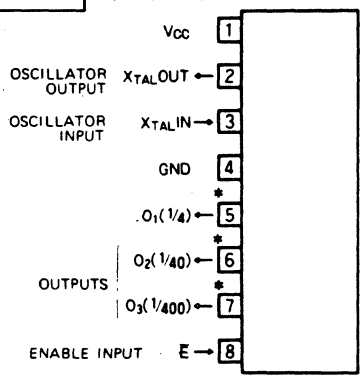


* : OPEN COLLECTOR OUTPUT

40-08B 4-Bit Full Adder with Parallel Carry Out

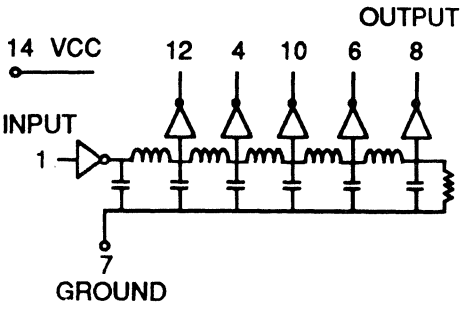


H03-105 1/4, 1/40, 1/400 Divider/Oscillator

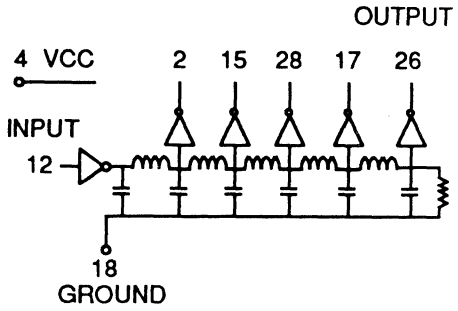


* : OPEN COLLECTOR

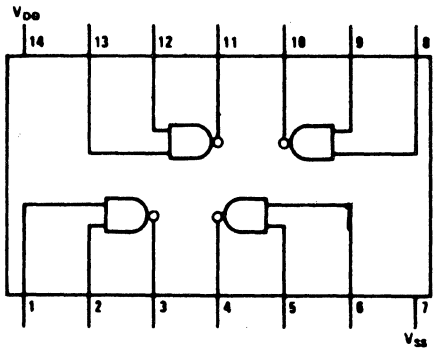
J02-38 5 Tap Delay



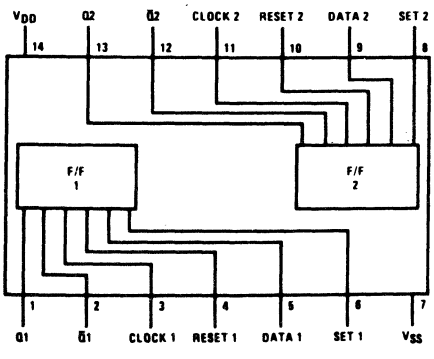
J02-39 5 Tap Delay



40-11B Quad 2-Input NAND Gate

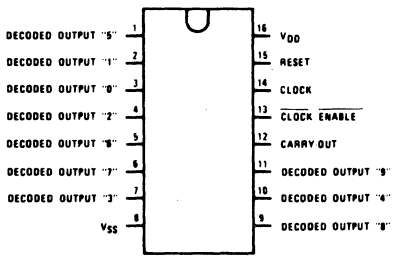


40-13B Dual D Type Flip-Flop with Set/Reset Capability

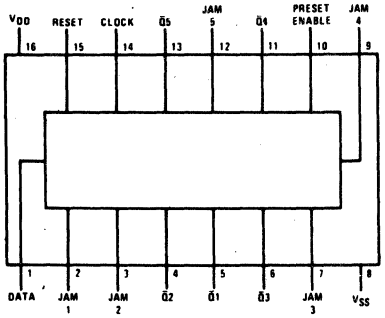


29. CIRCUIT DRAWINGS

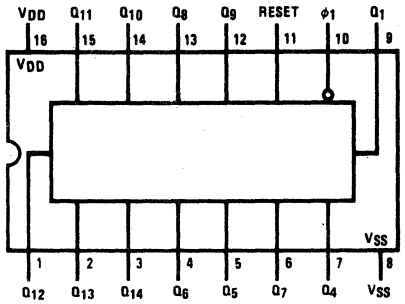
40-17B Decade Counter/Divider with 10 Decoded Outputs



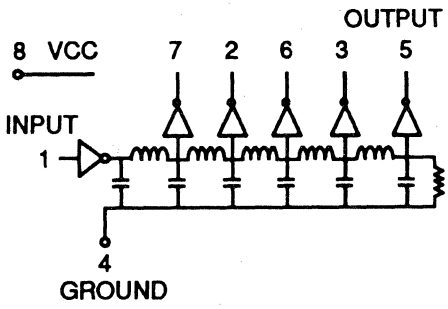
40-18B Presettable Divide by-N Counter



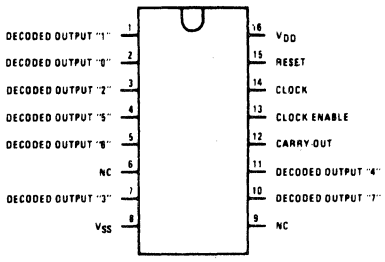
40-20B 14-Stage Ripple Carry Binary Counter



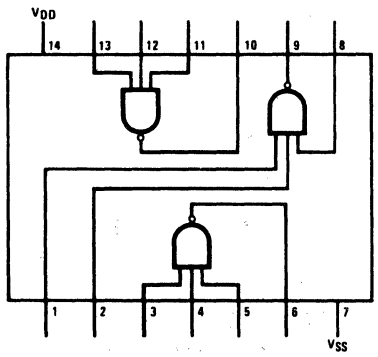
J02-40 5 Tap Delay



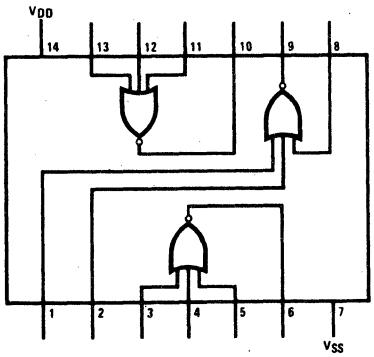
40-22B Divide-by-8 Counter/Divider (with 8 Decoded Outputs)



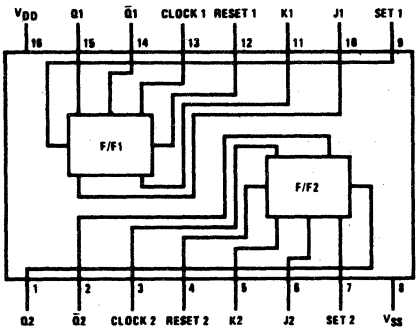
40-23B Triple 3-Input NAND Gate



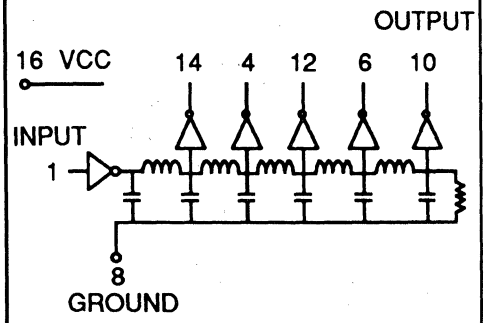
40-25B Triple 3-Input NOR Gates



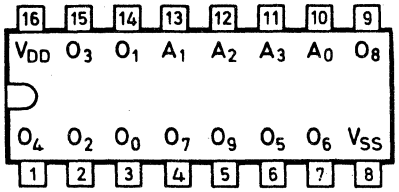
40-27B Dual J-K Master/Slave Flip-Flop with Set and Reset



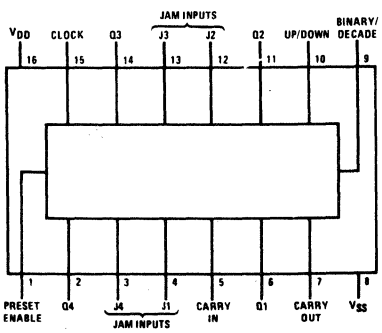
J02-42 5 Tap Delay



40-28B BCD to Decimal Decoder

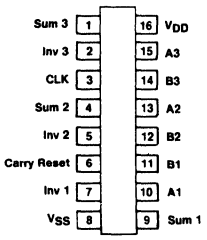


40-29B Presettable Synchronous Up/Down Counter, Binary or BCD Decade

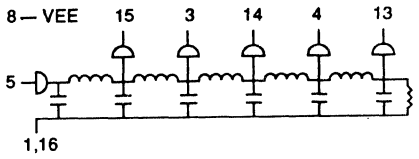


29. CIRCUIT DRAWINGS

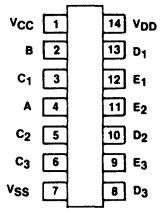
40-32B Triple Adder



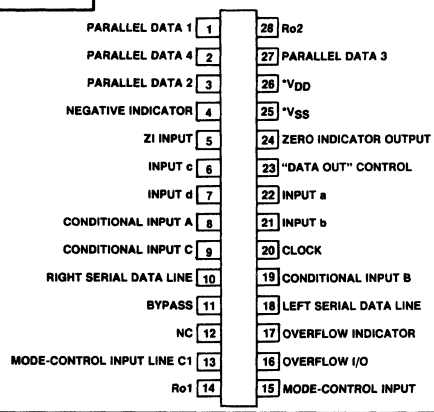
J02-43 5 Tap Delay



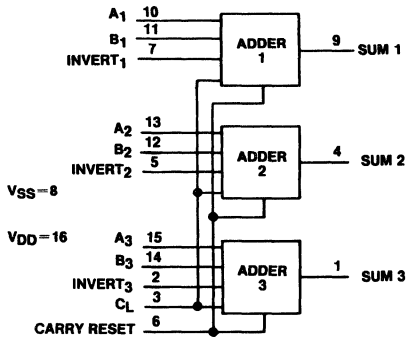
40-37A Triple AND/OR Bi-phase Pair AND/OR Gate



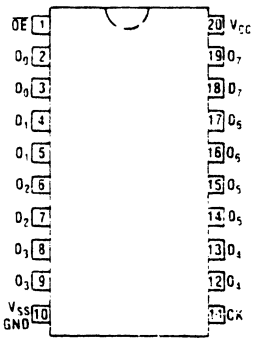
40-57A 4-Bit Arithmetic Logic Unit



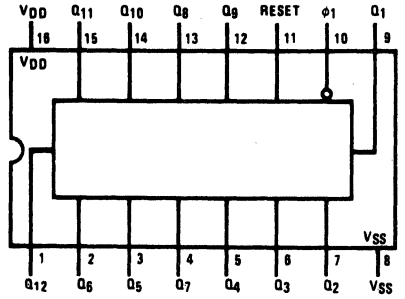
40-38B Serial Tripple Adder with Negative Logic



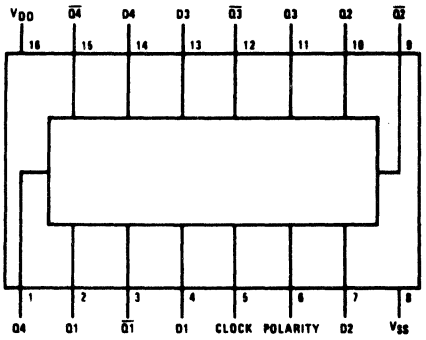
40-374 Octal D-Type Flip-Flop



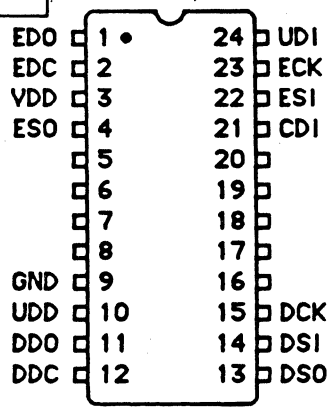
40-40B 12-Stage Ripple Carry Binary Counter/Divider



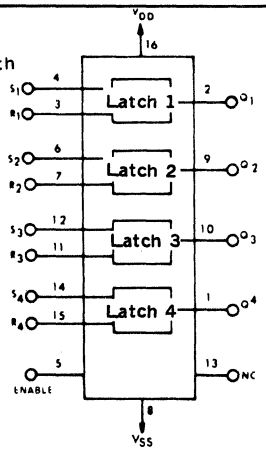
40-42B Quad Clocked D Type Latch



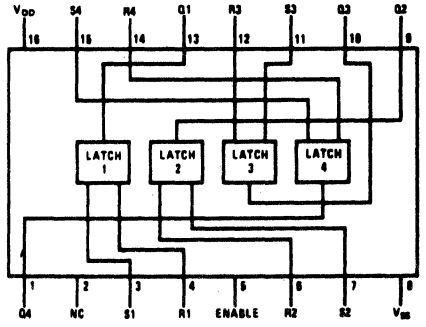
K07-47 Error Detection/Correction Circuit



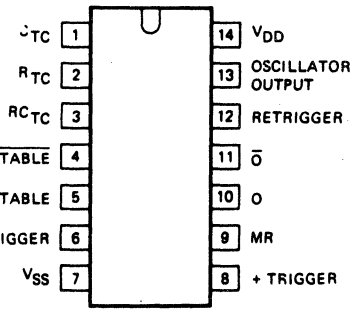
40-43B Quad R-S Latch with 3-State Outputs



40-44B Quad NAND R/S Latch with 3-State Outputs

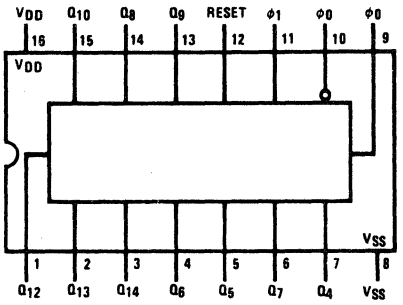


40-47 Low-Power Monostable/ Astable Multivibrator

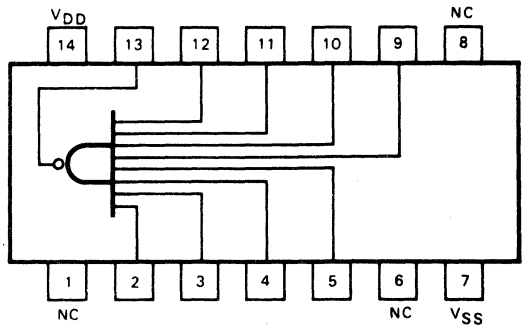


29. CIRCUIT DRAWINGS

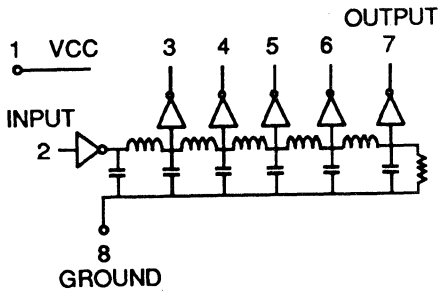
40-60B 14-Stage Ripple-Carry Binary Counter/Divider



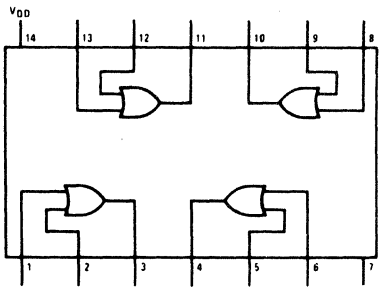
40-68B 8-Input NAND Gate



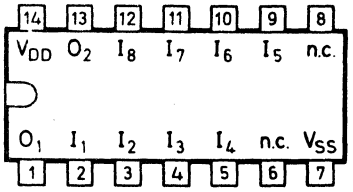
J02-41 5 Tap Delay



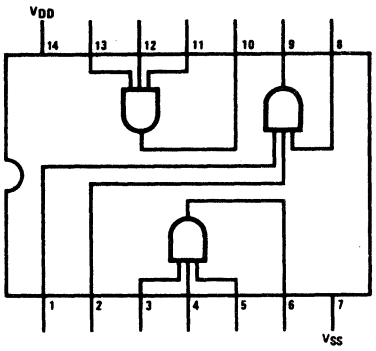
40-71B Quad 2-Input OR Buffered Gate



40-72B Dual 4-Input OR Gate

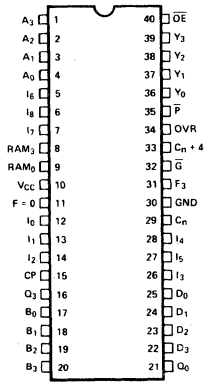


40-73B Double Buffered Triple 3-Input AND Gate

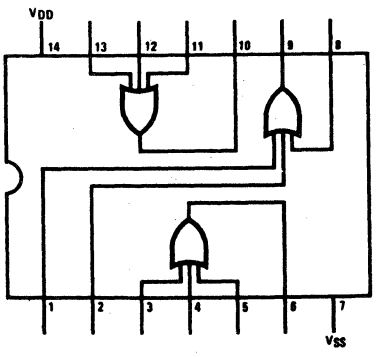


U0025 4-Bit Slice (ALU)

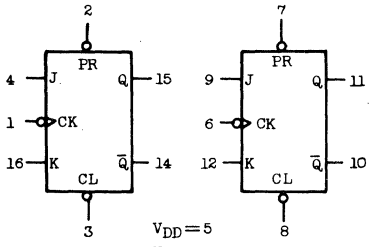
Top View



40-75B Double Buffered Triple 3-Input OR Gate

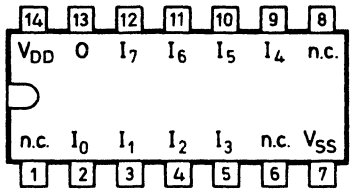


40H076 Dual J-K Flip-Flop

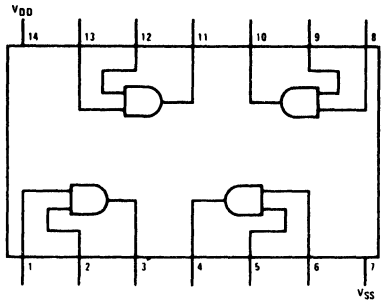


29. CIRCUIT DRAWINGS

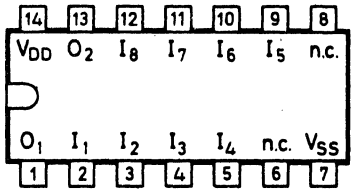
40-78B 8-Input NOR Gate



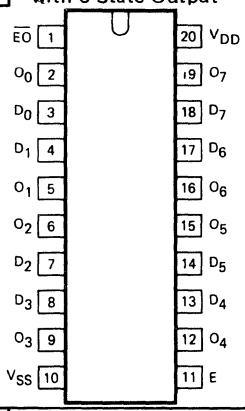
40-81B Quad 2-Input AND Buffered Gate



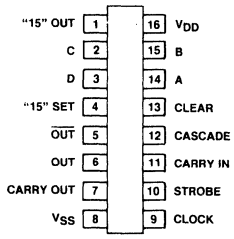
40-82B Dual 4-Input and Gate



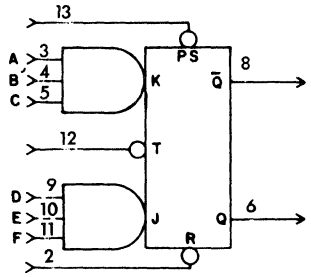
40-373 Octal D-Typ Transparent Latch with 3-State Output



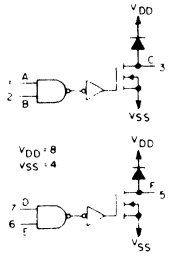
40-89B Binary Rate Multiplier



40-95B Gated J-K Flip-Flop with Non-inverting Inputs

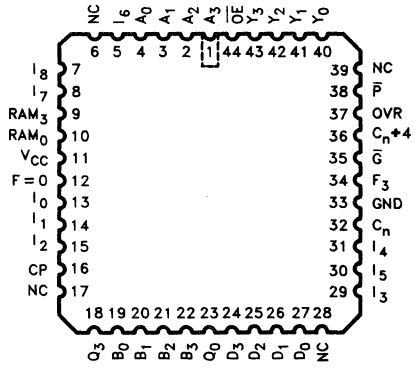


40-107B Dual 2-Input NAND Buffer/Driver

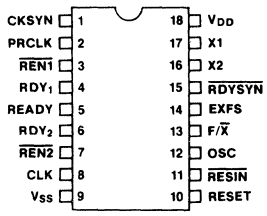


U0026 4-Bit ALU

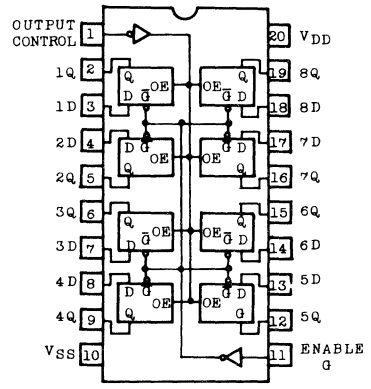
Top View



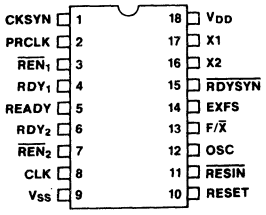
71IT084



40H373 Octal D-Type Flip-Flop with 3-State Output

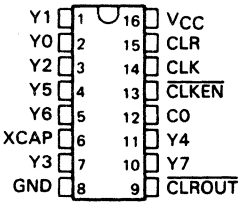


71AS011

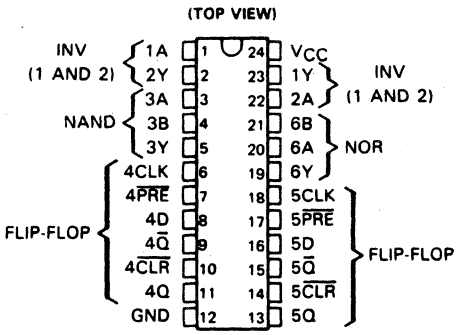


29. CIRCUIT DRAWINGS

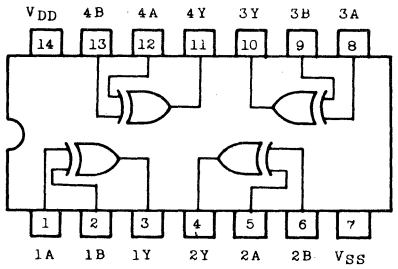
74HC7022 — Octal Counter/Divider with Power-up Clear



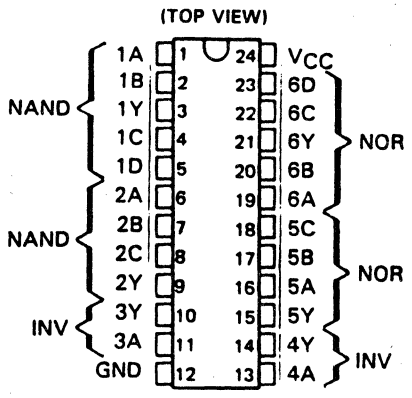
74HC7074 — 6-Section Multifunction (NAND, INVERT, NOR, Flip-Flops)



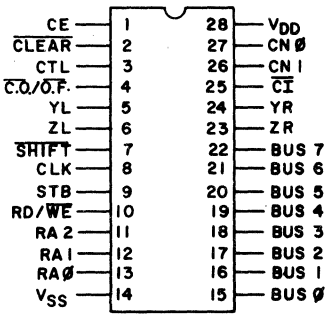
40H386 — Quad 2-Input Exclusive—OR Gate



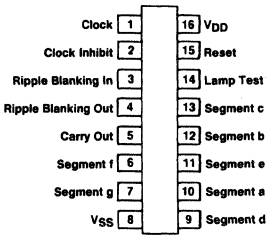
74HC7006 — 6-Section Multifunction (NAND, INVERT, NOR) Circuits



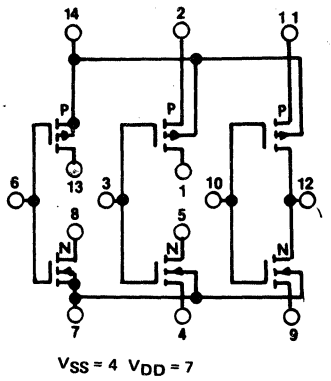
X00-27 — 8-Bit Multiplier/Divider



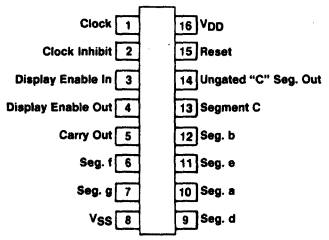
40-33B — Decade Counter/Divider with 7-Segment Display Outputs and Ripple Blanking



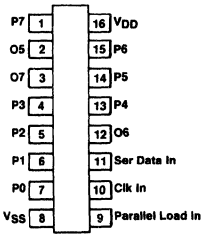
40-07A — Dual Complimentary Pair Plus Inverter



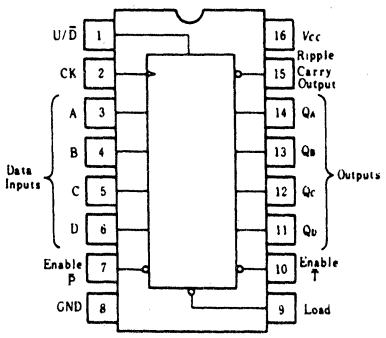
40-26B — Decade Counter/Divider with 7-Segment Display Outputs and Display Enable



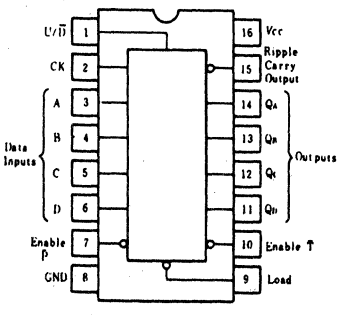
40-21B — 8-Bit Static Shift Register



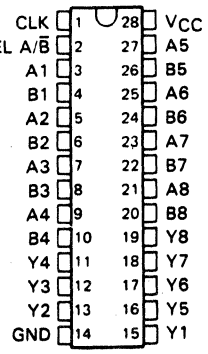
74HC669 — Synchronous Up/Down 4-bit Binary Counter



74HC668 — Synchronous Up/Down Decade Counter

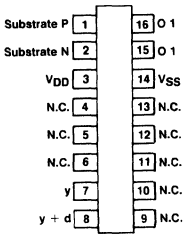


74HC604 — Octal 2-Input Multiplexed Latches with 3-Stats

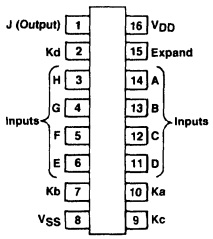


29. CIRCUIT DRAWINGS

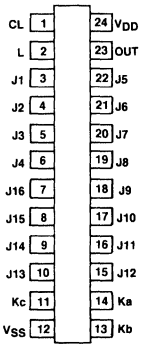
40-45 21-Stage Counter



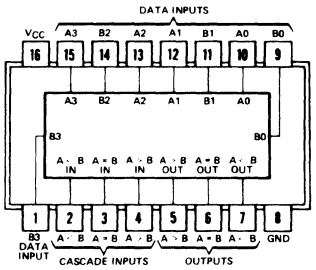
40-48 Multifunction Expandable 8-Input



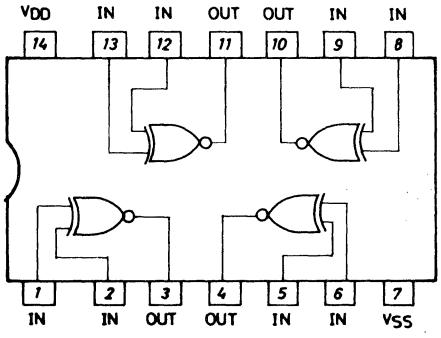
40-59A Programmble Divide-by-"N" Counter



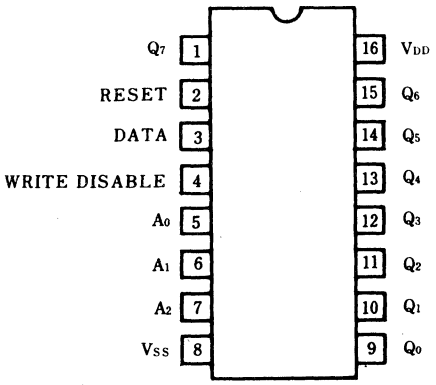
40-63B 4-Bit Magnitude Comparator



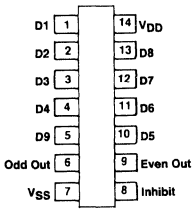
40-77 Quad 2 Input Exclusive NOR Gate



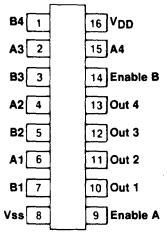
40-99 8-Bit Addressable Latch



40-101B 9-Bit Parity Generator/Checker

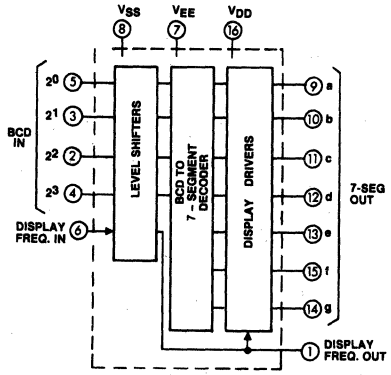


40-19B Quad AND-OR Select Gate

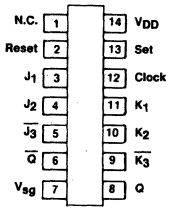


29. CIRCUIT DRAWINGS

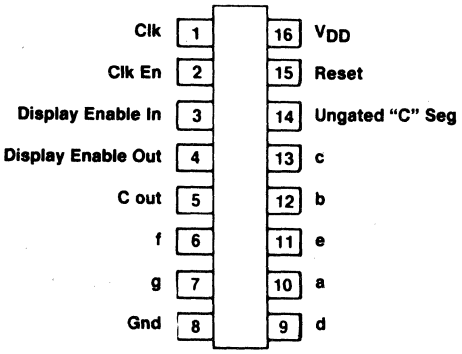
40-55B BCD-To-7-Segment Decoder/Driver with "Display-Frequency" Output Liquid Crystal Display



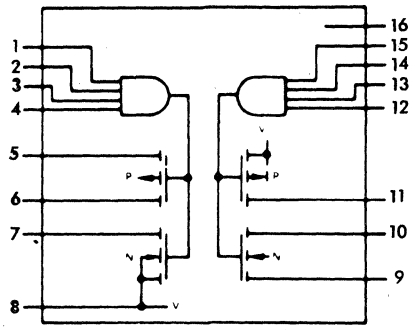
40-96B Gated J-K Master/Slave Flip-Flop with Inverting and Non-Inverting J and K Inputs



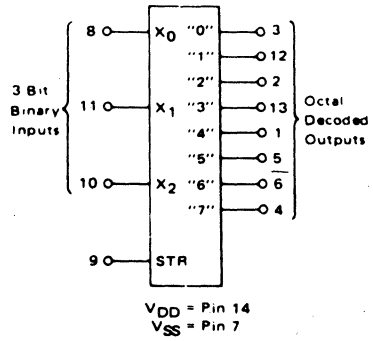
44-26A Decade Counter/Divider – 7-Segment Display Output and Display Enable



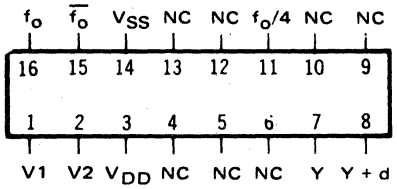
44-12B Dual 4-Input NAND Gates with Uncommitted Output Transistors



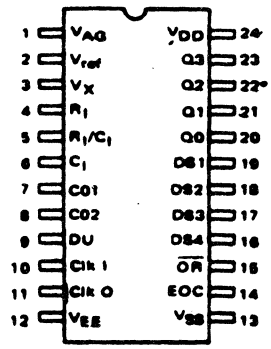
44-28B Binary-to-Octal Decoder Counter with Asynchronous



44-45B 21-Stage Divider

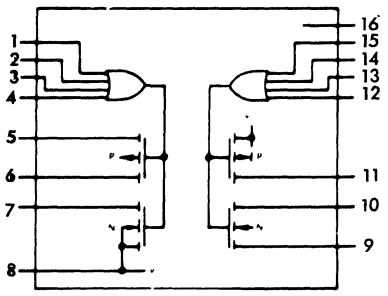


44-33A Decade Counter with 7-Segment Display Driver

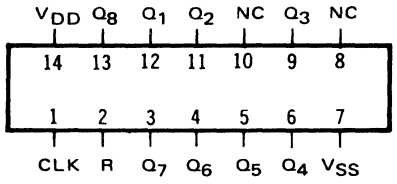


29. CIRCUIT DRAWINGS

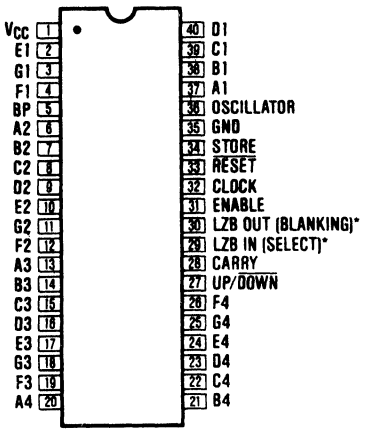
44-02B



44-04B 8-Stage Binary Counter



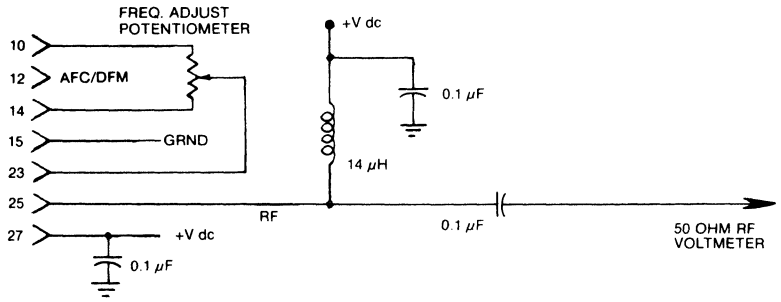
74MM945 4 Digit Up/Down Counter/Decoder/Driver



*Note:

PIN #	MM74C945 FUNCTION	MM74C947 FUNCTION
29	Select	LZB In
30	Blanking	LZB Out

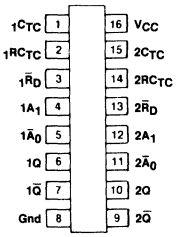
C04-66 Temperature-Compensated Crystal Oscillator



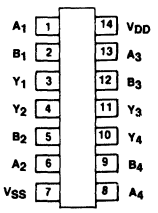
PIN	CONNECTION
12	Modulation
15	Ground
25	R.F. Output
27	+V dc
10, 14, 23	Frequency adjust, potentiometer connections (SEE NOTE)

Note: Pin #23 is center tap of potentiometer. Remaining unidentified terminals are for internal calibration only.

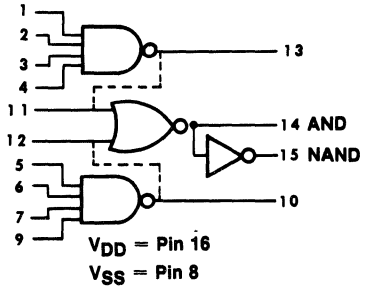
45-38B Dual Retriggerable Monostable Multivibrator



45-71A Quad 2-Input AND Gate



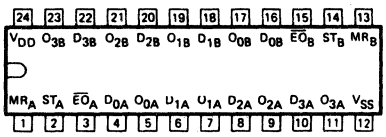
45-01A Triple Gate – Dual 4-Input NAND, 2-Input OR/NOR, or 8-Input AND/NAND Gate



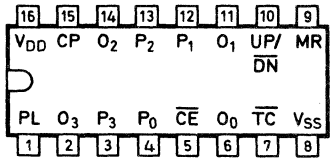
Note: Pin 14 must not be used as an input to the inverter.

29. CIRCUIT DRAWINGS

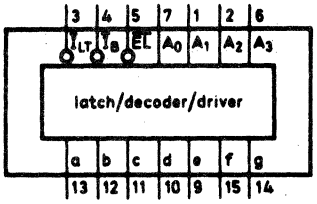
45-08B Dual 4-Bit Latch



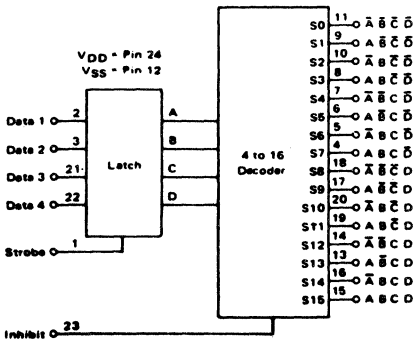
45-10B BCD Presettable Up/Down Counter



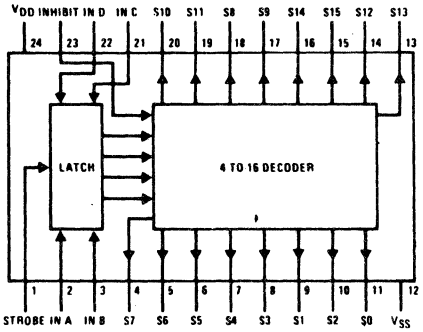
45-11B BCD-to-7-Segment Latch/Decoder/Driver



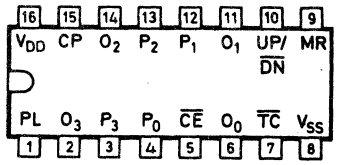
45-14B 4-Bit Latch/4-to-16 Line Decoder Active High)



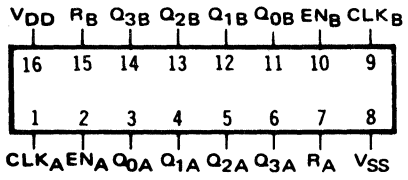
45-15B 4-Bit Latch/4-to-16 Line Decoder (Active Low)



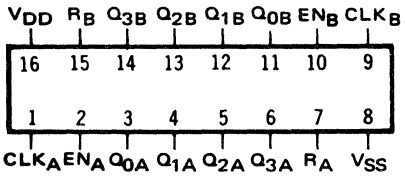
45-16B Binary Presettable Up/Down Counter



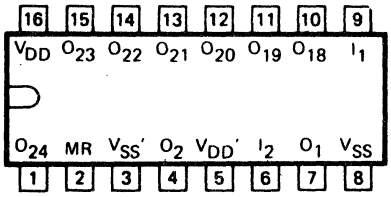
45-18B Dual BCD UP Counter



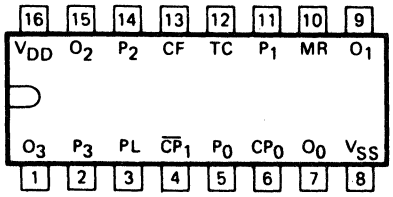
45-20B Dual Binary UP Counter



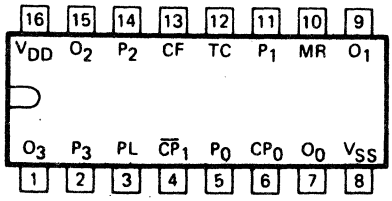
45-21B 24-Stage Frequency Divider



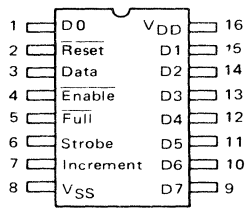
45-22B Programmable 4-Bit BCD Down Counter



45-26B Programmable 4-Bit Binary Down Counter

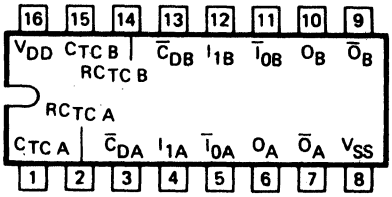


45-97B 8-Bit Internal Counter Addressable Latch

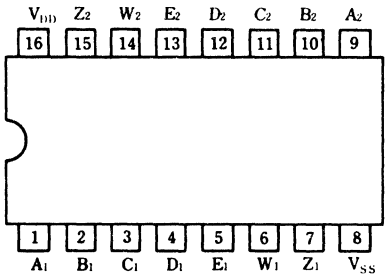


29. CIRCUIT DRAWINGS

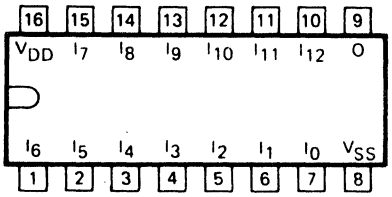
45-28B Dual Monostable Multivibrator



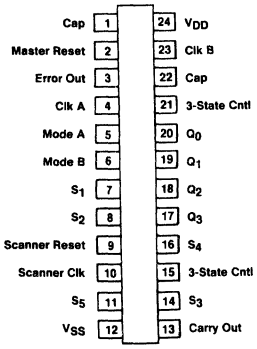
45-30B Dual 5 Input Majority Logic Gate



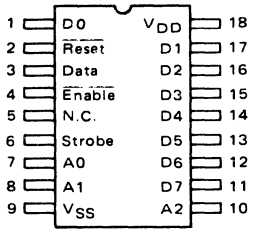
45-31B 13-Input Parity Checker/Generator



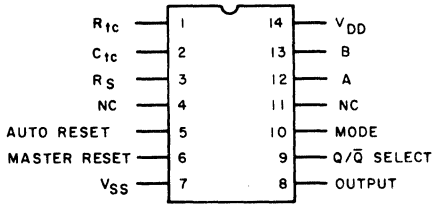
45-34B Real Time 5 Decade Counter



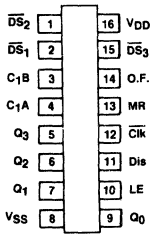
45-98B 8-Bit Addressable Latch



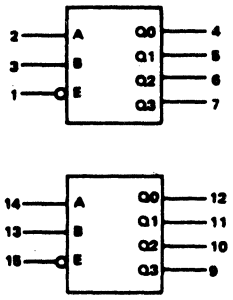
45-41B Programmable Timer



45-53B 3 Decade Counter with Multiplexed Output

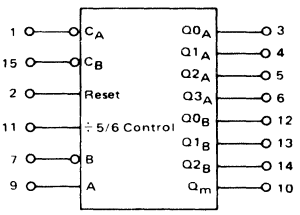


45-55B Dual Binary to 1-of-4 Decoder



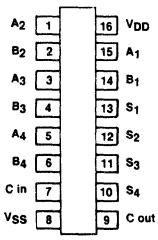
VDD = Pin 16
VSS = Pin 8

45-66B Industrial Time Base Generator

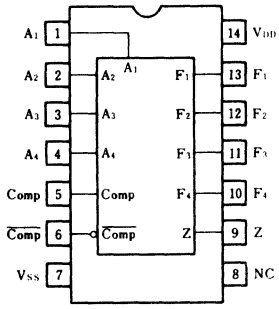


VDD = Pin 16
VSS = Pin 8

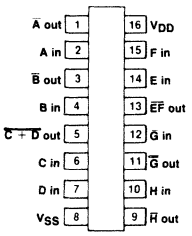
45-60B BCD Adder



45-61B 9's Complementer

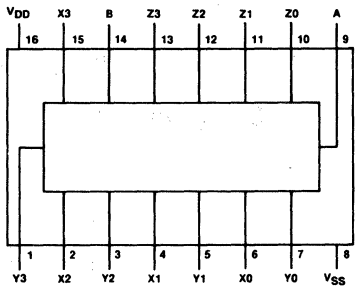


45-72U Hex Gate, 4-Inverters, 2-Input NAND, 2-Input NOR

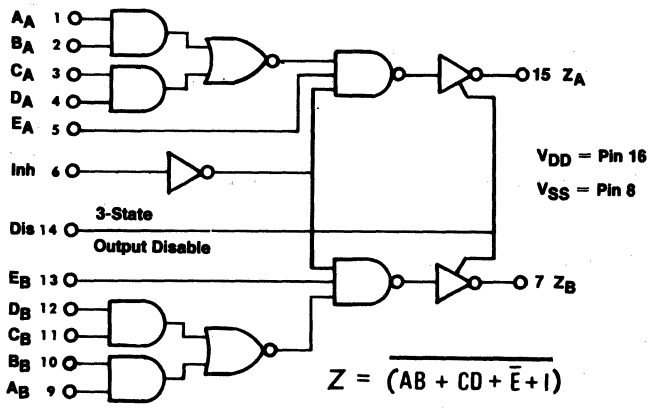


29. CIRCUIT DRAWINGS

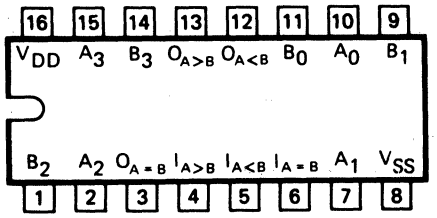
Quad AND-OR-Select Gate



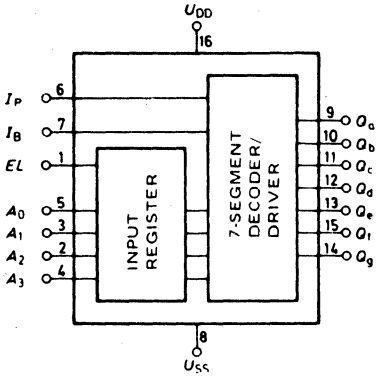
45-06B Dual Expandable AND-OR-INVERT Gate



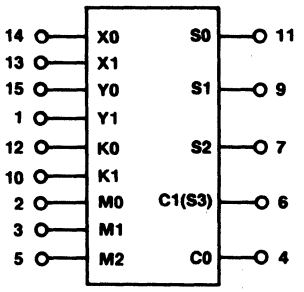
45-85B 4-Bit Magnitude Comparator



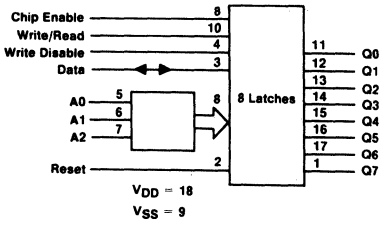
45-43B BCD-to-7-Segment Latch/Decoder/Driver



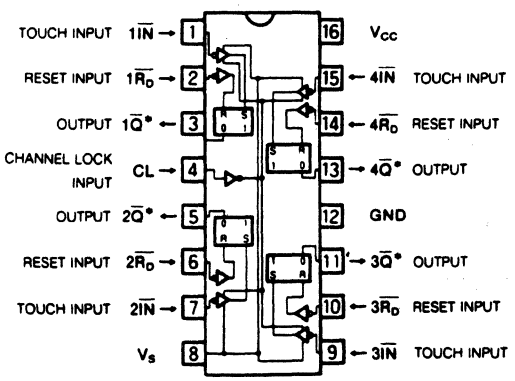
45-54B 2-Bit by 2-Bit Parallel Binary Multiplier



45-99B 8-Bit Addressable Latch with Bidirectional Data Port

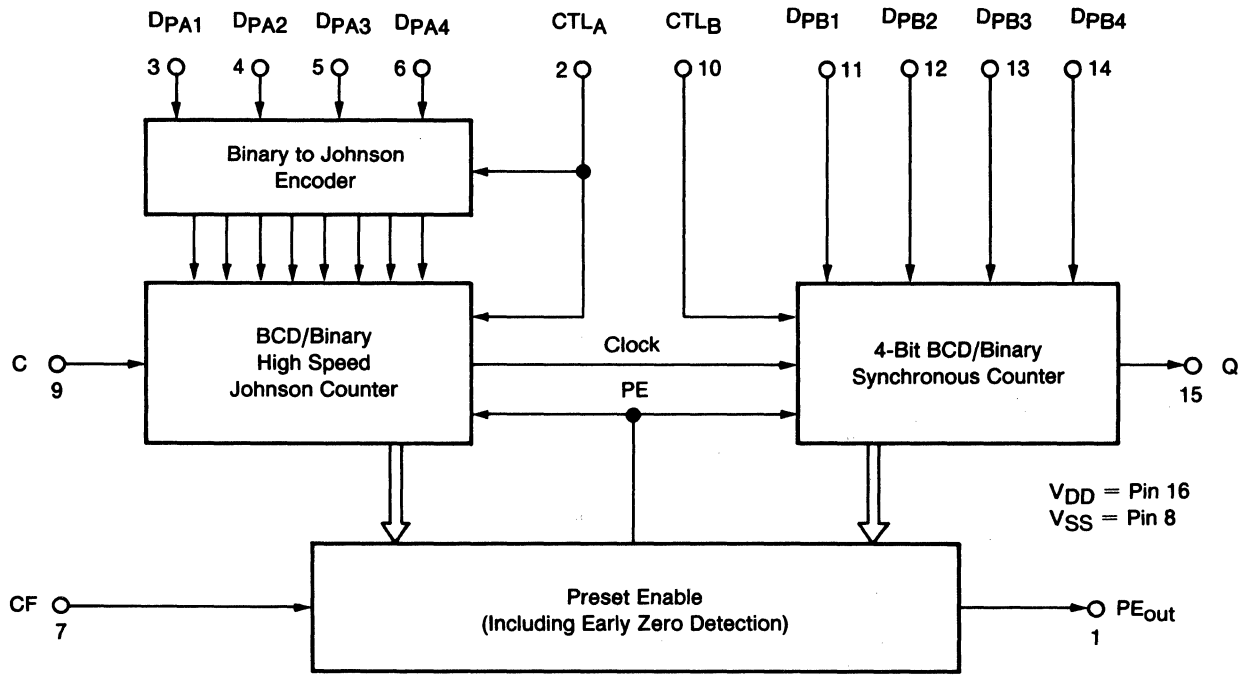


B03-155 Quad R-S Flip-Flop with Touch Input

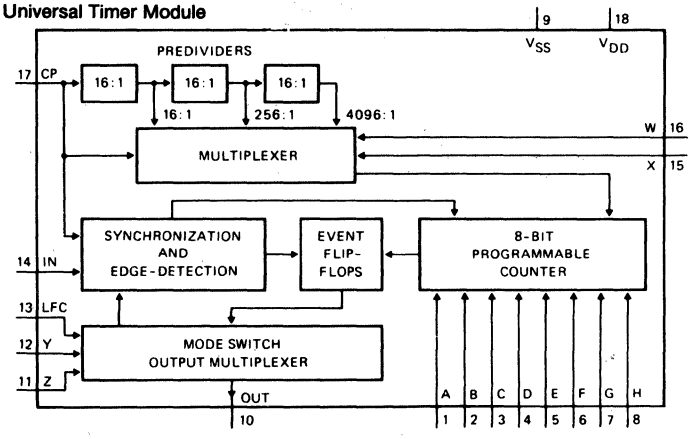


29. CIRCUIT DRAWINGS

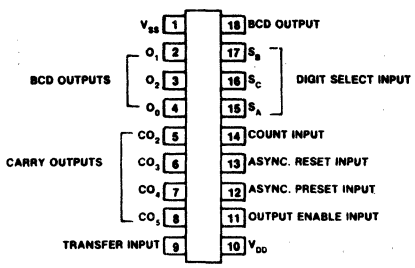
45-69B Programmable Divide-by-N Dual 4-Bit BCD/Binary Counter



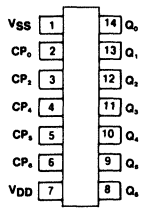
47-53B Universal Timer Module



47-37B Quad Static Decade Counter

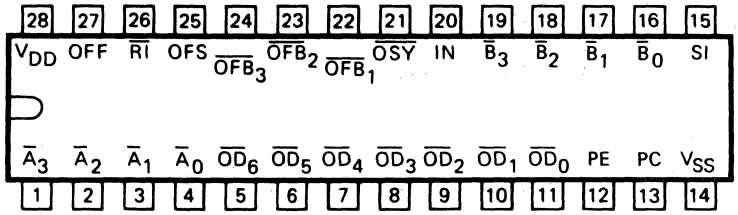


47-27B 7-Stage Counter

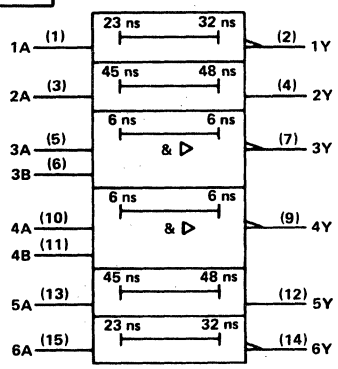


29. CIRCUIT DRAWINGS

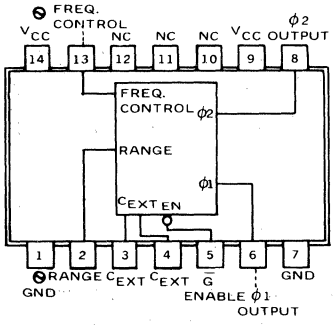
47-51 Universal Divider



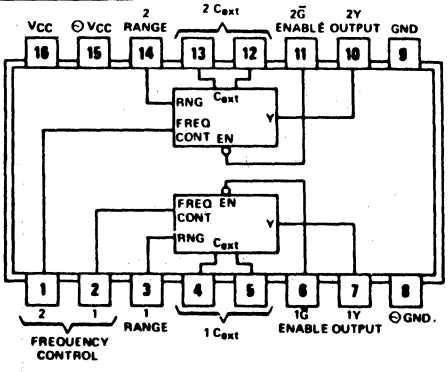
54LS31W Delay Element



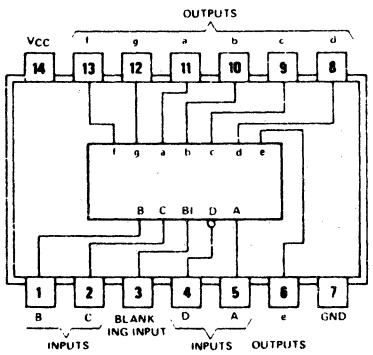
54LS624W Voltage Controlled Oscillator



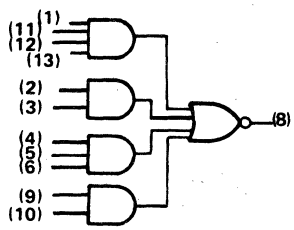
54LS629W Dual Voltage Controlled Oscillator



54LS49W BCD-To-7-Segment Decoder/Driver with Open-Collector Outputs

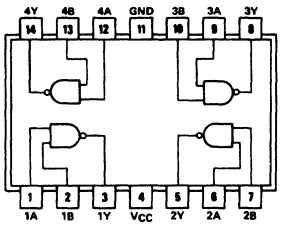


54S65W 4-2-3-2 Input AND-OR-INVERT Gate

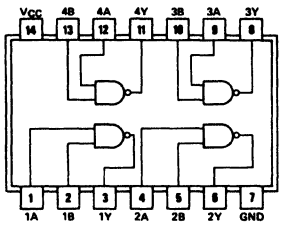


29. CIRCUIT DRAWINGS

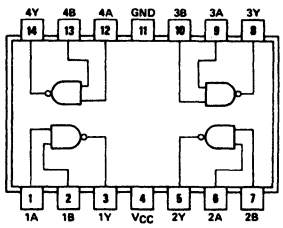
54-00W Quad 2-Input NAND Gates



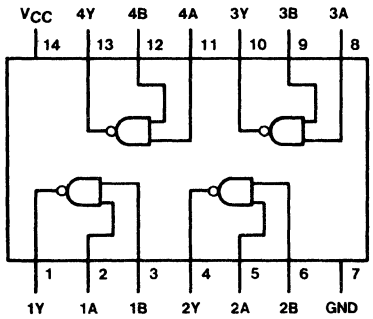
54S00W Quad 2-Input NAND Gates



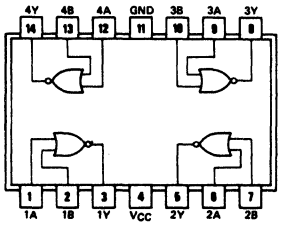
54-01W Quad 2-Input NAND Gates with Open Collector Output



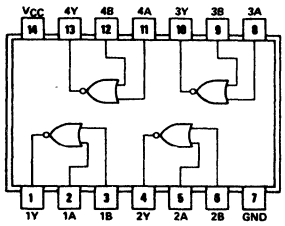
54LS01W Quad 2-Input NAND Gates with Open Collector Output



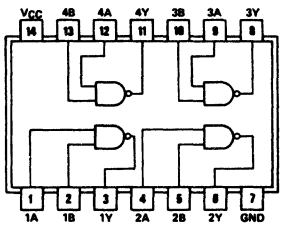
54-02W Quad 2-Input NOR Gates



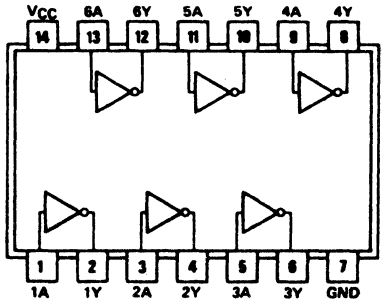
54S02W Quad 2-Input NOR Gates



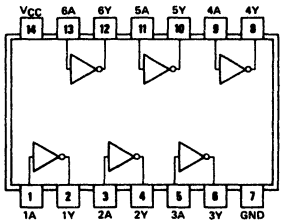
54S03W Quad 2-Input NAND Gates with Open Collector Output



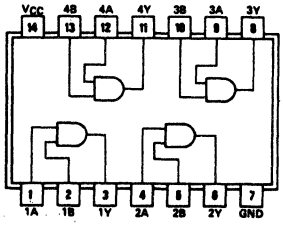
54S04W Hex Inverter



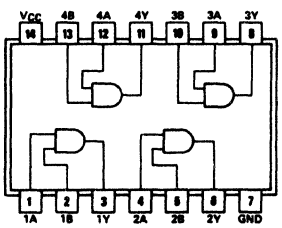
54S05W Hex Inverter with Open Collector Output



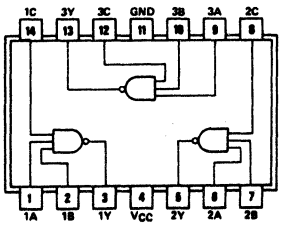
54S08W Quad 2-Input AND Gates



54S09W Quad 2-Input AND Gates with Open Collector Output

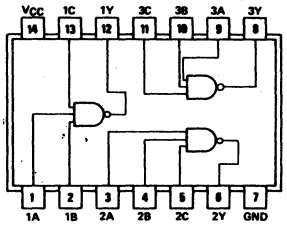


54-10W Triple 3-Input NAND Gates

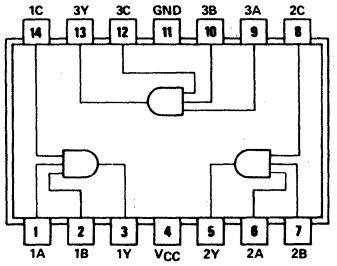


29. CIRCUIT DRAWINGS

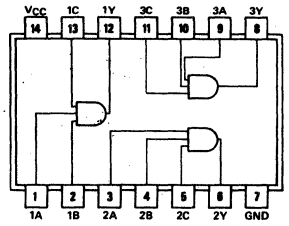
54S10W Triple 3-Input NAND Gates



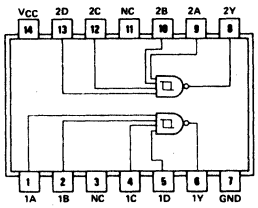
54H11W Triple 3-Input Positive-AND Gates



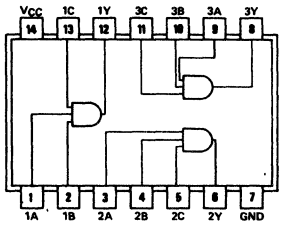
54S11W Triple 3-Input AND Gates



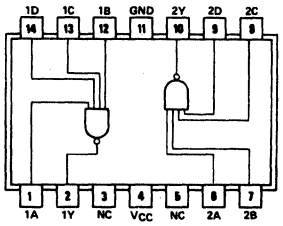
54-13W Dual 4-Input NAND Schmitt Trigger



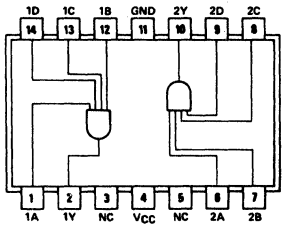
54H15W Triple 3-Input AND Gates with Open Collector Output



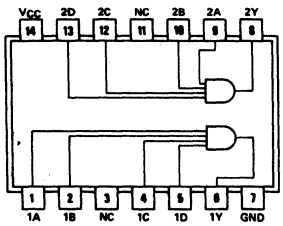
54-20W Dual 4-Input NAND Gates



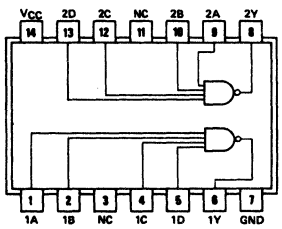
54H21W Dual 4-Input AND Gates



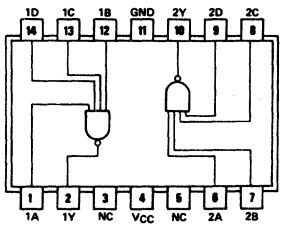
54LS21W Dual 4-Input AND Gates



54-22W Dual 4-Input NAND Gates with Open Collector Output

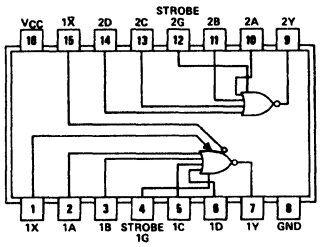


54H22W Dual 4-Input AND Gates with Open Collector Output

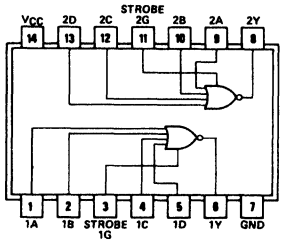


29. CIRCUIT DRAWINGS

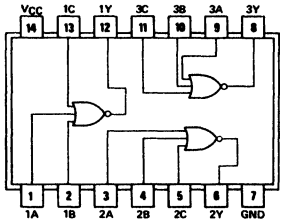
54-23W Expandable Dual 4-Input NOR Gates with Strobe



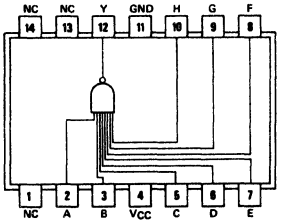
54-25W Dual 4-Input NOR Gates with Strobe



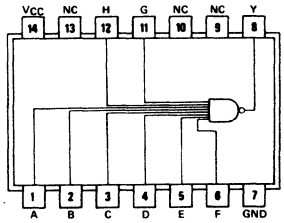
54-27W Triple 3-Input NOR Gates



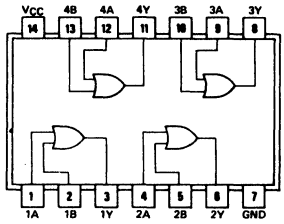
54-30W 8-Input NAND Gate



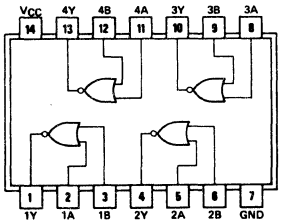
54S30W 8-Input NAND Gate



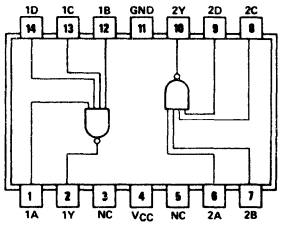
54-32W Quad 2-Input OR Gates



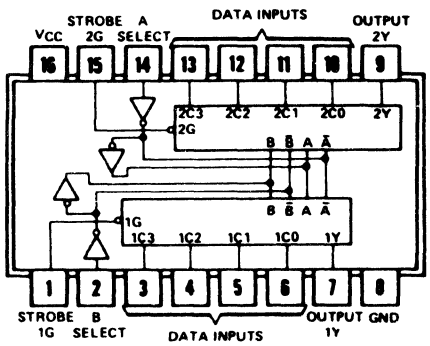
54-33W Quad 2-Input NOR Gates with Open Collector Output



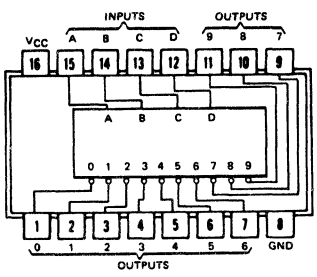
54-40W Dual 4-Input NAND Buffers



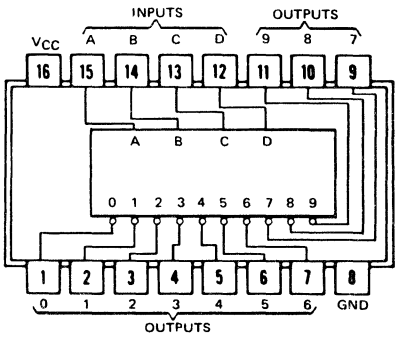
54-153W Dual 4-Line to 1-Line Data Selector/Multiplexer



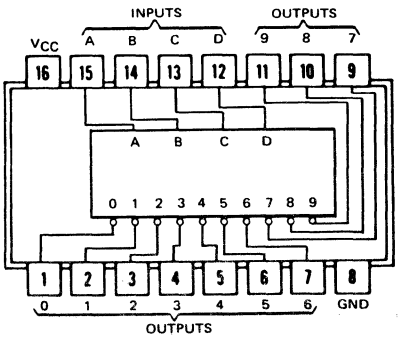
54LS42W 4-Line to 10 Line BCD to Decimal Decoder



54-43W 4 Line to 10 Line Excess 3-Gray to Decimal Decoder

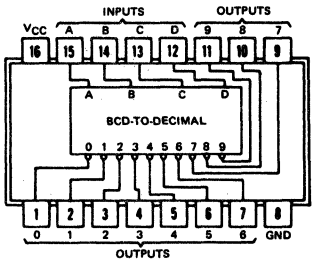


54-44W 4 Line to 10 Line Excess 3-Gray to Decimal Decoder

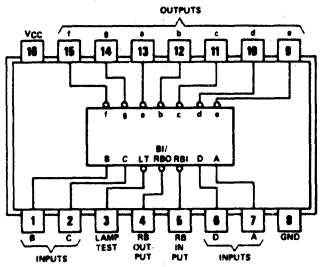


29. CIRCUIT DRAWINGS

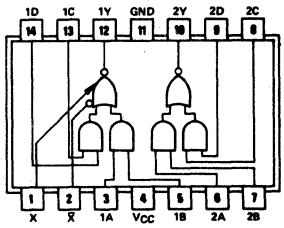
54-45W BCD to Decimal Decoder/Driver



54-46W BCD to 7 Segment Decoder/Driver with Open Collector Output

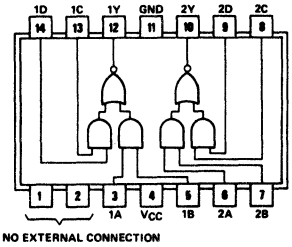


54-50W Dual 2-Wide 2-Input AND-OR-Invert Gates (One Gate Expandable)



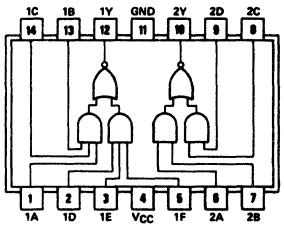
54-51W

Dual 2-Wide 2-Input AND-OR-INVERT Gates



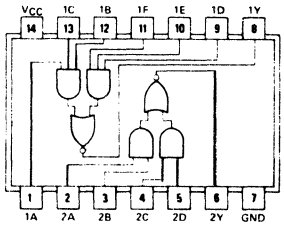
54L51T

Dual 2- Wide 2-InputAND-OR-INVERT Gates



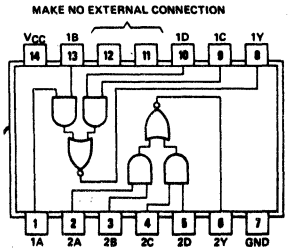
54LS51W

Dual 2-Wide 2-Input AND-OR-INVERT Gates

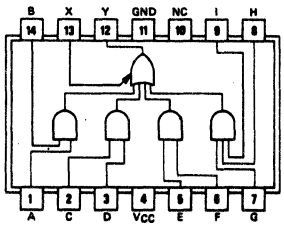


54S51W

Dual 2-Wide 2-Input AND-OR-INVERT Gates

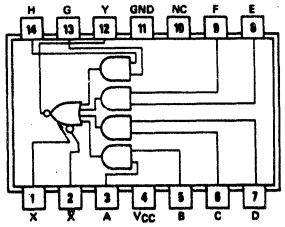


54H52W Expandable 4-Wide AND-OR Gates



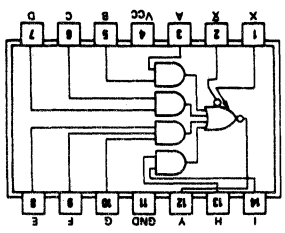
54-53W

Expandable 4-Wide AND-OR-INVERT Gates

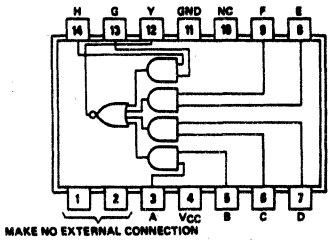


54H53W

Expandable 4-Wide AND-OR-INVERT Gates

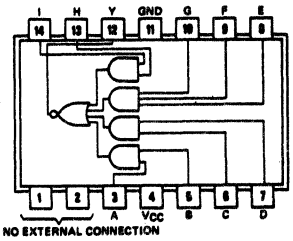


54-54W 4-Wide AND-OR-INVERT Gates



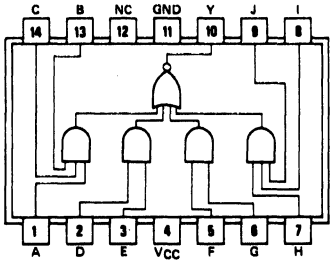
54H54W

2 Wide 4-Input AND-OR-INVERT Gates



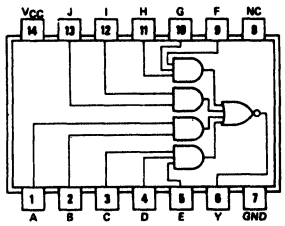
29. CIRCUIT DRAWINGS

54L54T 4-Wide AND-OR-INVERT Gates



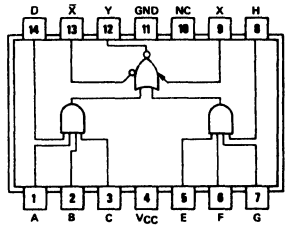
54LS54W

2-Wide 4Input AND-OR-INVERT Gates



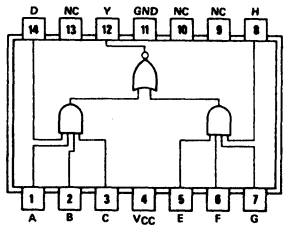
54H55W

2-Wide 4-Input AND-OR-INVERT Gates

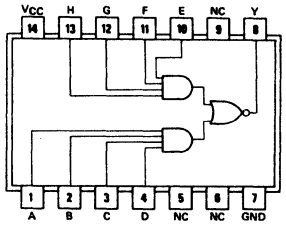


54L55T

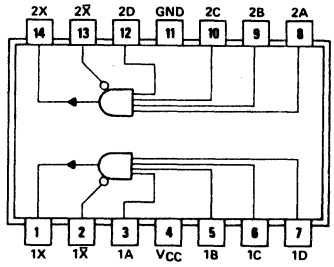
2-Wide 4-Input AND-OR-INVERT Gates



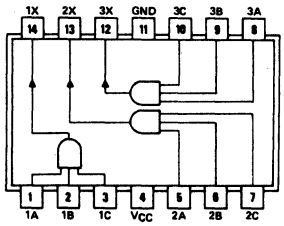
54LS55W 4-Wide AND-OR-INVERT Gates



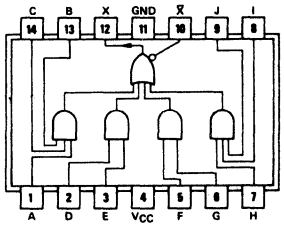
54-60W Dual 4-Input Expanders



54H61W Triple 3-Input Expander

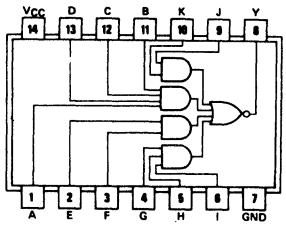


54H62W 4-Wide AND-OR Expanders



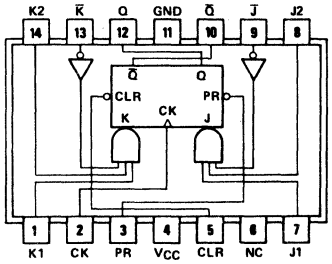
54S64W

4-2 3-2 Input AND-OR-INVERT Gates with Totem Pole Output



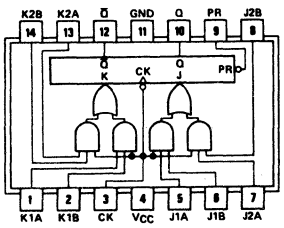
54-70W

AND Gated J-K Positive Edge Triggered Flip-Flop with Preset and Clear



54H71W

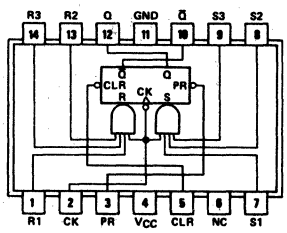
AND-OR Gated J-K Master Slave Flip-Flop with Preset



29. CIRCUIT DRAWINGS

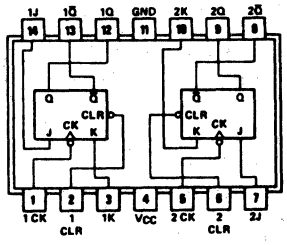
54L71T | 54L72

And Gated * Master/Slave Flip/Flop with Preset and Clear



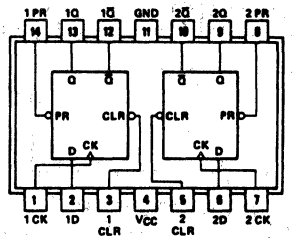
*54L71T = RS
54L72 = JK

54-73W — Dual J-K Flip-Flop with Clear

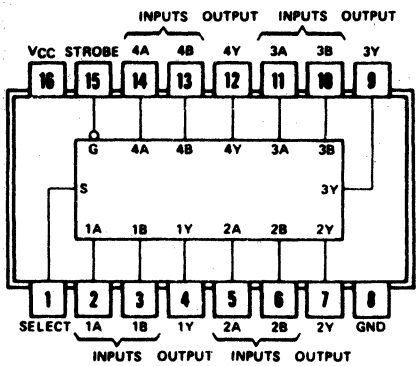


54-74W

Dual D-Type Positive Edge Triggered Flip-Flop with Preset and Clear

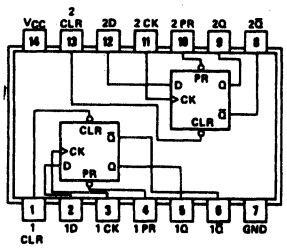


54-157W — Quad 2-to-1-Line Data Selector/Multiplexer with Noninverted Data Outputs

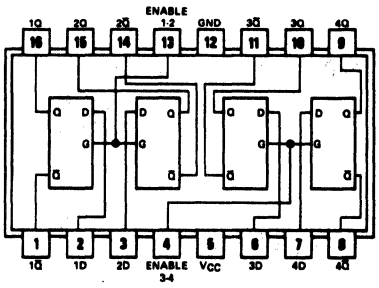


54S74W

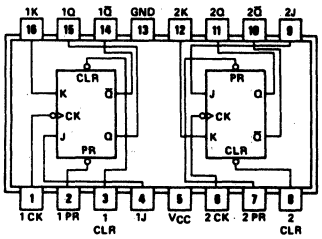
Dual D-Type Positive Edge-Triggered Flip Flop with Preset and Clear



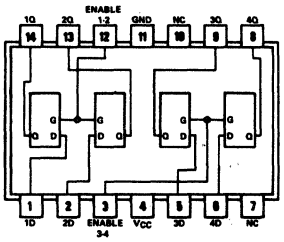
54-75W — 4-Bit Bistable Latch



54LS76W — Dual J-K Flip-Flop with Preset and Clear

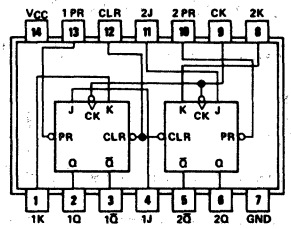


54-77W — 4-Bit Bistable Latches



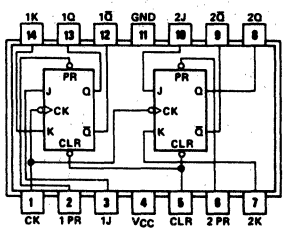
54H78W

Dual J-K Flip-Flop with Preset, Common Clear and Common Clock

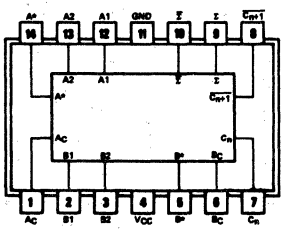


54L78T

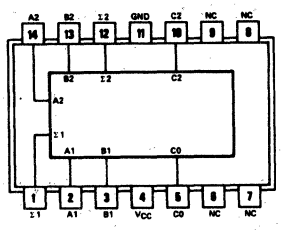
Dual J-K Flip-Flop with Preset, Common Clear and Common Clock



54-80W — Gated Full Adders

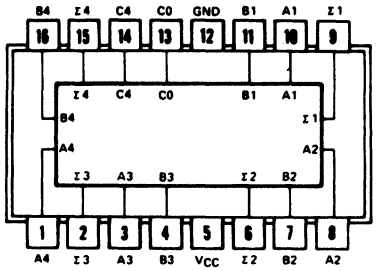


54-82W — 2-Bit Binary Full Adders

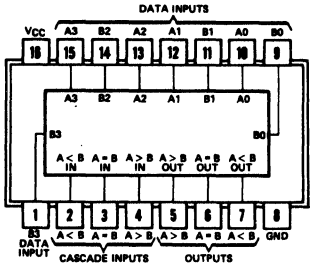


29. CIRCUIT DRAWINGS

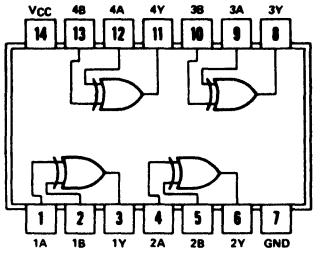
54-83 4-Bit Binary Counter



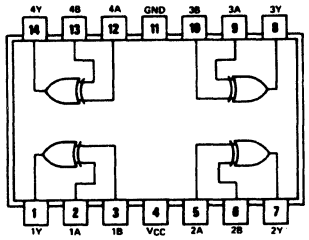
54-85W 4-Bit Magnitude Comparators



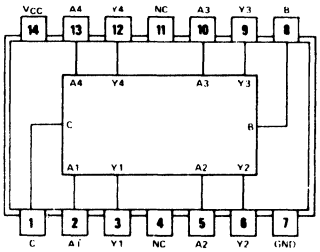
54-86W Quad 2-Input Exclusive-OR Gates



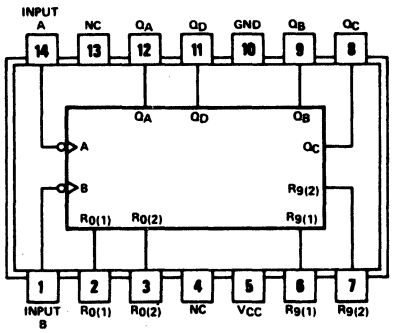
54L86T Quad 2-Input Exclusive-OR Gates



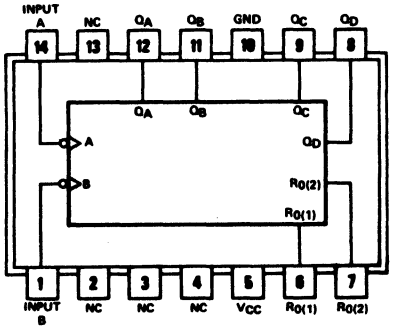
54H87W 4-Bit True/Complement, Zero/One Elements



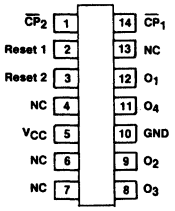
54-90W Decade Counter
Divide-By Two/Divide by Five



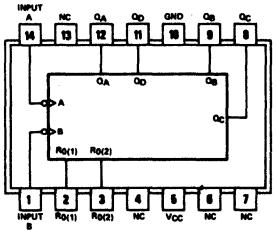
54-92W Divide by Twelve Counter
Divide by Two/Divide by Six



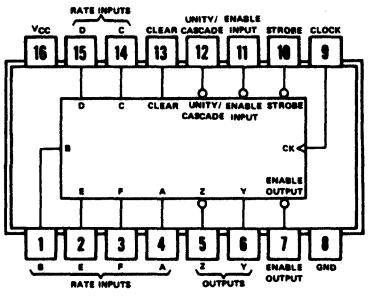
54L93T 4-Bit Binary Counter



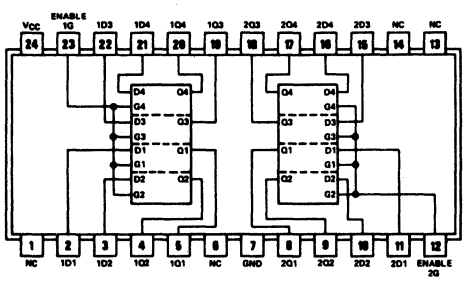
54LS93W 4-Bit Binary Counter
Divide by 2/Divide by 8



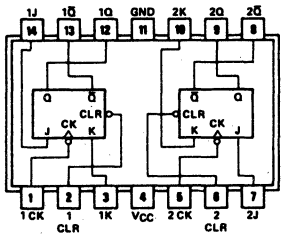
54-97 Synchronous 6-Bit Binary Rate Multiplier



54-100W Dual 4-Bit Latch

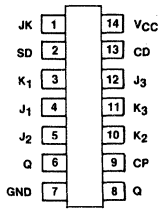


54H103 Dual J-K Negative Edge-Triggered Flip-Flop with Clear

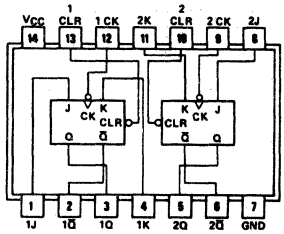


29. CIRCUIT DRAWINGS

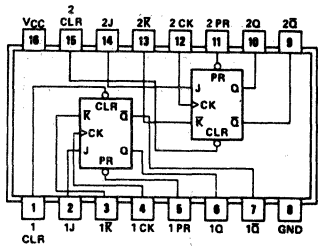
54-104W Gated J-K Master/Slave Flip-Flop



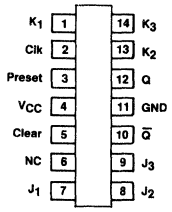
54-107F Dual J-K Master/Slave Flip-Flop with Clear



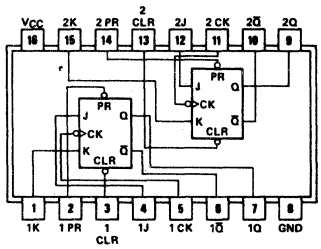
54-109W Dual J-K Positive Edge Triggered Flip-Flop with Preset and Clear



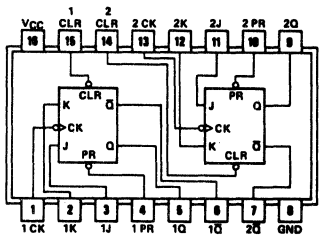
54-110W AND Gated J-K Master/Slave Flip-Flop with Data Lock



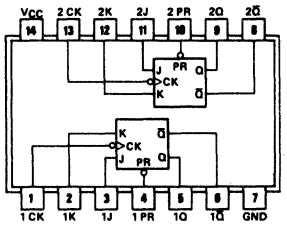
54-111W Dual J-K Master/Slave Flip-Flop with Data Lock-Out



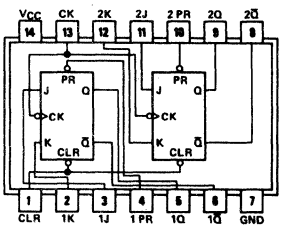
54S112W Dual J-K Negative Edge Triggered Flip-Flop with Preset



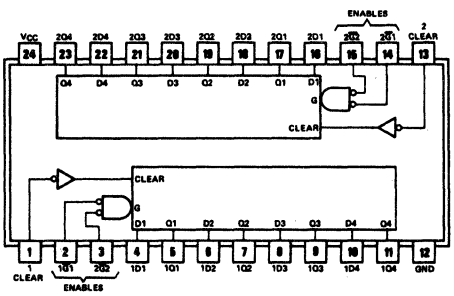
54S113W Dual J-K Negative Edge Triggered Flip-Flop with Preset



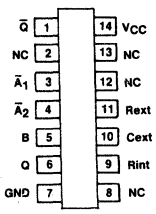
54S114W Dual J-K Negative Edge Triggered Flip-Flop with Preset, common Clear and Common Clock



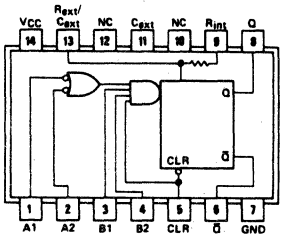
54-116W Dual 4-Bit Latches



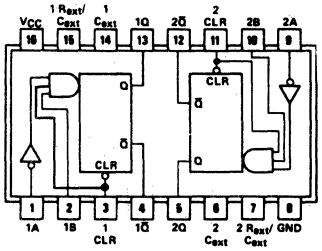
54-121 Monostable Multivibrator



54-122 Retriggerable Monostable Multivibrator with Clear

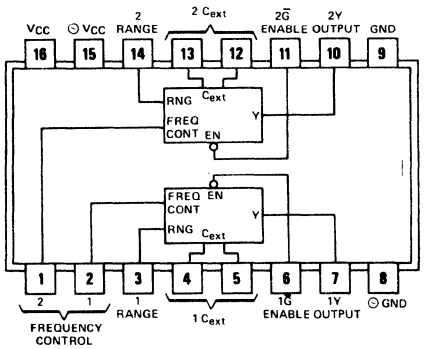


54-123 Dual Retriggerable Monostable Multivibrator with Clear

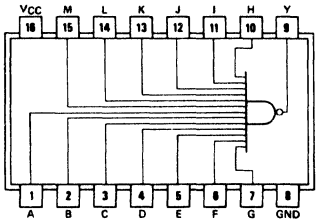


29. CIRCUIT DRAWINGS

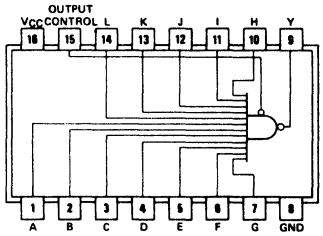
54LS124 Dual Voltage-Controlled Oscillator



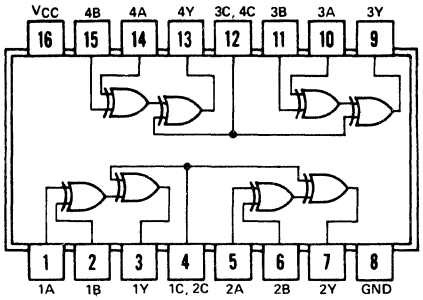
54S133W 13-Input NAND Gates



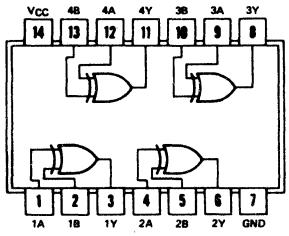
54S134W 12-Input NAND Gates with 3-State Output



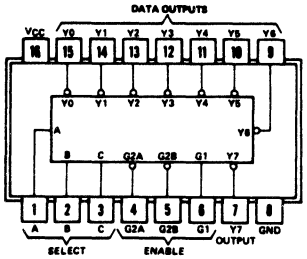
54S135W Quadruple Exclusive-OR/NOR Gates



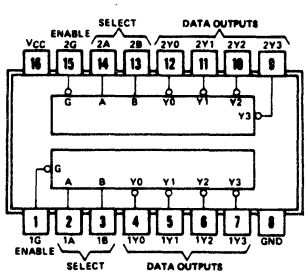
54-136W Quad Exlusive-OR Gates



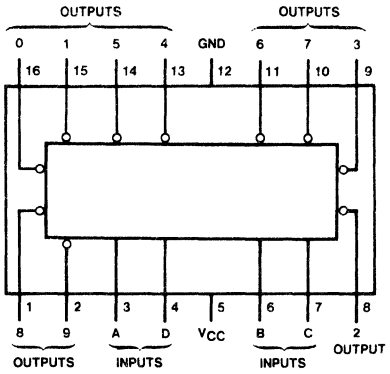
54S138W 3-8 Line Decoder/Multiplexer



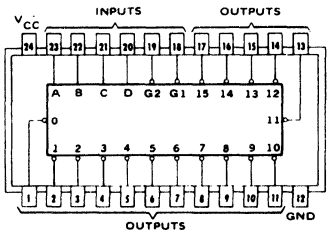
54S139W Dual 2-4 Line Decoder/Multiplexer



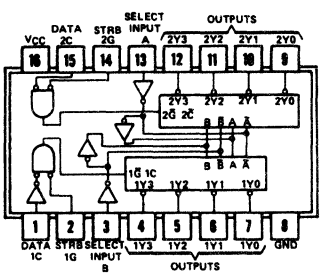
54-141W BCD To Decimal Decoder/ Nixie Driver



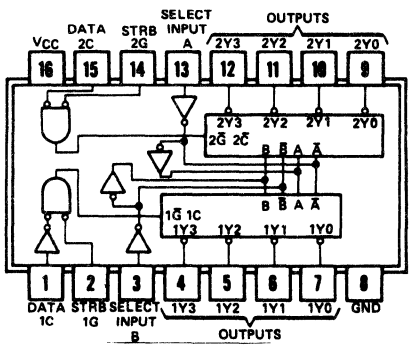
54-154W 4-Line to 16 Line Decoder/Demultiplexer



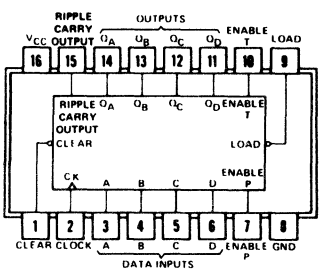
54-155W Decoder/Demultiplexer with Totem—Pole Output



54-156W Decoder/Demultiplexer with Open Collector Output

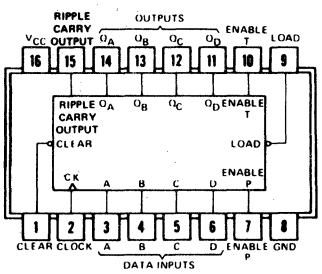


54-160W Synchronous 4-Bit Decade Counter with Direct Clear

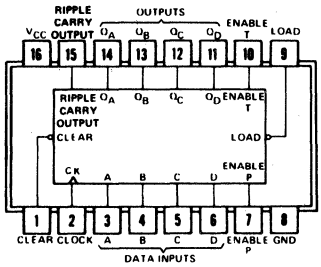


29. CIRCUIT DRAWINGS

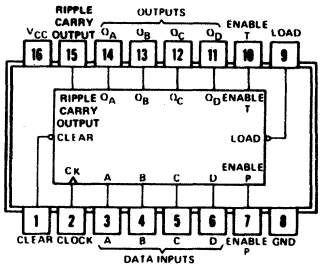
54-161W Synchronous 4-Bit Binary Counter with Direct Clear



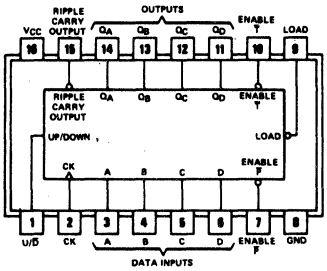
54-162W Synchronous 4-Bit Decade Counter with Synchronous Clear



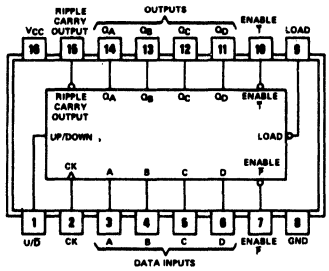
54-163W Synchronous 4-Bit Binary Counters with Synchronous Clear



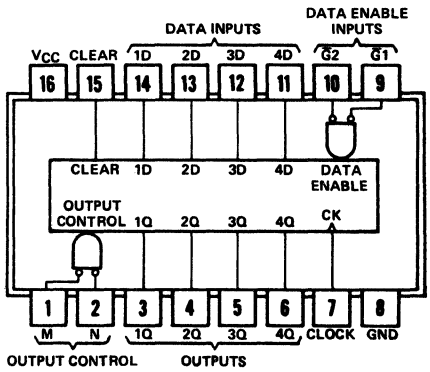
54S168W 4-Bit Up/Down Synchronous Decade Counter



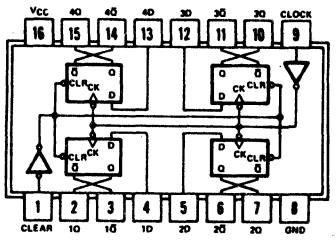
54S169W 4-Bit Up/Down Synchronous Binary Counter



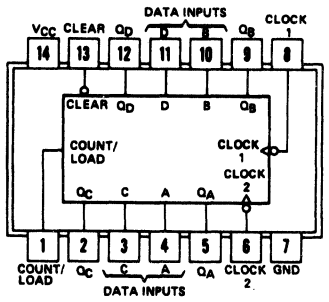
54-173W Quad D-Type Flip-Flop with 3-State Output



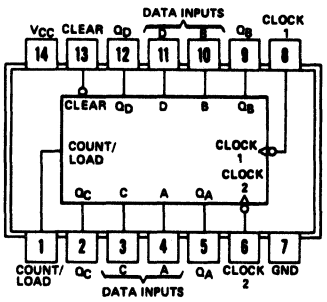
54-175W Quad D-Type Flip-Flop



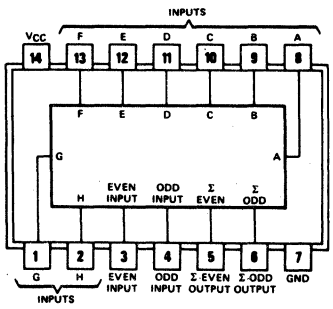
54-176W Presettable Decade(Bi-Quinary) Counter/Latches



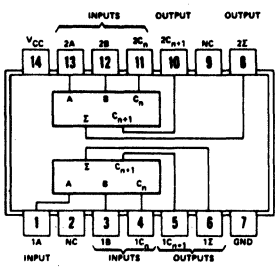
54-177W Presettable Binary Counter /Latches



54-180W 9-Bit Odd/Even Parity Generator/Checker

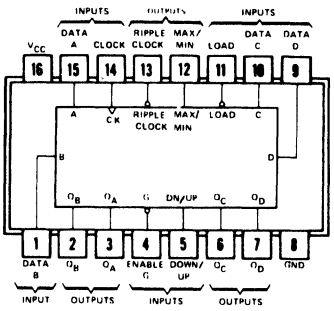


54H183W Dual Carry Save Full Adder

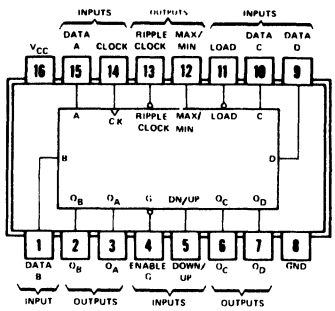


29. CIRCUIT DRAWINGS

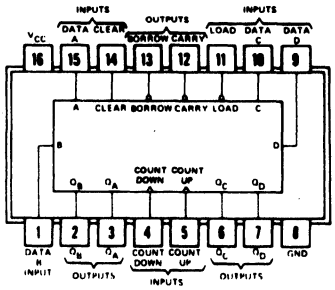
54-190W Synchronous Up/Down BCD Counter



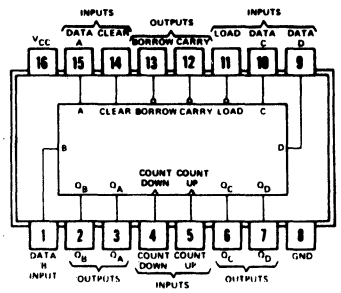
54-191W Synchronous Up/Down Binary Counter



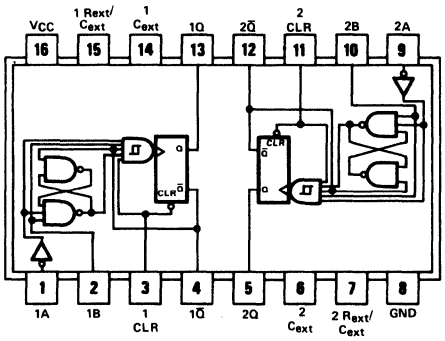
54-192W Synchronous Up/Down Dual Clock BCD Counter with Clear



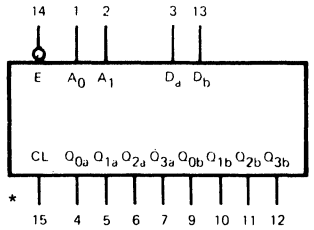
54-193W Synchronous Up/Down Dual Clock Binary Counter with Clear



54-221 Dual Monostable Multivibrator



54LS256W Dual 4-Bit Addressable Latch

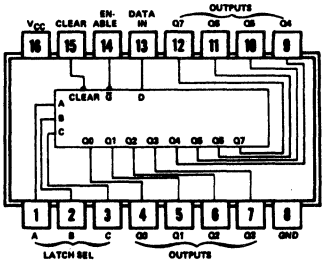


V_{CC} OR V_{DD} = PIN 16

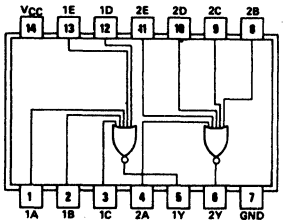
GND OR V_{SS} = PIN 8

* Clock for b section is Active Low

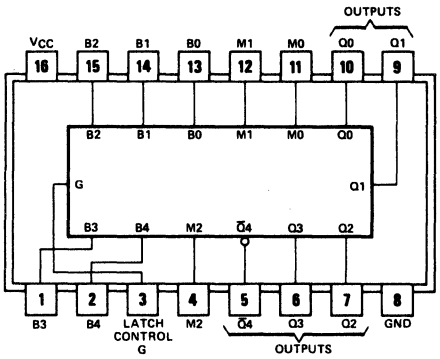
54-259W 8-Bit Addressable Latches



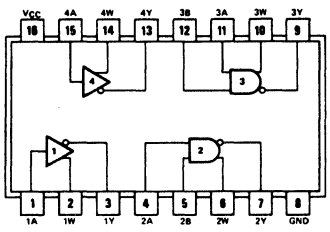
54S260W Dual 5-Input NOR Gates



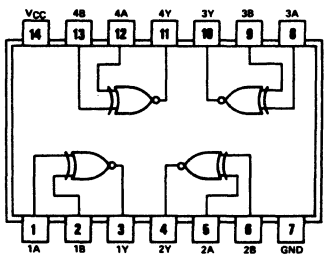
54LS261 2-Bit-by-4-Bit Parallel Binary Multiplier



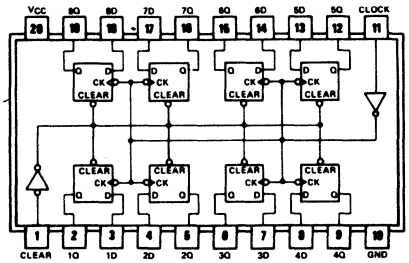
54-265W Quad Complementary Output Element



54LS266W Quad 2-Input Exclusive NOR Gates with Open Collector Output

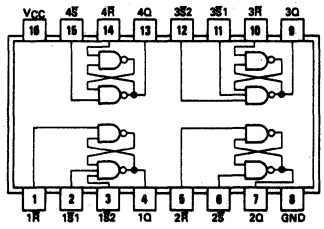


54LS273W Octal D-Type Flip-Flop

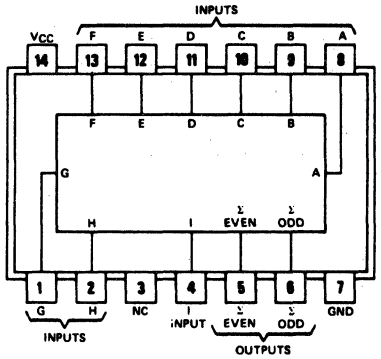


29. CIRCUIT DRAWINGS

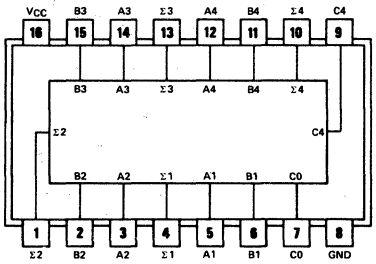
54-279W Quad $\overline{S}$-$\overline{R}$ Latches with Totem Pole Output



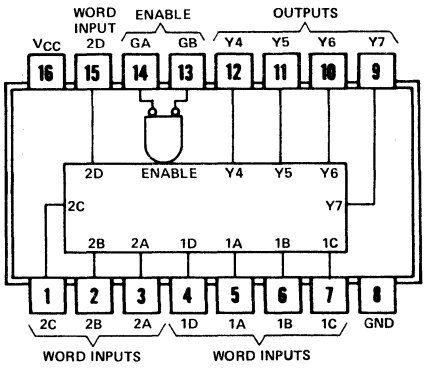
54S280W 9-Bit Odd/Even Parity Generator Checked N-Bit Cascadeable



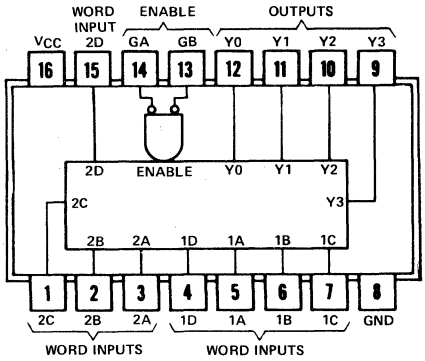
54-283 4-Bit Full Adder with Fast Carry



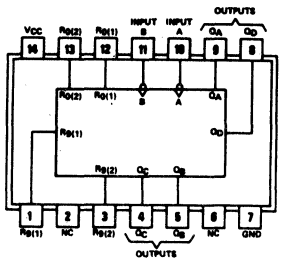
54-284 4-Bit by 4-Bit Parallel Binary Multiplier



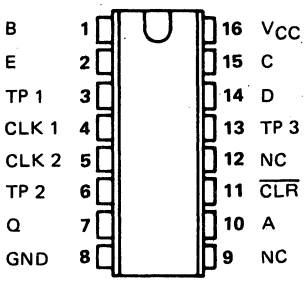
54-285 4-Bit by 4-Bit Parallel Binary Multiplier



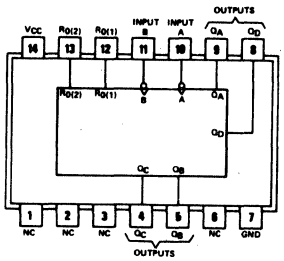
54-290W 4-Bit Decade Counter Divide by Two/Divide by Five



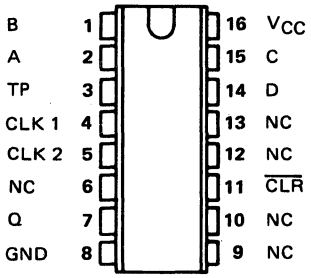
54LS292W Programmable Frequency Divider/Digital Timer



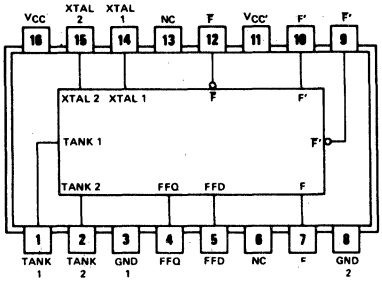
54-293W 4-Bit Binary Counter Divide by Two/Divide by Eight



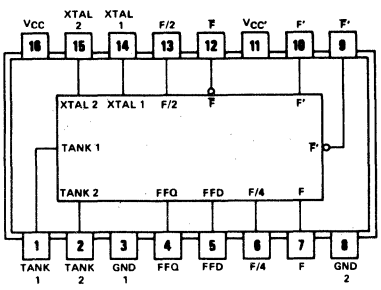
54LS294W Programmable Frequency Divider/Digital Timer



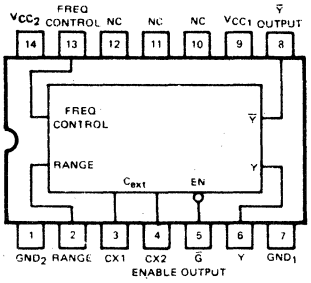
54LS320W Oscillator Clock/Driver



54LS321W Oscillator Clock/Driver

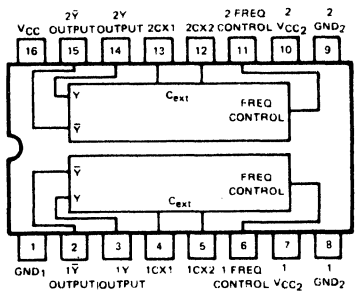


54LS324W Voltage-Controlled Oscillator

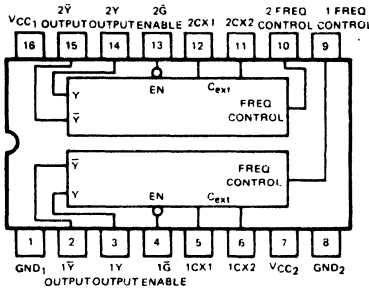


29. CIRCUIT DRAWINGS

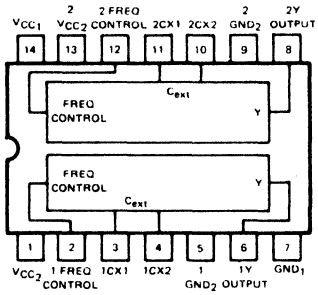
54LS325W Voltage-Controlled Oscillator



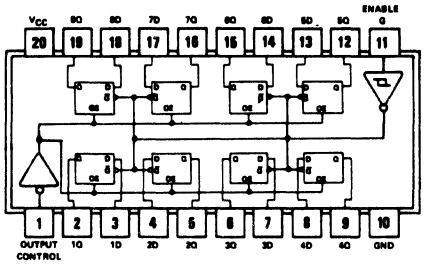
54LS326W Voltage-Controlled Oscillator



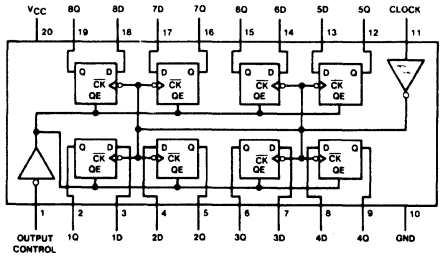
54LS327W Voltage-Controlled Oscillator



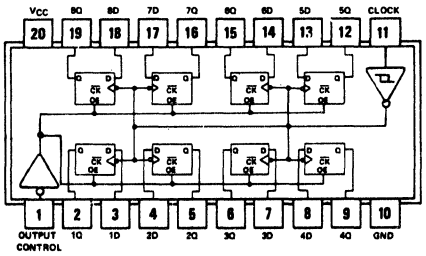
54LS363W Octal D-Type Latch with 3-State Output



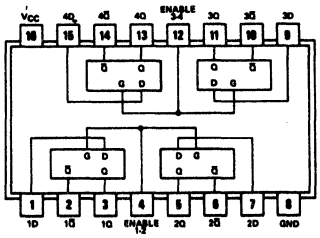
54LS374W Octal D-Type Flip-Flop with 3-State Output



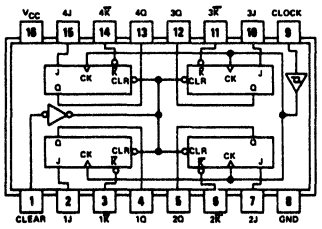
54S374W Octal D-Type Edge Triggered Flip-Flop with 3-State Outputs



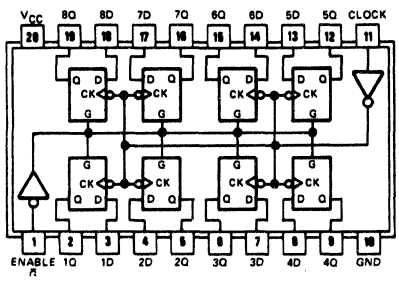
54LS375W 4-Bit Bistable Latch



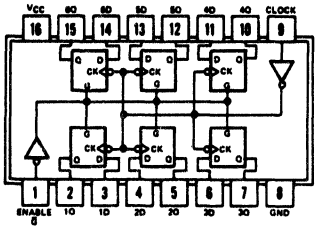
54-376W Quad J-$\overline{K}$ Flip-Flop Common Clock and Common Clear



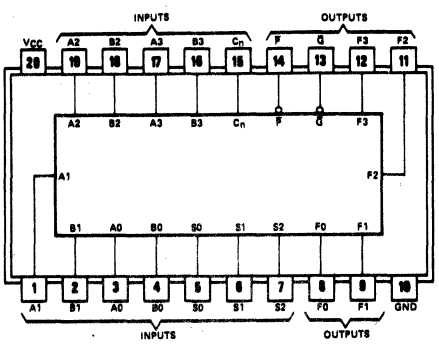
54LS377W Octal D-Type Flip-Flop with Single Rail Output, Common Enable, Common Clock



54LS378W Hex D-Type Flip-Flop with Single Rail Output

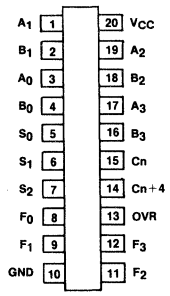


54LS381W Arithmetic Logic Unit/Function Generator



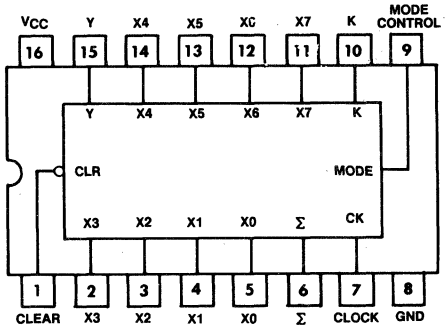
29. CIRCUIT DRAWINGS

54LS382W — Arithmetic Logic Unit/Function Generator

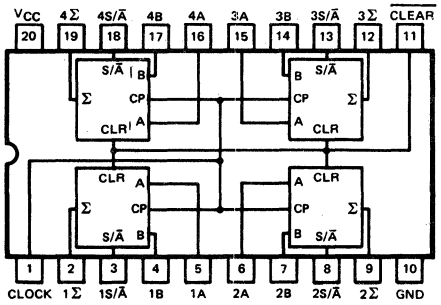


54LS384W

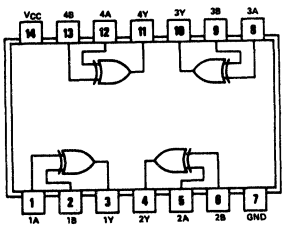
8-Bit by 1-Bit Twos-Complement Multiplier
8Bit Identity Comparater



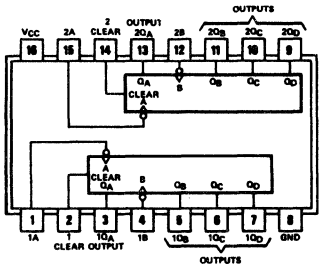
54LS385W — Quad Serial Adder/Subtractor



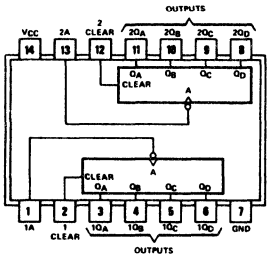
54LS386W — Quad 2-Input Exclusive OR Gate



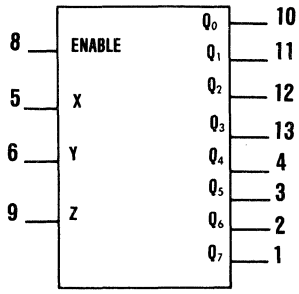
54-390W — Dual Decade Counter Bi-Quinary/BCD Sequences



54-393W — Dual 4-Bit Binary Counter



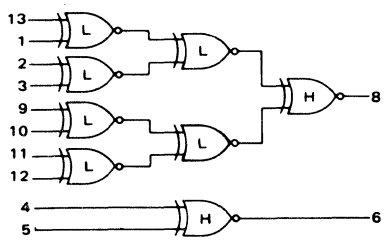
54-406 — Binary to 1 of 8 Line Decoder



Vcc = pin 14

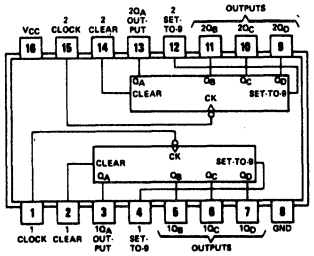
Gnd = pin 7

54-408W — 8-Bit Parity Tree

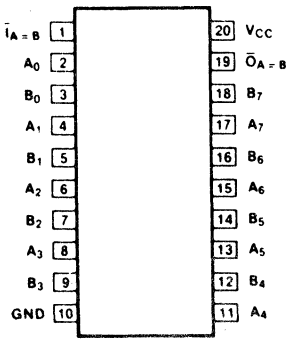


VCC = PIN 14
GND = PIN 7

54-490W — Dual Decade Counter

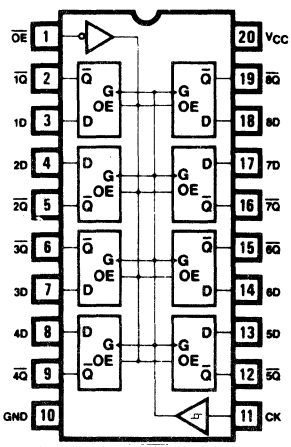


54-521 — 8 Bit Identity Comparator

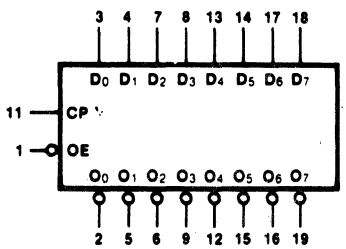


54LS533W

8-Bit Latch
Transparent
D-Type
Inverting
with 3-State
Output

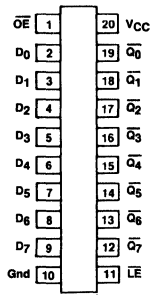


54LS534W — Octal D-Type Edge Triggered Inverting Flip-Flop with 3-State Output

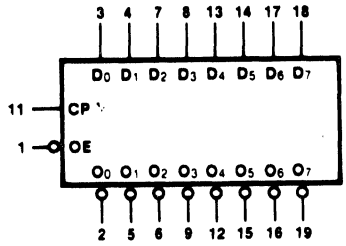


29. CIRCUIT DRAWINGS

54LS563W Octal Inverting Transparent Latch with 3-State Outputs

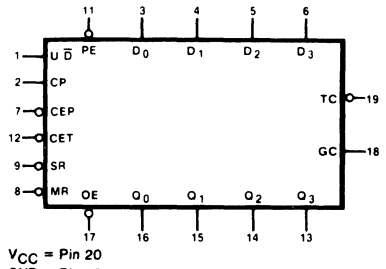


54LS564W Octal D-Type Edge Triggered Flip Flop with 3-State Output



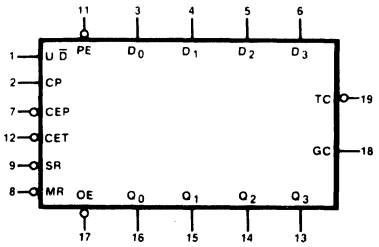
VCC = Pin 20
GND = Pin 10

54LS568W Up/Down Decade Counter with 3-State Output



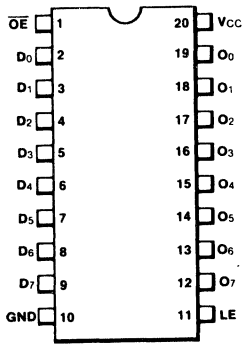
VCC = Pin 20
GND = Pin 10

54-569W Up/Down Binary Counter with 3-State Output

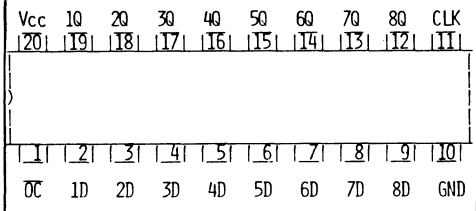


VCC = Pin 20
GND = Pin 10

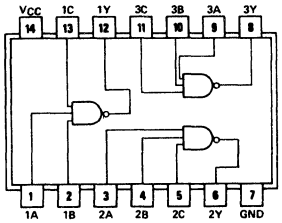
54LS573W Octal D-Type Latch with 3-State Output



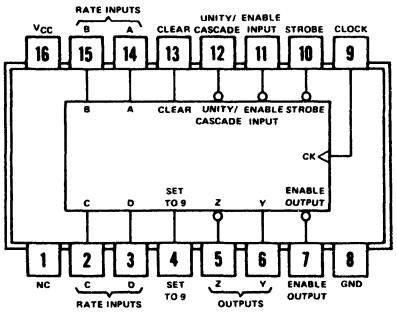
54LS574W Octal D-Type Flip Flop with 3-State Output



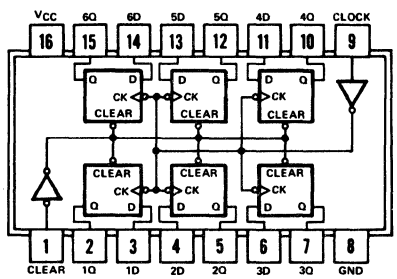
54-12W Triple 3-Input Positive NAND Gates with Open Collector Outputs



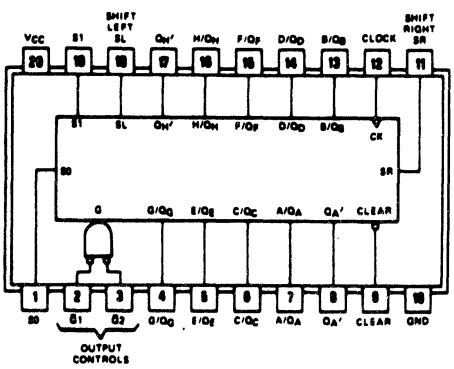
54-167 Synchronous Decade Rate Multiplier



54-174W Hex D Flip-Flop

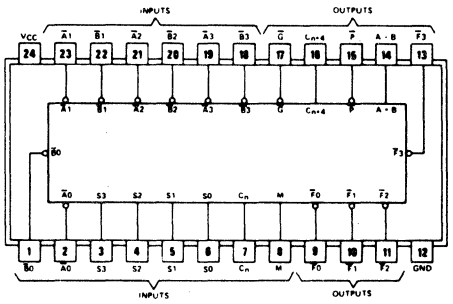


54LS299W 8-Bit Bidirectional Shift Register with 3-State Outputs

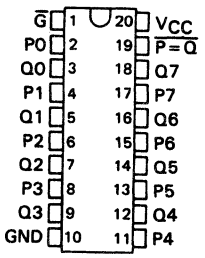


29. CIRCUIT DRAWINGS

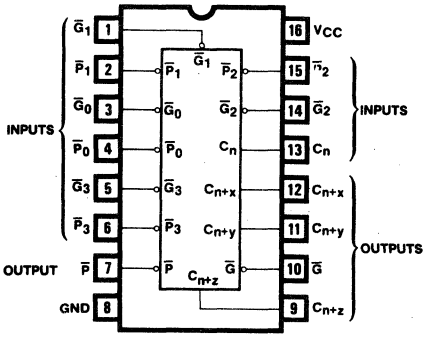
54-181 — 4-Bit Arithmetic Logic Unit



54LS689W — 8-Bit Identity Comparator with Open-Collector Outputs

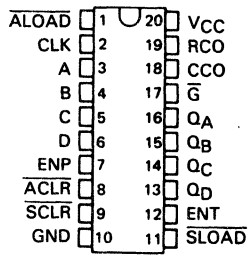


54-182 — Look-Ahead Carry Generator

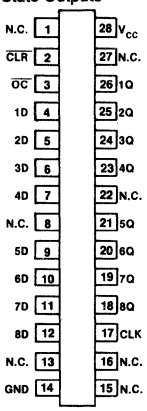


54ALS561 — Synchronous 4-Bit Decade Counter with 3-State Outputs

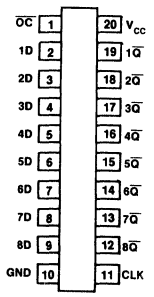
(TOP VIEW)



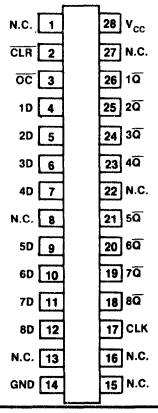
54ALS575 — Octal D-Type Edge-Triggered Flip-Flop with 3-State Outputs



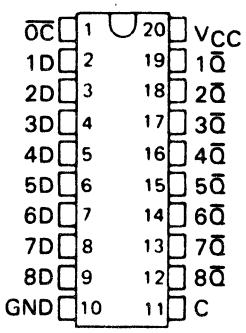
54AS576 — Octal D-Type Edge-Triggered Flip-Flop with 3-State Outputs



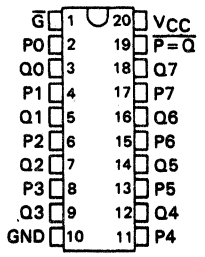
54ALS577 — Octal D-Type Edge-Triggered Flip-Flop with 3 State Outputs and Synchronous Clear



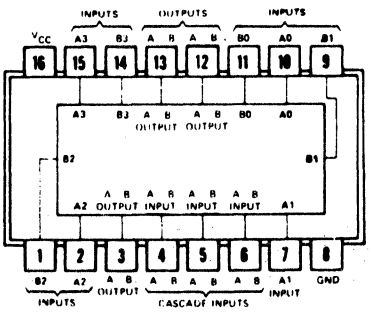
54AS580 — Octal D-Type Transparent Latch with 3-State Outputs



54LS688W — 8-Bit Identity Comparator with Totem-Pole Outputs

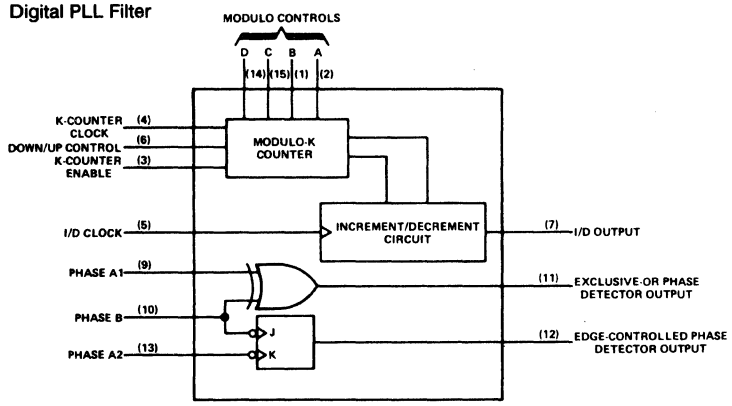


54L85W — 4-Bit Magnitude Comparator

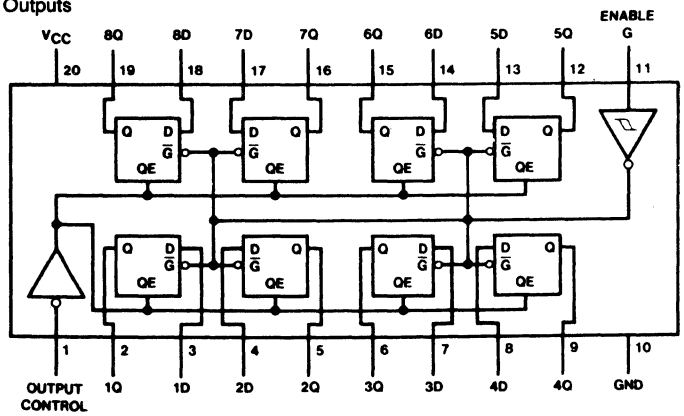


29. CIRCUIT DRAWINGS

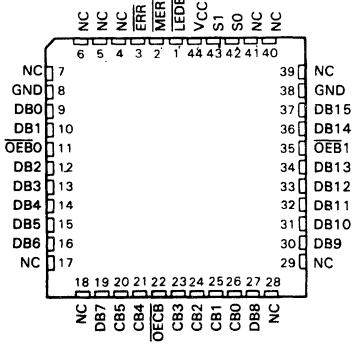
54LS297W Digital PLL Filter



54-373W Octal D-Type Latch with 3-State Outputs

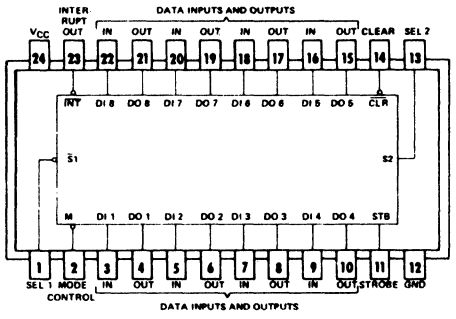


54ALS616 Error Detection & Correction

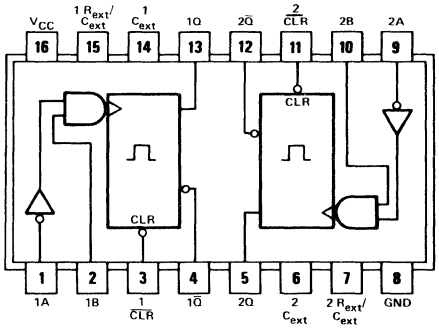


NC—No internal connection

54S412W Multimode Buffered Latch with 3-State Outputs

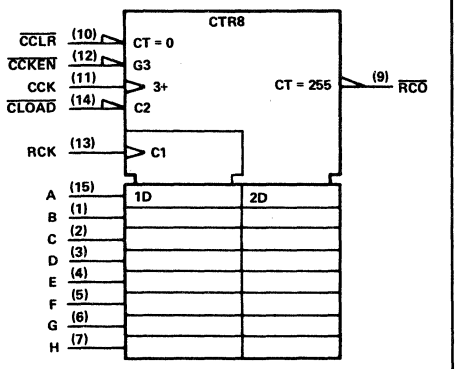


54LS423W Dual Retriggerable Monostable Multivibrator

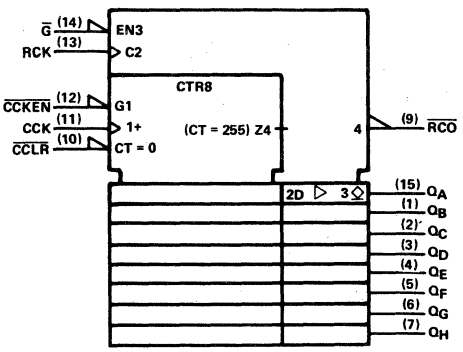


29. CIRCUIT DRAWINGS

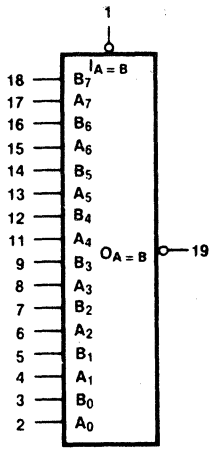
54LS592W 8-Bit Binary Counter with Input Register



54LS591W 8-Bit Binary Counter with Output Register

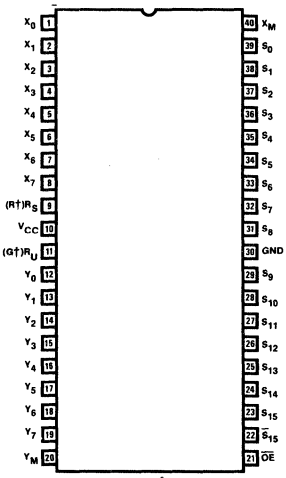


54F521W 8-Bit Identity Comparator

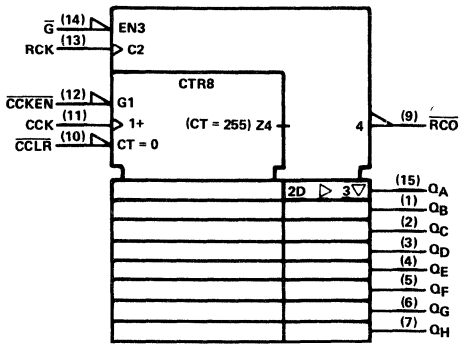


VCC = Pin 20
GND = Pin 10

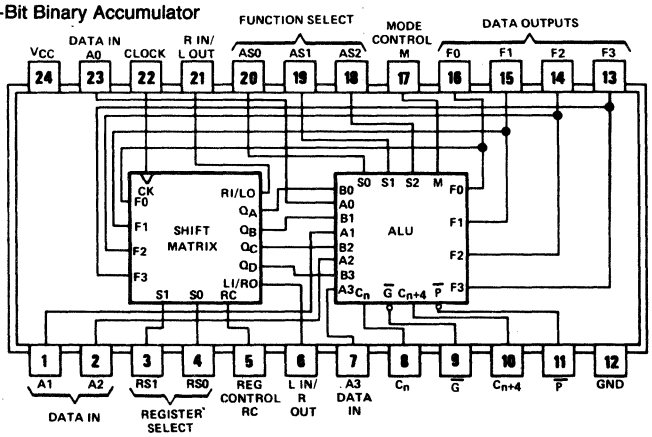
54S558W 8x8 Combinatorial Multiplier



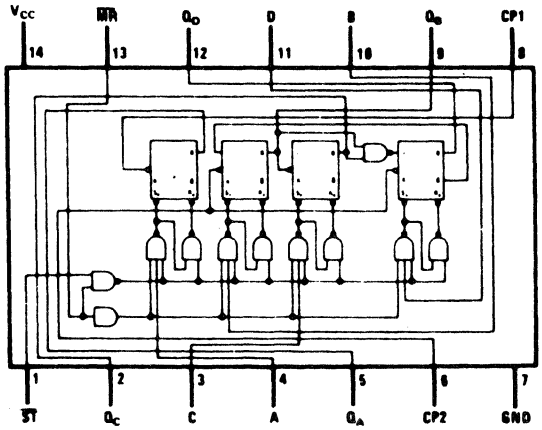
54LS590W 8-Bit Binary Counter with 3-State Output Register



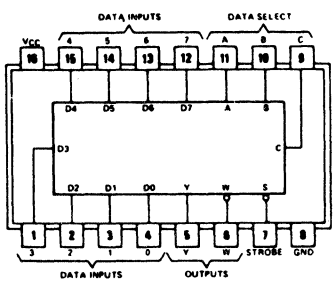
54S281W 4-Bit Binary Accumulator



54-196W Presettable Decade Counter

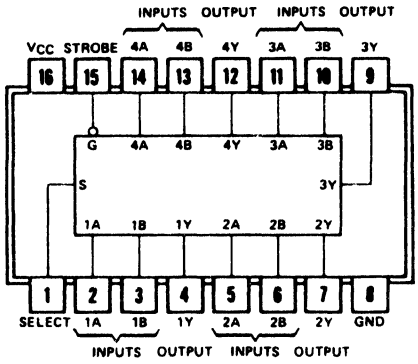


54-151W 1-of-8 Data Selector/Multiplexer

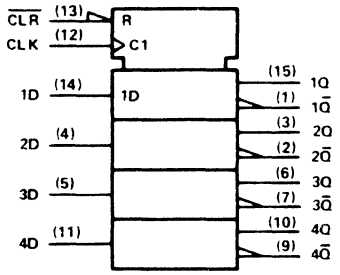


29. CIRCUIT DRAWINGS

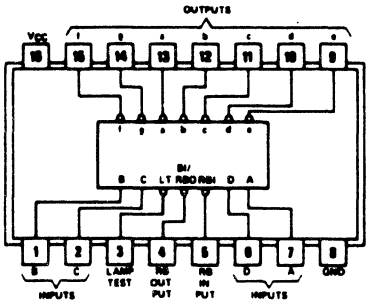
54-158W Quad 2-to-1-Line Data Selector/Multiplexer with Inverted Data Outputs



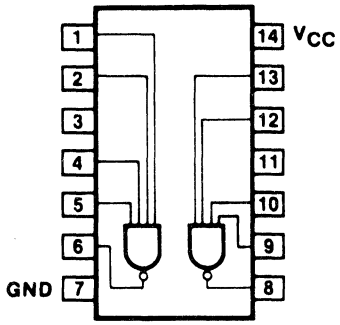
54LS171W Quad D-Type Flip-Flops with Common Clear



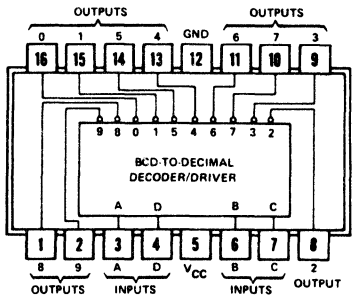
54-246W BCD-to-7-Segment Decoder/Driver



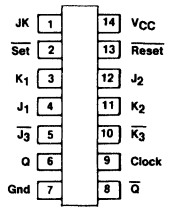
54H20 Dual Four-Input NAND Gate



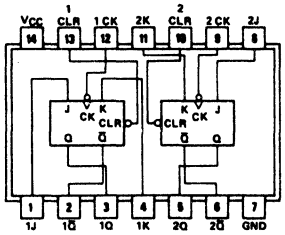
54-41W BCD-To-Decimal Decoder/Driver



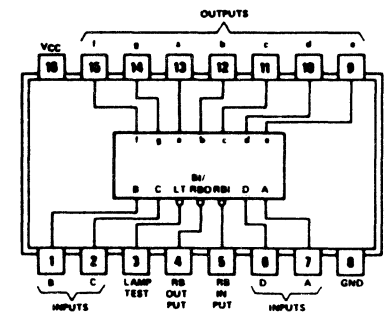
54-105W Gated J-K Master/Slave Flip-Flop



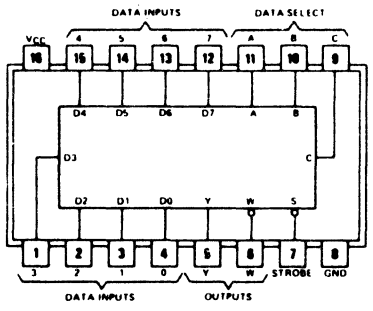
54LS107W Dual J-K Master/Slave Flip-Flop with Clear



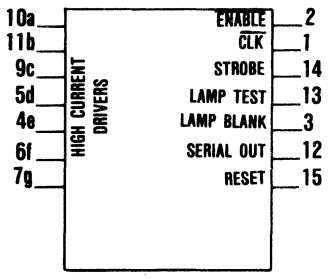
54-248W BCD-to-7-Segment Decoder/Driver



54-251W Data Selector/Multiplier with 3-State Outputs



54-450W Counter-Latch-Decoder

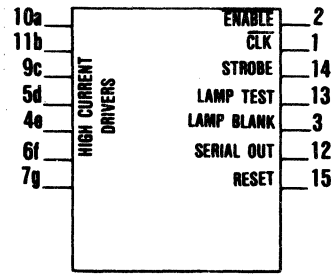


Vcc = pin 16

Gnd = pin 8

29. CIRCUIT DRAWINGS

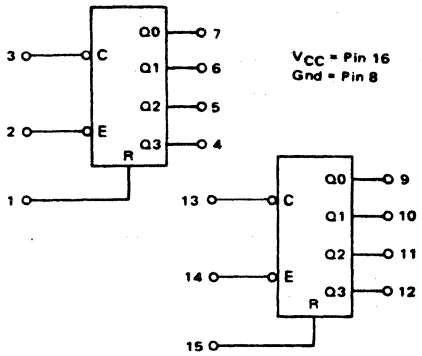
54-451W Counter-Latch-Decoder



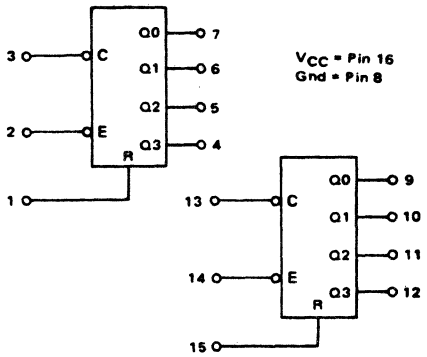
Vcc = pin 16

Gnd = pin 8

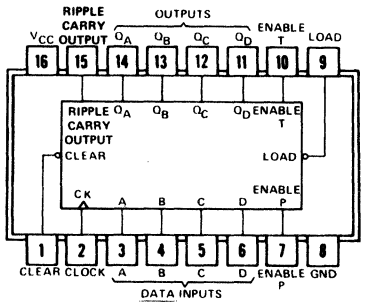
54-452W Dual Synchronous Decade Counter



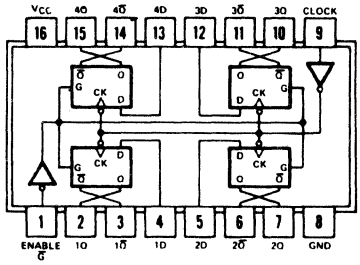
54-453W Dual Synchronous Binary Counter



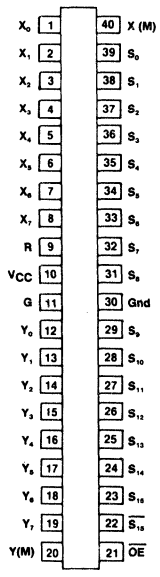
54LS163W Synchronous 4-Bit Counter



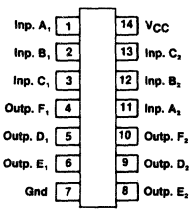
54LS379W Quad D-Type Flip-Flops with Enable



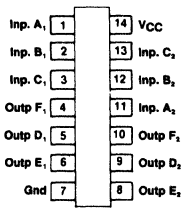
54S557W 8x8 Combinatorial Multiplier with Transparent 16-Bit Latch



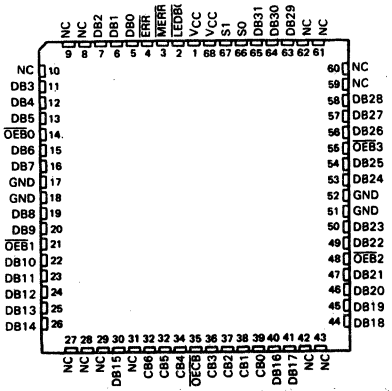
54H28W Dual 3-Input 3-Output AND Series Terminated Line Driver



54H29W Dual 3-Input 3-Output NAND Series Terminated Line Driver

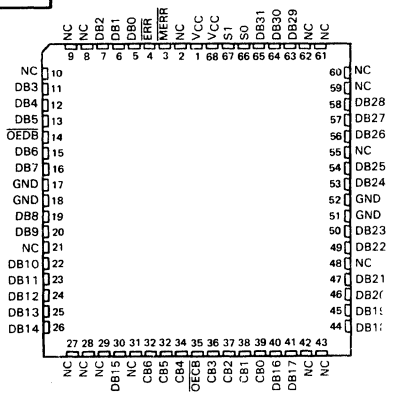


54ALS632 Error Detection & Correction

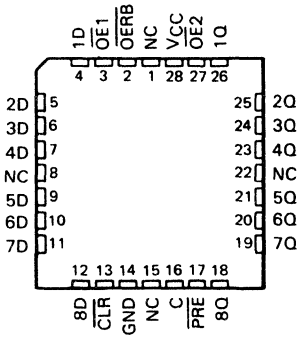


29. CIRCUIT DRAWINGS

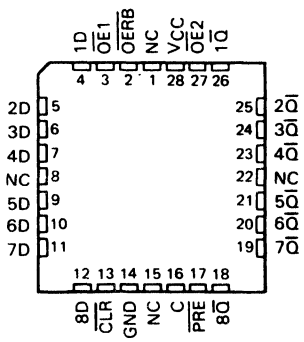
54ALS634 Error Detection & Correction



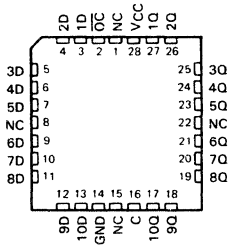
54ALS666 8-Bit D-Type Transparent Read-Back Latches w/3-State Output



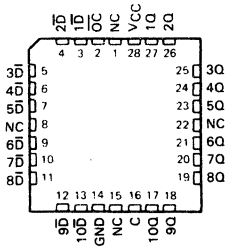
54ALS667 8-Bit D-Type Transparent Read-Back Latches w/3-State Output



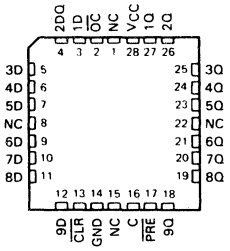
54AS841 10-Bit Interface D-Type Latches w/3-State Output



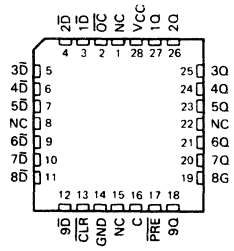
54AS842 10-Bit Interface D-Type Latches w/3-State Output



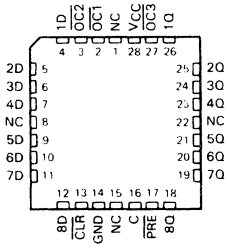
54AS843 9-Bit Interface D-Type Latches w/3-State Output



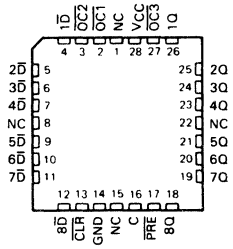
54AS844 9-Bit Interface D-Type Latches w/3-State Output



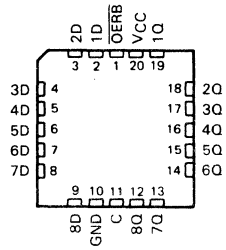
54AS845 8-Bit Interface D-Type Latches w/3-State Output



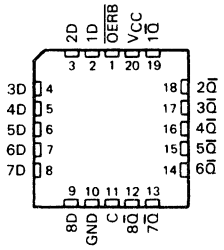
54AS846 8-Bit Interface D-Type Latches w/3-State Output



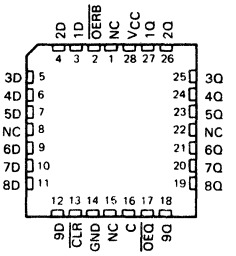
54ALS990 8-Bit D-Type Transparent Read-Back Latches



54ALS991 8-Bit D-Type Transparent Read-Back Latches

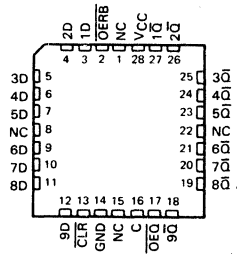


54ALS992 9-Bit D-Type Transparent Read-Back Latches w/3-State Output

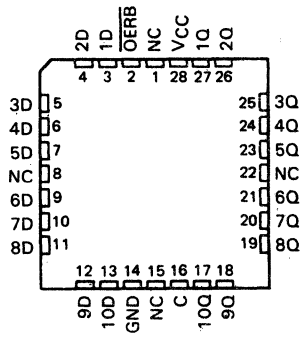


29. CIRCUIT DRAWINGS

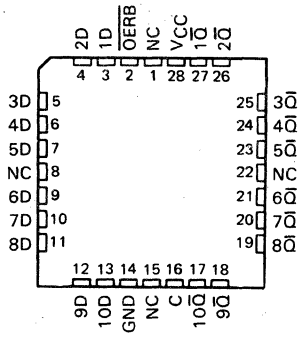
54ALS993 9-Bit D-Type Transparent Read-Back Latches w/3-State Output



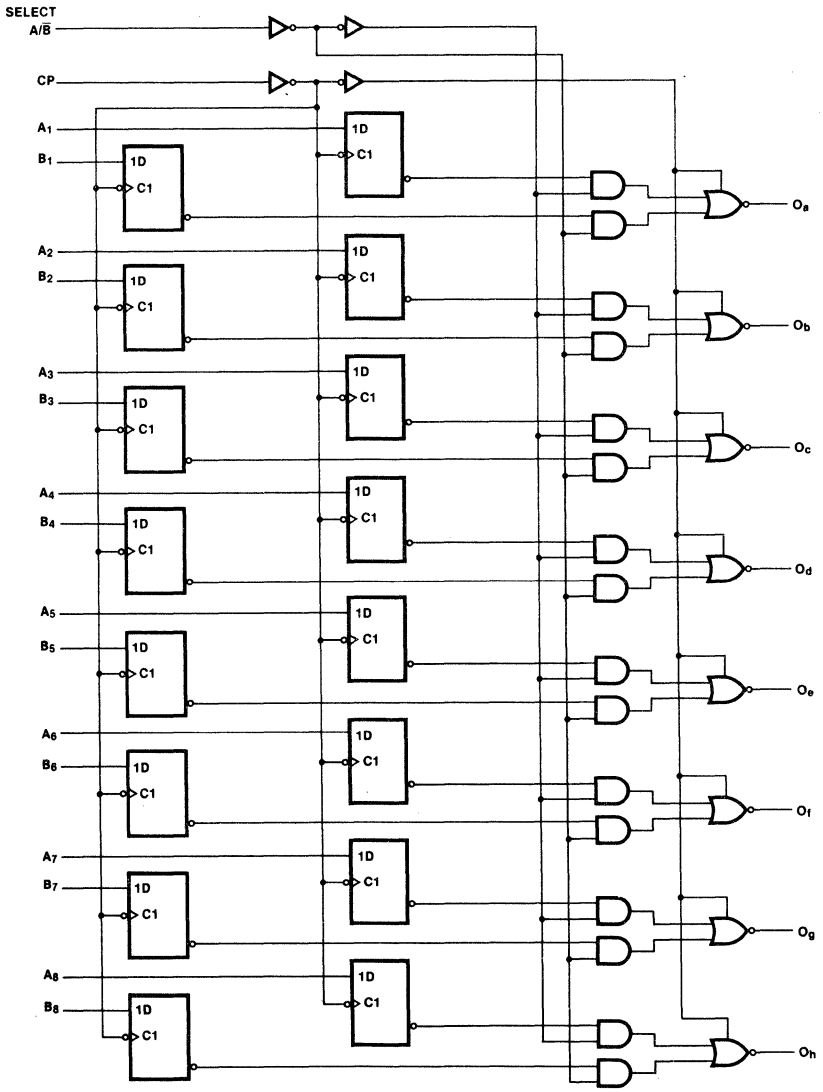
54ALS994 10-Bit D-Type Transparent Read-Back Latches



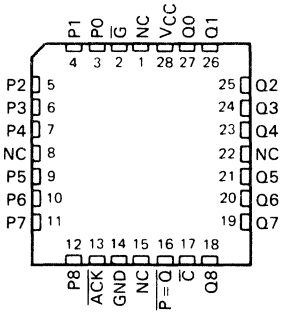
54ALS995 10-Bit D-Type Transparent Read-Back Latches



74-604 Dual Octal Registers w/Multiplexed 3-State Output

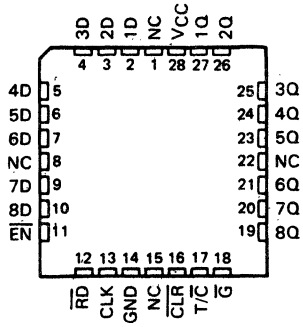


54ALS29809N 6-Bit Identity Comparator

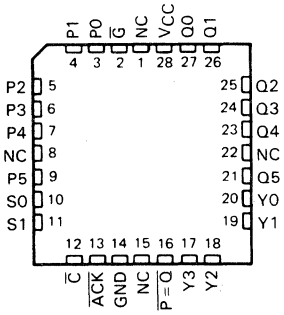


54ALS996

8-Bit D-Type Edge-Triggered Read-Back Latches

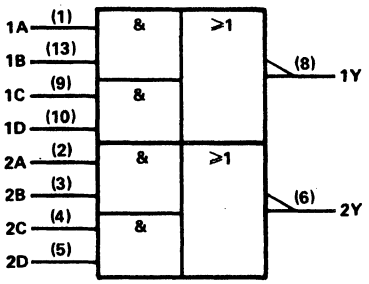


54ALS29806N 6-Bit Identity Comparator



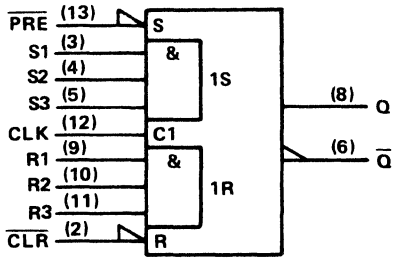
29. CIRCUIT DRAWINGS

74-51N Dual AND-OR-INVERT Gates

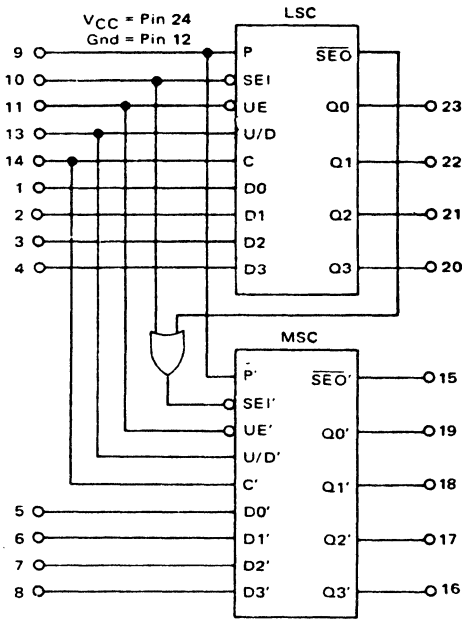


positive logic: $Y = \overline{AB+CD}$

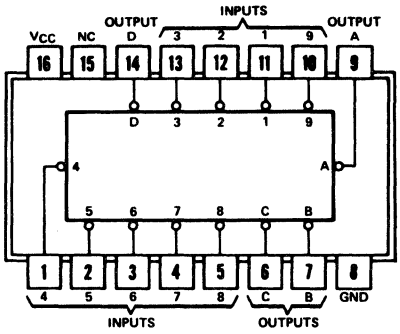
74-71N AND-Gated R-S Master-Slave Flip-Flop with Preset and Clear



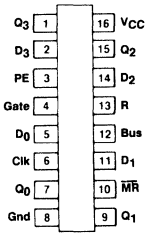
74-454P Dual Synchronous Decade Up/Down Counter with Preset Input



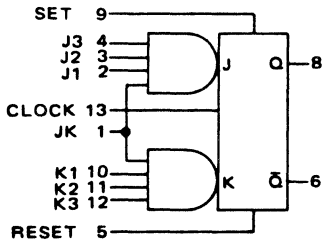
74-147N 10-Line Decimal to 4-Line BCD Priority Encoder



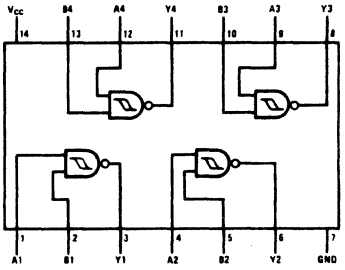
74LS716N Programmable Modulo-N Counter



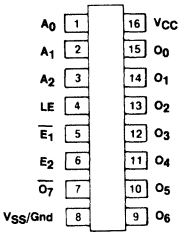
74H115P AND J-K Flip-Flop



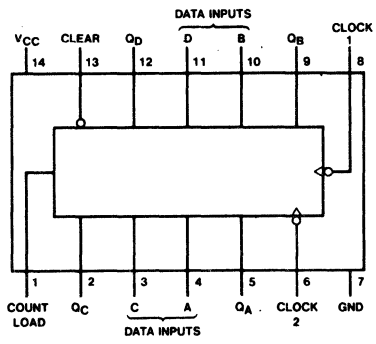
74LS132N Quad 2-Input NAND Gate



74SC137N 3-Line to 8-Line Decoder/Demultiplexer

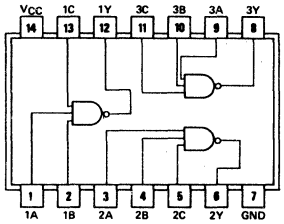


74LS197N Presettable Binary Counter

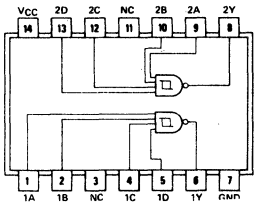


29. CIRCUIT DRAWINGS

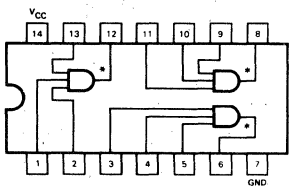
74-12N Triple 3-Input NAND Gates with Open Collector Output



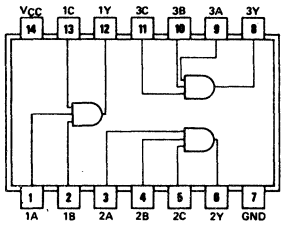
74-13N Dual 4-Input NAND Schmitt Trigger



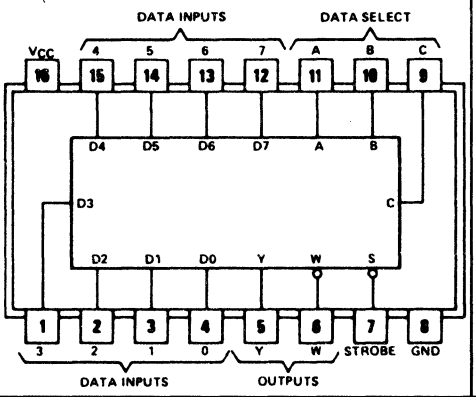
74-15N Triple 3-Input And Gate



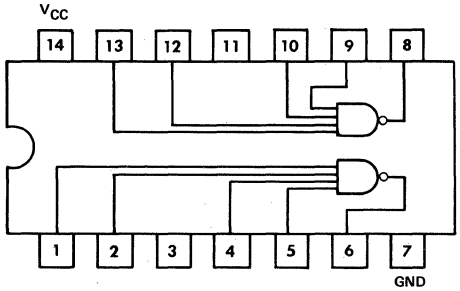
74H15N Triple 3-Input AND Gates with Open Collector Output



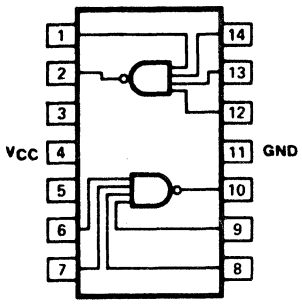
74-151N 1-of-8 Data Selector/Multiplexer



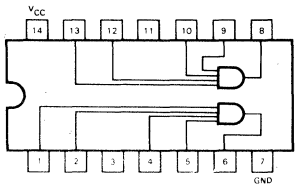
74-20N Dual 4-Input NAND Gate



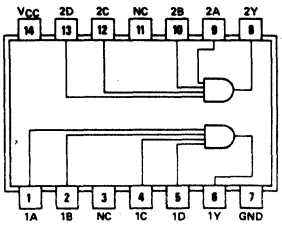
74H20N Dual 4-Input NAND Gates



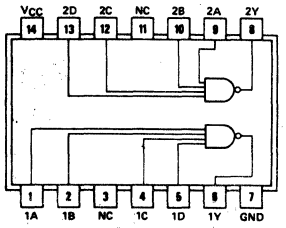
74-21N Dual 4-Input And Gate



74H21N Dual 4-Input AND Gates

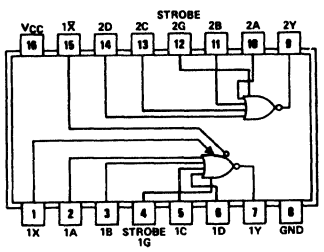


74-22N Dual 4-Input NAND Gates with Open Collector Output

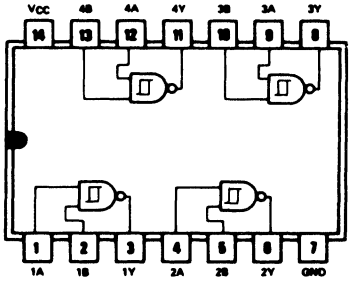


29. CIRCUIT DRAWINGS

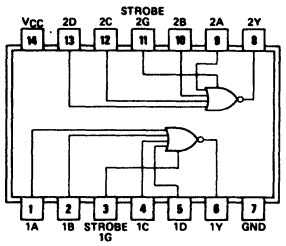
74-23N Expandable Dual 4-Input NOR Gates



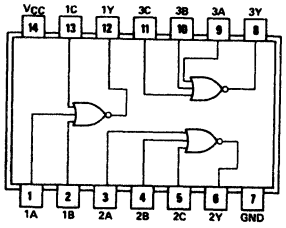
74LS24N Schmitt Tigger NAND Gates/ Inverter with Totem Pole Output



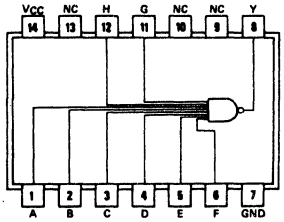
74-25N Dual 4-Input NOR Gates with Strobe



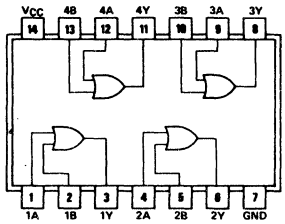
74-27N Triple 3-Input NOR Gates



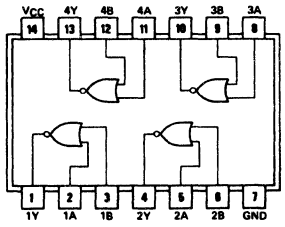
74-30N 8-Input NAND Gates



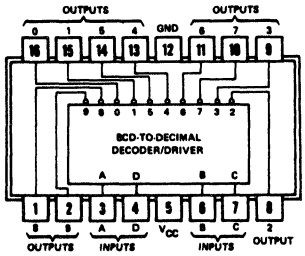
74-32N Quad 2-Input OR Gates



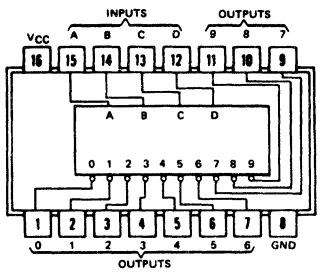
74-33N Quad 2-Input NOR Gates with Open Collector Output



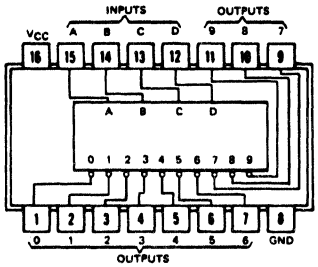
74-41N Nixie Drive



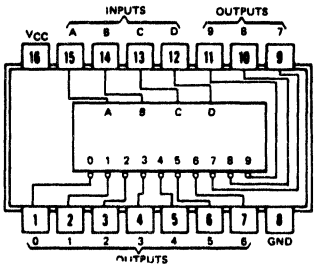
74-42N 4 Line to 10 Line BCD to Decimal Decoder



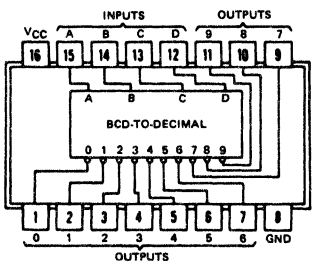
74-43N 4 Line to 10 Line Excess-3 to Decimal Decoder



74-44N 4 Line to 10 Line Excess 3-Gray to Decimal Decoder

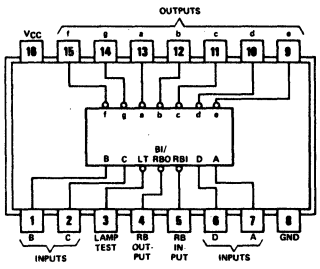


74-45N BCD to Decimal Decoder/Driver

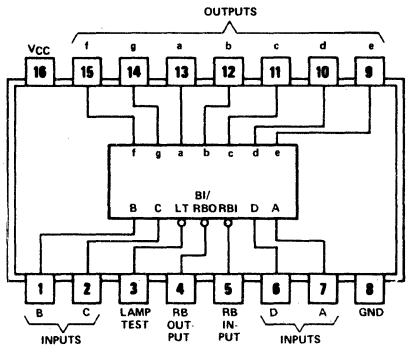


29. CIRCUIT DRAWINGS

74-46N BCD to 7 Segment Decoder/Driver with Open Collector Output

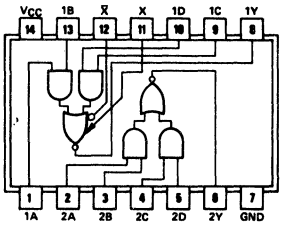


74-48N BCD-TO-Seven-Segment Decoder/Drivers



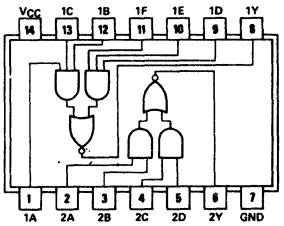
74-50N

Dual 2-Wide 2-Input AND -OR-INVERT Gates (One Gate Expandable)

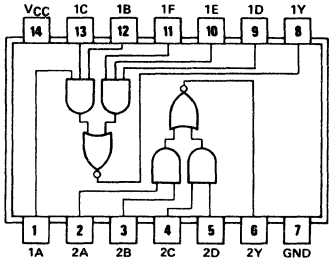


74L51N

Dual 2-Wide 2-Input AND-OR-INVERT Gates

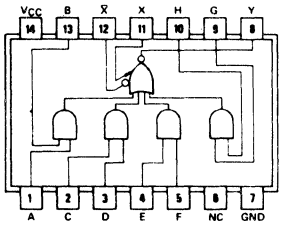


74LS51N Dual 2-Wide 2-Input AND-OR-INVERT Gates



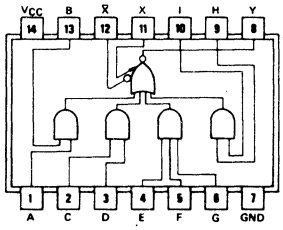
74-53N

Expandable 4-Wide AND-OR-INVERT Gates

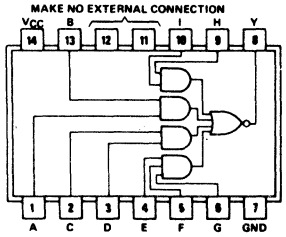


74H53N

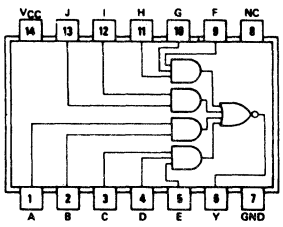
Expandable 4-Wide AND OR INVERT Gates



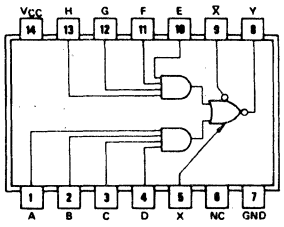
74H54N 4-Wide AND OR INVERT Gates



74L54N 3-2-2-3-Input AND-OR-Invert Gate



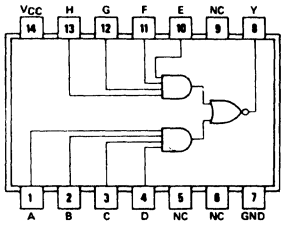
74H55N 4-Wide AND-OR-INVERT Gates



29. CIRCUIT DRAWINGS

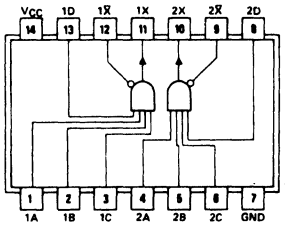
74L55N

2-Wide 4-Input AND-OR-INVERT Gates



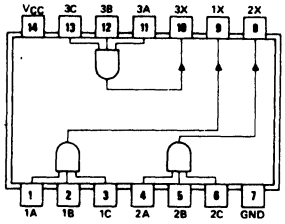
74-60N

2-Wide 4-Input AND-OR-INVERT Gates



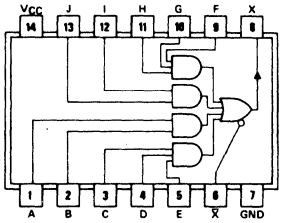
74H61N

Triple 3-Input Expanders

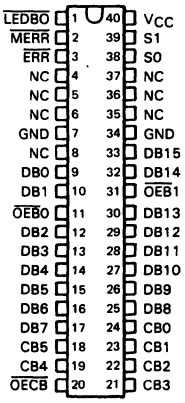


74H62N

4-Wide AND-OR Expanders

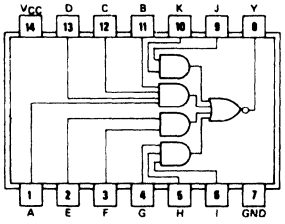


74ALS616 Error Detection & Correction



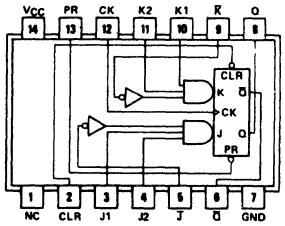
74S65N

4-Wide AND-OR-INVERT Gates with Open Collector Outputs

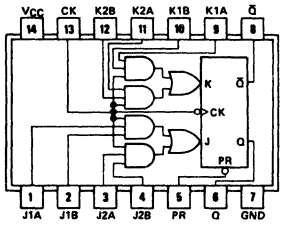


74-70N

And Gated J-K Positive Edge Triggered Flip-Flop with Preset and Clear

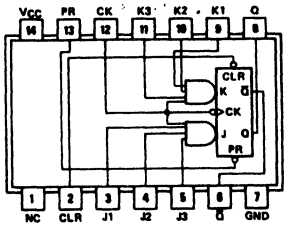


74H71N AND-OR Gated J-K Master/Slave Flip Flop with Preset



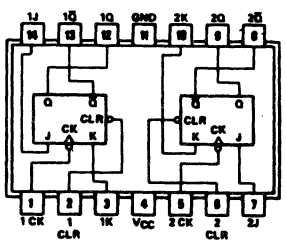
74L71N
74L72

AND-Gated * Master/Slave Flip-Flop with Preset

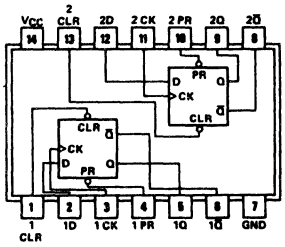


***74L71N = RS**
74L72 = JK

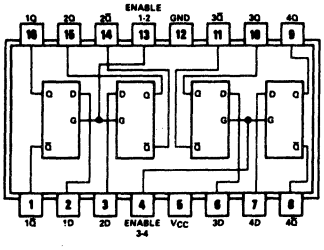
74-73N Dual J-K Flip-Flop with Clear



74-74N Dual D-Type Positive Edge Triggered Flip-Flop with Preset and Clear

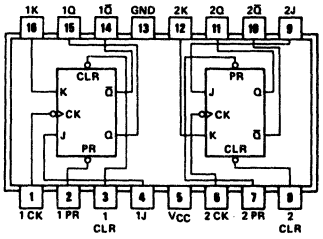


74-75N 4-Bit Bistable Latch

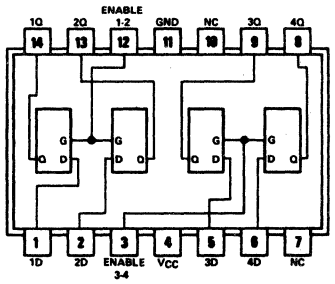


29. CIRCUIT DRAWINGS

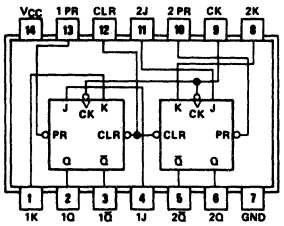
74LS76N Dual J-K Flip-Flop with Preset and Clear



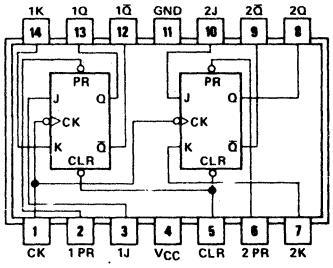
74LS77N 4-BitBistable Latch



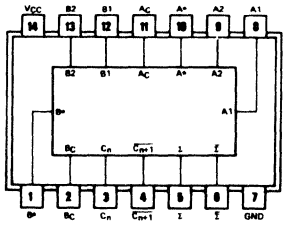
74H78N Dual J-K Flip-Flop with Preset, Common Clear and Common Clock



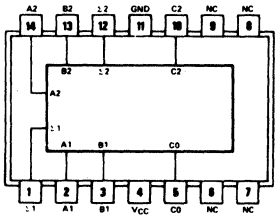
74L78N



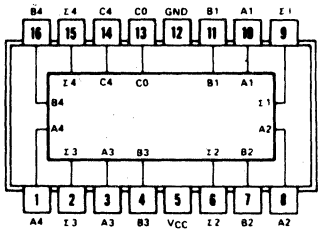
74-80N Gated Full Adders



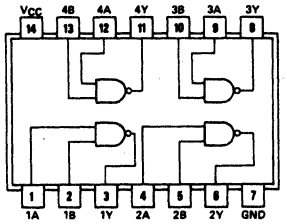
74-82N 2-Bit Binary Full Adders



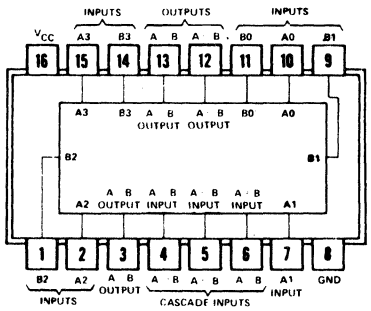
74-83N 4-Bit Binary Full Adder with Fast Carry



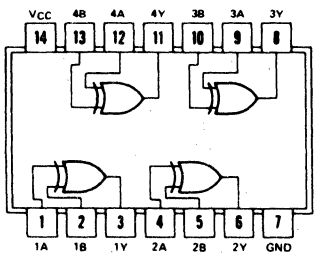
74-00N Quad 2-Input NAND Gates



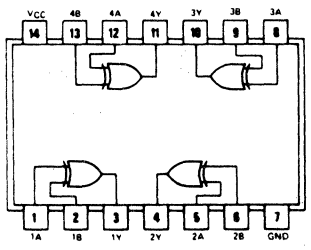
74L85N 4-Bit Magnitude Comparator



74-86N Quad 2-Input Exclusive OR Gates

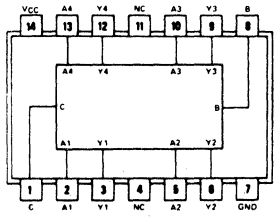


74L86N Quad 2-Input Exclusive Or Gates



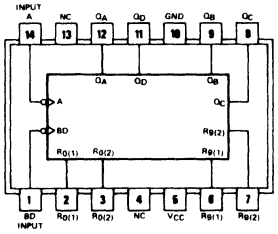
74H87N

4-Bit True/Complement, Zero/One Elements

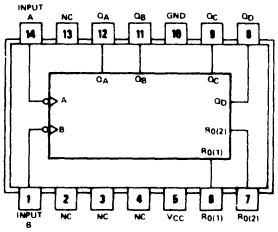


29. CIRCUIT DRAWINGS

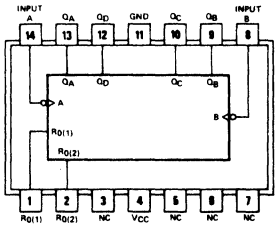
74-90N Decade Counter
Divide by Two/Divide by Five



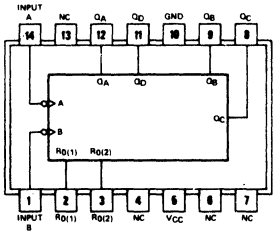
74-92N Divide by 12 Counter
Divide by Two/Divide by Six



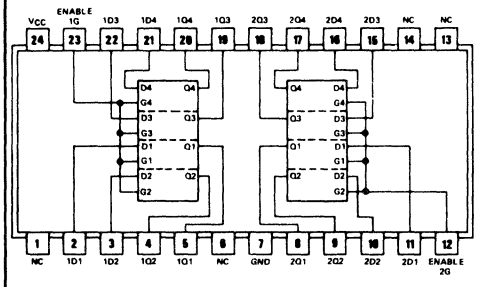
74L93N 4-Bit Binary Counter
Divide by Two/Divide by Eight



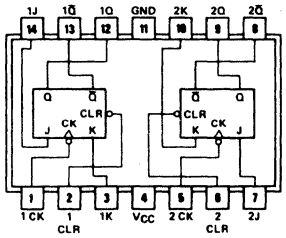
74LS93N 4-Bit Binary Counter
Divide by Two/Divide by Eight



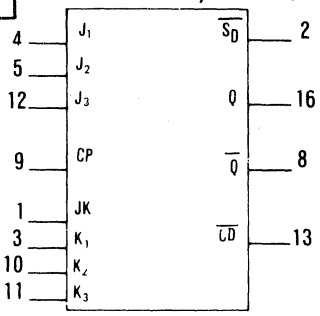
74-100N Dual 4-Bit Latch



74H103 Dual J-K Negative Edge Triggered
Flip-Flop with Clear



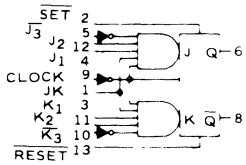
74-104N Gated J-K Master/Slave Flip-Flop



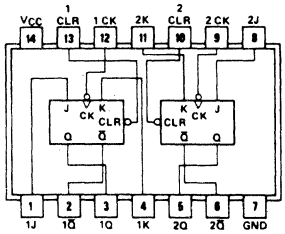
Vcc = pin 14

Gnd = pin 7

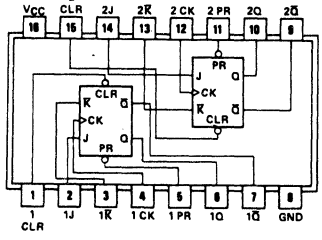
74-105N Gated J-K Master/Slave Flip-Flop



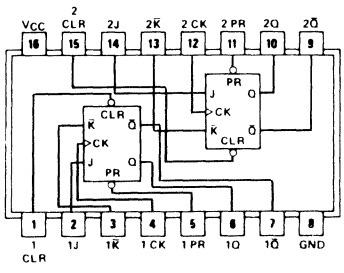
74-107N Dual J-K Master/Slave Flip-Flop
with Clear



74-109N Dual J-K Positive Edge Triggered
Flip-Flop with Preset and Clear

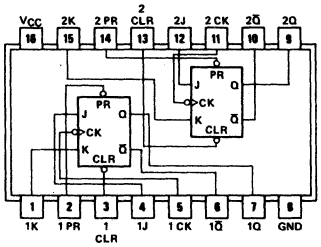


74LS109N Dual J-k Positive Edge Triggered
Flip-Flop

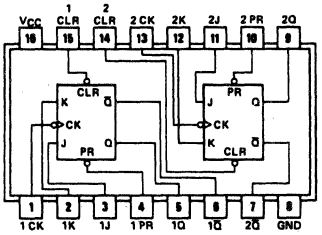


29. CIRCUIT DRAWINGS

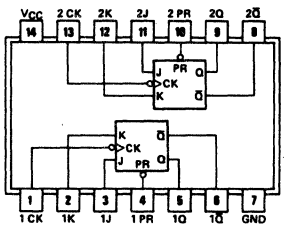
74-111N Dual J-K Master/Slave Flip-Flop with Data Lockout



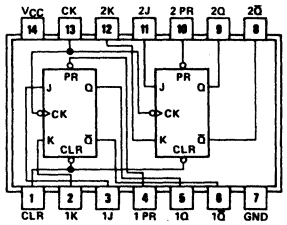
74LS112N Dual J-K Negative Edge Triggered Flip-Flop with Preset and Clear



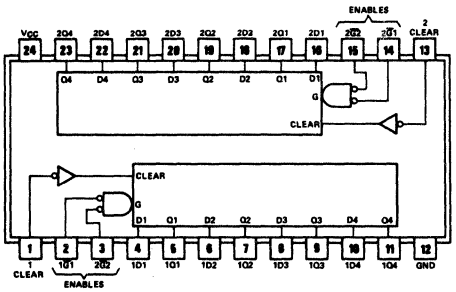
74LS113N Dual J-K Negative Edge Triggered Flip-Flop with Preset



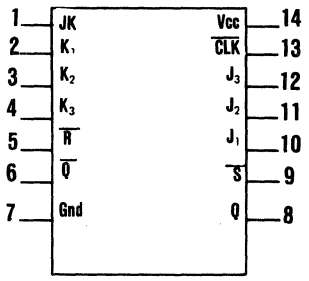
74LS114N Dual J-K Negative Edge Triggered Flip-Flop with Preset, Common Clear and Common Clock



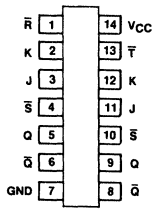
74-116N Dual 4-Bit Latch



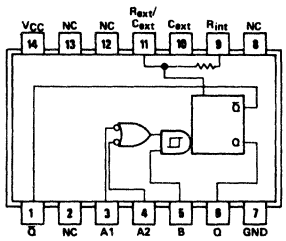
74H116P AND Input J-K Flip-Flop



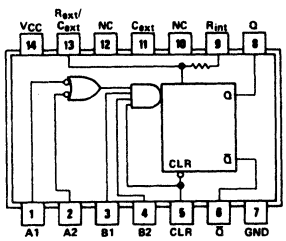
74H119P Dual J-K Flip-Flop



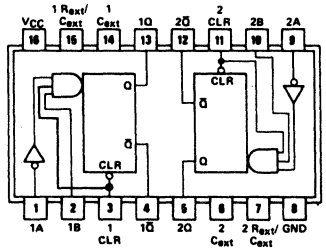
74-121N Monostable Multivibrator



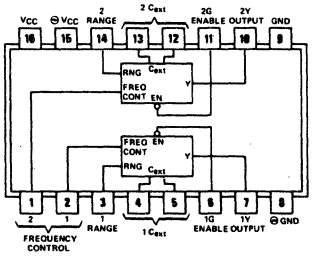
74-122N Retriggerable Monostable Multivibrator with Clear



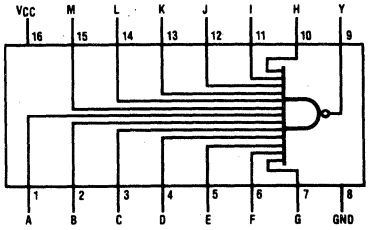
74-123N Dual Retriggerable Monstable Multivibrator with Clear



74LS124N Dual Volt Controlled Oscillator with Enable Inputs

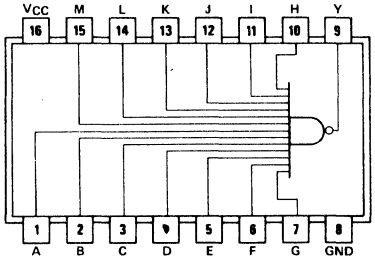


74-133N 13-Input NAND Gate

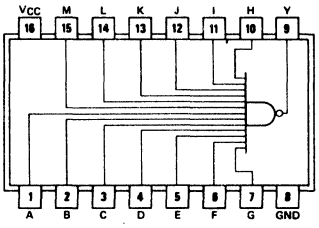


29. CIRCUIT DRAWINGS

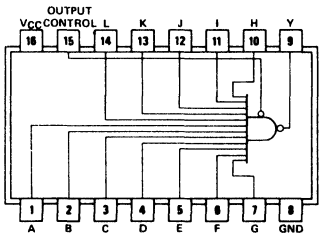
74S133N 13-Input Positive-NAND



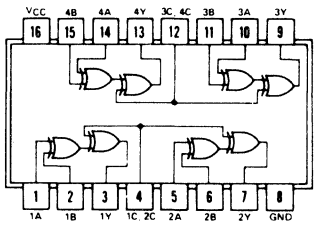
74LS133N 13-Input NAND Gates



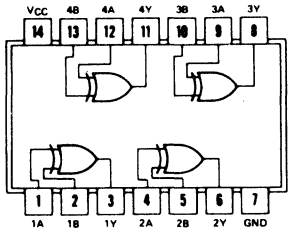
74S134N 12 Input NAND Gates with 3-State



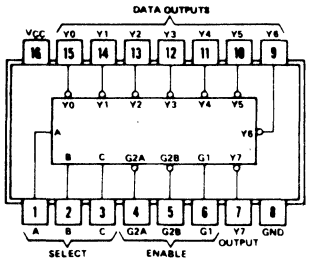
74S135N Quad Exclusive OR/NOR Gates



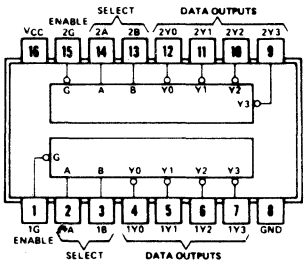
74-136N Quad Exclusive OR Gates



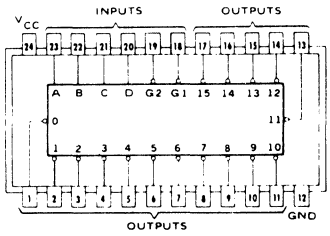
74S138N 3-8 Line Decoder/Multiplexer



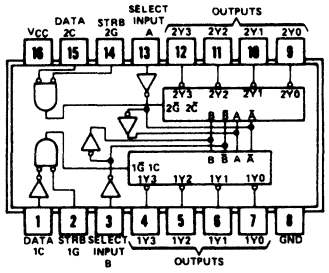
74S139N Dual 2-4 Line Decoder/Multiplexer



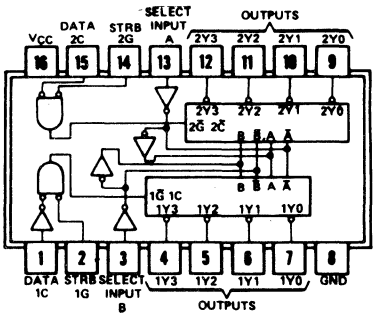
74-154N 4-Line to 16 Line Decoder/Demultiplexer



74-155N Decoder/Demultiplexer with Totem-Pole Output



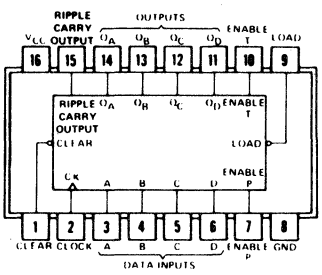
74-156N Decoder/Demultiplexer with Open Collector Output



29. CIRCUIT DRAWINGS

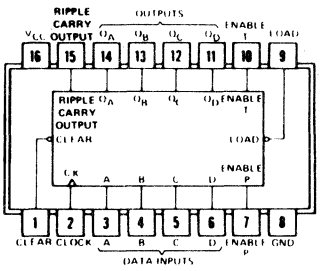
74-162N

Synchronous 4-Bit Decade Counter with Synchronous Clear



74-163N

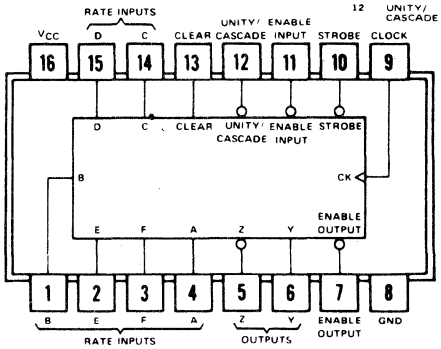
Synchronous 4-Bit Binary Counter with Synchronous Clear



74-167N

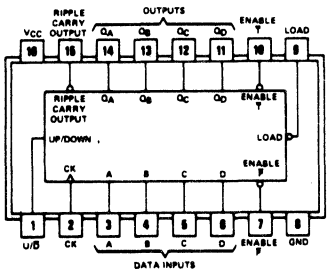
Synchronous Decade Rate Multiplier

Pin	
7	ENABLE OUTPUT
10	STROBE
11	ENABLE INPUT
12	UNITY/ CASCADE



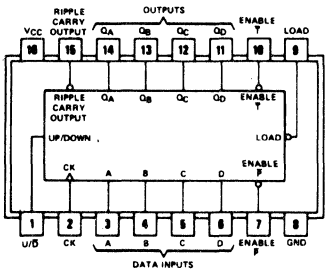
74S168N

4- Bit Up/Down Synchronous Decade Counter



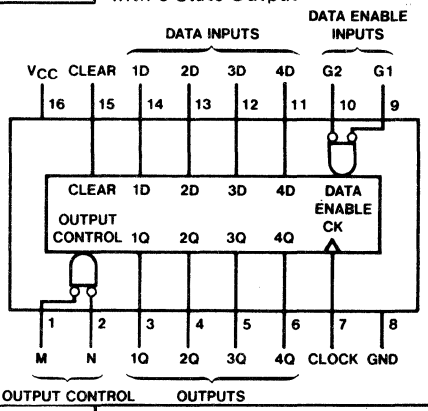
74S169N

4-Bit Up/Down Synchronous Binary Counter



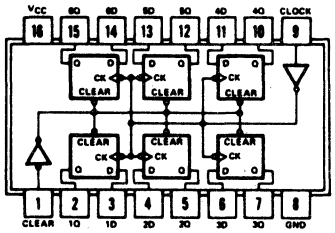
74-173N

Quad D-Type Flip Flop with 3-State Output



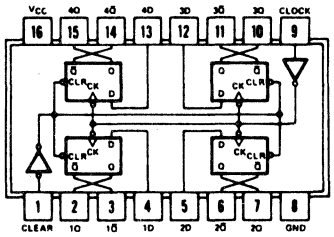
74-174N

Hex D-Type Flip-Flop with Single Rail Output



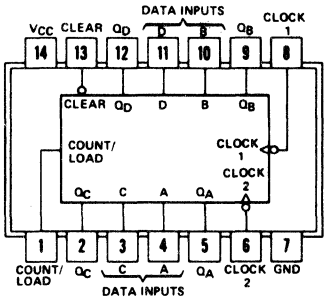
74-175N

Quad D-Type Flip-Flop



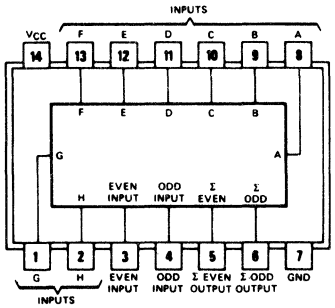
74-176N

Presentable Decade (Bi-Quinary) Counter / Latch



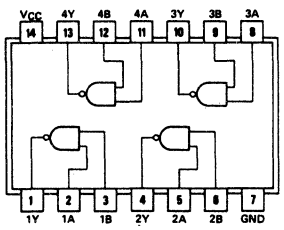
74-180N

9-Bit Odd/Even Parity Generator/Checker



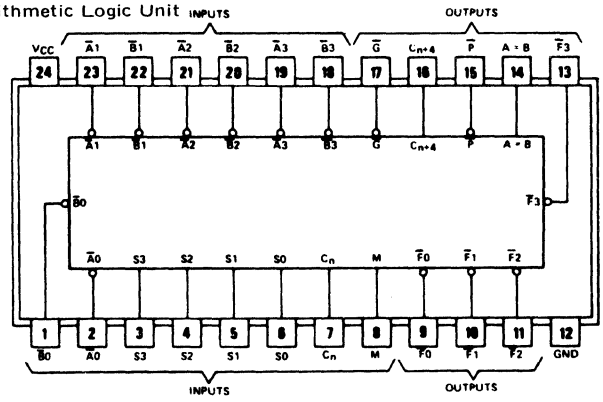
74-01N

Quad 2-Input NAND Gates with Collector Output

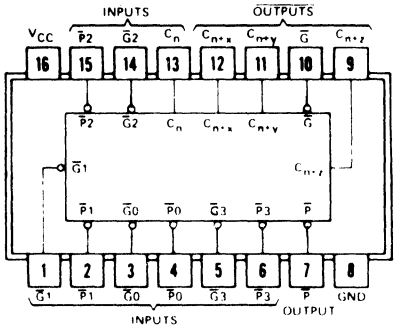


29. CIRCUIT DRAWINGS

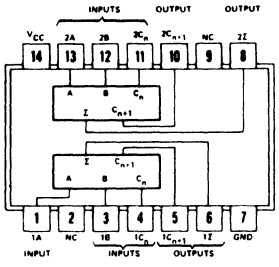
74-181N 4-Bit Arithmetic Logic Unit



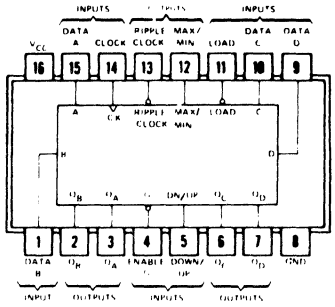
74-182N Look-Ahead Carry Generator



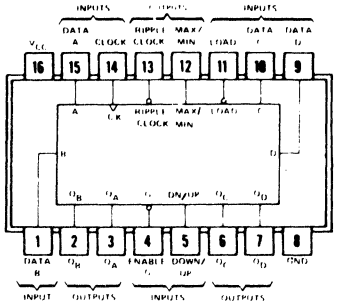
74H183N Dual Carry Save Full Adder



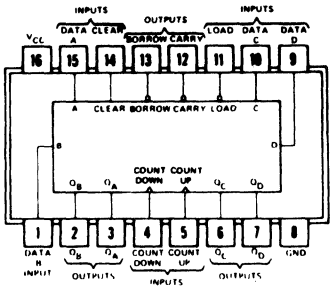
74-190N Synchronous Up/Down Decade Counter



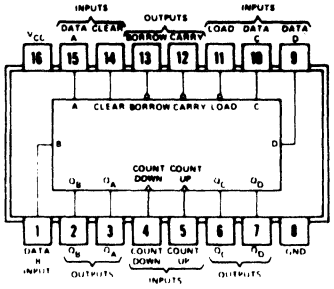
74-191N Synchronous Up/Down Binary Counter



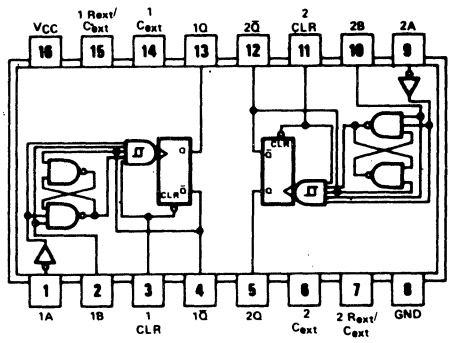
74-192N Synchronous Up/Down Dual Clock Decade Counter



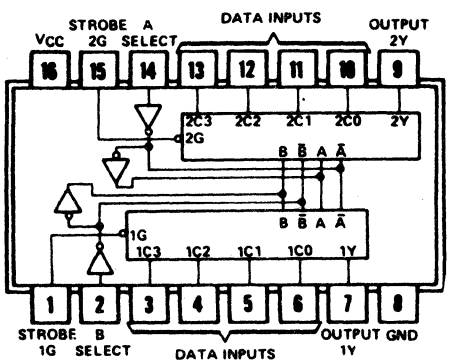
74-193N Synchronous Up/Down Dual Binary Clock Counter with Clear



74-221N Dual Monostable Multivibrator

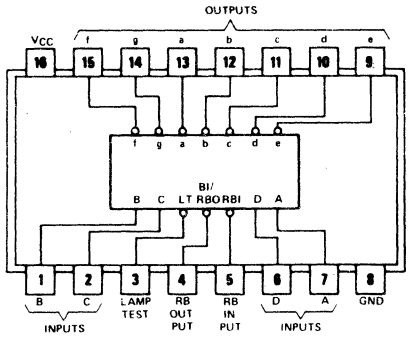


74-153N Dual 4-Line to 1-Line Data Selector/Multiplexer

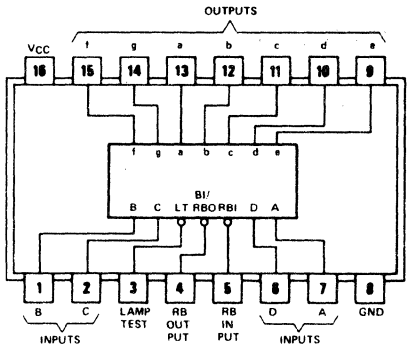


29. CIRCUIT DRAWINGS

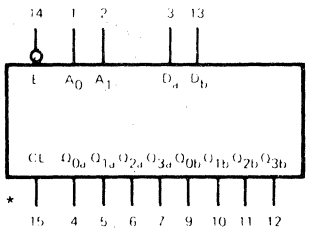
74-246 Segment Decoder/Driver



74-248N Decoder/Driver



74LS256N Dual 4-Bit Addressable Latch

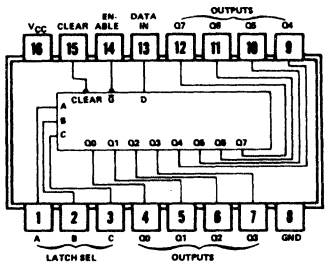


V_{CC} OR V_{DD} = PIN 16

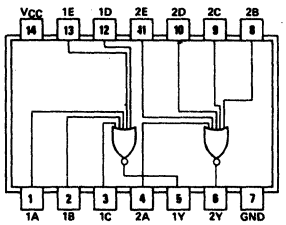
GND OR V_{SS} = PIN 8

* Clock for b Section is Active Low

74-259N 8-Bit Addressable Latch

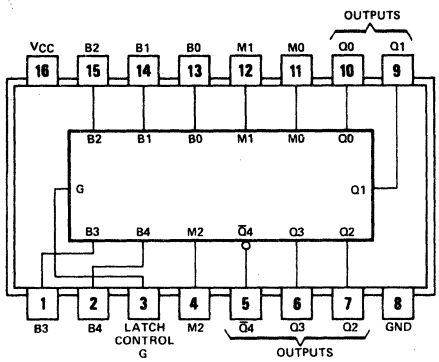


74S260N Dual 5-Input NOR Gates

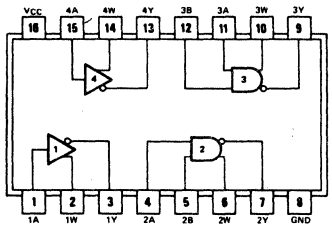


74LS261N 2-Bit-by-4-Bit Parallel Binary Multiplier

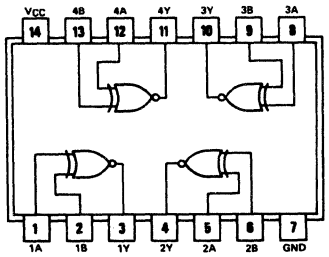
(TOP VIEW)



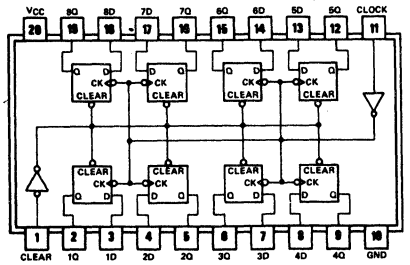
74-265N Quad Complementary Output Element



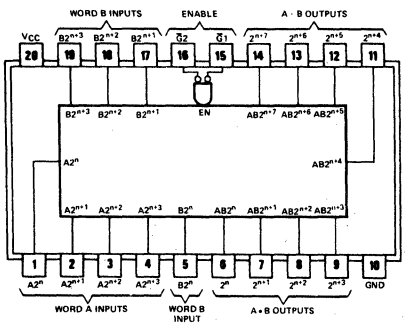
74LS266N Quad 2-Input Exclusive NOR Gates with Open Collector Output



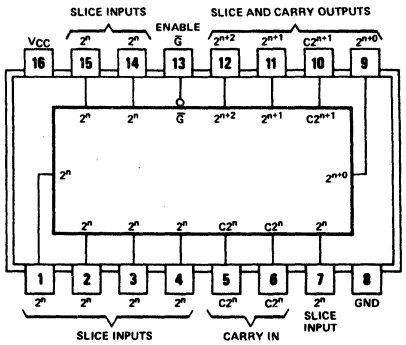
74-273N Octal D-Type Flip-Flop



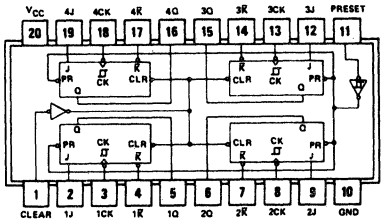
74S274 4-Bit-by-4-Bit Binary Multiplier with 3-State Outputs.



74S275 7-Bit-Slice Wallace Trees with 3-State Outputs

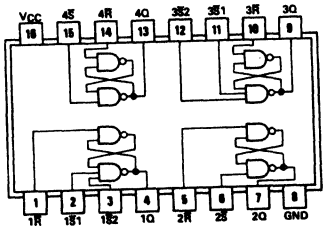


74-276N Quad J-$\overline{K}$ Flip-Flop

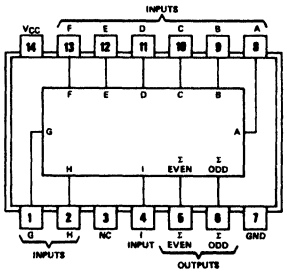


29. CIRCUIT DRAWINGS

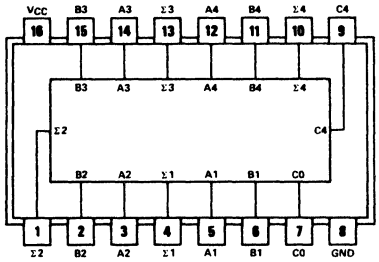
74-279N Quad $\overline{S}$-$\overline{R}$ Latch with Totem Pole Output



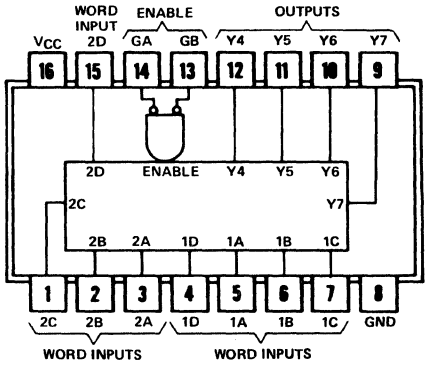
74S280N 9-Bit Odd/Even Parity Generator Checker N-Bit Cascodeable



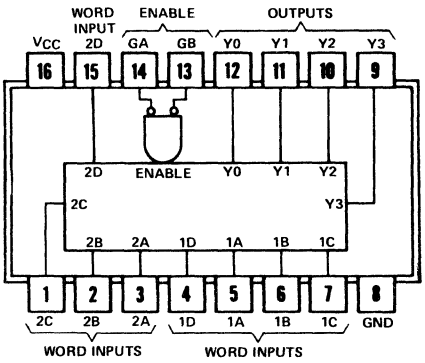
74-283N 4-Bit Binary Full Adder with Fast Carry



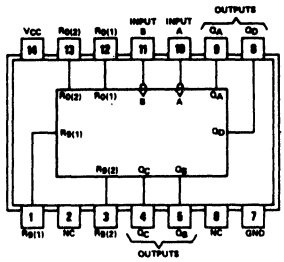
74-284N 4-Bit by 4-Bit Parallel Binary Multiplier



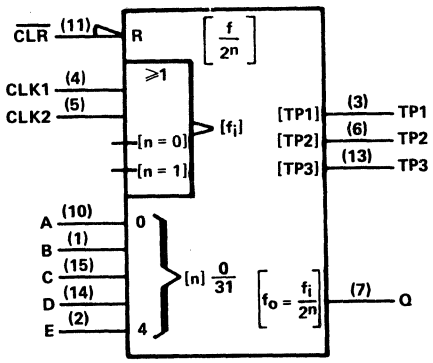
74-285N 4-Bit by 4-Bit Parallel Binary Multiplier



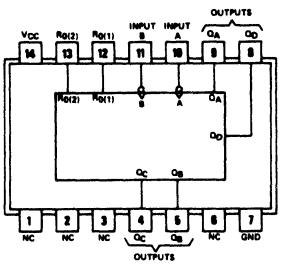
74-290N 4-Bit Decade Counter Divide by Two/Divide by Five



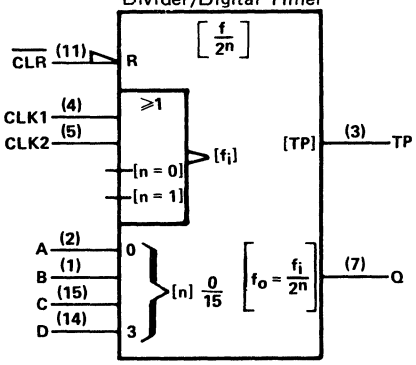
74LS292N Programmable Frequency Divider/Digital Timer



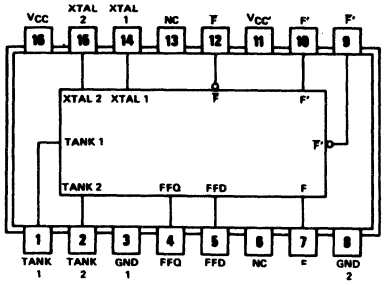
74-293N 4-Bit Binary Counter Divide by Two/Divide by Eight



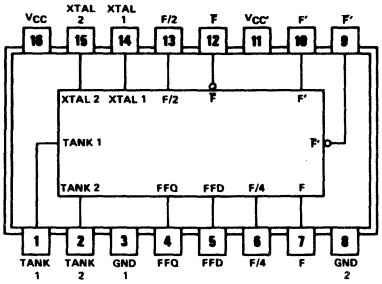
74LS294N Programmable Frequency Divider/Digital Timer



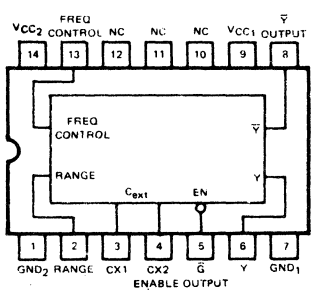
74LS320 Hex D Flip-Flop



74LS321N Hex D Flip-Flop

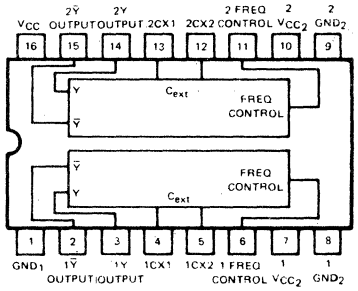


74LS324N Voltage-Controlled Oscillators

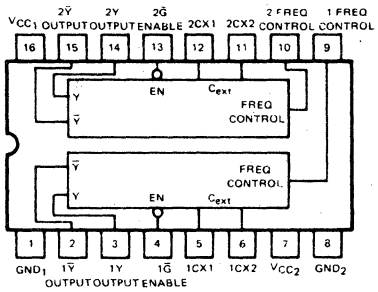


29. CIRCUIT DRAWINGS

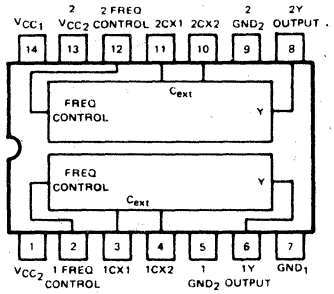
74LS325N Voltage-Controlled Oscillators



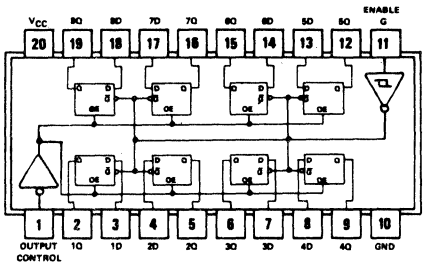
74LS326N Voltage-Controlled Oscillators



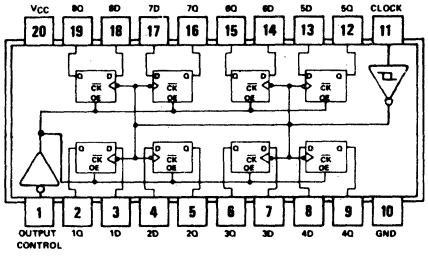
74LA327N Voltage-Controlled Oscillators



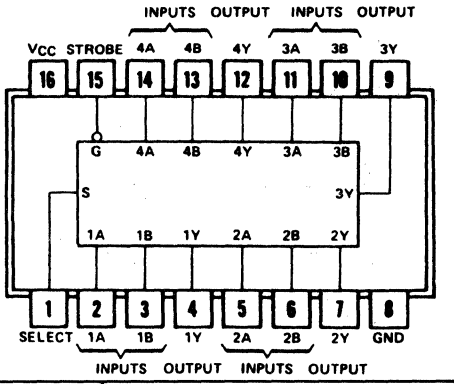
74LS363N Octal D-Type Latch with 3-State Output



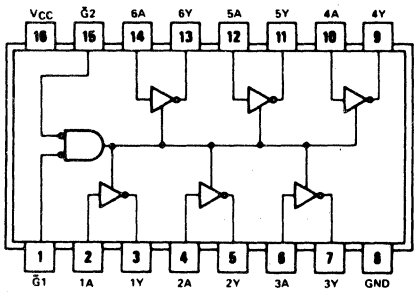
74LS364N Octal D-Type Flip Flop with 3-State Output



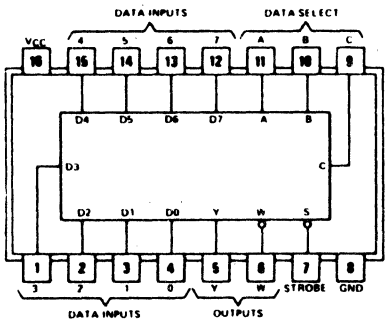
74-157N Quad 2-Line to 1-Line Data Selector/Multiplexer



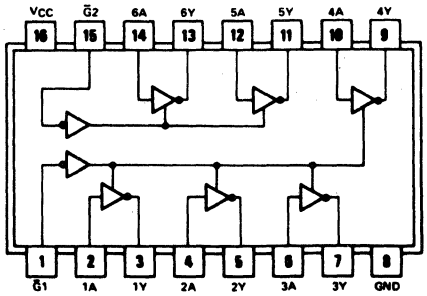
74-366N Hex Bus Driver with Inverted 3-State Outputs



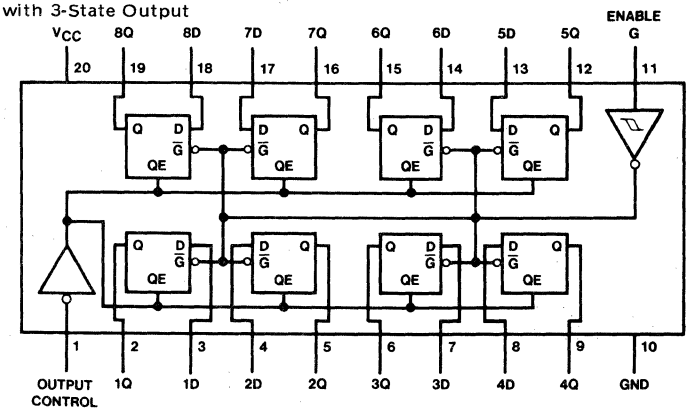
74-251N Data Selector/Multiplexer



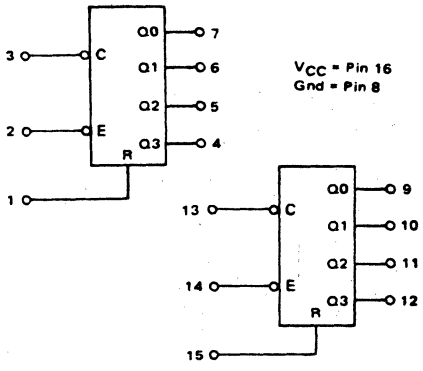
74-368N Hex Bus Driver with Inverted 3-State Outputs



74LS373N Octal D-Type Latch with 3-State Output

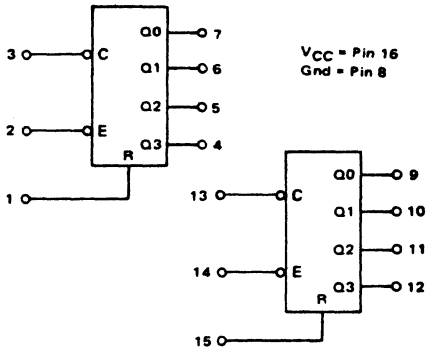


74-452N Dual Synchronous Decade Counter

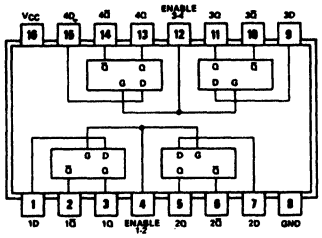


29. CIRCUIT DRAWINGS

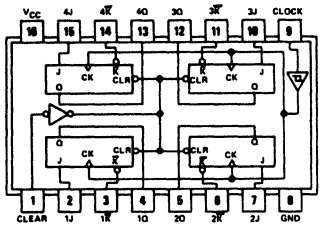
74-453N — Dual Synchronous Binary Counter



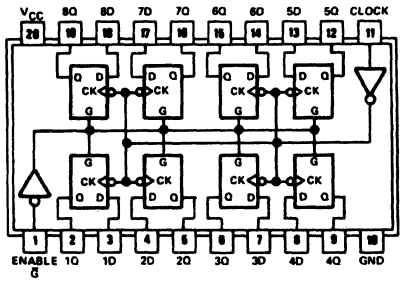
74LS375N — 4-Bit Bistable Latch



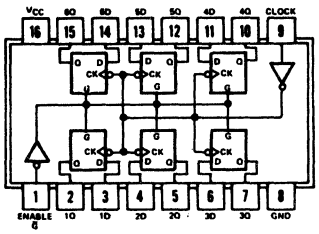
74-376N — Quad J-$\overline{K}$ Flip-Flop Common Clock and Common Clear



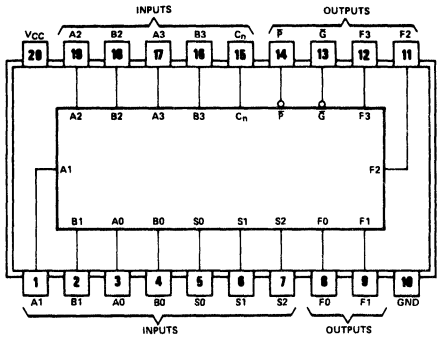
74LS377N — Octal D-Type Flip-Flop with Single Rail Output, Common Enable, Common Clock



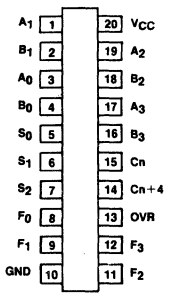
74LS378N — Hex D-Type Flip-Flop with Single Rail Output



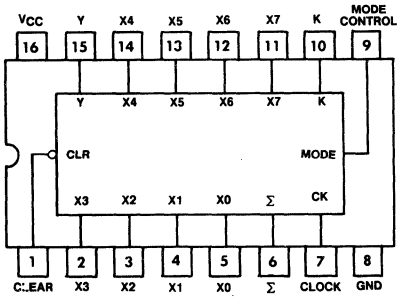
74LS381N — Arithmetic Logic Unit/ Function Generator



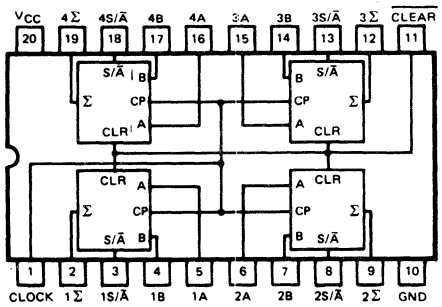
74LS382N — Arithmetic Logic Unit/ Function Generator



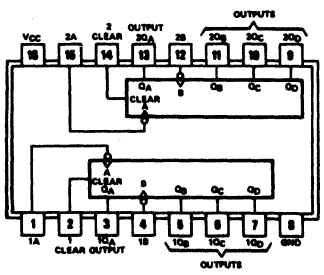
74LS384N — 8-Bit by 1-Bit Two's-Compliment Multiplier



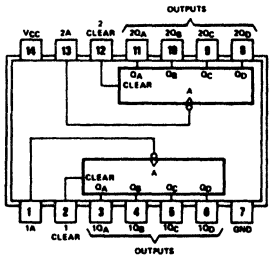
74LS385N — Quad Serial Adder/Subtractor



74-390N — Dual Decade Counters BiQuniary/BCD Sequences



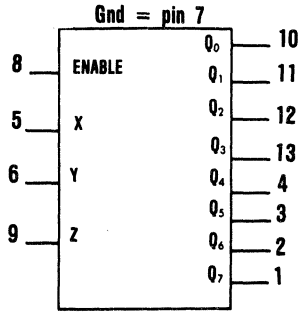
74-393N — Dual 4-Bit Binary Counter



74-406 — Binary to 1 or 8 Line Decoder

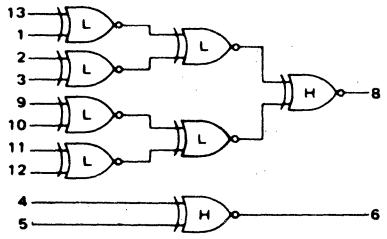
Vcc = pin 14

Gnd = pin 7



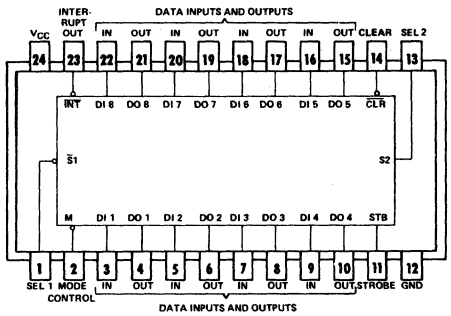
29. CIRCUIT DRAWINGS

74-408P — 8-Bit Parity Tree

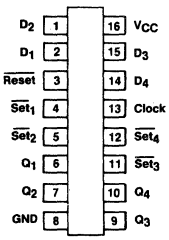


V_{CC} = PIN 14
GND = PIN 7

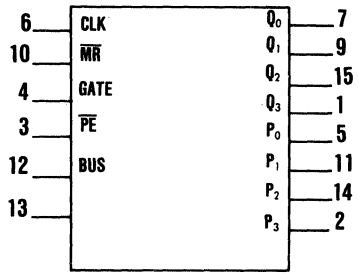
74LS412N — Multi-Mode Buffered Latch with 3-State Outputs



74-415N — Quad D Type Flip-Flop

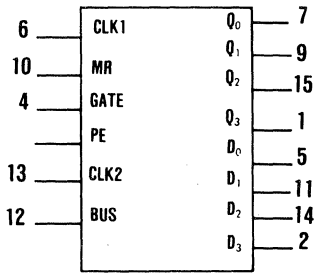


74-416N — Programmable Modulo N-Decade Counter



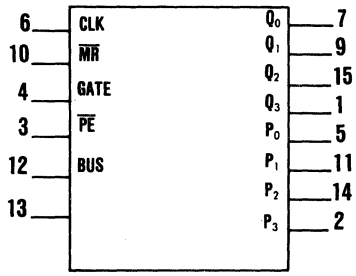
Vcc = pin 16
Gnd = pin 8

74-417N — Programmable Modulo 2, Modulo 5 Counter



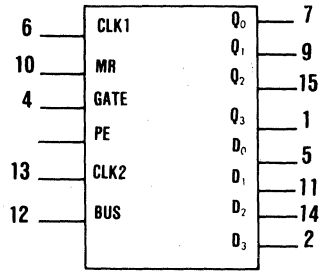
Vcc = pin 16
Gnd = pin 8

74-418N — Programmable Modulo N-Hexadecimal Counter



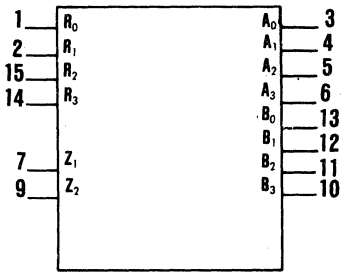
Vcc = pin 16
Gnd = pin 8

74-419N — Dual Programmable Modulo 4 Counter



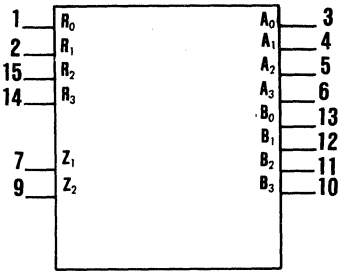
Vcc = pin 16
Gnd = pin 8

74-421N — Dual 4-Bit Comparator with Open Collector Outputs



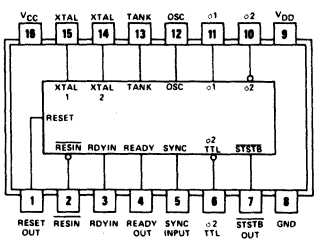
Vcc = pin 16
Gnd = pin 8

74-422N — Dual 4-Bit Comparator

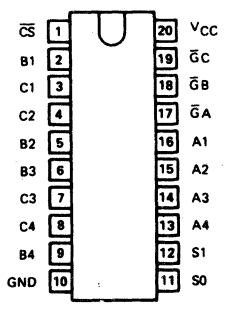


Vcc = pin 16
Gnd = pin 8

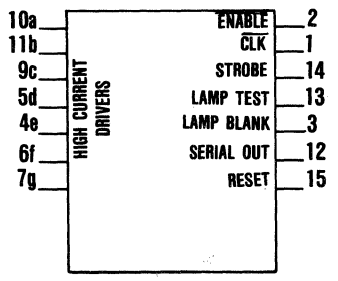
74LS424 — Two Phase Clock Generator/ Driver for 8080A



74LS442N — Quad TriDirectional Bus Transceiver with 3-State Outputs



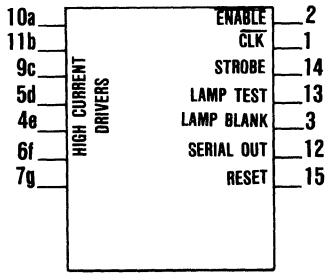
74-450N — Counter-Latch Decoder



Vcc = pin 16
Gnd = pin 8

29. CIRCUIT DRAWINGS

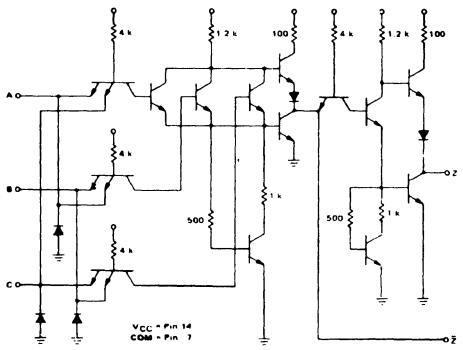
74-451N — Counter-Latch Decoder



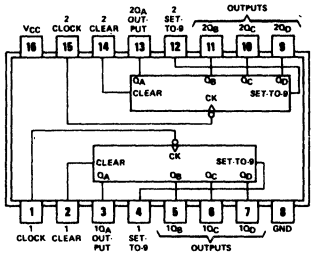
Vcc = pin 16
Gnd = pin 8

74-462 — Dual Majority Logic Gate

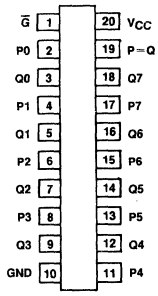
CKT	A	B	C	Z	Z
1	1	2	3	5	4
2	13	12	11	8	10



74-490N — Dual Decade Counter

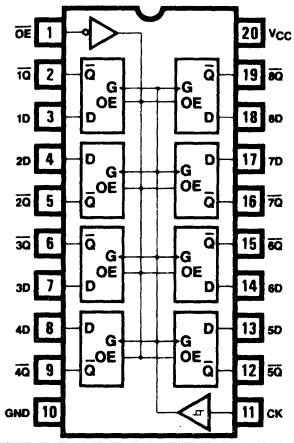


74LS521 — 8-Bit Identity Comparator

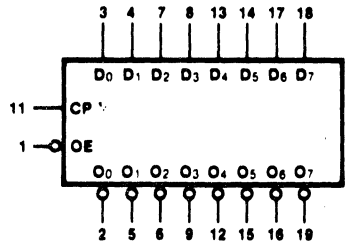


74LS533N

8-Bit Latch Transparent D-Type Inverting with 3-State Output

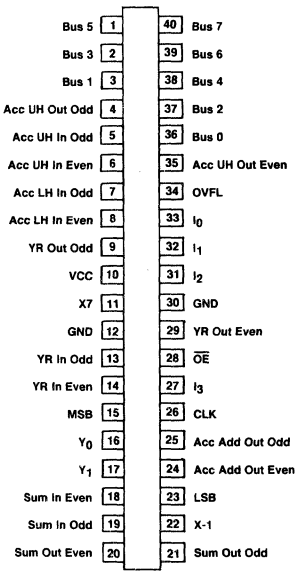


74LS534N — Octal D-Type Edge Triggered Inverting Flip-Flop with 3-State Output

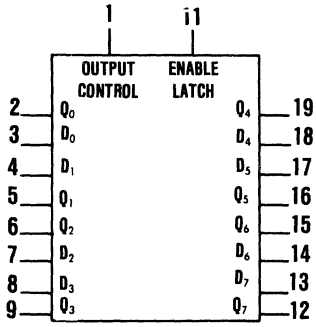


Vcc = Pin 20
GND = Pin 10

74-558N — Multiplier

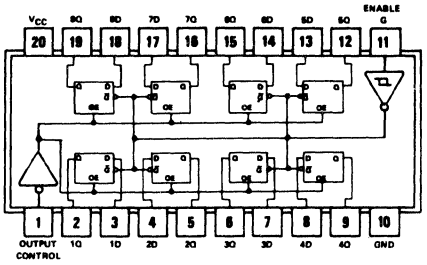


74LS563N — 8-Bit Latch Transparent D-Type with 3-State Output

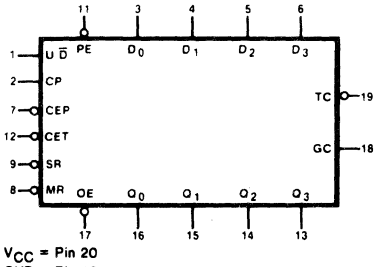


Vcc = pin 20
Gnd = pin 10

74LS564N — Octal D-Type Edge Triggered Flip Flop Inverting w/3-State Output

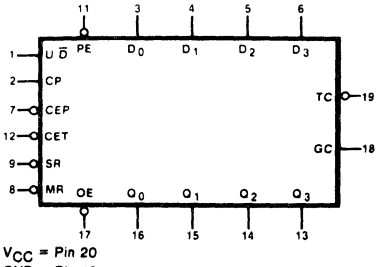


74LS568N — Up/Down Decade Counter with 3-State Output



VCC = Pin 20
GND = Pin 10

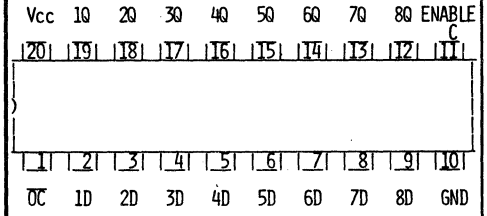
74LS569N — Up/Down Binary Counter with 3-State Output



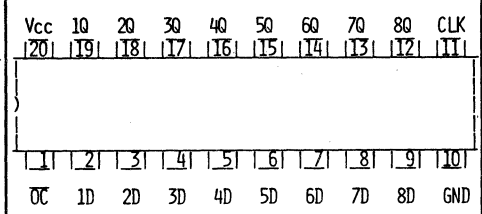
VCC = Pin 20
GND = Pin 10

29. CIRCUIT DRAWINGS

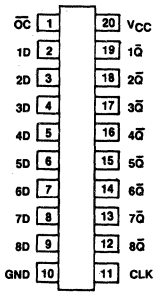
74LS573N Octal D-Type Latch with 3-State Output



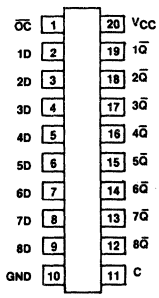
74LS574N Octal D-Type Flip Flop with 3-State Output



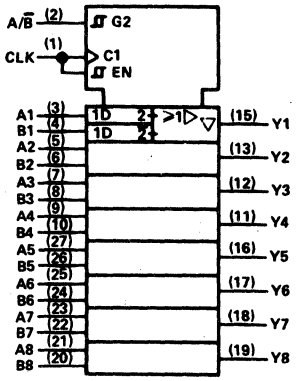
74AS576 Octal D-Type Edge-Triggered Flip-Flop with 3-State Output



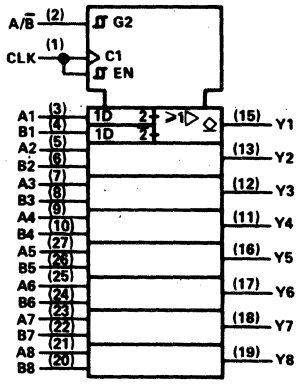
74AS580 Octal D-Type Transparent Latch with 3-State Output



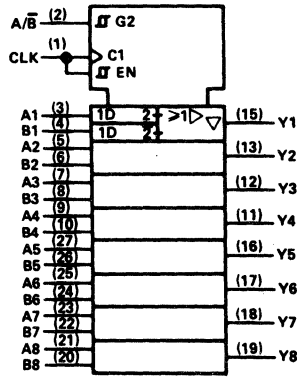
74LS604N Octal 2-Input Multiplexed Latch with Open Collector Output



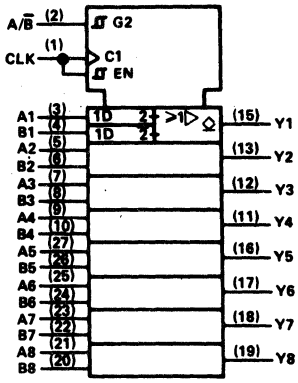
74LS605N Octal 2-Input Multiplexed Latch with 3-State Output



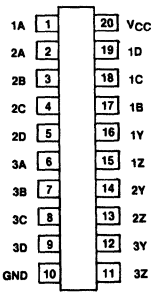
74LS606N Octal 2-Input Multiplexed Latch with 3-State Output



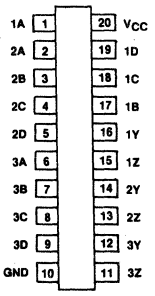
74LS607N Octal 2-Input Multiplexed Latch with Open Collector Output



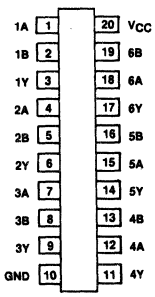
74AS800 Triple 4-Input AND/NAND Driver



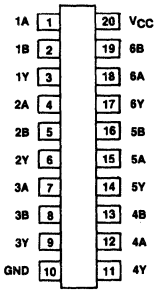
74AS802 Triple 4-Input OR/NOR Line Driver



74AS804 Hex 2-Input NAND Driver

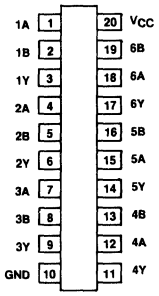


74AS808 Hex 2-Input AND Driver

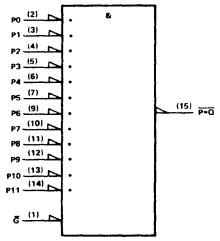


29. CIRCUIT DRAWINGS

74AS832 Hex 2-Input-OR-Driver

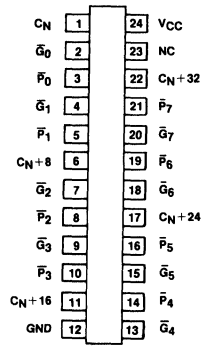


74ALS528N Fuse Programmable 12-Bit Identity Comparator

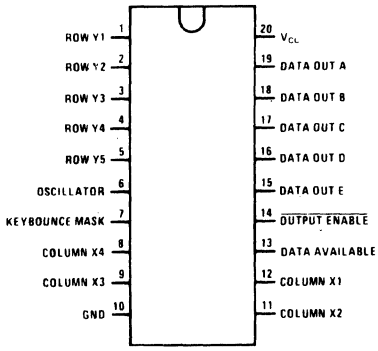


*These inputs can be programmed to be active high. The asterisk is not a part of the symbol. For correct symbol for the programmed device, delete the polarity symbol (▬►) at any input whose programming fuse has been blown.

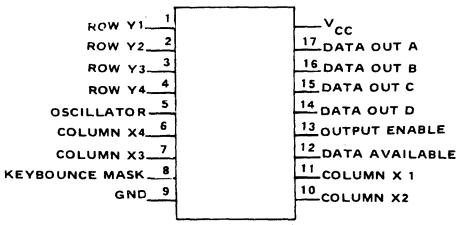
74AS882N 32-Bit Look-Ahead Carry Genorator



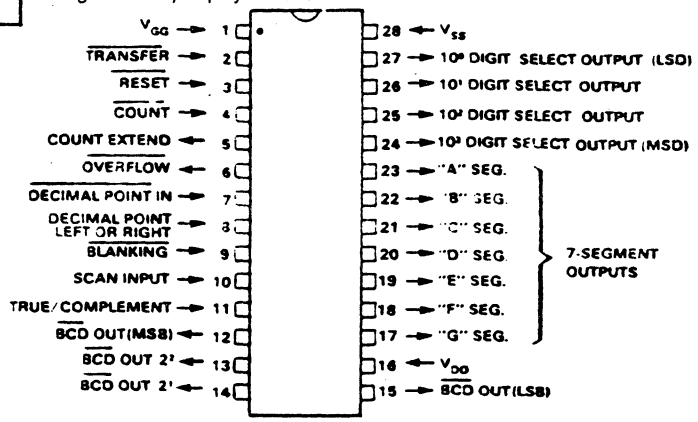
74C923 Binary Keyboard Encoder/Decoder



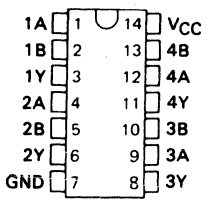
74C922 Binary Keyboard Encoder/Decoder



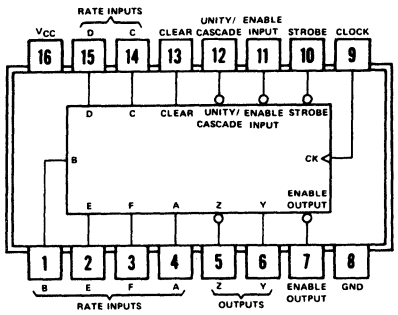
E04-01 4-Digit Counter/Display Decoder



74HC36N Quad 2 Input NOR Gate

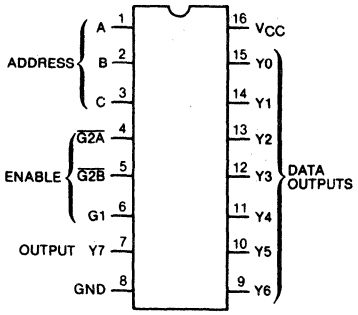


74-97N Synchronous 6-Bit Binary Rate Multiplier

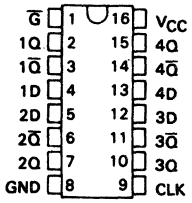


29. CIRCUIT DRAWINGS

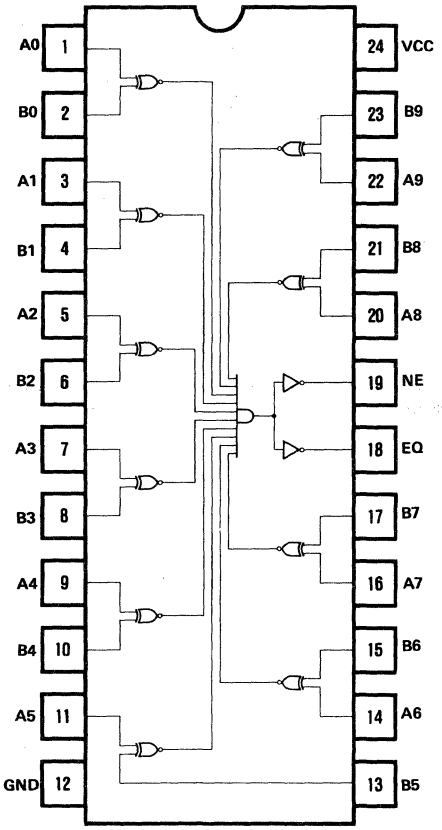
74SC238A — 3 to 8 Line Decoder



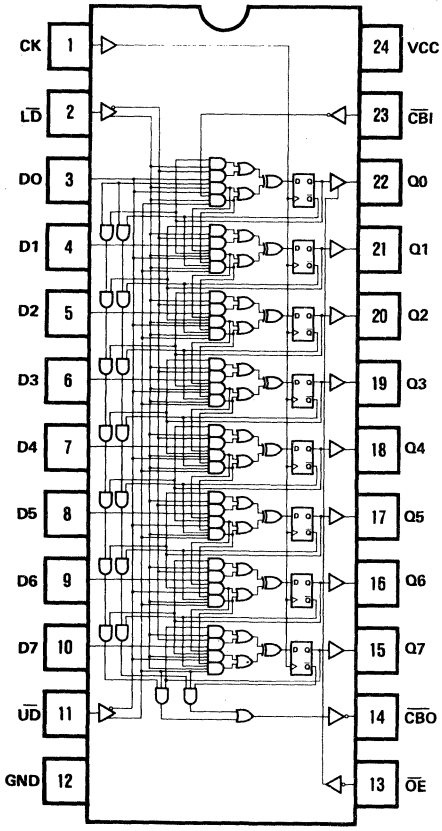
74LS379N — Quad D Flip-Flop with Enable



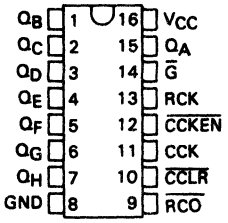
74LS460N — 10-Bit Comparator



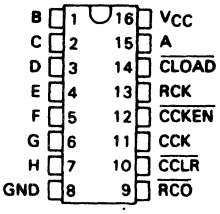
74LS469N — 8-Bit Up/Down Counter



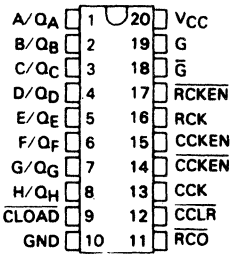
74-590 — 8-Bit Binary Counter with 3-State Output Registers



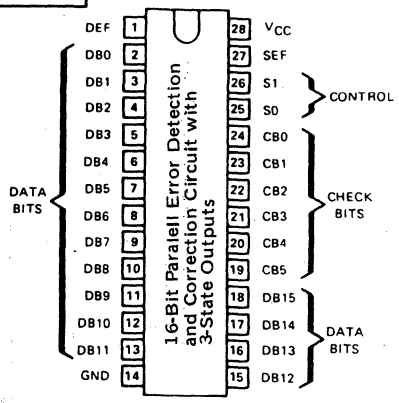
74-592 — 8Bit Binary Counter with Input Registers



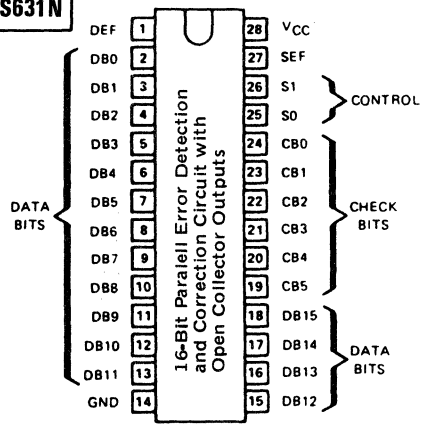
74-593 — 8-Bit Binary Counter with Input Registers with 3 State I/O



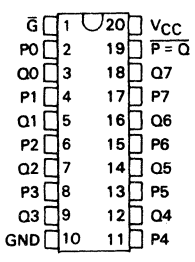
74LS630N



74LS631N



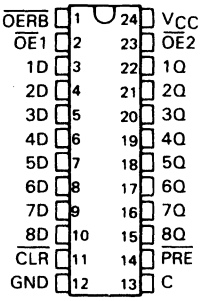
74-688 — 8-Bit Magnitude Comparator



29. CIRCUIT DRAWINGS

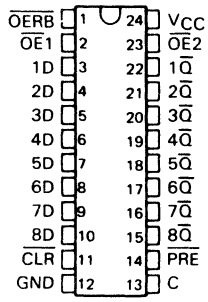
74ALS666

8-Bit D-Type Transparent Read-Back Latch



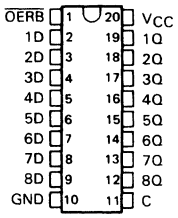
74ALS667

8-Bit D-Type Transparent Read-Back Latch



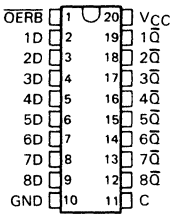
74ALS990

8-Bit D-Type Transparent Read-Back Latch



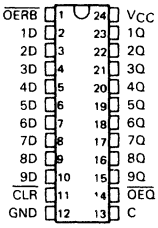
74ALS991

8-Bit D-Type Transparent Read-Back Latch



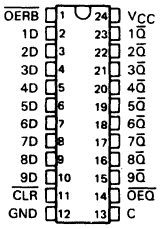
74ALS992

9-Bit D-Type Transparent Read-Back Latch



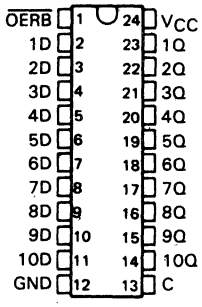
74ALS993

9-Bit D-Type Transparent Read-Back Latch



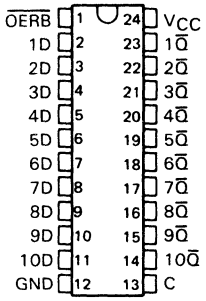
74ALS994

10-Bit D-Type Transparent Read-Back Latch



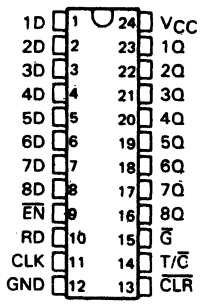
74ALS995

10-Bit D-Type Transparent Read-Back Latch

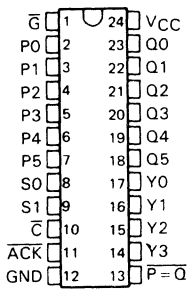


74ALS996

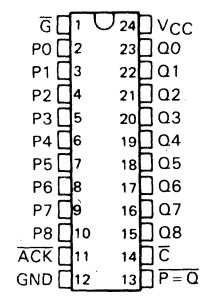
8-Bit D-Type Edge Trigger Read-Back Latch



74ALS29806N 9-Bit Identity Comparator

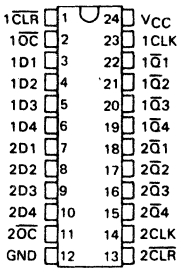


74ALS29809N 9-Bit Identity Comparator

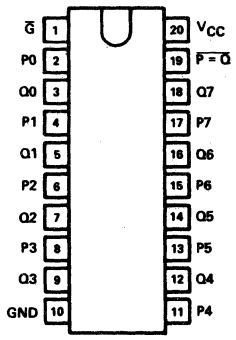


29. CIRCUIT DRAWINGS

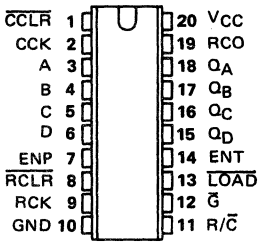
74ALS879N Dual 4-Bit D-Type Edge-Triggered Flip-Flop with Inverting 3-State Outputs



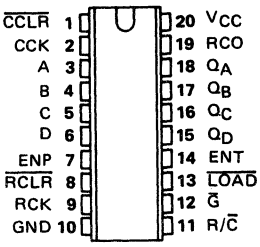
74LS689N 8-Bit Magnitude Comparator with Open Collector Outputs



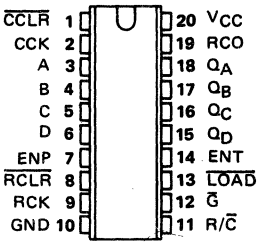
74LS690N Decade Counter with Direct Clear



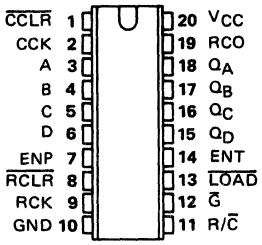
74LS691N Binary Counter with Direct Clear



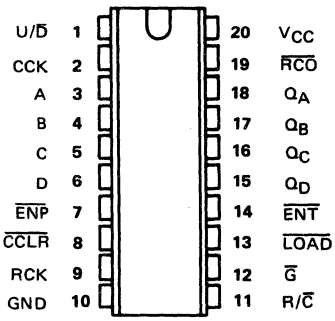
74LS692N Decade Counter with Synchronous Clear



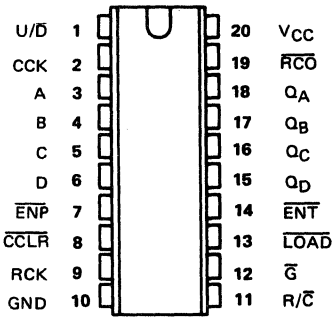
74LS693N Binary Counter with Synchronous Clear



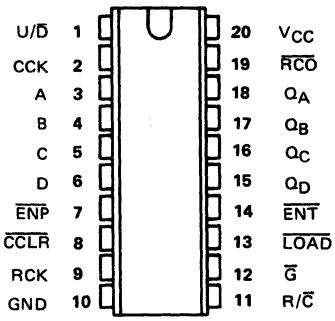
74LS696N Decade Counter with Direct Clear



74LS697N Binary Counter with Direct Clear

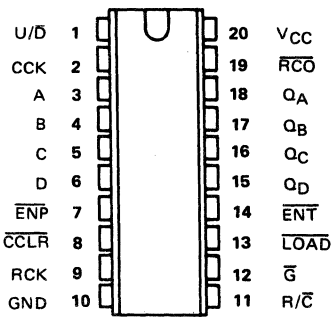


74LS698N Decade Counter with Synchronus Clear

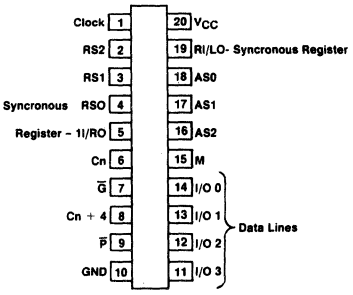


74LS699N

Binary Counter with Synchronous Clear

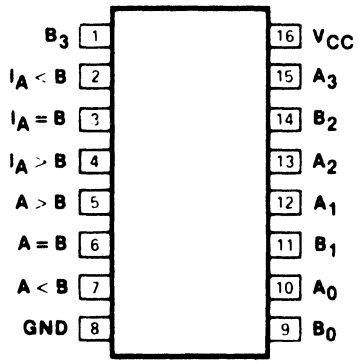


74LS681N 4-Bit Parallel ALU with Registers

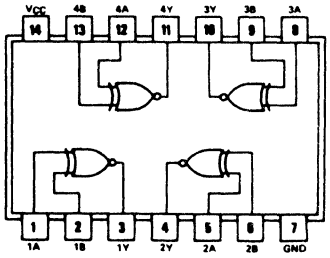


29. CIRCUIT DRAWINGS

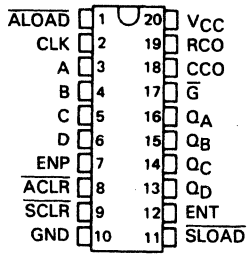
74-85N 4-Bit Magnitude Comparator



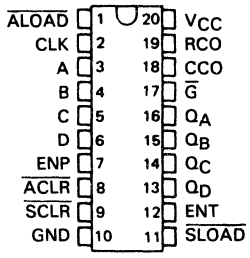
74LS226N Quad 2-Input Exclusive NOR Gates with Open Collector Output



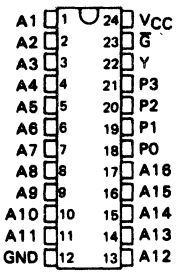
74ALS560N 4-Bit Decade Counter



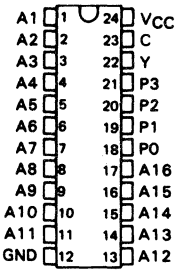
74ALS561N 4-Bit Binary Counter



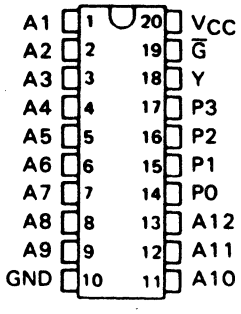
74LS677N 16-Bit to 4-Bit Address Comparator with Enable



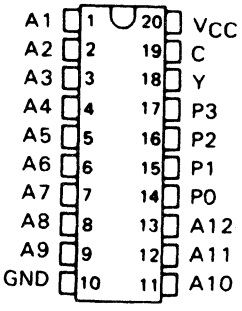
74LS678N 16-Bit to 4-Bit Address Comparator with Latch



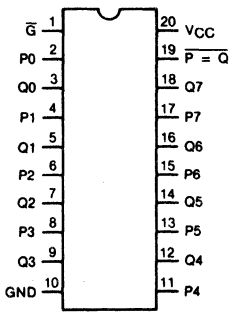
74LS679N 12-Bit to 4-Bit Address Comparator with Enable



74LS680N 12-Bit to 4-Bit Address Comparator with Latch

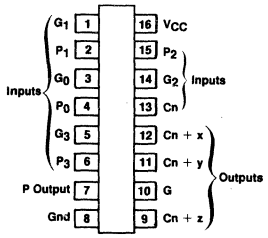


74LS688N 8-Bit Equality Comparator

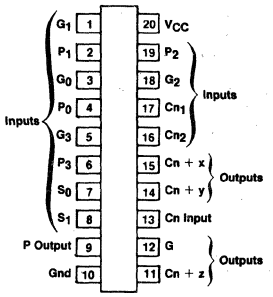


29. CIRCUIT DRAWINGS

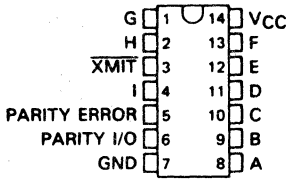
74AS264N Look-Ahead Carry Generator



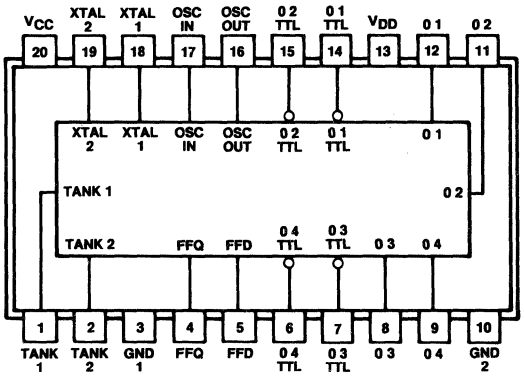
74AS282N Look-Ahead Carry Generator with Selectable Carry Inputs



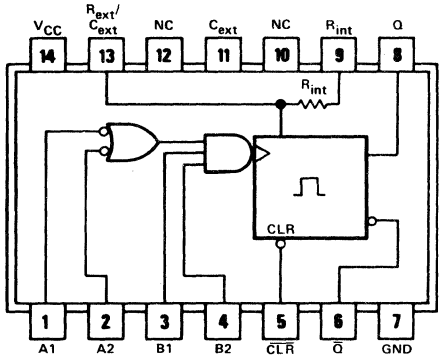
74AS286N 9-Bit Parity Generator/Checker with Bus Driver Parity I/O Port



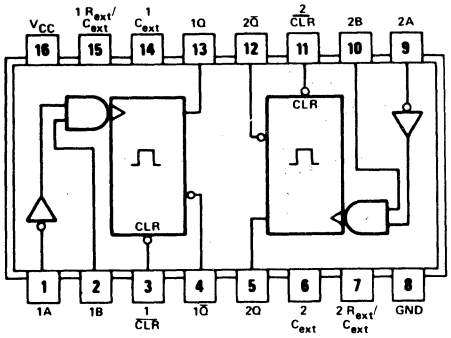
74LS362N 4-Phase Clock Generator/Driver



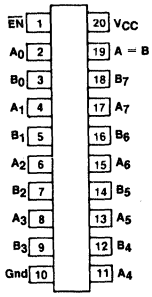
74LS422N Retriggerable Monostable Multivibrator with Internal Timing Resistor



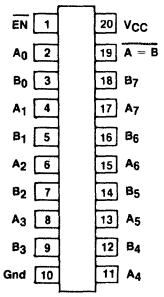
74HC423P Retriggerable Monostable Multivibrator



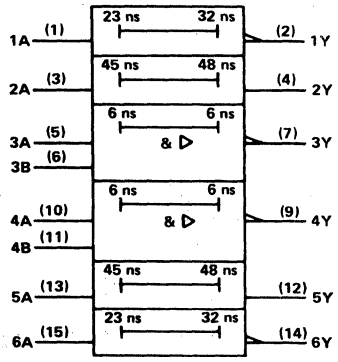
74LS518N 8-Bit Identity Comparator



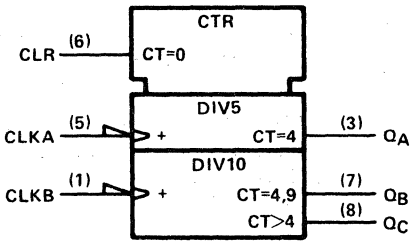
74LS521N 8-Bit Identity Comparator



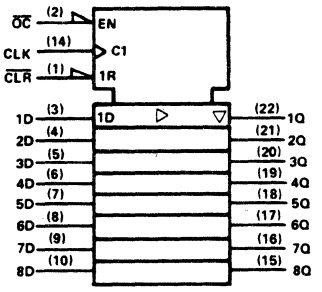
74LS31N Delay Element



74LS56N 50-to-1 Frequency Divider

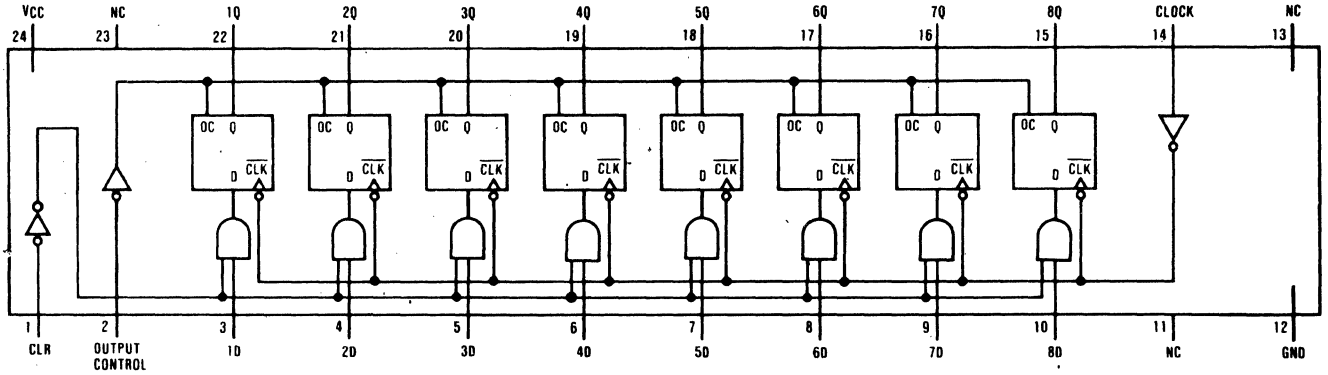


74ALS575N Octal D-Type Edge-Triggered Flip-Flop with 3-State Outputs

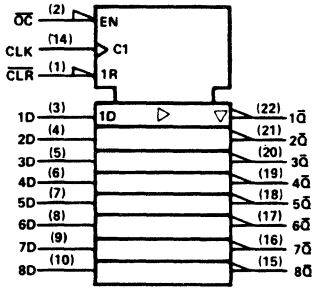


29. CIRCUIT DRAWINGS

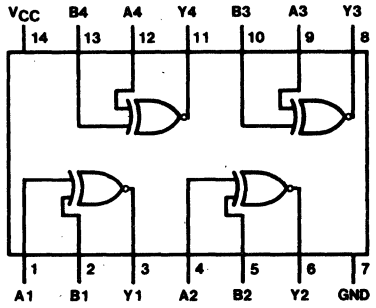
74AS575N — Octal D-Type Edge-Triggered Flip-Flop



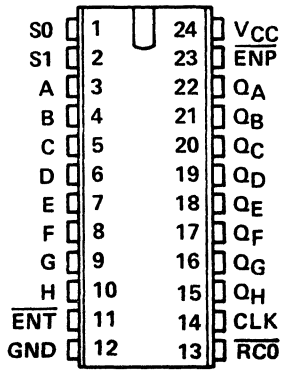
74ALS577N — Octal D-Type Edge-Triggered Flip-Flop with 3-State Outputs



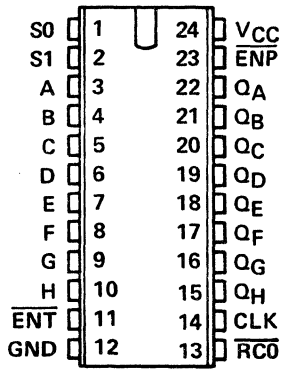
74LS810N — Quad 2-Input Exclusive NOR Gates



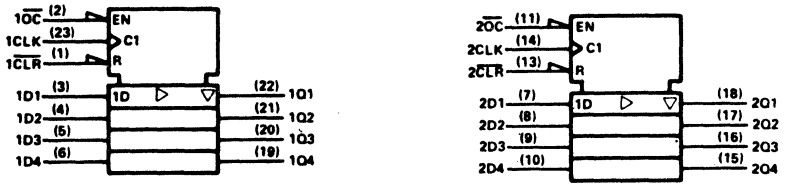
74AS867N — 8-Bit Synchronous Up/Down Counter with Synchronous Clear



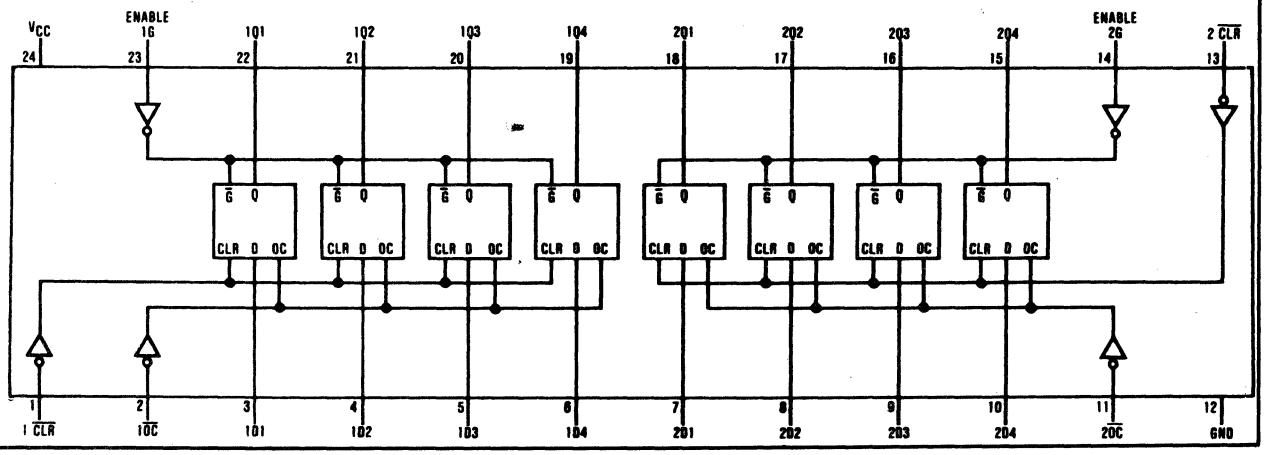
74AS869N — 8-Bit Synchronous Up/Down Counter with Asynchronous Clear



74AS874N — Dual 4-Bit D-Type Edge-Triggered Flip-Flop



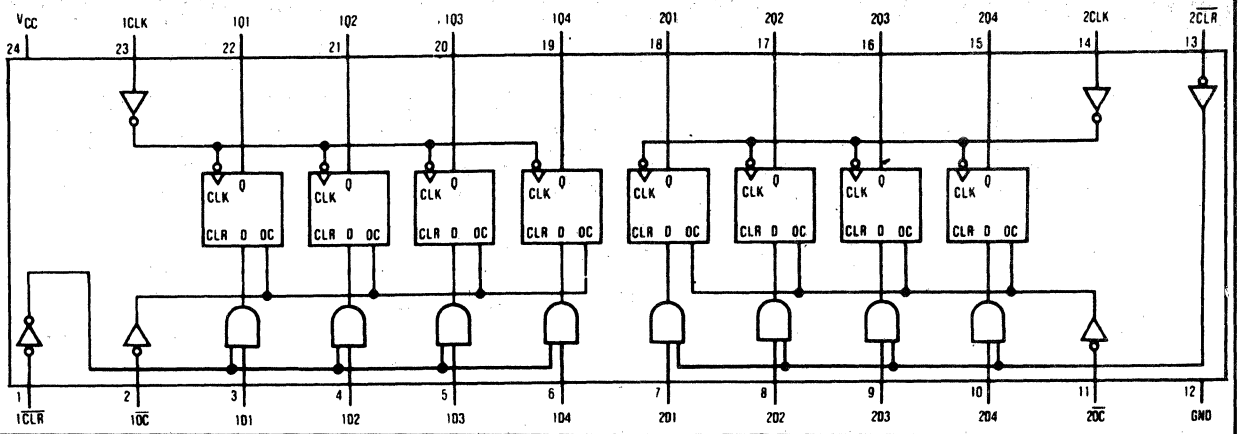
74AS873N — Dual 4-Bit D-Type Transparent Latches



29. CIRCUIT DRAWINGS

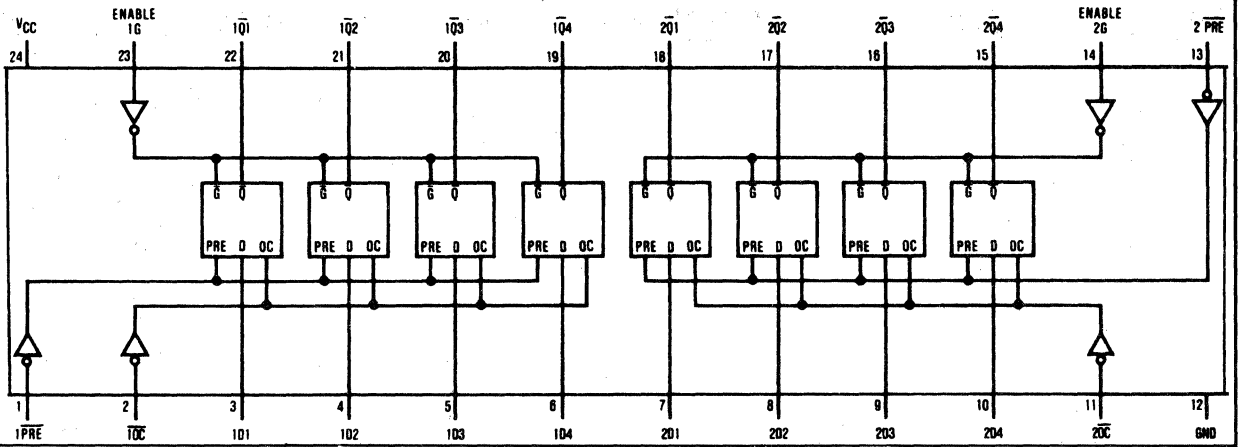
74AS878N

Dual 4-Bit D-Type Edge-Triggered Flip-Flop with Synchronous Clear



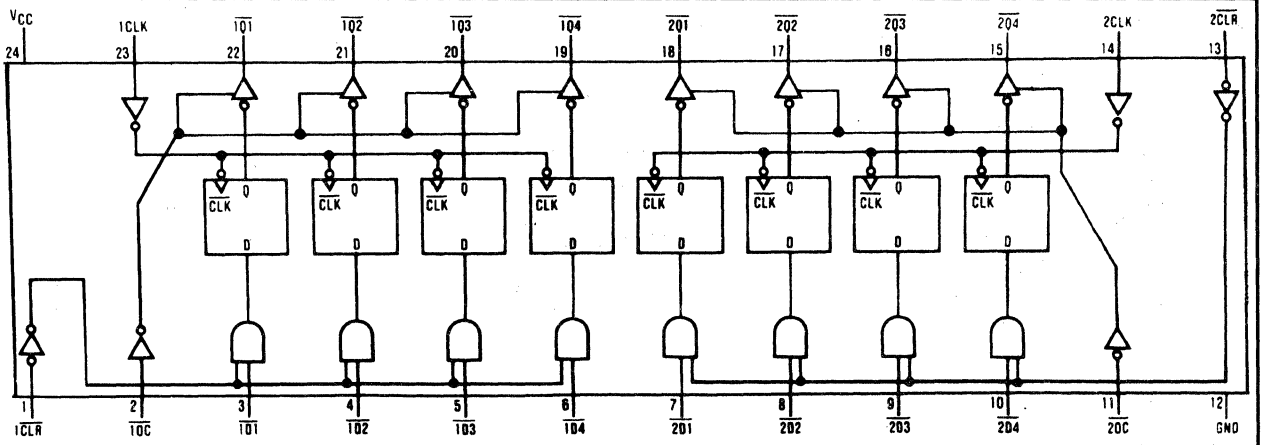
74AS880N

Dual 4-Bit D-Type Transparent Latches

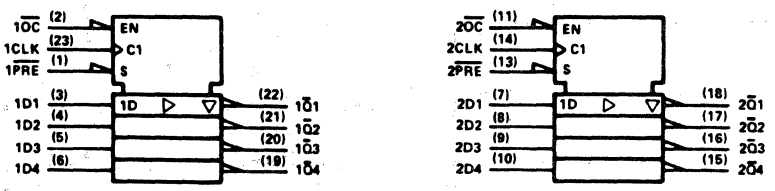


74AS879N

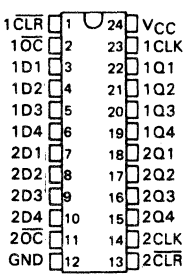
Dual 4-Bit Edge-Triggered Flip-Flop



74AS876N Dual 4-Bit D-Type Edge-Triggered Flip-Flop

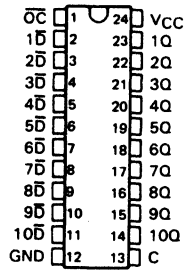


74ALS878N Dual 4-Bit D-Type Edge-Triggered Flip-Flop with 3-State Outputs

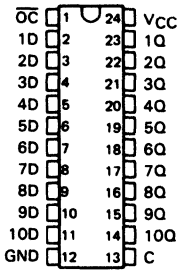


29. CIRCUIT DRAWINGS

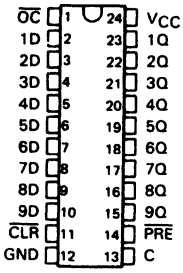
74AS842N
10-Bit Bus Interface D-Type Latch with 3-State Outputs and Inverting Inputs



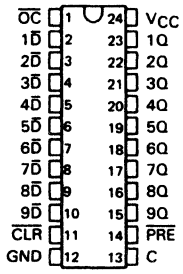
74AS841N
10-Bit Bus Interface D-Type Latch with 3-State Outputs



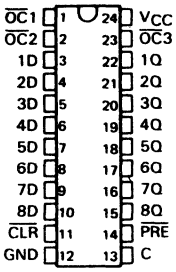
74AS843N
9-Bit Bus Interface D-Type Latch with 3-State Outputs



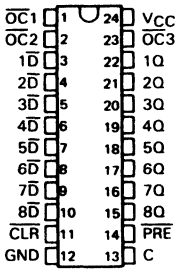
74AS844N
9-Bit Bus Interface D-Type Latch with 3-State Outputs and Inverting Inputs



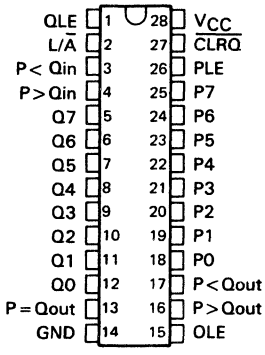
74AS845N
8-Bit Bus Interface D-Type Latch with 3-State Outputs



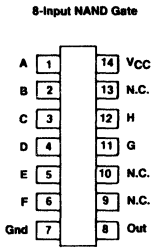
74AS846N
8-Bit Bus Interface D-Type Latch with 3-State Outputs and Inverting Inputs



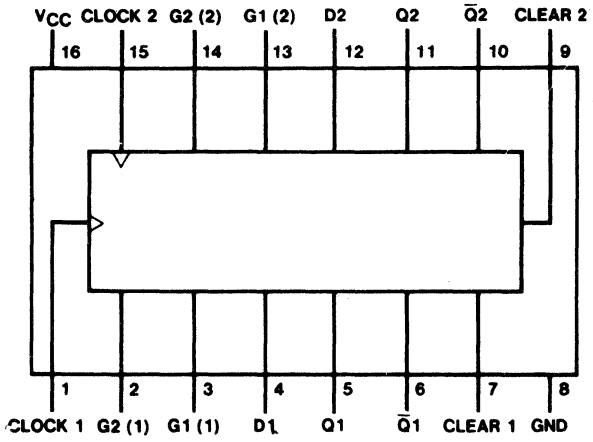
74AS866N
8-Bit Magnitude Comparator



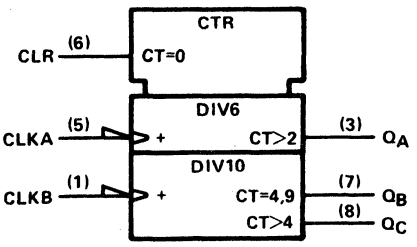
74-965N
8-Input NAND Gate



75-11N
Dual Gated D-type Flip-Flop

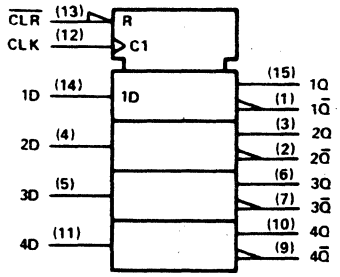


74LS57N
60-to-1 Frequency Divider

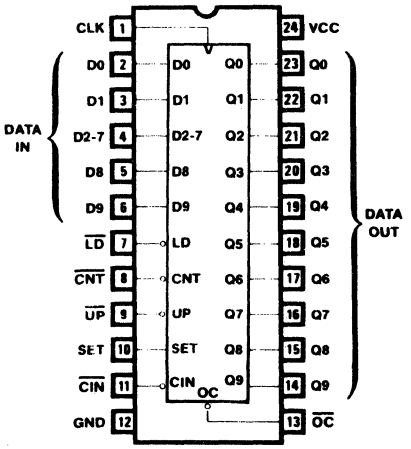


29. CIRCUIT DRAWINGS

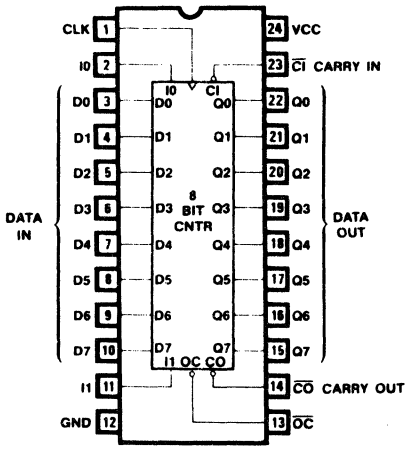
74LS171N — Quad D-Type Flip-Flops with Common Clear



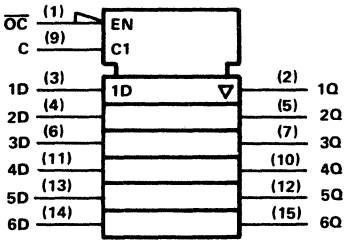
74LS491N — 10-Bit Counter



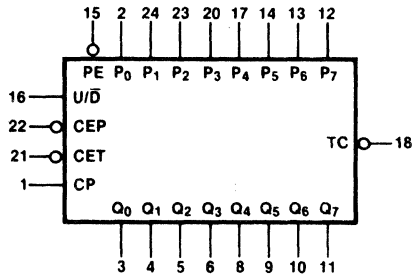
74LS461N — Octal Counter



74S268N — Hex D-Type Latches

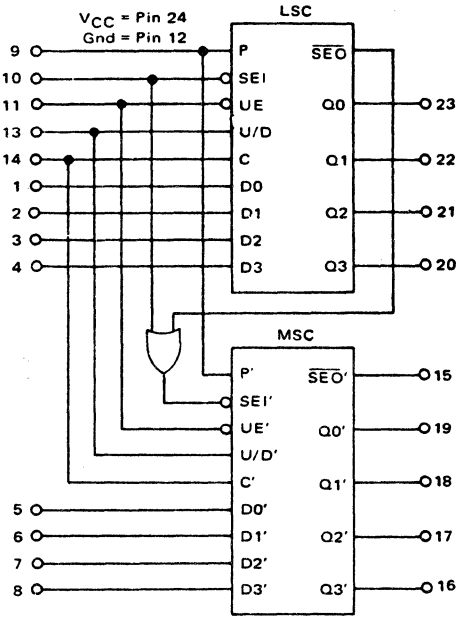


74F269N — 8-Bit Bidirectional Binary Counter

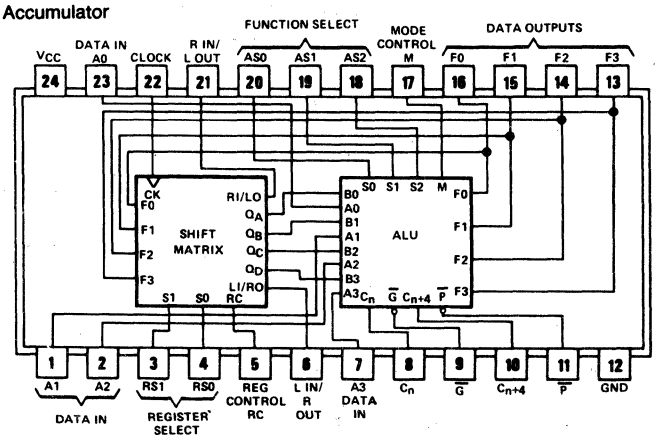


V_{CC} = Pin 19
GND = Pin 7

74-455P — Dual Synchronous Binary Up/Down Counter with Preset Input

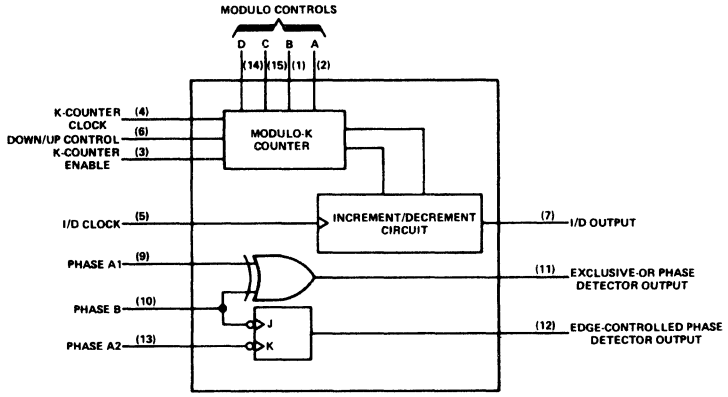


74S281N — 4-Bit Binary Accumulator

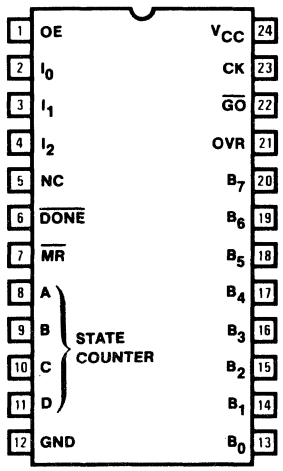


29. CIRCUIT DRAWINGS

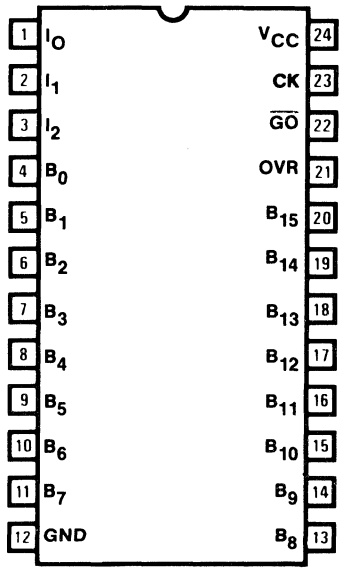
74LS297N Digital PLL Filter



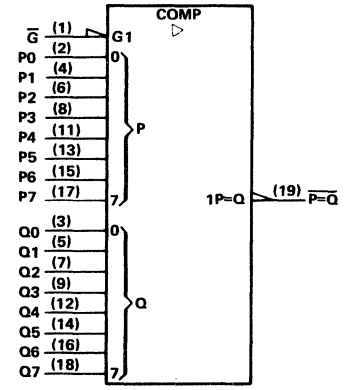
74S508N 8x8 Multiplier/Divider



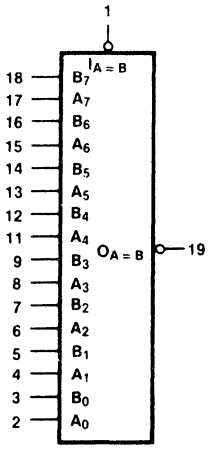
74S516N 16x16 Multiplier/Divider



74ALS520N 8-Bit Identity Comparator with Totem-Pole Output

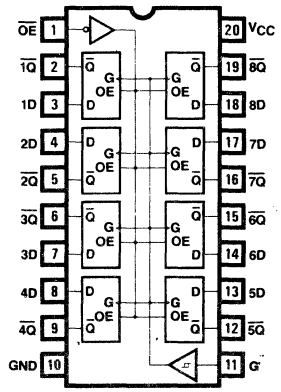


74F521N 8-Bit Identity Comparator

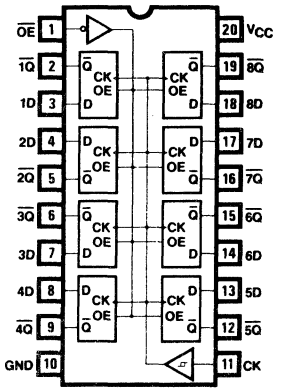


VCC = Pin 20
GND = Pin 10

74S535N Octal D-Type Latch (Inverting)

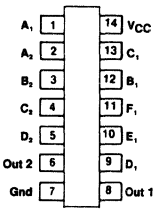


74S536N Octal D-Type Register (Inverting)

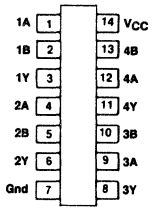


29. CIRCUIT DRAWINGS

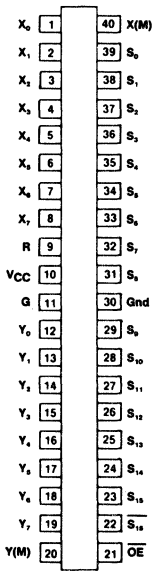
74HC58N 2-Wide, 2-Input/2-Wide, 3-Input AND-OR Gates



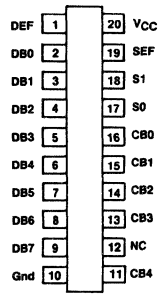
74ALS811N Quad 2-Input Exclusive NOR Gate with Open-Collector Outputs



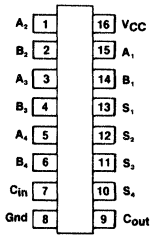
74S557N 8x8 Combinatorial Multiplier with Transparent 16-Bit Latch



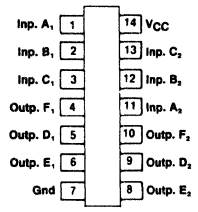
74LS636N 8-Bit Parallel Error Detection/Correction, Tri-State



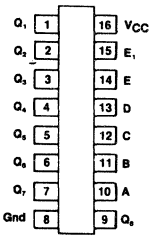
74-456P NBCD Adder



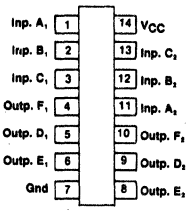
74H29P Dual 3-Input 3-Output NAND Series Terminated Line Driver



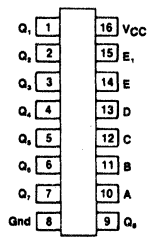
74-185N Binary-to-BCD Code Converter



74H28P Dual 3-Input 3-Output AND Series Terminated Line Driver

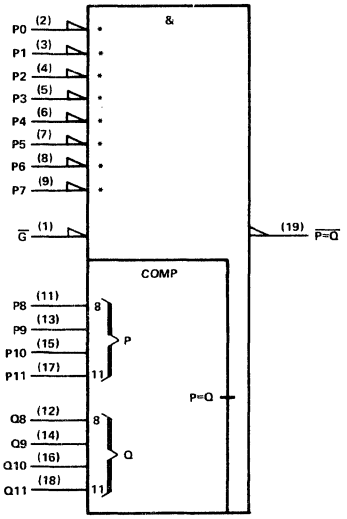


74-184N BCD-to-Binary Code Converter



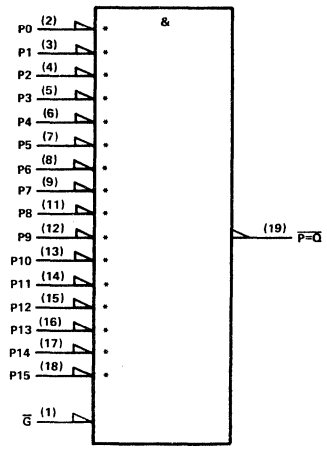
29. CIRCUIT DRAWINGS

74ALS527N — Fuse Programmable 8-Bit Identity Comparator



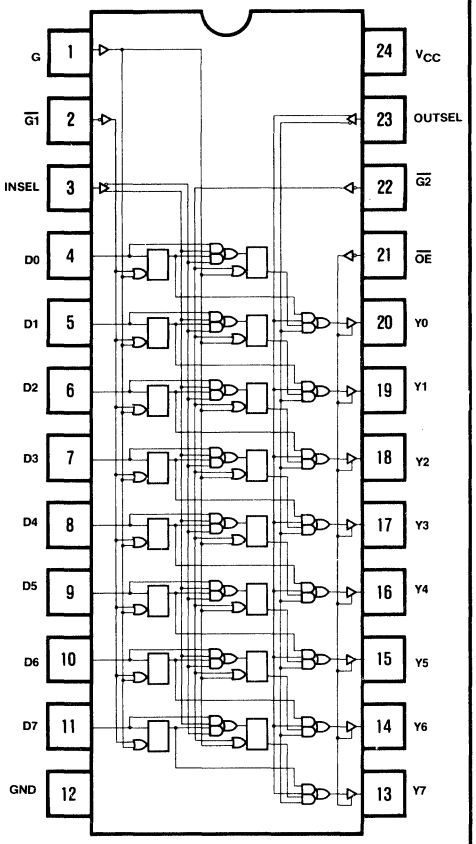
*These inputs can be programmed to be active high. The asterisk is not a part of the symbol. For correct symbol for the programmed device, delete the polarity symbol (▬) at any input whose programming fuse has been blown.

74ALS526N — Fuse Programmable 16-Bit Identity Comparator

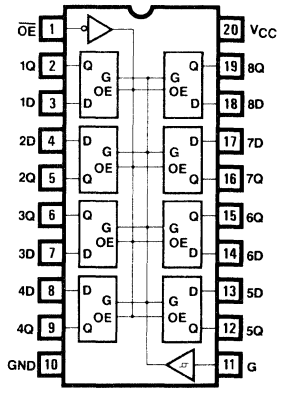


*These inputs can be programmed to be active high. The asterisk is not a part of the symbol. For correct symbol for the programmed device, delete the polarity symbol (▬) at any input whose programming fuse has been blown.

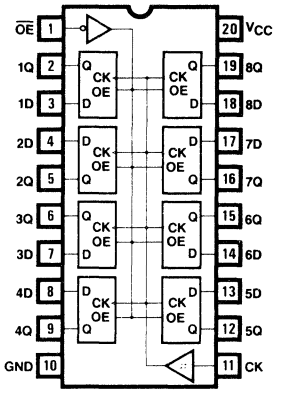
74LS549N — 8-Bit Two-Stage Pipelined Latch



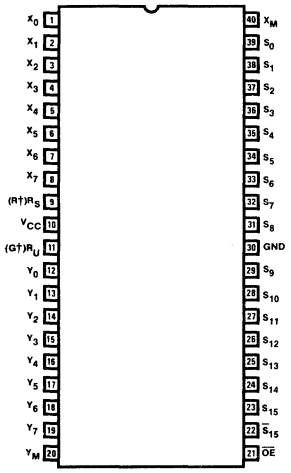
74S531N — Octal D-Type Latch



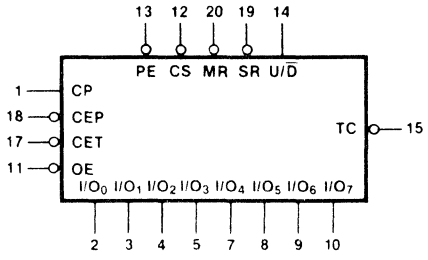
74S532N — Octal D-Type Register



74S558N — 8x8 Combinatorial Multiplier

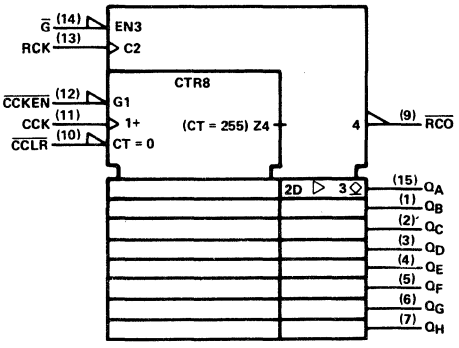


74F579N — 8-Bit Bidirectional Binary Counter (3-State)



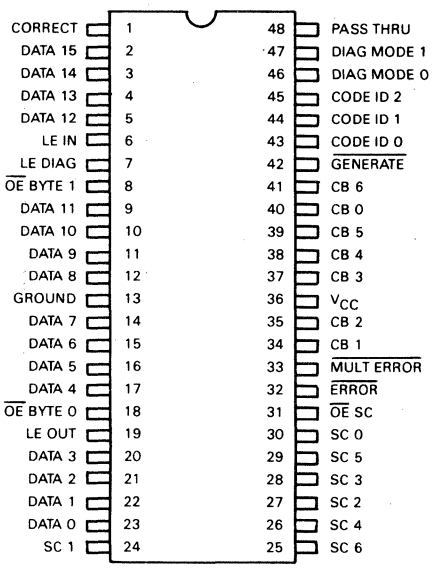
VCC = Pin 16
GND = Pin 6

74LS591N — 8-Bit Binary Counter with Output Register

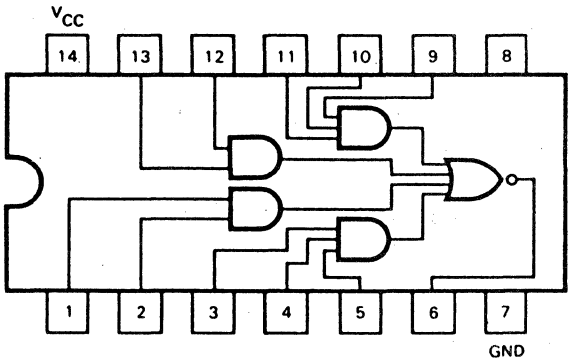


29. CIRCUIT DRAWINGS

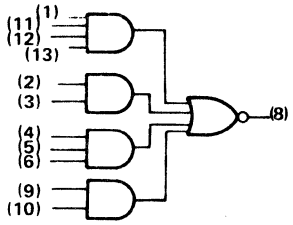
74F2960N — Error Detection and Correction Circuit



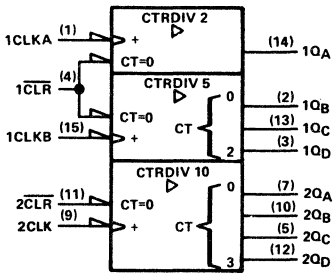
74LS54N — 3-2-2-3 Input AND-OR-INVERT Gate



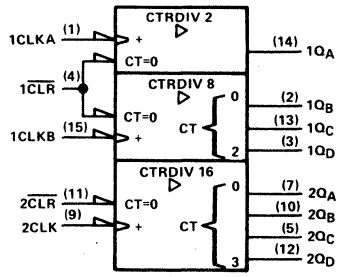
74S65N — 4-2-3-2 Input AND-OR-INVERT Gate



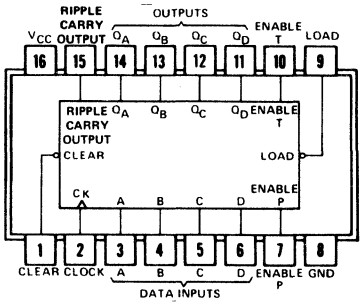
74LS68N — Dual 4-Bit Decade Counter



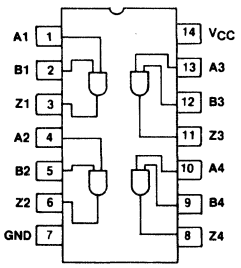
74LS69N — Dual 4-Bit Binary Counter



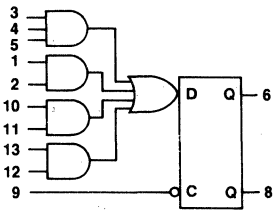
74LS163N — Synchronous Presettable 4-Bit Binary Counter with Synchronous Clear



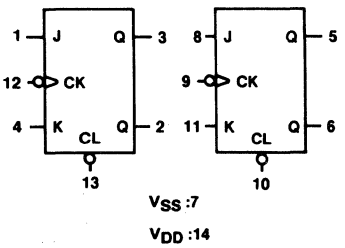
74-130N / 74-131N — Quad 2-Input AND Buffer Gate with Open-Collector Output



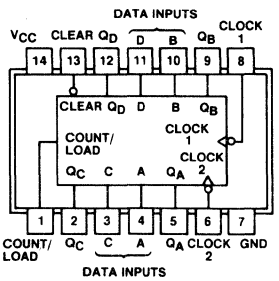
74H118P — Double Edge-Triggered Master-Slave D-Type Flip-Flop



74LS107N — Dual J-K Flip-Flop with Clear Hex Set/Reset Latch

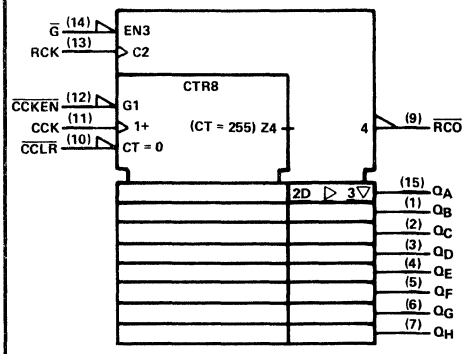


74-196N — Presettable Decade Counter/Latch

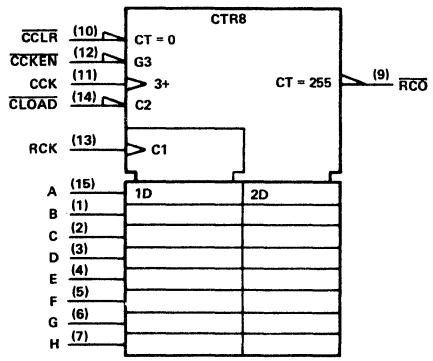


29. CIRCUIT DRAWINGS

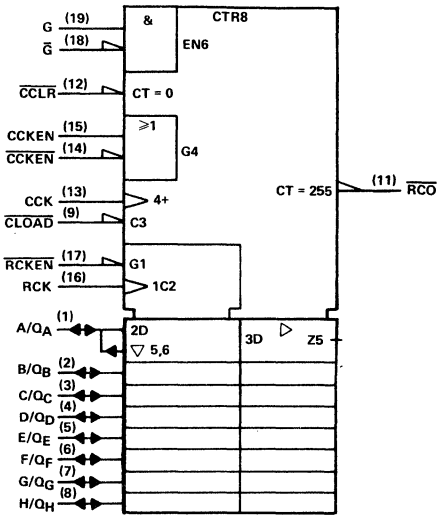
74LS590N — 8-Bit Binary Counter with 3-State Output Register



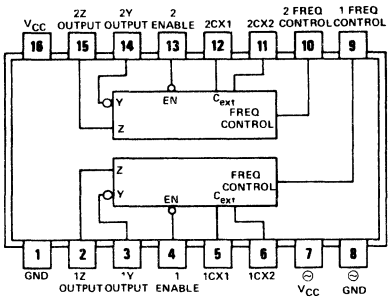
74LS592N — 8-Bit Binary Counter with Input Register



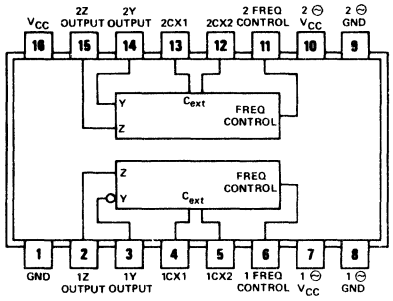
74LS593N — 8-Bit Binary Counter with Input Register and 3-State I/O



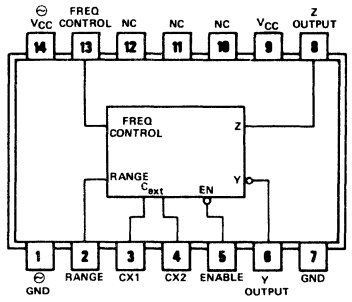
74LS626N — Dual Voltage Controlled Oscillator



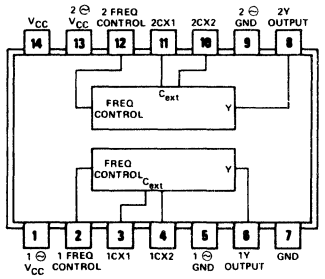
74LS625N — Dual Voltage Controlled Oscillator



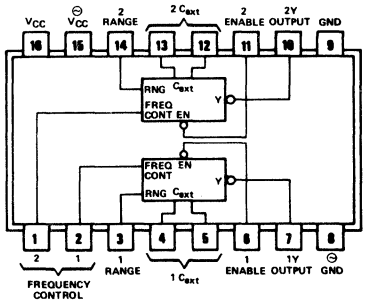
74LS624N — Voltage Controlled Oscillator



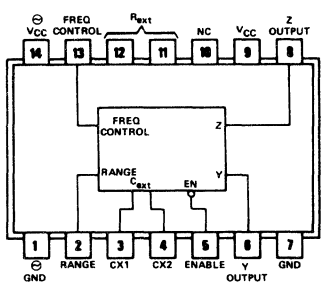
74LS627N — Dual Voltage Controlled Oscillator



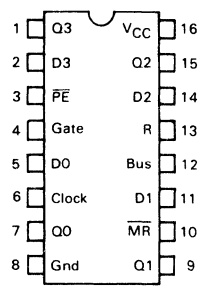
74LS629N — Dual Voltage Controlled Oscillator



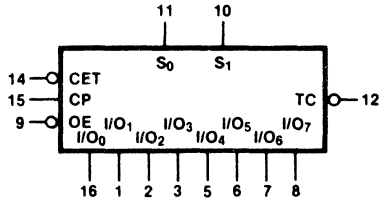
74LS628N — Voltage Controlled Oscillator



74LS718N — Programmable Modulo-N Counter



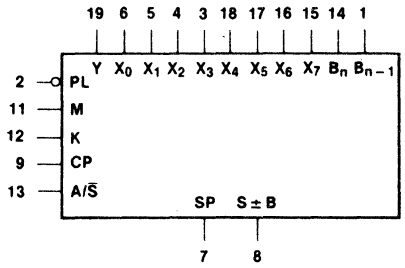
74F779N — 8-Bit Bidirectional Binary Counter (3-State)



VCC = Pin 13
GND = Pin 4

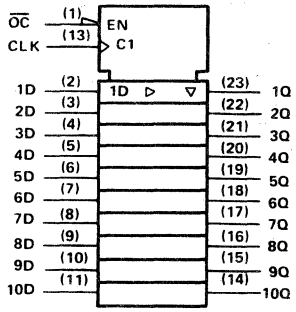
29. CIRCUIT DRAWINGS

74F784N — 8-Bit Serial/Parallel Multiplier with Adder/Subtractor

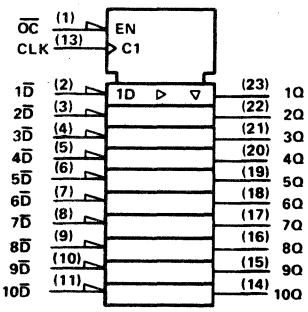


V_{CC} = Pin 20
GND = Pin 10

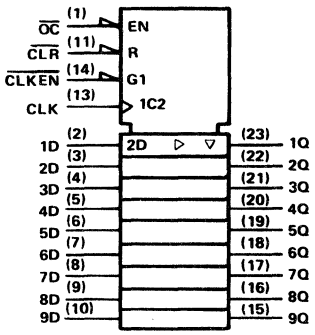
74AS821N — 10-Bit Parallel Register



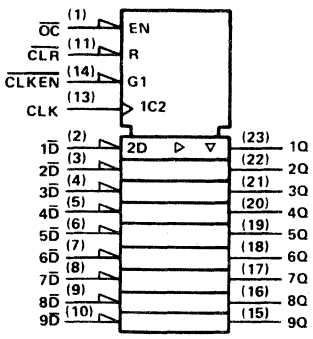
74AS822N — 10-Bit Parallel Register



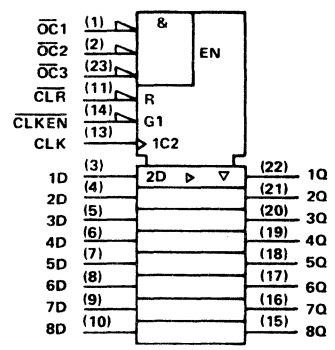
74AS823N — 9-Bit Parallel Register



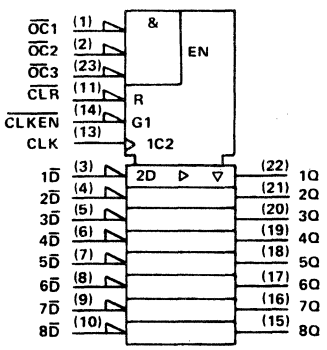
74AS824N — 9-Bit Parallel Register



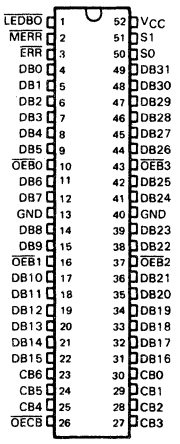
74AS825N — 8-Bit Parallel Register



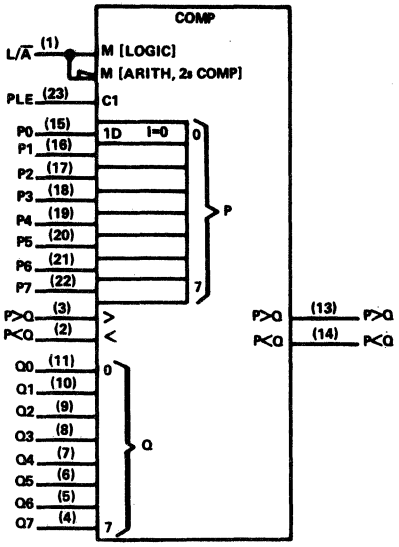
74AS826N — 8-Bit Parallel Register



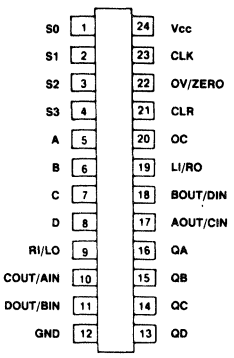
74ALS632 — Error Detection & Correction



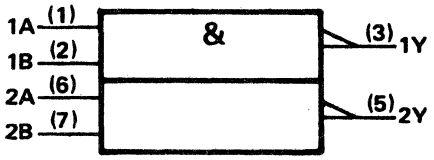
74AS885N — 8-Bit Magnitude Comparator



74AS894N — Expandable Multifunction Binary/Hexidecimal Scaler

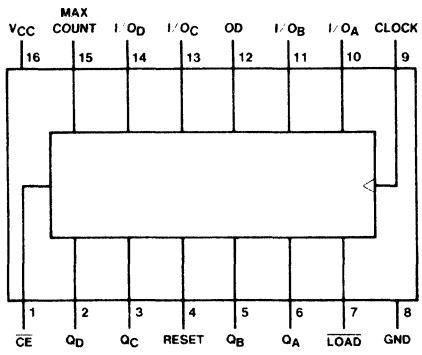


74ALS8003N — Dual 2-Input Positive NAND Gate

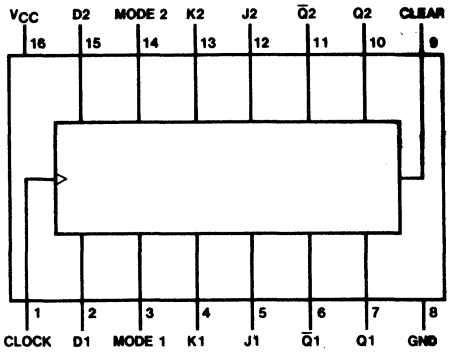


29. CIRCUIT DRAWINGS

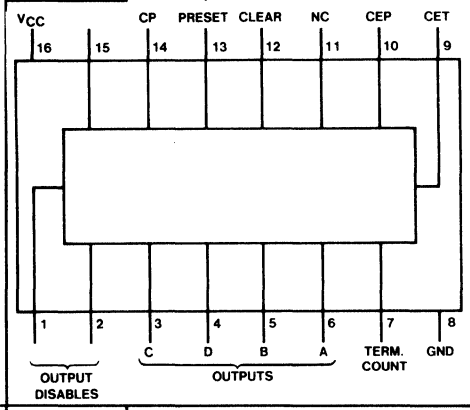
75-56N — Tri-State Programmable Binary Counter



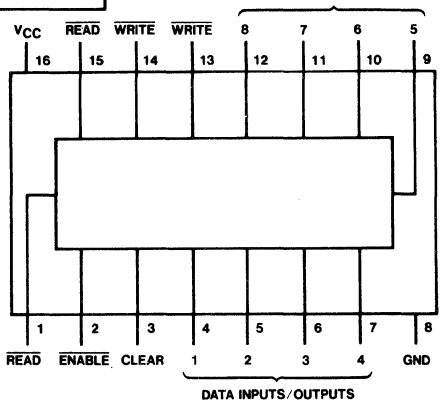
75-12N — Dual Gated J-K/D type Flip-Flop



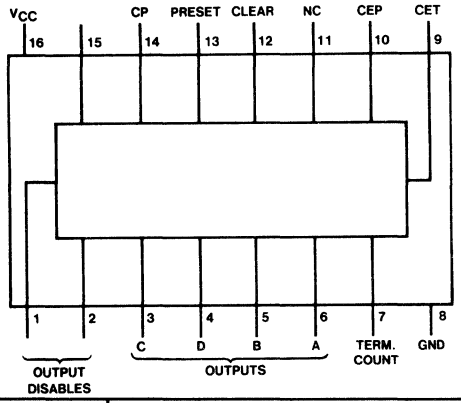
75-52N — Tri-State Synchronous Decade Counter/Latch



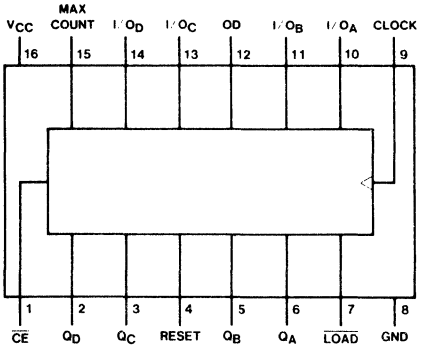
75-53N — Tri-State 8-Bit Latch



75-54N — Tri-State Synchronous Binary Counter/Latch

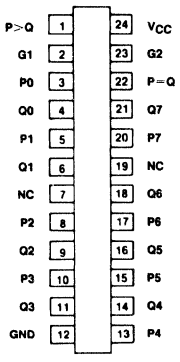


75-55N — Tri-State Programmable Decode Counter

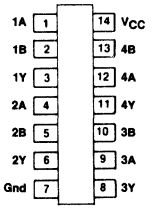


74LS686N — 8-Bit Magnitude Comparator with Totem-Pole Output

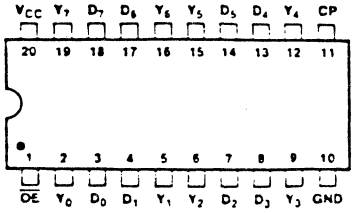
74LS687N — 8-Bit Magnitude Comparator with Open-Collector Output



74ALS810N — Quad 2-Input Exclusive NOR Gate



74S374 — Octal Registers w/3-State Output

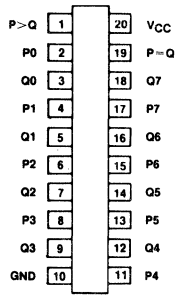


74LS682N — 8-Bit Magnitude Comparator with Totem-Pole Output

74LS683N — 8-Bit Magnitude Comparator with Open-Collector Output

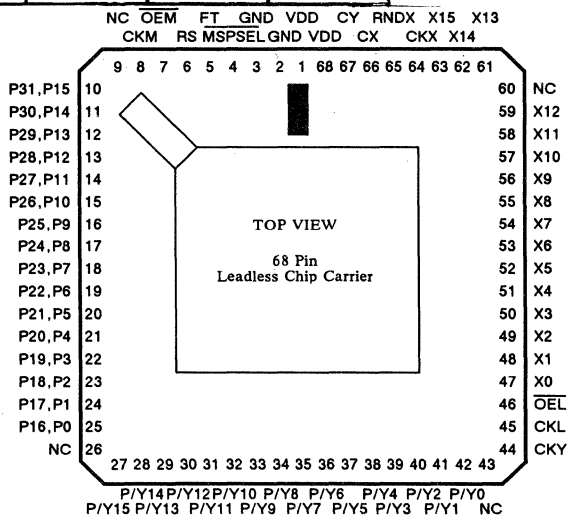
74LS684N — 8-Bit Magnitude Comparator with Totem-Pole Output

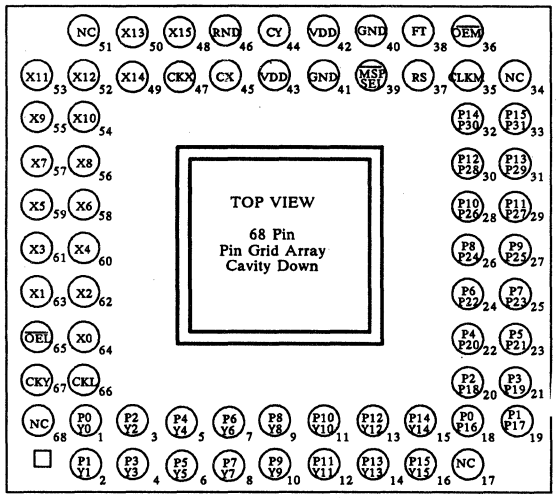
74LS685N — 8-Bit Magnitude Comparator with Open-Collector Output

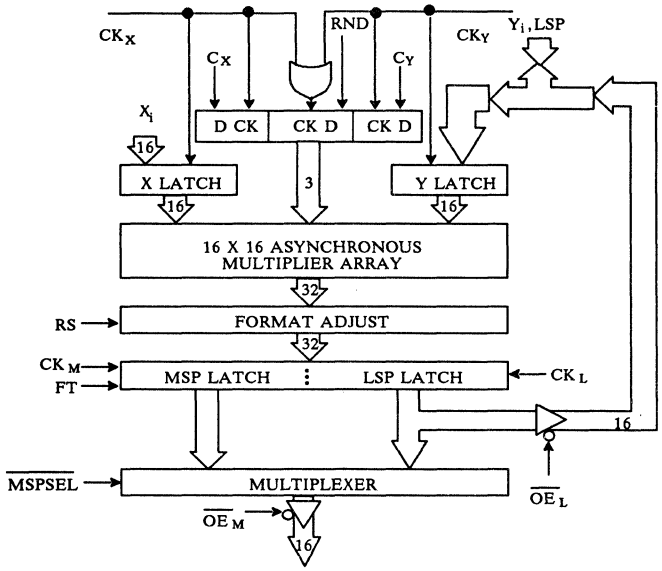


29. CIRCUIT DRAWINGS

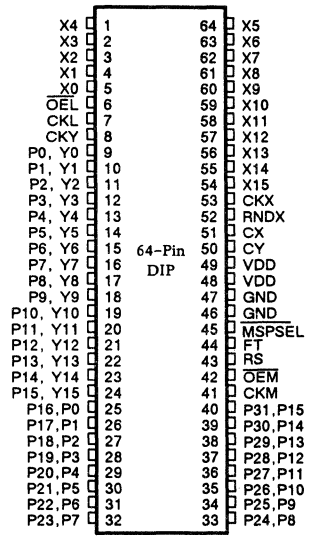
25WT16	25WTX16	25WTY16	25WTZ16	16 x 16 Parallel Array Multiplier

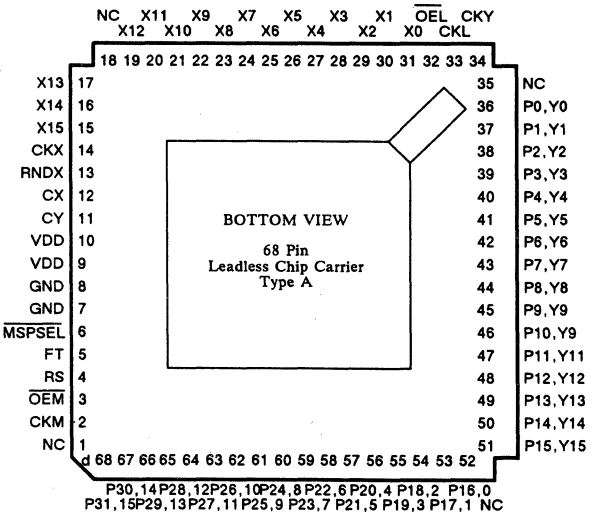






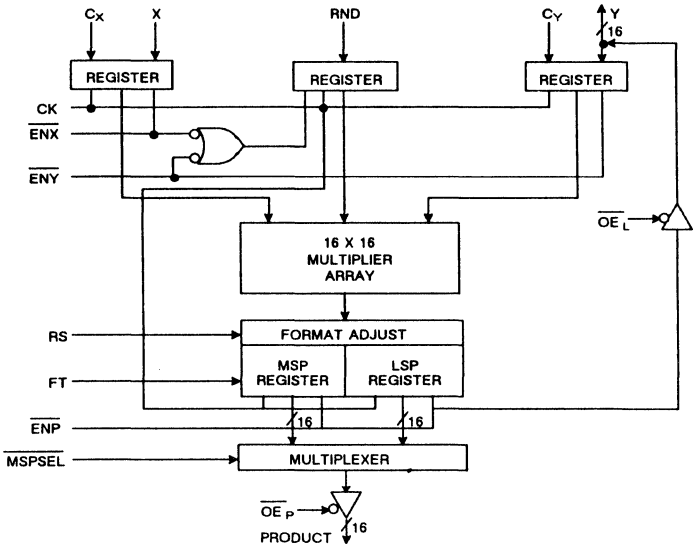
DEVICE	PACKAGE TYPE
25WT16	64 PIN DIP
25WTX16	68 PIN GRID ARRAY
25WTY16	68 PIN LEADLESS CHIP CARRIER
25WTZ16	68 PIN LEADLESS CHIP CARRIER

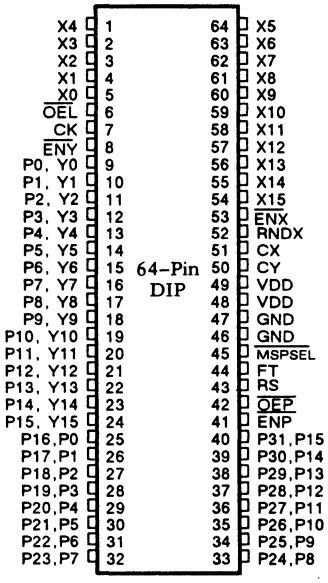


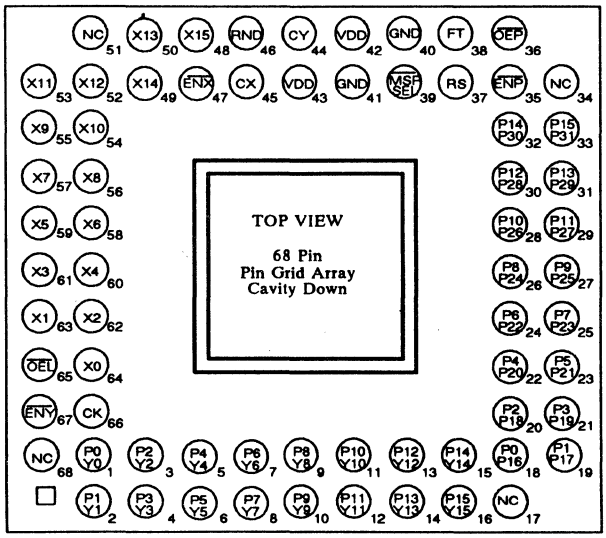


29. CIRCUIT DRAWINGS

25WTZ17 | **25WT17** | 16 x 16 Parallel Array Multiplier





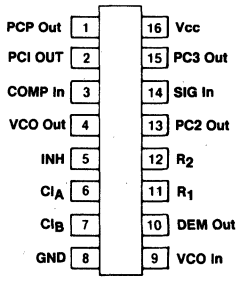


DEVICE	PACKAGE STYLE
25WT17	64 PIN DIP
25WTZ17	68 PIN GRID ARRAY

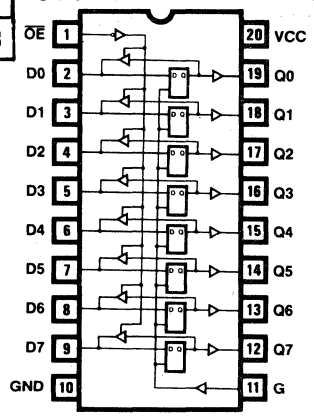
PIN #	PGA	DIP	PIN #	PGA	DIP	PIN #	PGA	DIP
1	P/Y0	X4	24	P22/6	P/Y15	47	ENX	GND
2	P/Y1	X3	25	P23/7	P16/0	48	X15	VDD
3	P/Y2	X2	26	P24/8	P17/1	49	X14	VDD
4	P/Y3	X1	27	P25/9	P18/2	50	X13	CY
5	P/Y4	X0	28	P26/10	P19/3	51	NC	CX
6	P/Y5	OEL	29	P27/11	P20/4	52	X12	RNDX
7	P/Y6	CK	30	P28/12	P21/5	53	X11	ENX
8	P/Y7	ENY	31	P29/13	P22/6	54	X10	X15
9	P/Y8	P/Y0	32	P30/14	P23/7	55	X9	X14
10	P/Y9	P/Y1	33	P31/15	P24/8	56	X8	X13
11	P/Y10	P/Y2	34	NC	P25/9	57	X7	X12
12	P/Y11	P/Y3	35	ENP	P26/10	58	X6	X11
13	P/Y12	P/Y4	36	OEP	P27/11	59	X5	X10
14	P/Y13	P/Y5	37	RS	P28/12	60	X4	X9
15	P/Y14	P/Y6	38	FT	P29/13	61	X3	X8
16	P/Y15	P/Y7	39	MSPSL	P30/14	62	X2	X7
17	NC	P/Y8	40	GND	P31/15	63	X1	X6
18	P16/0	P/Y9	41	GND	ENP	64	X0	X5
19	P17/1	P/Y10	42	VDD	OEP	65	OEL	
20	P18/2	P/Y11	43	VDD	RS	66	CK	
21	P19/3	P/Y12	44	CY	FT	67	ENY	
22	P20/4	P/Y13	45	CX	MSPSL	68	N/C	
23	P21/5	P/Y14	46	RND	GND			

29. CIRCUIT DRAWINGS

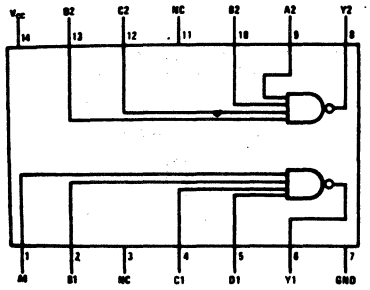
40-46B Digital PLL Filter with VCO



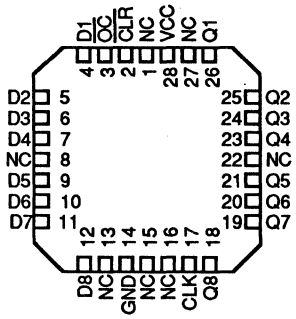
54AC793 / **74AC793** 8-Bit Latch



54S40W Dual 4-Input NAND Buffer

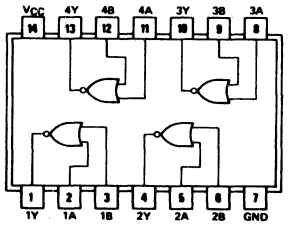


54ALS575 Octal D-Type Edge Triggered Flip-Flop

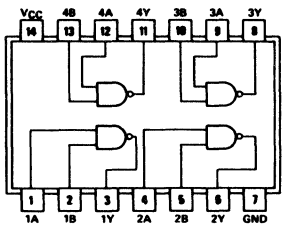


PLCC and LCC
(Top View)

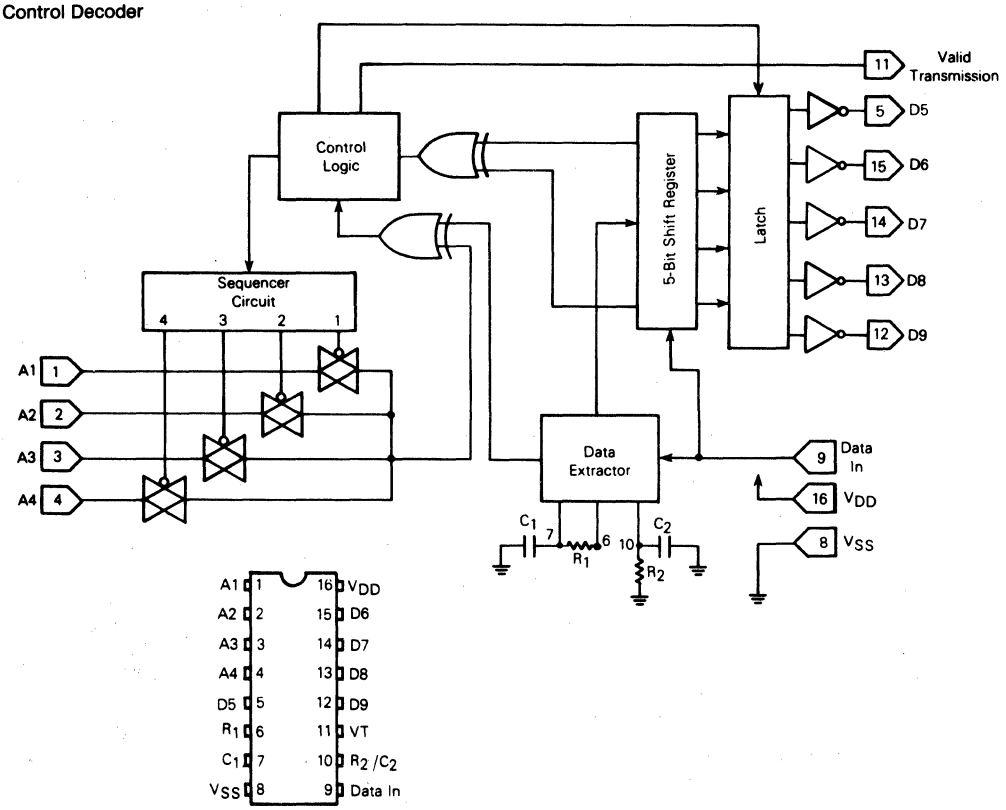
74-02N Quad 2-Input NOR Gates



74-03N Quad 2-Input NAND Gates with Open Collector Output

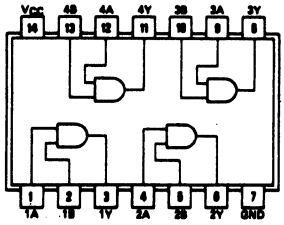


45-029 Remote Control Decoder

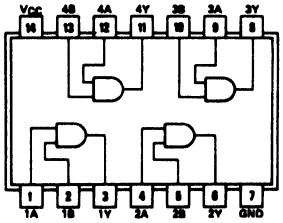


29. CIRCUIT DRAWINGS

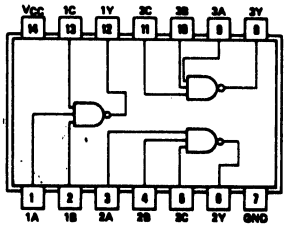
74-08N Quad 2-Input AND Gates



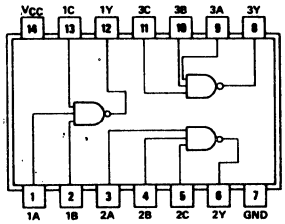
74-09N Quad 2-Input AND Gates with Open Collector Output



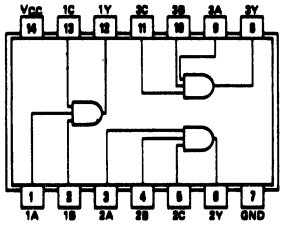
74-10N Triple 3-Input NAND Gates



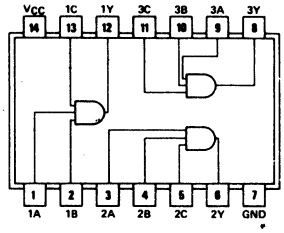
74S10W Triple 3-Input NAND Gates



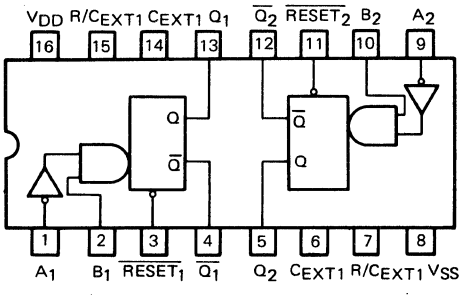
74-11N Triple 3-Input AND Gates



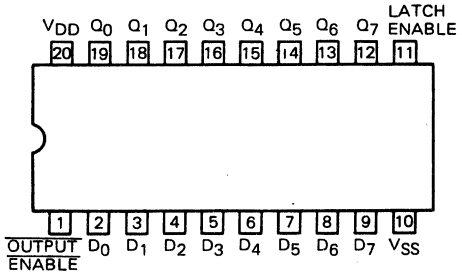
74S11W Triple 3-Input AND Gates



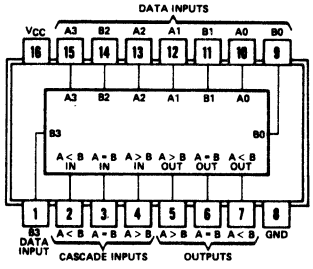
74LS123



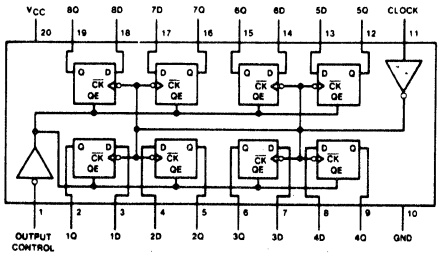
74-563



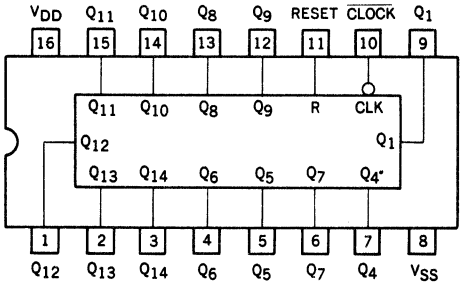
74-85W 4-Bit Magnitude Comparators



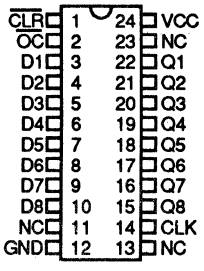
74LS374W Octal D-Type Flip-Flop with 3-State Output



74-4020



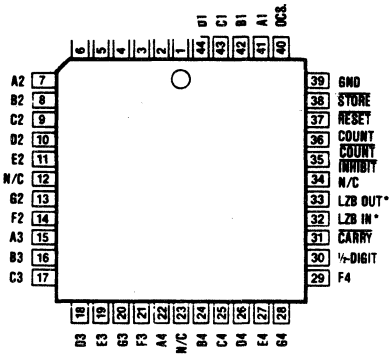
74ALS575 Octal D-Type Edge Triggered Flip-Flop



DIP and SOIC
(Top View)

29. CIRCUIT DRAWINGS

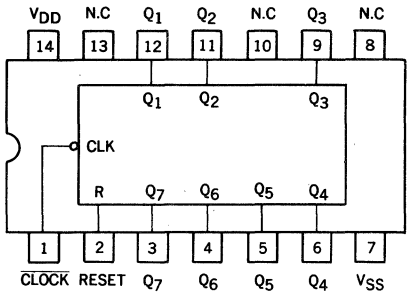
74MMZ945



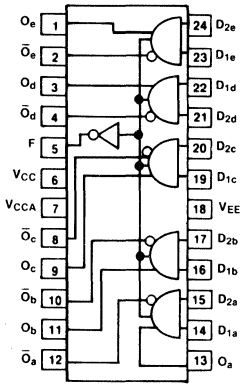
*Note:

PIN #	74C945 FUNCTION	74C947 FUNCTION
32	Select	LZB IN
33	Blanking	LZB OUT

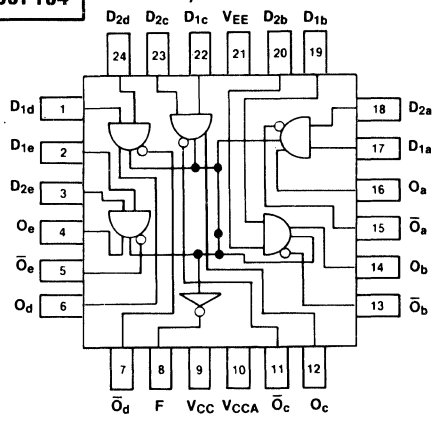
74-4024



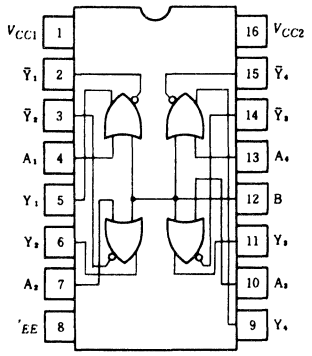
100-104 Quint AND/NAND Gates



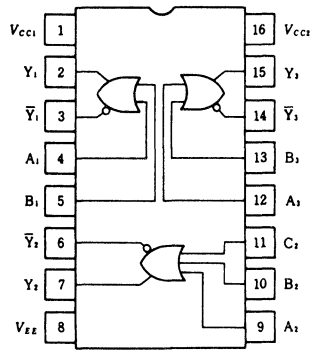
100F104 Quint AND/NAND Gate



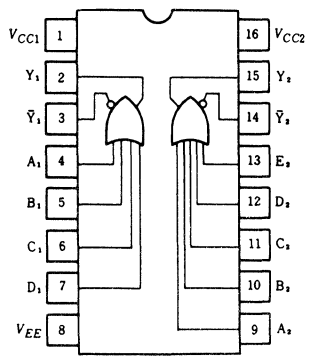
G17-01 Quad OR/NOR Gate



G17-02 Triple 2-3-2-Input OR/NOR Gates



G17-03 Dual 4-5-Input OR/NOR Gates

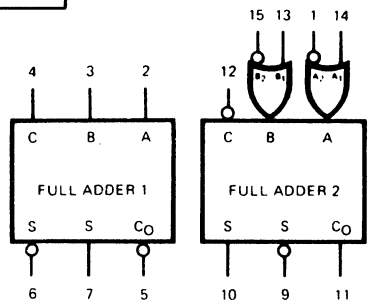


29. CIRCUIT DRAWINGS

LOGIC DRAWINGS (Section No.)

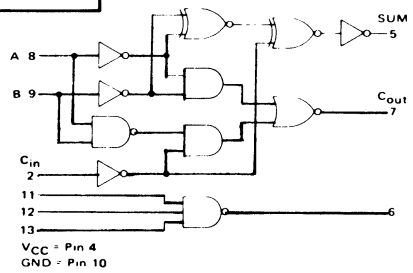
- A: ADDERS (15)
- B: BINARY/FLIP-FLOPS (4)
- C: CLOCKS/MULTIVIBRATORS (12)
- E: COUNTERS (11)
- F: DECODERS (6)
- G: GATES (5)
- H: FREQUENCY DIVIDERS (13)
- J: TIME DELAYS (10)
- K*: SPECIAL DEVICES (27)
- L: LATCHES (26)
- N: MAGNITUDE COMPARATORS (17)
- P: PARITY GENERATORS/CHECKERS (25)
- S: LOOK-AHEAD CARRY GENERATORS (19)
- T: TRANSISTOR ARRAYS (3)
- U: ARITHMETIC LOGIC UNITS (18)
- X: MULTIPLIERS (16)

A02-05 4-Bit Binary Full Adder with Fast Carry

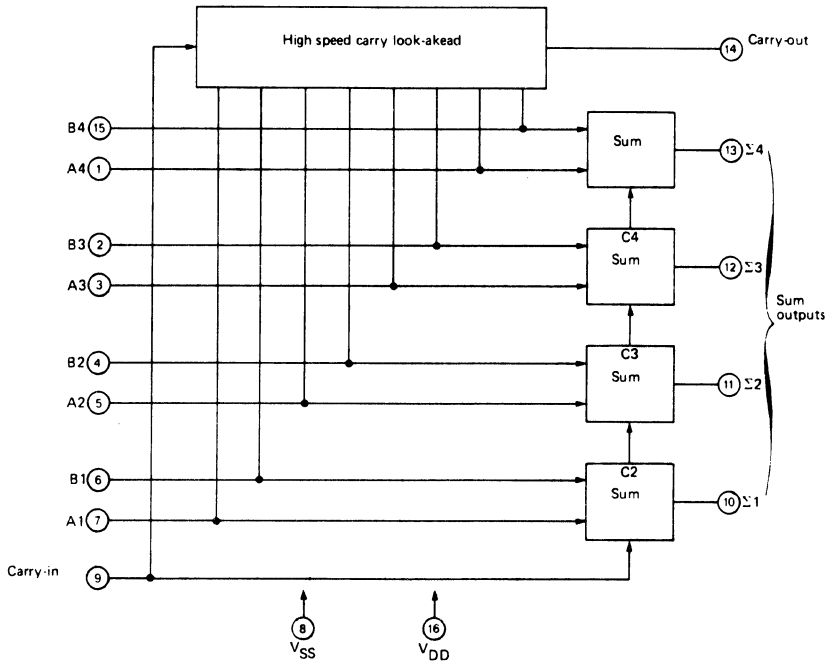


V_{CC} = Pin 16
GND = Pin 8

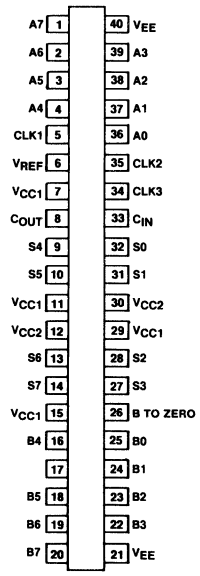
A02-18



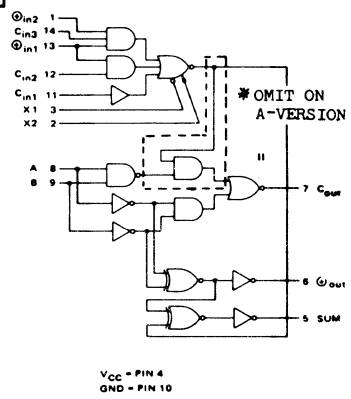
A02-02 Dual Full Adder



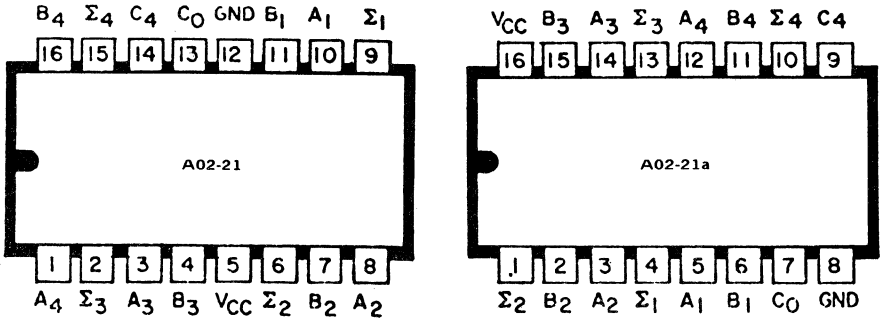
A03-3 8 BIT ECL LATCHED ADDER



A02-19 Dependent-Carry Fast Adder

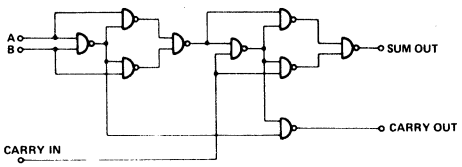


A02-21 4-Bit Binary Full Adder w/Fast Carry

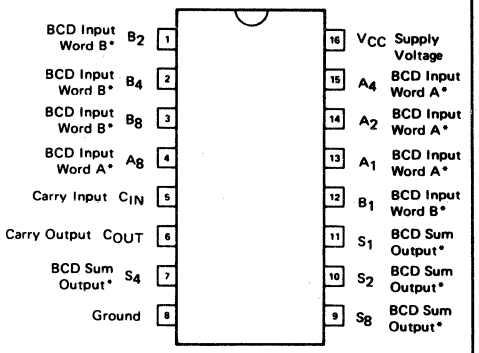


29. CIRCUIT DRAWINGS

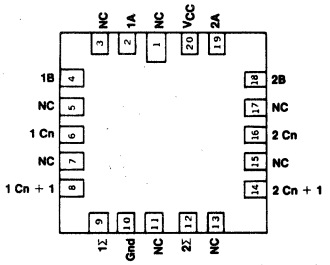
A02-48 Dual Full Adder



A02-35 4-Bit BCD Adder



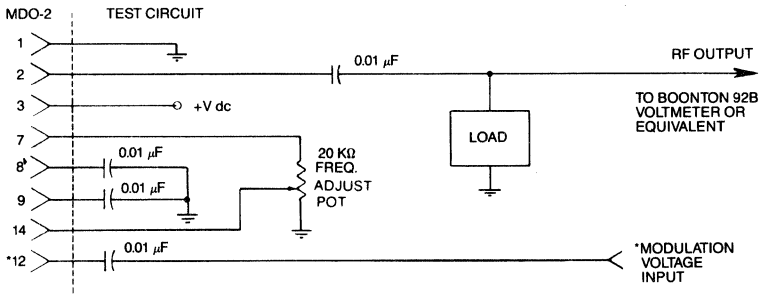
A02-55



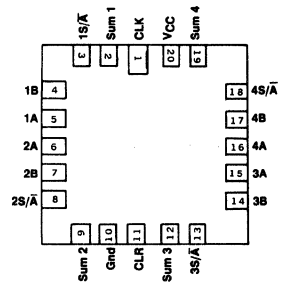
C04-67 Temperature-Compensated Crystal Oscillator

PIN	CONNECTION
1	Ground
2	R.F. Output
3	+V dc
7	Freq. Adjust
8	*
9	*
12	**Modulation
14	Freq. Adjust

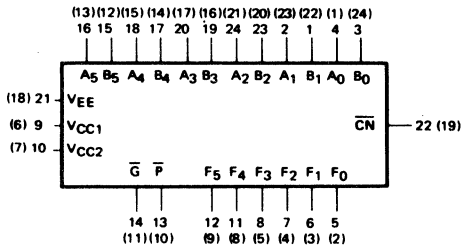
*Pins used for internal calibration only.



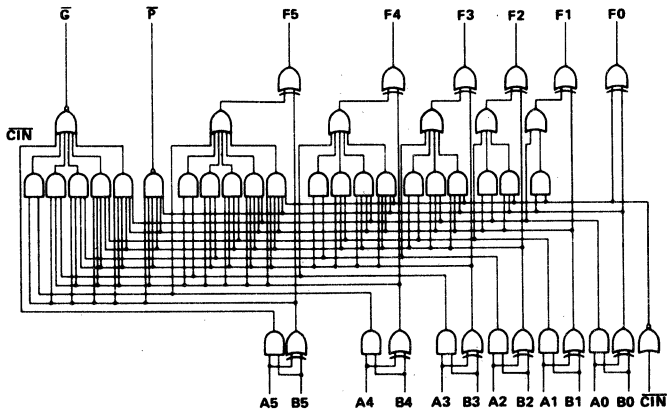
A03-5



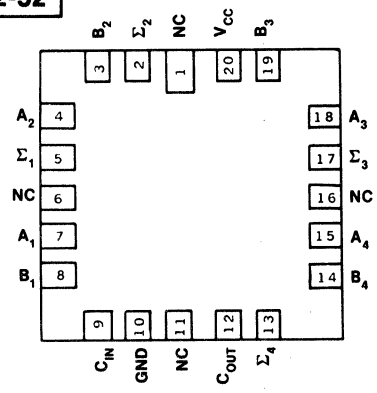
A02-49 6-Bit Adder



A02-50



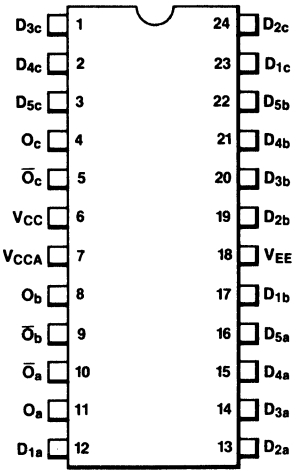
A02-52 4-Bit Binary Full Adder with Fast Carry



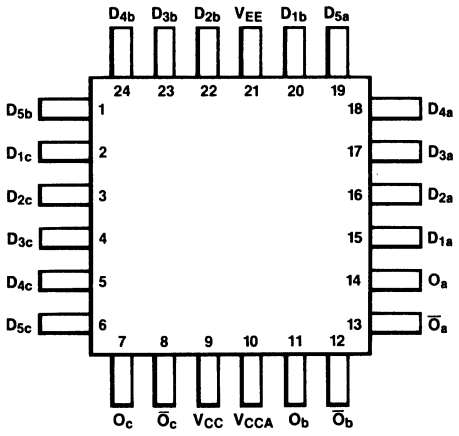
NC – No internal Connection

29. CIRCUIT DRAWINGS

A02-42 Triple 5-Input OR/NOR Gate
A02-42a Triple 5-Input OR/NOR Gate

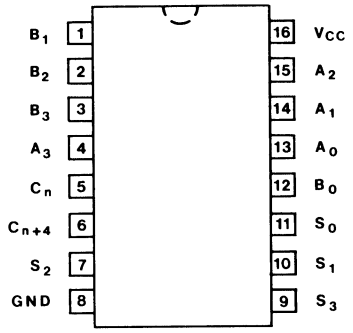


24-Pin Flatpak (Top View)

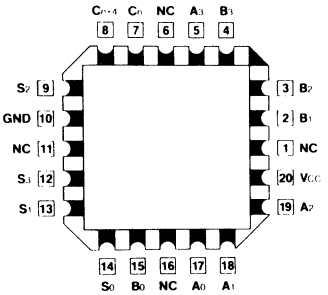


A02-42a

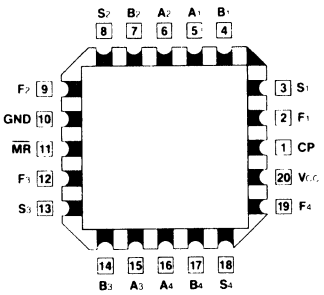
A02-53 4-Bit BCD Adder



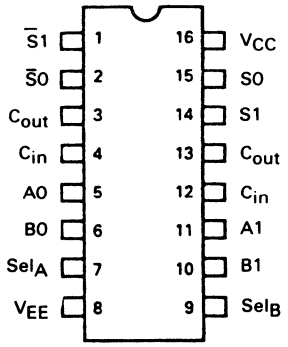
A02-54 4-Bit BCD Adder



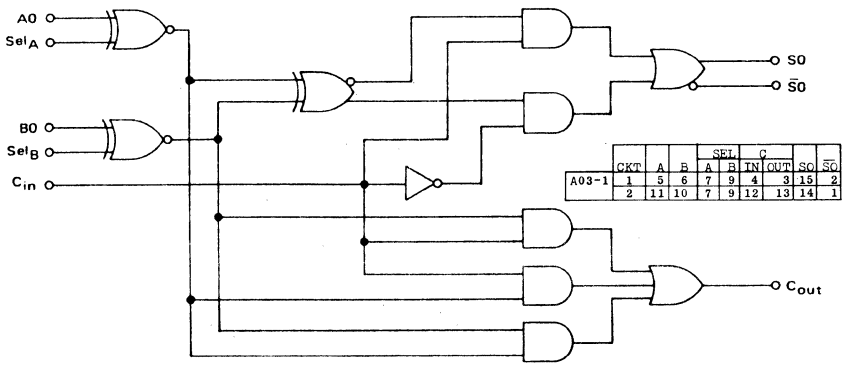
A03-4 Quad Serial Adder/Subtractor



A03-2 Dual 2-Bit Adder/Subtractor



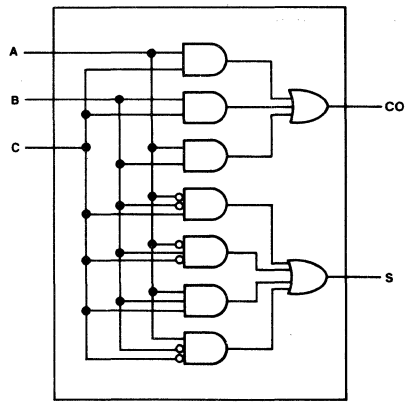
A03-1 Dual 2-Bit Adder/Subtractor

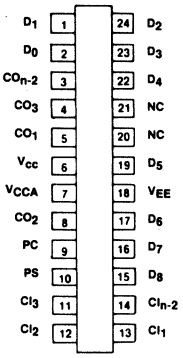


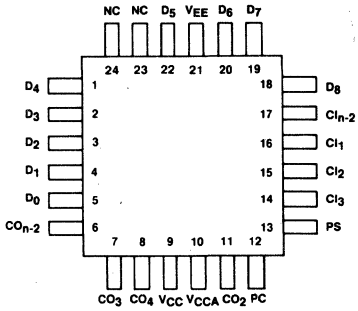
	CKT	A	B	SEL A	SEL B	C IN	C OUT	S0	S0
A03-1	1	5	6	7	9	4	3	15	2
	2	11	10	7	9	12	13	14	1

29. CIRCUIT DRAWINGS

A02-56

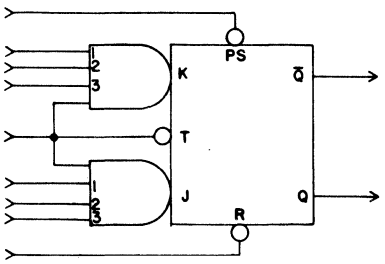






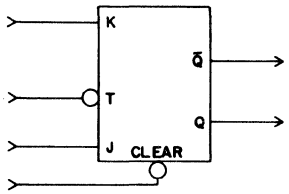
B02-88

J-K Flip-Flop



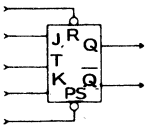
	CKT NO.	PKG	K1	K2	K3	J1	J2	J3	Q	$\bar{Q}$	T	PS	R	COM	VCC	NC
B02-88	1	FP	14	1	13	7	8	9	12	10	2	3	5	11	4	6
	1	MP	9	10	11	3	4	5	8	6	12	13	2	7	14	1
B02-88a	1		104	205		204	107		207	108	203	206	105	101,115	202	102, 201,2,5
	2		110	211		210	112		213	113	209	212	114	101,115	202	102, 201,215

B02-91



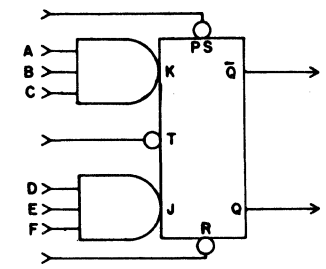
	CKT NO	K	T	J	$\bar{Q}$	Q	CLEAR	VCC	COM
B02-91	1	3	1	14	13	12	2	4	11
	2	10	5	7	8	9	6		
B02-91a	1	2	1	3	5	6	4	14	7
	2	12	13	11	9	8	10		
B02-91b	1	11	12	13	2	3	1	14	7
	2	12	9	8	5	4	6		
B02-91c	1	203	103	104	105	207	205	202	101,115
	2	204	106	107	108	208	206	202	101,115
	3	209	109	110	114	213	211	202	101,115
	4	210	111	112	113	214	212	202	101,115
B02-91d	1	1	4	3	5	6	2	14	7
	2	13	10	11	9	8	12		

B02-92



	PKG	CKT.	K	J	T	PS	R	$\bar{Q}$	Q	VCC	COM
B02-92		1	16	4	1	2	3	14	15	5	13
		2	12	9	6	7	8	10	11		
B02-92a		1	2	3	1	4	13	5	6	14	7
		2	12	11	1	10	13	9	8		
B02-92b	FP	1	3	1	2		13	12	14	4	11
		2	5	7	6		9	10	8		
	MP	1	3	2	6	1	13	12	14	4	11
		2	5	7	6	8	11	10	9		
B02-92c	M	1	1	3	2	11	9	6	5	14	7
		2	13	12	2	11	9	8	10		
B02-92d	M	1	1	3	2	4	6	7	5	16	8
		2	15	13	14	12	10	9	11		
B02-92e	M	1	1	4	5	2	3	6	7	16	8
		2	15	12	11	14	13	10	9		

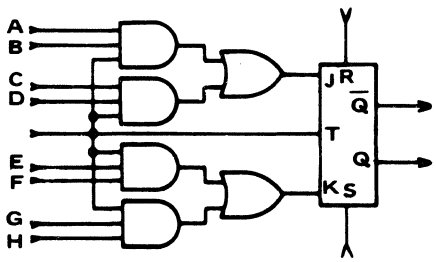
B02-94



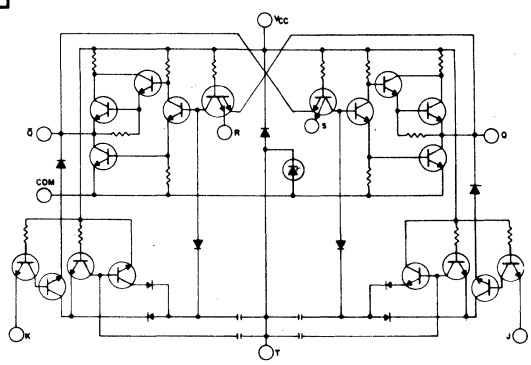
	A	B	C	D	E	F	T	VCC	COM	PS	R	Q	$\bar{Q}$
B02-94	14	1	13	7	8	9		4	11	3	5	12	10
B02-94a	12	11	NC	3	4	NC		14	7	5	10	6	9
B02-94b	9	10	11	3	4	5	12	13	2	8	6	14	7
B02-94c	3	4	5	9	10	11	12	14	7	13	2	6	8

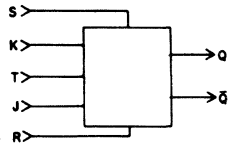
B02-106

J-K Flip-Flop (OR Inputs)



B02-108

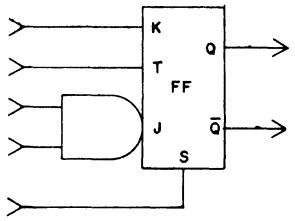




	PKG.	CKT NO.	J	K	Q	Q	R	S	T	COM	V_{CC}
B02-108	FP	1	1	3	14	12	13		2	11	4
		2	7	5	8	10	9		6		
	MP	1	3	1	5	6	4		2	7	14
		2	12	11	10	8	9		13		
B02-108A	FP	1	3	2	12	14	13	1	6	11	4
		2	5	7	10	8	13	9	6		
	MP	1	1	3	6	5	9	4	2	7	14
		2	13	12	8	10	9	11	2		

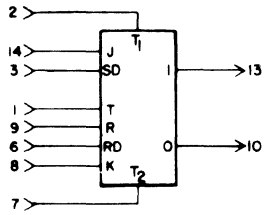
29. CIRCUIT DRAWINGS

B02-139 Dual J-K Master/Slave Flip-Flop

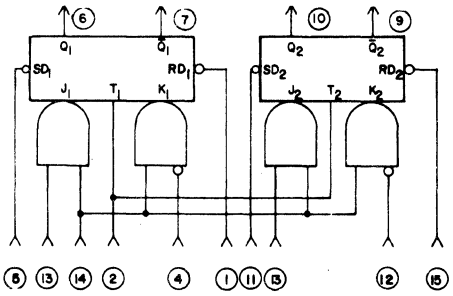


CKT NO	J_1	J_2	T	K	S	$\bar{Q}$	Q	V_{CC}	COM
1	10		8	9	13	12	14	7	14
2	3	4	6	5	13	1	2		

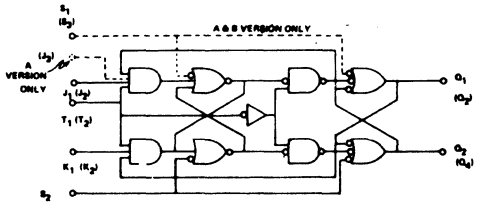
B02-49



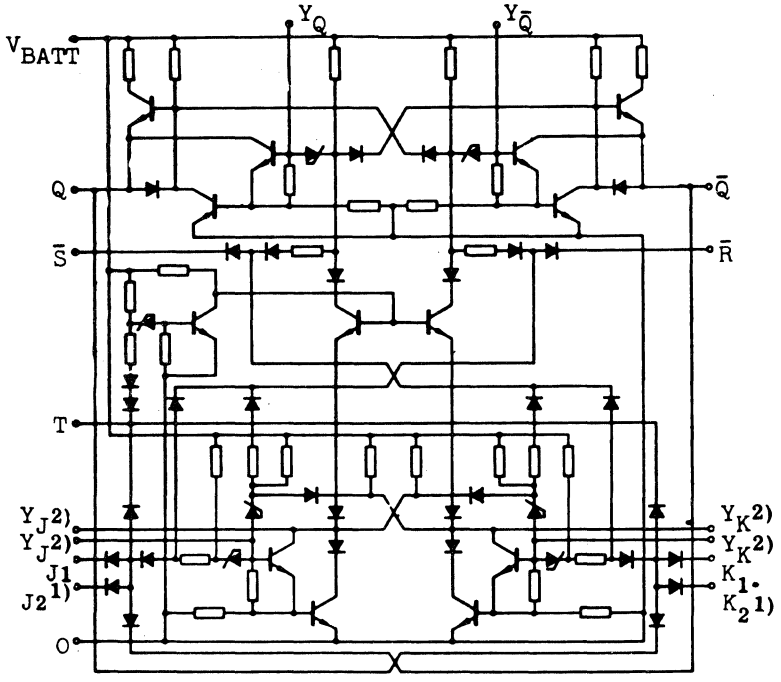
B02-187 Dual J-K Flip-Flop



B02-188 Dual J-K Master/Slave Flip-Flop

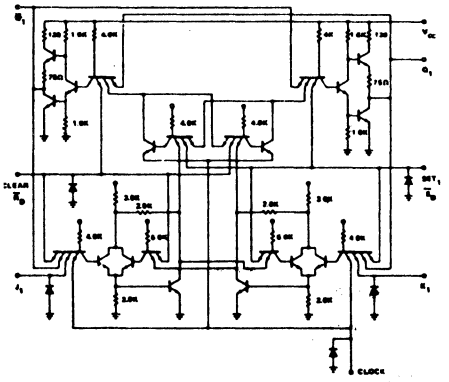


B02-242



1) FOR B02-242 ONLY.

B02-250



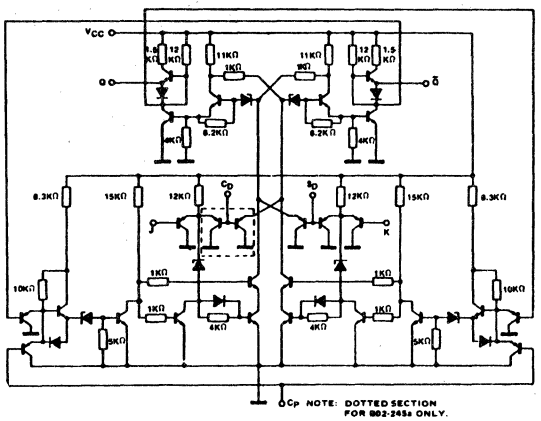
	CKT	$\bar{Q}$	$\overline{RD}$	J	T	K	$\overline{SD}$	Q	VCC	GND
B02-250	1	10	13	11	12	15	14	9	16	8
	2	5	3	4	1	7	2	6		

29. CIRCUIT DRAWINGS

B02-245

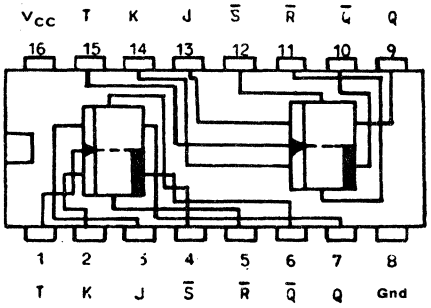
Dual J-K Flip-Flop

	CKT	J	K	CD	SD	CD	Q	$\overline{Q}$	VCC	GND
B02-245	1	3	2		4	1	6	5	14	7
	2	11	12		10	13	8	9		
B02-245a	1	3	2	5	4	1	7	6	16	8
	2	13	14	11	12	15	9	10		



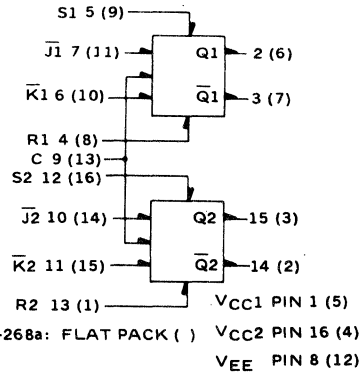
B02-266

Dual J-K Flip-Flop with Set and Clear



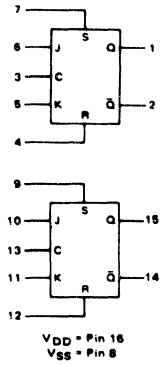
B02-268

Dual J-K Master-Slave Flip-Flop



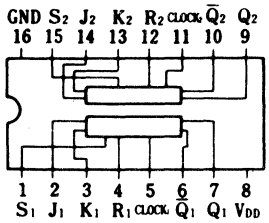
B02-269

Dual J-K Flip-Flop



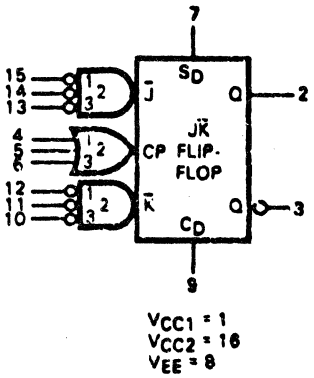
B02-301

Dual J-K Positive-Edge-Triggered Flip-Flop



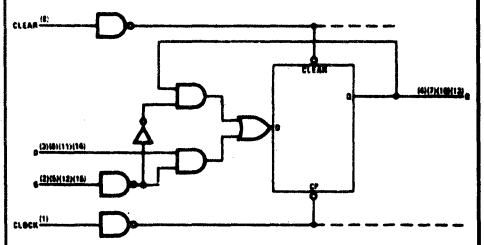
B02-314

J-K Flip-Flop



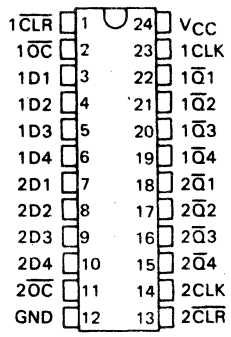
B02-324

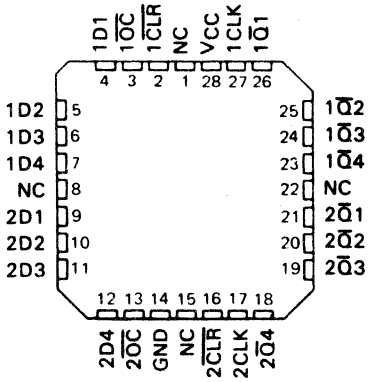
Quad Gated Flip-Flop



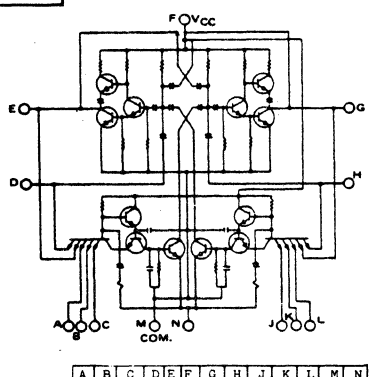
B08-199

Dual 4-Bit D-Type Edge-Triggered Flip-Flops with Inverting 3-State Outputs





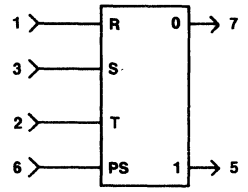
B02-67



	A	B	C	D	E	F	G	H	J	K	L	M	N
B02-67a	1	2	4	6	5	7	10	9	13	12	11	14	3

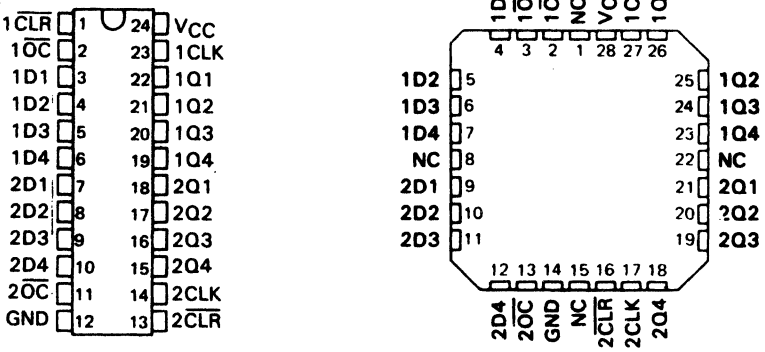
29. CIRCUIT DRAWINGS

B02-21



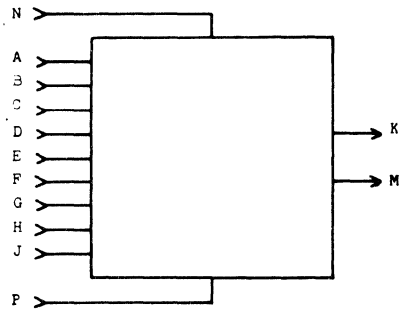
B08-197

Dual 4-Bit D-Type Edge-Triggered Flip-Flops with 3-State Outputs



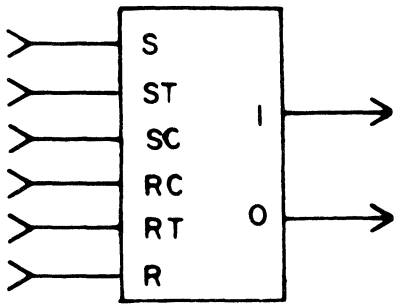
B03-8

Dual J-K Flip-Flop



	NOTE: PIN DESIGNATORS ARE IN PARENTHESIS WHEN GIVEN. CKT NO	A	B	C	D	E	F	G	H	J	K	M	N	P	VCC	COM
B03-8m	1	R(D)	S(H)								0(E)	1(F)				
	2	R(J)	S(M)								0(K)	1(L)				
	3	R(N)	S(S)								0(P)	1(R)				
	4	R(N)	S(V)								0(T)	1(U)				
B03-8n	1	R(D)	S(H)								0(E)	1(F)				
B03-8p	1	S(6)	J(4)	P(3)	K(5)	R(7)					Q(9)	Q(8)				
	2	S(15)	J(17)	P(18)	K(16)	R(14)					Q(12)	Q(13)				
	3	S(22)	J(20)	P(19)	K(21)	R(23)					Q(25)	Q(24)				
	4	S(31)	J(33)	P(34)	K(32)	R(30)					Q(28)	Q(29)				
	5	S(38)	J(36)	P(35)	K(37)	R(39)					Q(41)	Q(40)				
	6	S(47)	J(49)	P(50)	K(48)	R(46)					Q(44)	Q(45)				
B03-8q	1	J(5)	S(7)	T(4)	R(1)	K(3)					Q(6)	Q(2)				
	2	J(11)	S(9)	T(12)	R(15)	K(13)					Q(10)	Q(14)				
B03-8r	1	J(2)	S(14)	T(3)		K(1)					Q(13)	Q(12)				
	2	J(6)	S(8)	T(5)		K(7)					Q(9)	Q(11)				
B03-8s	1	J(2)	S(14)	T(3)	R(5)	K(1)					Q(13)	Q(12)				
	2	J(6)	S(8)	T(3)	R(5)	K(7)					Q(9)	Q(11)				
B03-8t	1	J(5)	T(4)	K(2)							Q(6)	Q(1)	RD(3)			
	2	J(9)	T(10)	K(12)							Q(8)	Q(13)	RD(11)			
B03-8u	1	J(5)	T(4)	K(2)							Q(6)	Q(1)	RD(3)		14	4
	2	J(9)	T(10)	K(12)							Q(8)	Q(13)	RD(11)		14	4
B03-8v	1	J(3)	T(4)	K(1)							Q(12)	Q(10)	S1(8)	S2(6)		
B03-8w	1	J(7)	T(1)	K(8)							Q(3)	Q(2)	R(9)	PS(6)		
B03-8x	1	D(10)	C1(8)	C2(7)							Q(2)	Q(3)	S(5)	R(4)		
B03-8y	1	D(10)	C1(8)	C2(6)							Q(2)	Q(3)	S(5)	R(4)		
B03-8z	1	D(9)	C1(6)								Q(13)	Q(12)	S(10)	R(11)		
	2	D(6)	C1(7)								Q(2)	Q(3)	S(5)	R(4)		
B03-8aa	1	DS(V)									Q(D)	Q(E)				

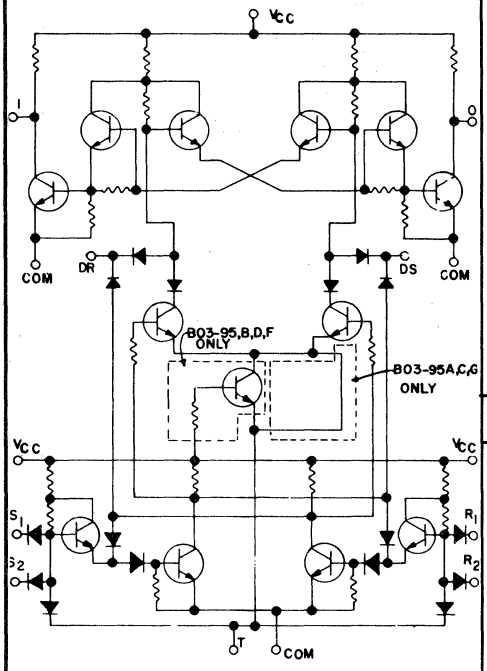
B03-56



	B0356	B0356A		B0356	B0356A
1	V_{EE}	RC	11	V_{CL}	V_{EE}
2	V_{BB}	SC	12	–	V_{CL}
3	RC	'1'	13	V_{CC}	V_{CC}
4	RT	'0'	14	'0'	V_{CC}
5	–	RT	15	–	–
6	R	ST	16	–	–
7	–	–	17	S	–
8	–	S	18	–	–
9	'1'	R	19	ST	
10	V_{CC}	V_{BB}	20	SC	

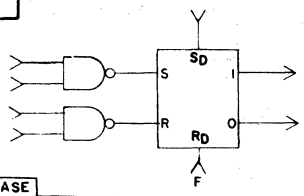
29. CIRCUIT DRAWINGS

B03-95 Clocked Flip-Flop



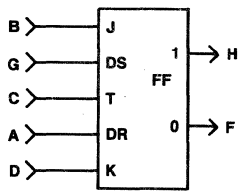
	PKG	CKT NO.	DR	R1	R2	T	S1	S2	DS	1	0	COM	VCC
B03-95,a	FP,MP	1	5	12	11	2	3	4	10	6	9	7	14
B03-95b,c	CN	1	NC	9	8	1	2	3	7	4	6	5	10
B03-95d	FP,MP	1	NC	2	NC	1	3	NC	4	6	5	7	14
		2		12		13	11		10	8	9		
B03-95f,g	CN	1	4	10	11	1	2	3	8	5	7	6	12
B03-95h	M	1	5	12	11	2	3	4	10	6	9	7	14

B03-97



	CASE STYLE	S1	S2	SD	R1	R2	RD	Q	$\bar{Q}$	A	B	VCC	COM
B0397	FP	6	10	1	4	5	13	3	11			14	
	CN	5	7	1	3	4	9	2	8			10	6
B0397A	FP/MP	10	6	1	4	5	13	3	11	2	12	14	7
B0397B	CN	9	5	11	3	4	1	2	10	NC	NC	12	6
B0397C	FP	10	6	1	4	5	13	3	11	2	12	14	7
	CN	7	5	1	3	4	9	2	8			10	6
B0397D	FP MP	4	5	13	6	10	1	3	11	2	12	14	7
	CN	3	4	9	5	7	1	2	8	NC	NC	10	6

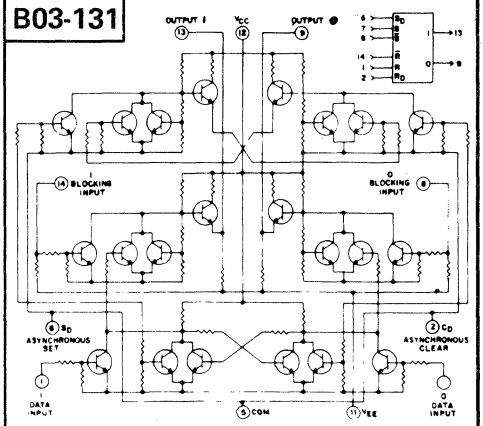
B02-62 J-K Flip-Flop



or I O
or I O

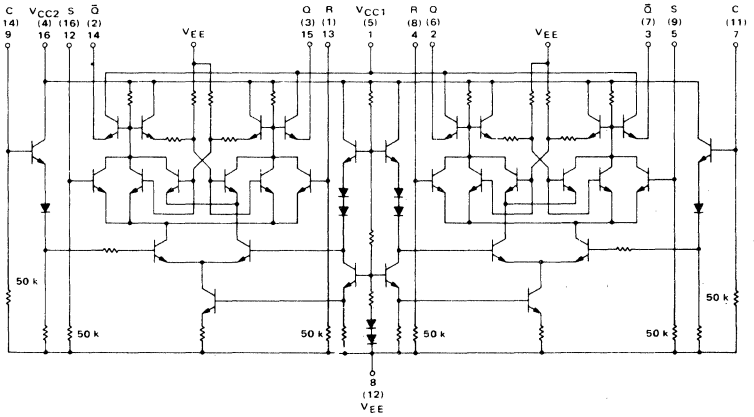
	A	B	C	D	E	F	G	H	VAA
B02-62	1	2	3	4	5	7	8	9	10

B03-131

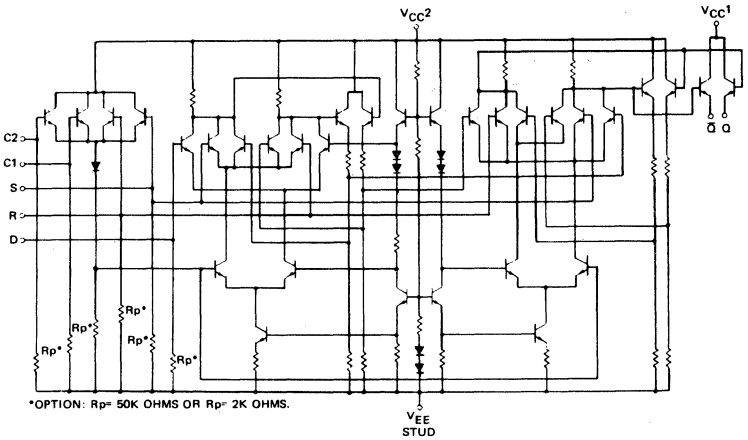


B03-150 Dual Clocked R-S Flip-Flop

NUMBERS AT ENDS OF TERMINALS DENOTE PIN NUMBERS FOR L SUFFIX.
NUMBERS IN PARENTHESIS DENOTE PIN NUMBERS FOR F SUFFIX.

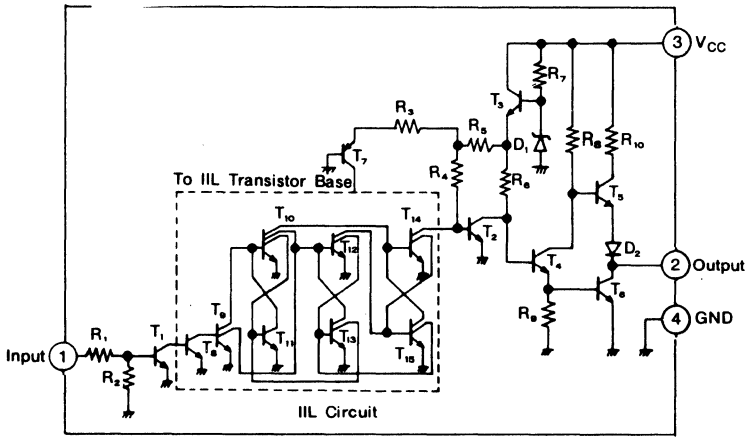


B03-153 Master-Slave Flip-Flop

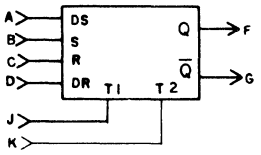


29. CIRCUIT DRAWINGS

B06-28



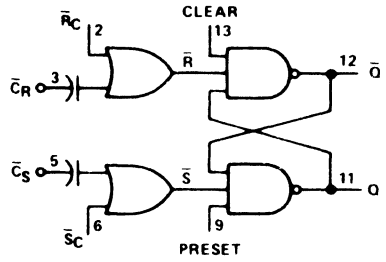
B04-19



	CKT. NO	A	B	C	D	F	G	H	J	K	V_{BB}	COM
B04-19A,D	1	2	8	14	6	7	1	11	10	10	4	11
B04-19B,E	1	2	8	14	6	7	1	3	6	10	4	11
B04-19F	1	6	12	4	10	11	5	1	14	14	8	1

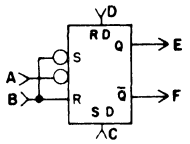
B04-42

Single Phase SRT Flip-Flop



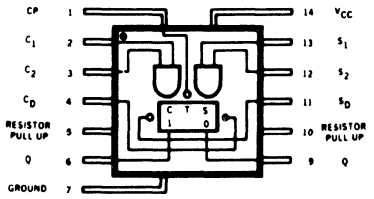
Pin 4 is V_{CC}, pin 10 is GND

B04-52

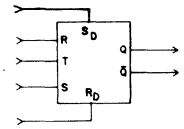


PACKAGE	A	B	C	D	E	F	V_{CC}	COM
CN	1	2	3	7	6	5	8	4
FP	2	3	4	9	8	7	10	5

B06-19

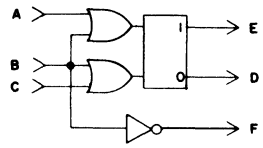


B04-125



	PACK	CKT.	R	T	S	RD	SD	Q	Q̄	V_{CC}	COM
B04-125	FP	1	1	2	3	14		12	13	4	11
		2	7	6	5	8		10	9		
	M	1	3	2	1	5		6	4		
		2	12	11	13	10		8	9	14	7
B04-125a	FP	1	3	6	2	14	1	13	12		
		2	5	6	7	14	8	9	10	4	11
	M	1	13	2	12	10	11	9	8	14	7
		2	1	2	3	10	4	5	6		

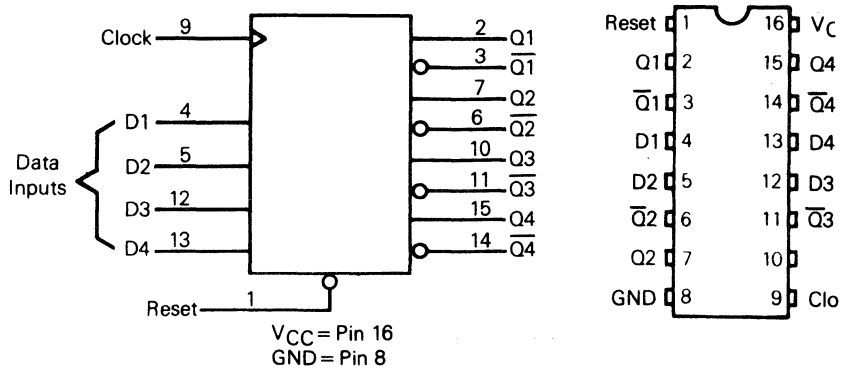
B05-31



	PKG.	CKT. NO.	A	B	C	D	E	F	COM	V_{CC}
B05-31	FP	1	2	3	4	9	7	8	5	10
	CN	1	1	2	3	7	5	6	4	8
B05-31A	MP	1	1	2	3	12	14	13	4	11
		2	5	6	7	8	10	9		
	FP	1	6	5	4	3	1	2	7	14
		2	8	9	10	11	13	12		

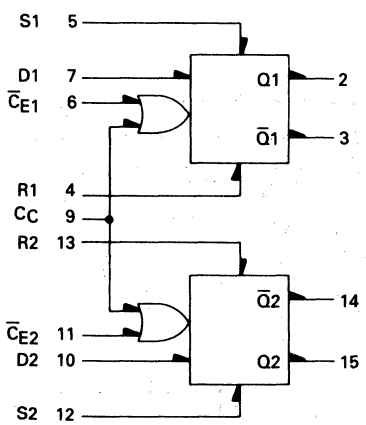
B04-137

Quad D-Type Flip-Flop



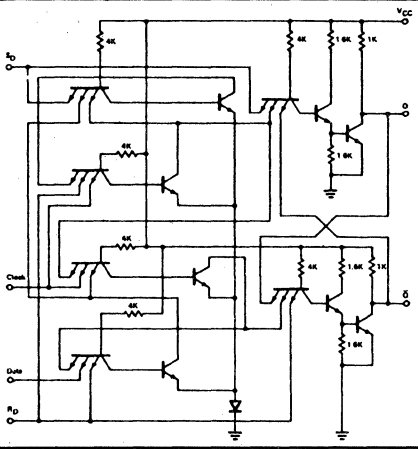
29. CIRCUIT DRAWINGS

B08-33 Dual D-Type Master-Slave Flip-Flop



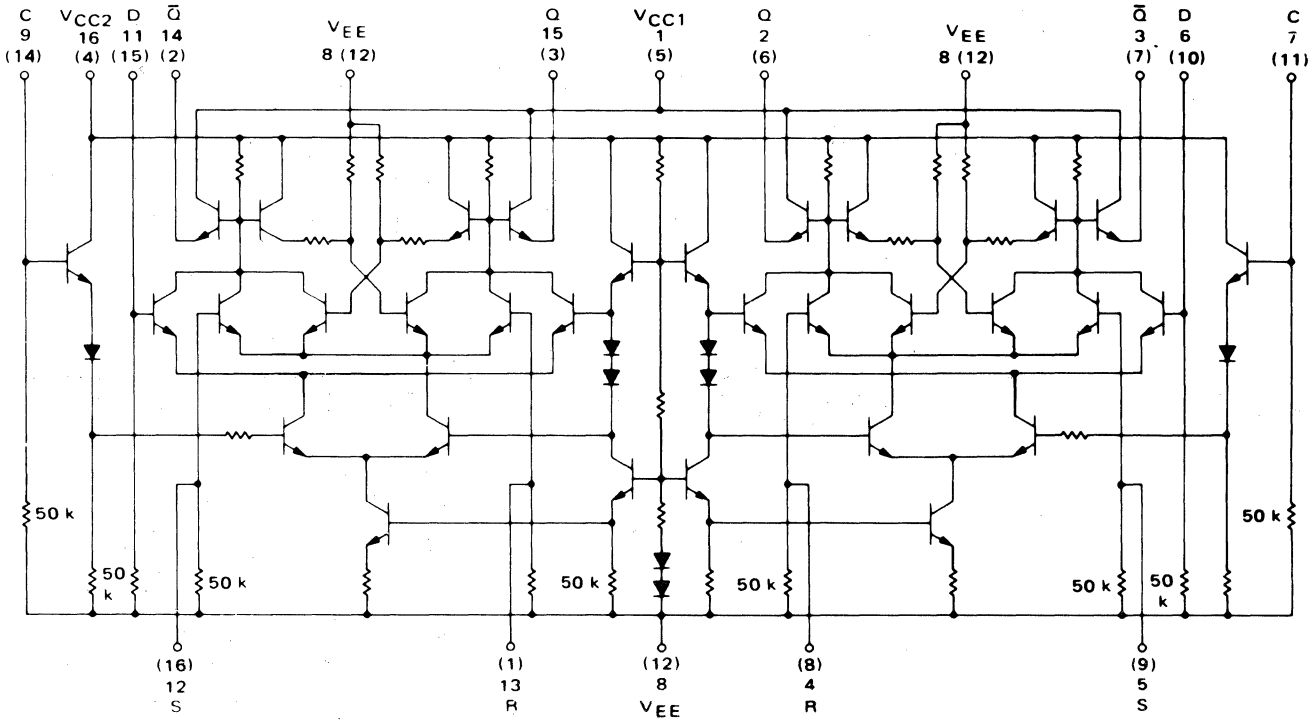
V_{CC1} = Pin 1
V_{CC2} = Pin 16
V_{EE} = Pin 8

B08-44



	CKT	SD	T	DATA	RD	Q	$\overline{Q}$	VCC	GND
B08-44	1	4	5	6	7	3	2	8	1
	2	12	11	10	9	13	14		

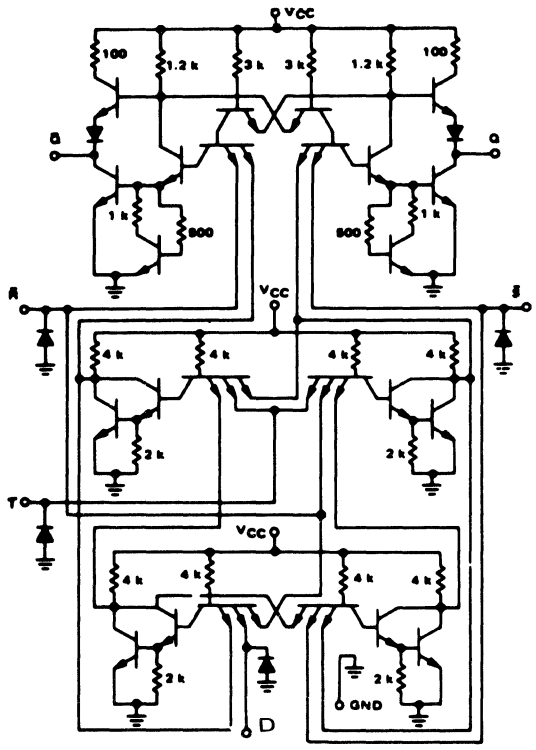
B08-32 Dual Clocked Latch



Numbers at ends of terminals denote pin numbers for L package
Numbers in parenthesis denote pin numbers for F package

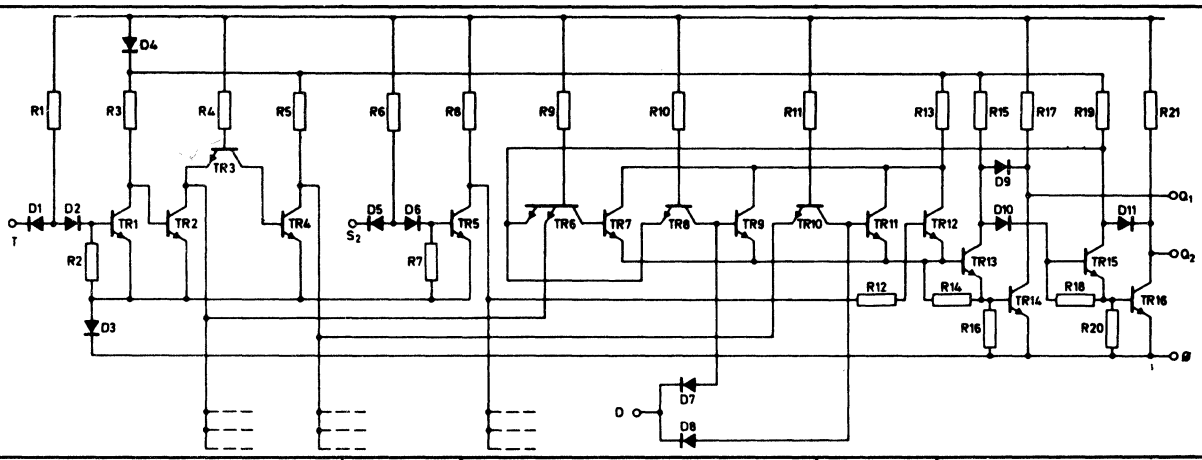
29. CIRCUIT DRAWINGS

B08-10 Dual D-Type Flip-Flop

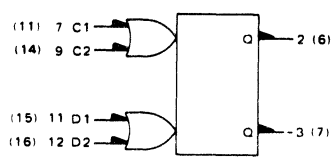


	PKG	CKT	$\overline{S}$	D	T	$\overline{R}$	Q	$\overline{Q}$	VCC	GND
B08-10		1	4	2	3	1	5	6	14	7
		2	10	12	11	13	9	8		
B08-10a		1	14	2	1	3	13	12	4	10
		2	8	6	7	5	9	11		
B08-10b		1	8	6	7	5	9	10	4	11
		2	14	2	1	3	13	12		
B08-10c	FC	1	13	6	7	5	14	15	4	16
		2	19	1	2	3	18	17		
	FP	1	8	6	7	5	9	10	4	11
		2	14	1	2	3	13	12		

B08-37



B08-54 UHF Prescaler D-Type Flip-Flop

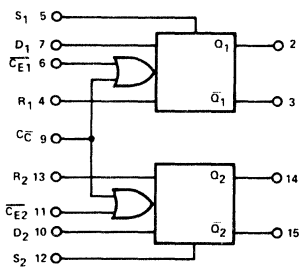


V_{CC1} Pin 1 (5)
V_{CC2} Pin 16 (4)
V_{EE} Pin 8 (12)

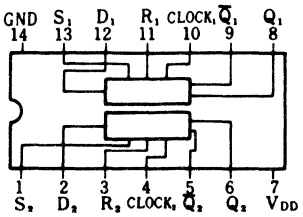
Numbers at ends of terminals denote pin numbers for L package

Numbers in parenthesis denote pin numbers for F package

B08-82 Dual D-Type Master/Slave Flip-Flop

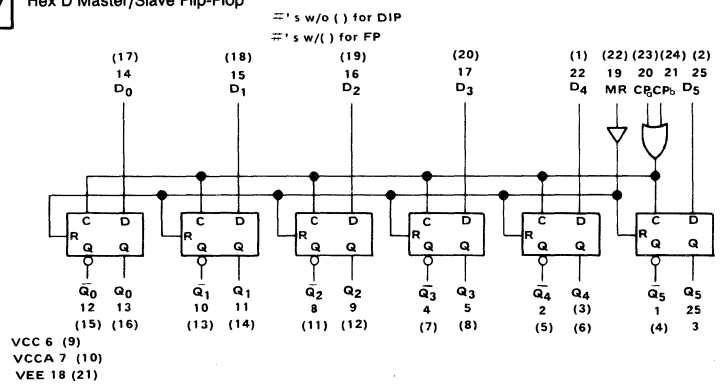


B08-92 Dual D-Type Flip-Flop with Direct Set and Reset

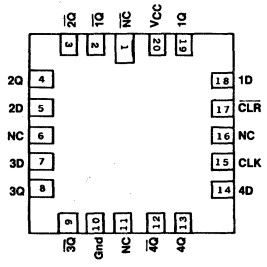


29. CIRCUIT DRAWINGS

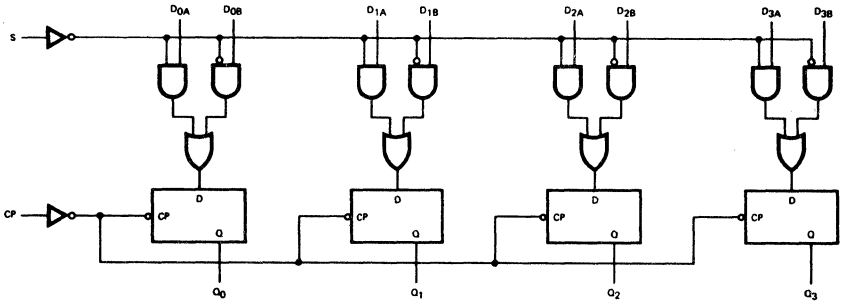
B08-147 Hex D Master/Slave Flip-Flop



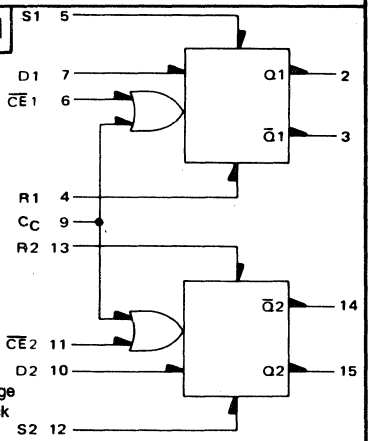
B08-207 Quad D-Type Flip-Flop with Common Clear



B08-213 Quad Two-Input, High-Speed Register

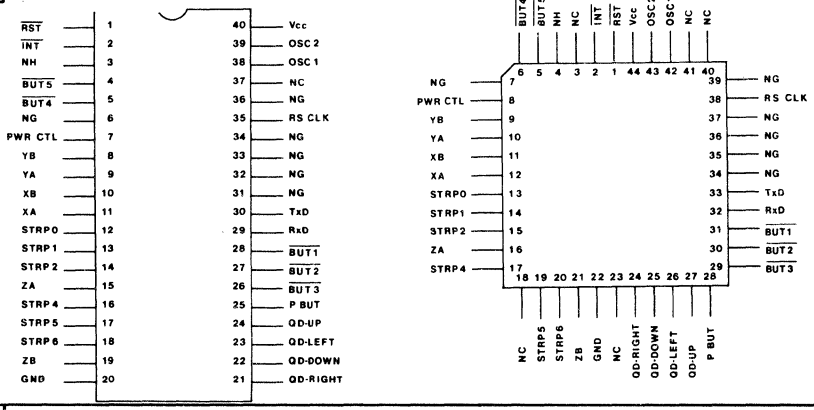


B08-151 Dual D-Type Master-Slave Flip-Flop

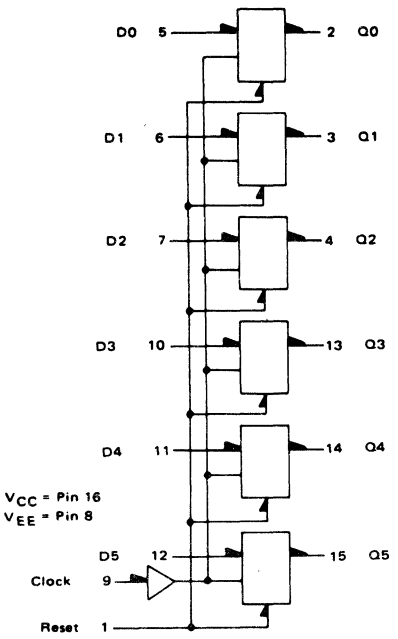


B08-151a: Edge triggered clock

K02-50 Panel Switch and Encoder Controller



B08-180 Hex D Master-Slave Flip-Flop with Reset



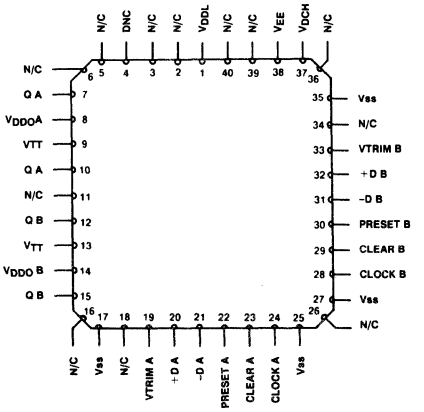
B08-206 Dual Precision D-Type Flip-Flop

NC = No Connection

DNC = Do Not Connect. Reserved for future use.

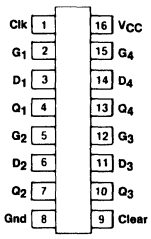
Pin 1 is marked for orientation.

The package lid and 4 corner N/C pins (6, 16, 26, 36) are at V_{SS} potential.

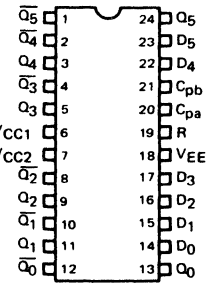


29. CIRCUIT DRAWINGS

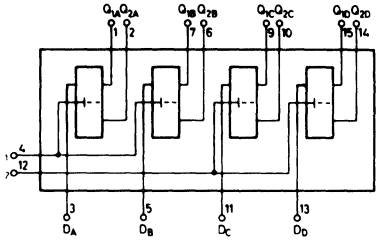
B08-156 Quad Gated D-Type Flip-Flop with Common Clear



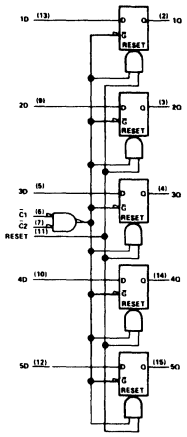
B08-204 Hex D-Type Master-Slave Flip-Flop



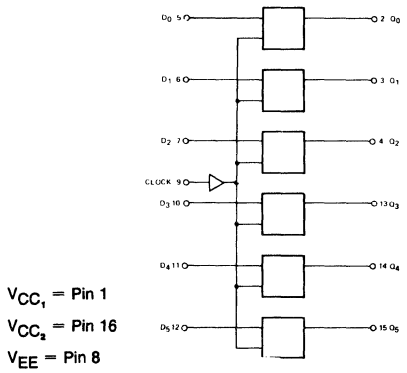
B08-94 Quad D-Type Flip-Flop



B08-97

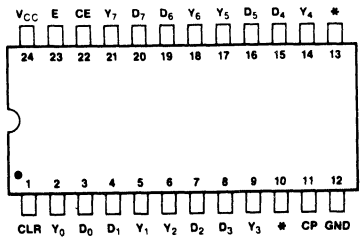


B08-100 HEX D Master-Slave Flip-Flop

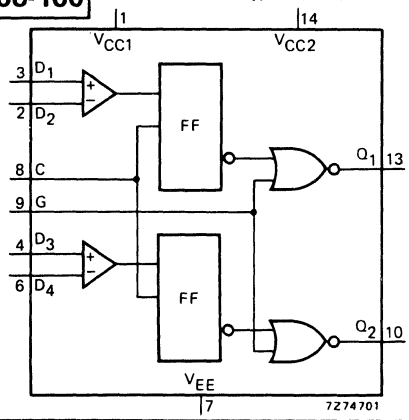


V_{CC_1} = Pin 1
V_{CC_2} = Pin 16
V_{EE} = Pin 8

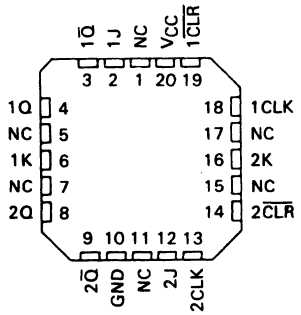
B08-131



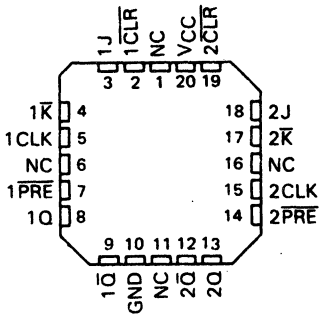
B08-160 Dual Differential D-Type Flip-Flop



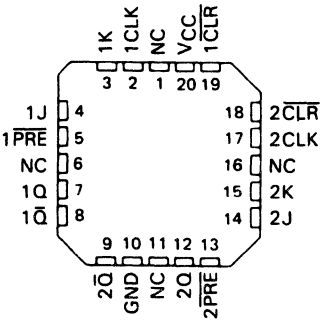
B02-330 Dual J-K Negative Edge Flip-Flops with Clear



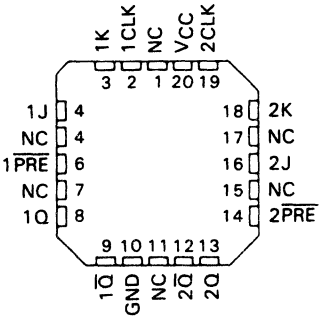
B02-331 Dual J-K Positive Edge Flip-Flop with Clear and Preset



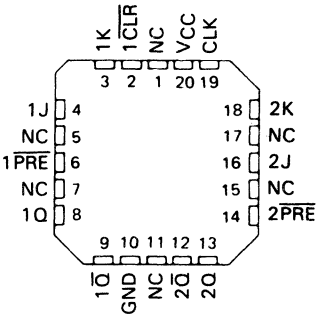
B02-332 Dual J-K Negative Edge Flip-Flops with Clear and Preset



B02-333 Dual J-K Negative Edge Flip-Flops with Preset

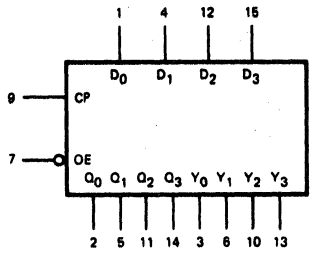


B02-334 Dual J-K Flip-Flops with Preset, Common Clear and Common Clock



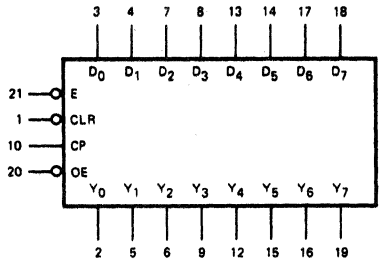
29. CIRCUIT DRAWINGS

B08-161 Quad D Register with Standard and 3-State Outputs



V_{CC} = Pin 16
GND = Pin 8

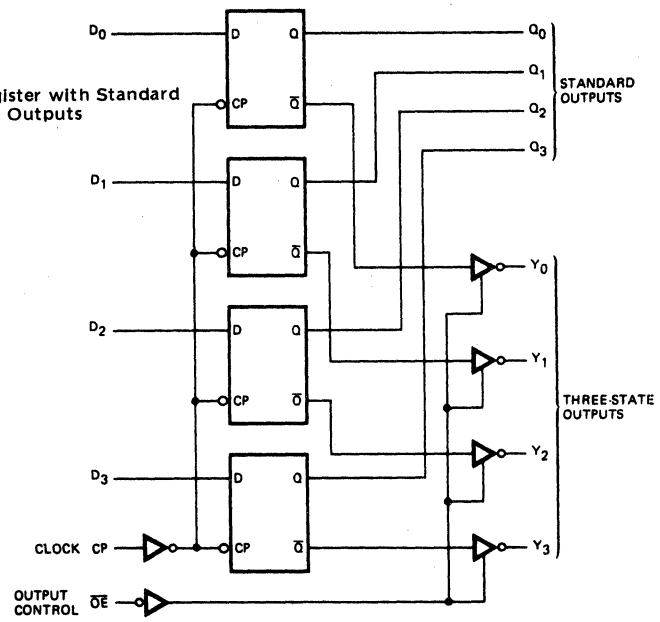
B08-162 "D" Flip-Flop with Clear, Clock Enable and 3-State Control

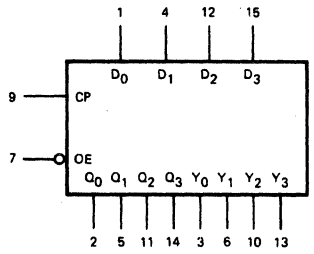


V_{CC} = Pin 22
GND = Pin 11

B08-163

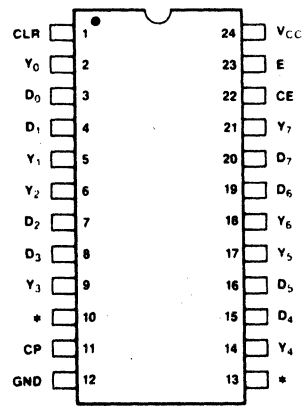
Quad D Register with Standard and 3- State Outputs



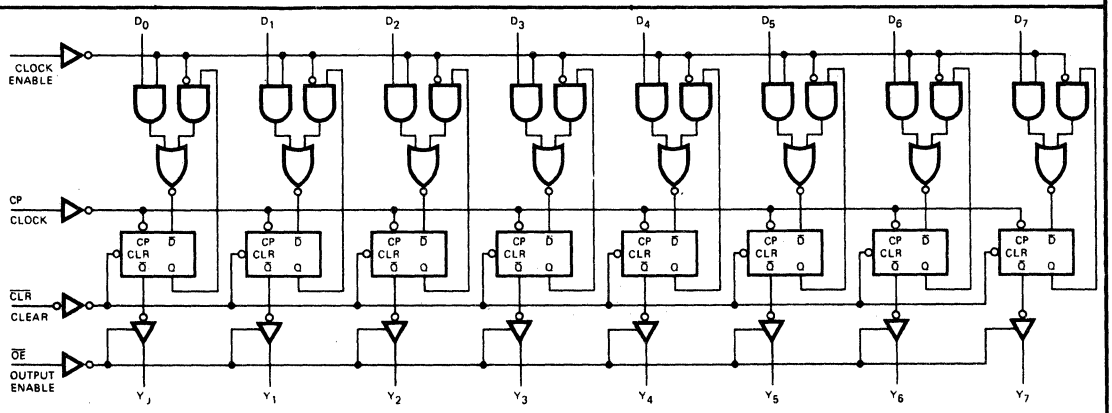


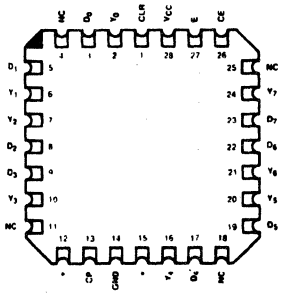
V_{CC} = Pin 16
GND = Pin 8

B08-164



Pin 1 is marked for orientation.



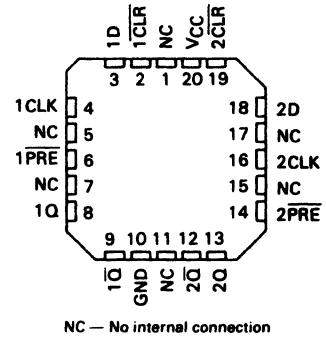


Octal D type Flip-Flop with Clear, Clock Enable and 3-State Control

*Reserved – do not use.

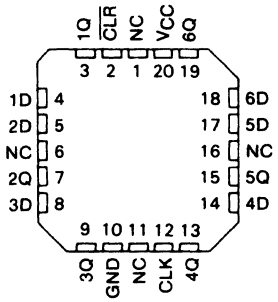
29. CIRCUIT DRAWINGS

B08-165 Dual D Flip-Flop with Preset and Clear

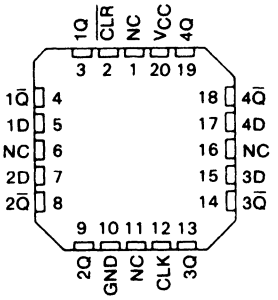


NC — No internal connection

B08-166 HEX D Flip-Flop with Clear

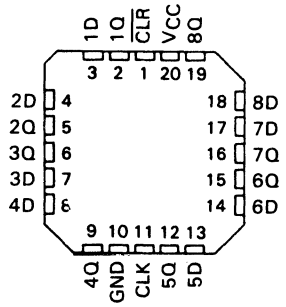


B08-167 Quad D Flip-Flop with Clear

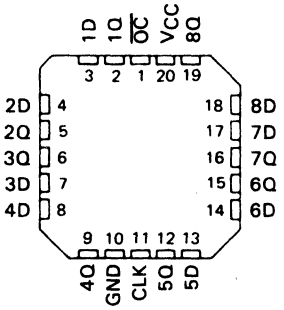


NC — No internal connection

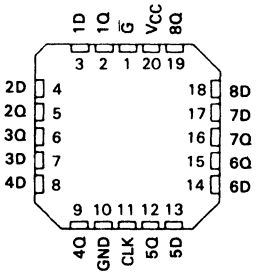
B08-168 Octal D-Type Flip-Flop with Clear



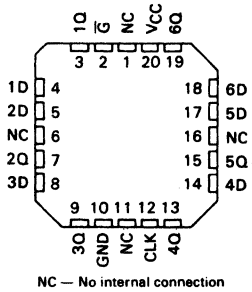
B08-169 Octal D Flip-Flops with 3-State Output



B08-170 Octal D Flip-Flop with Enable

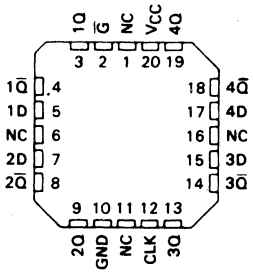


B08-171 Hex D Flip-Flop with Enable



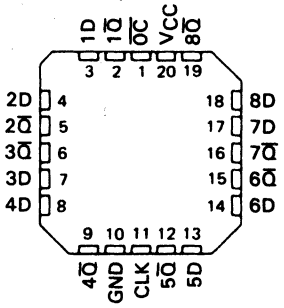
NC — No internal connection

B08-172 Quad D Flip-Flop with Enable

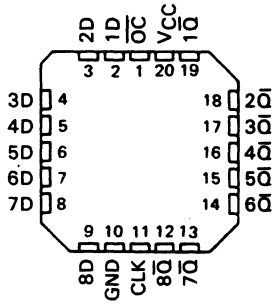


NC — No internal connection

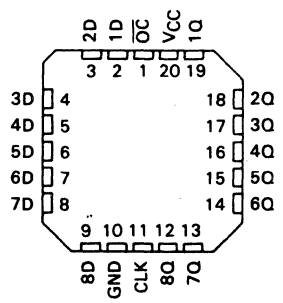
B08-173 Octal D Flip-Flop with 3-State Output



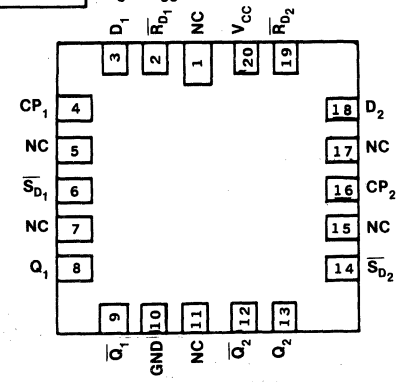
B08-174 Octal D Flip-Flop with 3-State Output



B08-175 Octal D-Type Edge Triggered Flip-Flops with 3-State Outputs



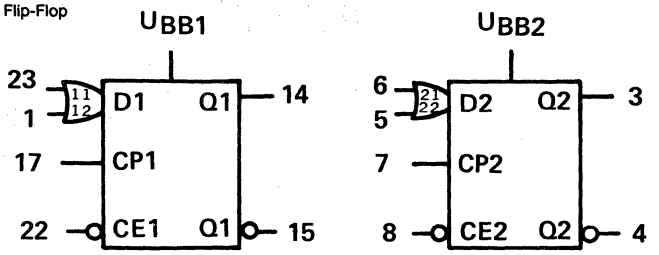
B08-177 Dual D-Type Flip-Flop – Positive Edge-Triggered



NC – No internal connection

29. CIRCUIT DRAWINGS

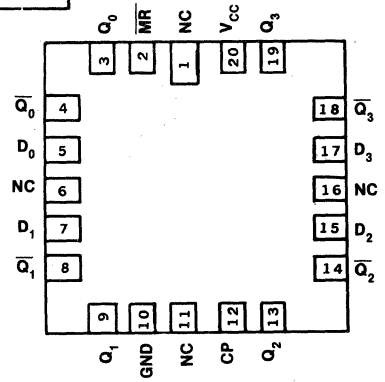
B08-176 D Flip-Flop



U_{CC1} = Pin 9
U_{CC2} = Pin 10
U_{EE2} = Pin 21

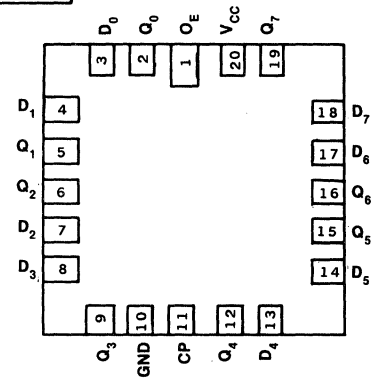
U_{BB1} = Pin 19
U_{BB2} = Pin 2

B08-178 Quad D Flip-Flop

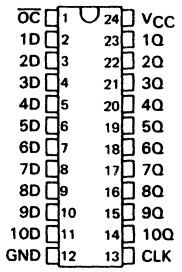


NC – No internal connection

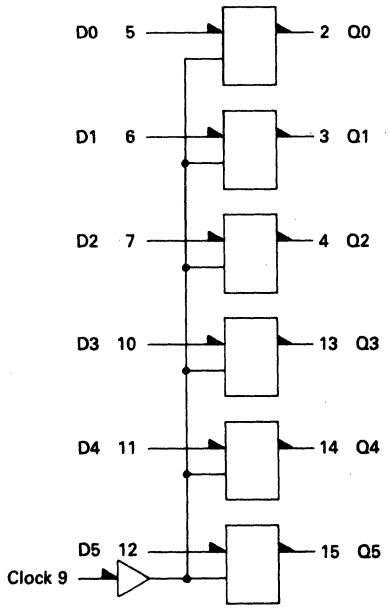
B08-179 Octal D Flip-Flop (3-State)



B08-182 10-Bit Bus Interface Flip-Flop with 3-State Outputs

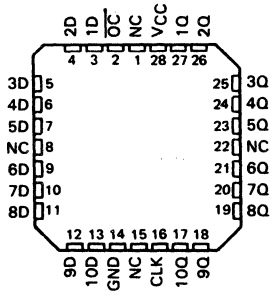


B08-181 Hex "D" Master-Slave Flip-Flop

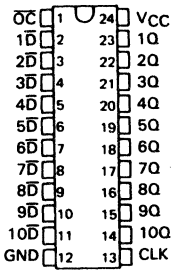


V_{CC1} = Pin 1
V_{CC2} = Pin 16
V_{EE} = Pin 8

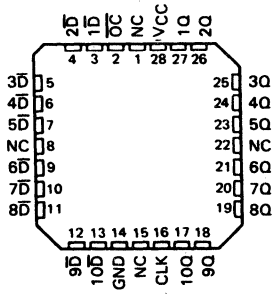
B08-183 10-Bit Bus Interface Flip-Flop with 3-State Outputs



B08-184 10-Bit Bus Interface Flip-Flop with 3-State Outputs

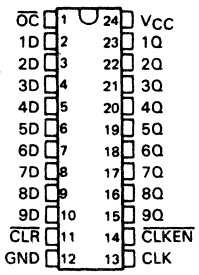


B08-185 10-Bit Bus Interface Flip-Flop with 3-State Outputs

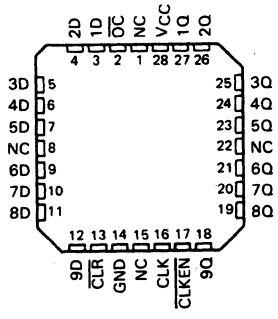


NC – No internal connection

B08-186 9-Bit Bus Interface Flip-Flop with 3-State Outputs

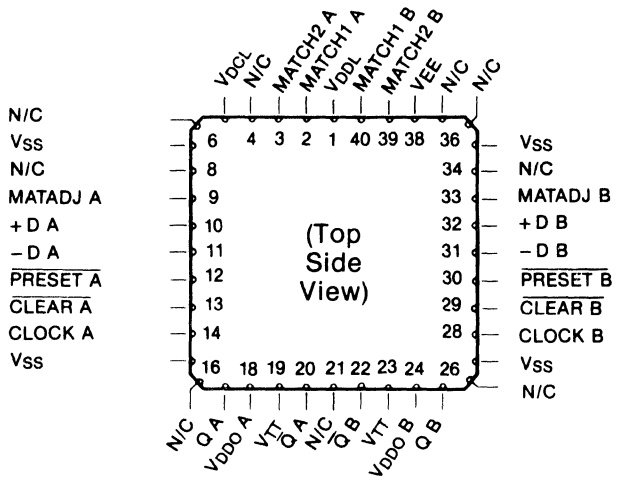


B08-187 9-Bit Bus Interface Flip-Flop with 3-State Outputs



29. CIRCUIT DRAWINGS

B08-201 Dual Precision D-Type Flip-Flop

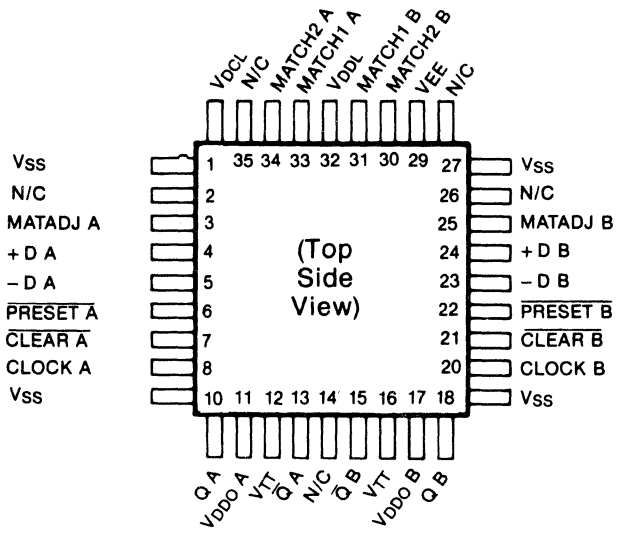


NC = No Connection

Pin 1 is marked for orientation.

The package lid, bottom heat vias and 4 corner N/C pins (6, 16, 26, 36) are at V_{SS} potential.

B08-202 Dual Precision D-Type Flip-Flop

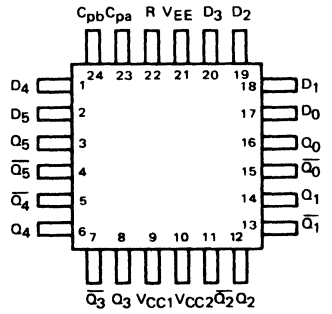


NC = No Connection

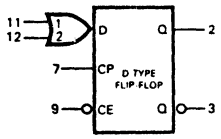
Pin 1 is marked for orientation.

The package lid and bottom surfaces are at V_{SS} potential.

B08-203 Hex D-Type Master-Slave Flip-Flop

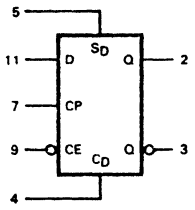


B08-103



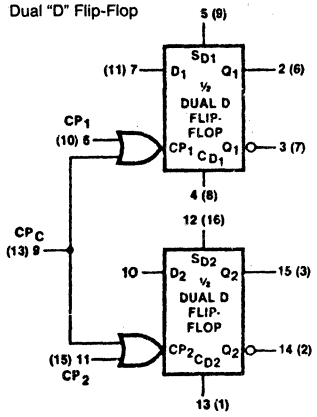
V_{CC1} = Pin 1
V_{CC2} = Pin 16
V_{EE} = Pin 8

B08-104



V_{CC1} = Pin 1
V_{CC2} = Pin 16
V_{EE} = Pin 8

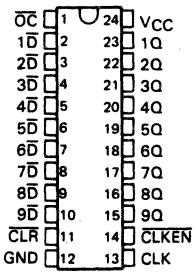
B08-105 Dual "D" Flip-Flop



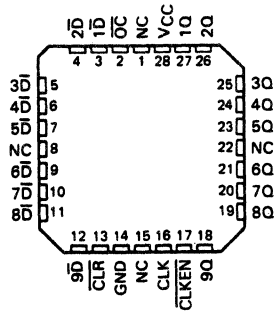
V_{CC1} = 1 (5)
V_{CC2} = 16 (4)
V_{EE} = 8 (12)
( ) = Flatpak

29. CIRCUIT DRAWINGS

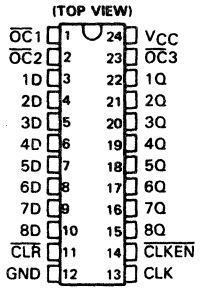
B08-188 9-Bit Bus Interface Flip-Flop with 3-State Outputs



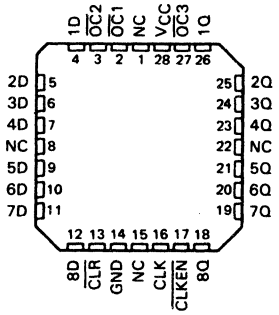
B08-189 9-Bit Bus Interface Flip-Flop with 3-State Outputs



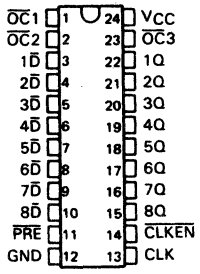
B08-190 8-Bit Bus Interface Flip-Flop with 3-State Outputs



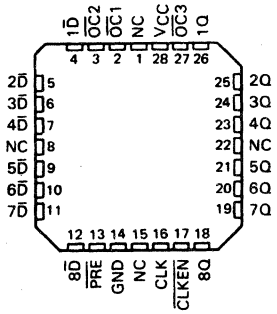
B08-191 8-Bit Bus Interface Flip-Flop with 3-State Outputs



B08-192 8-Bit Bus Interface Flip-Flop with 3-State Outputs

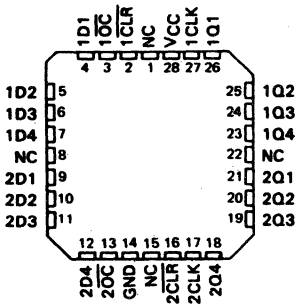


B08-193 8-Bit Bus Interface Flip-Flop with 3-State Outputs

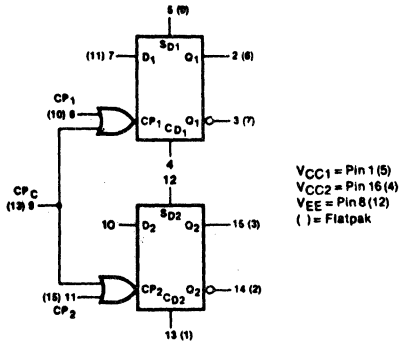


NC—No internal connection

B08-194 Dual 4-Bit D-Type Edge-Triggered Flip-Flop with True Outputs

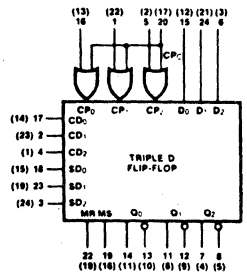


B08-106 Dual D-Type Master/Slave Flip-Flop



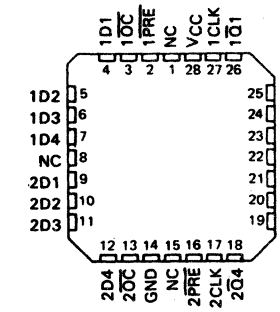
V_{CC1} = Pin 1 (5)
V_{CC2} = Pin 16 (4)
V_{EE} = Pin 8 (12)
( ) = Flatpak

B08-107 Triple D-Type Master/Slave Flip-Flop



V_{CC} = Pin 9 (6)
V_{CCA} = Pin 10 (7)
V_{EE} = Pin 21 (18)

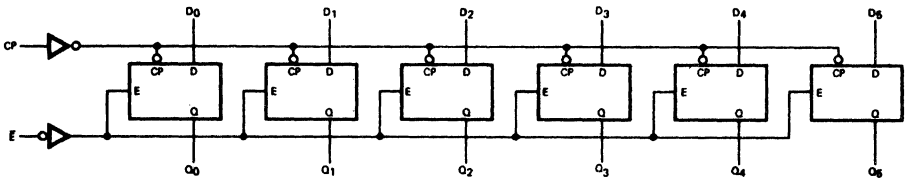
B08-195 Dual 4-Bit D-Type Edge-Triggered Flip-Flop with Inverting Outputs



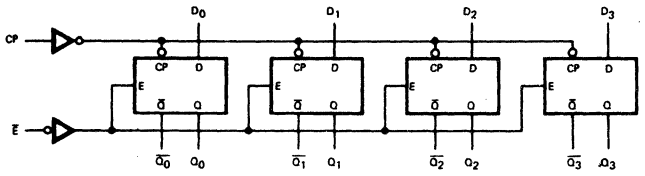
NC — No internal connection

29. CIRCUIT DRAWINGS

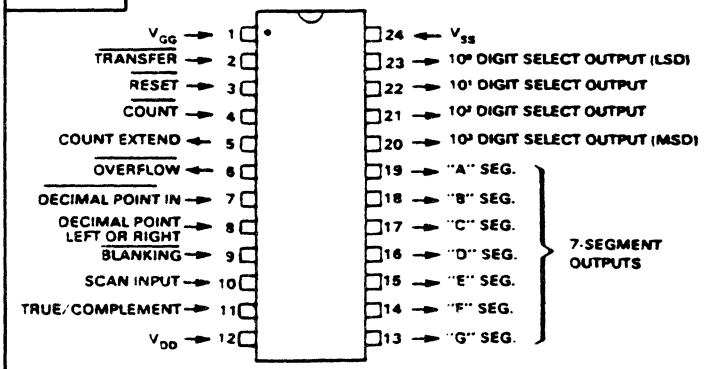
B08-211 Hex Parallel D Registers 2/Register Enable



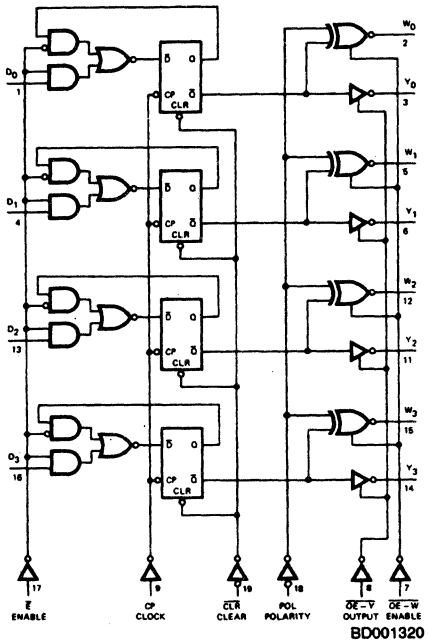
B08-212 Quad Parallel D Registers w/Register Enable

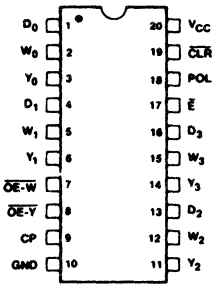


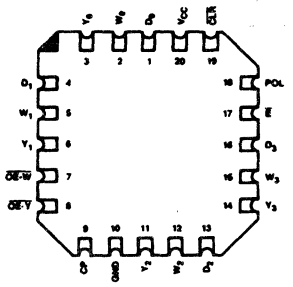
E04-02 4-Digit Counter/Display Decoder



B08-214 Quad Register w/Two Independently Controlled 3-State Outputs

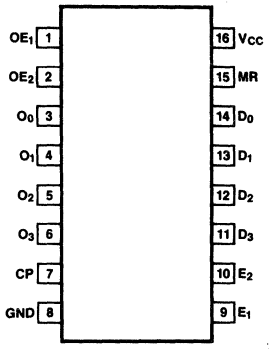




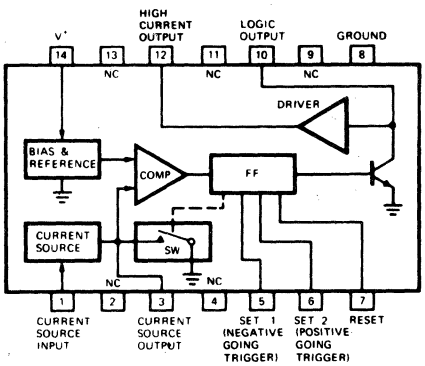


29. CIRCUIT DRAWINGS

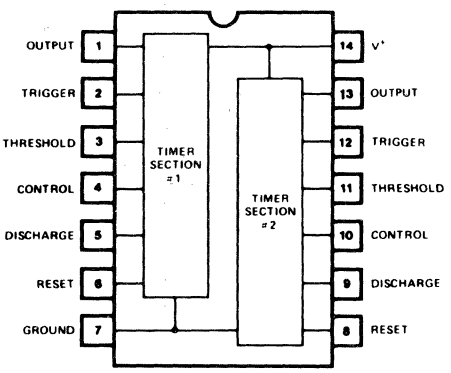
B08-200 D-Type Bus Flip-Flop



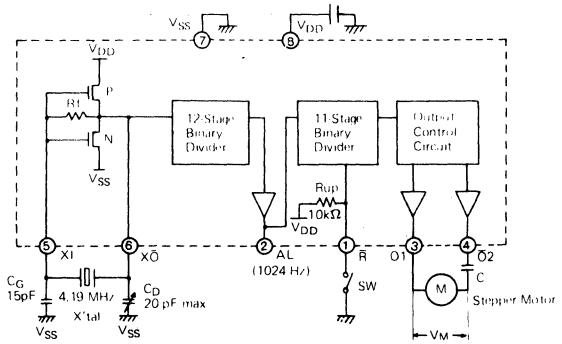
C01-21 Monolithic Timing Circuit



C01-25

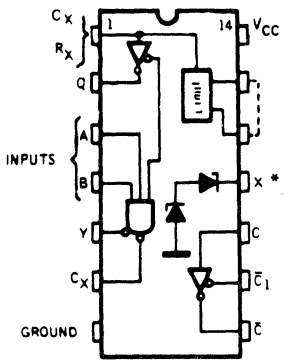


C01-27

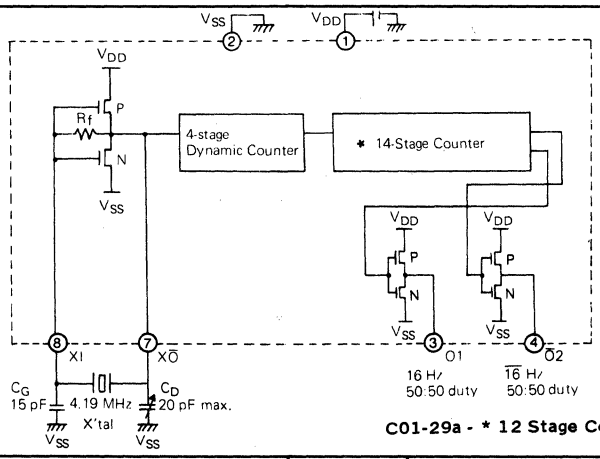


C01-14 One-Shot Multivibrator

* C01-14a = Pre-limiter connection

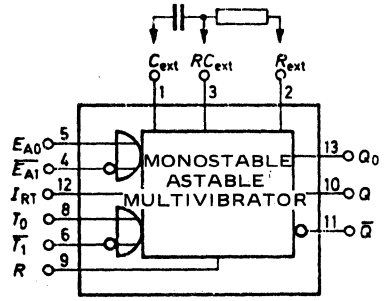


C01-29

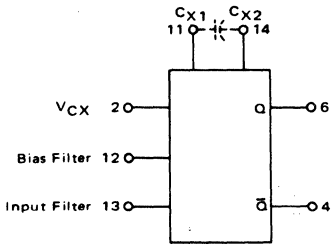


C01-29a - * 12 Stage Counter

C01-30

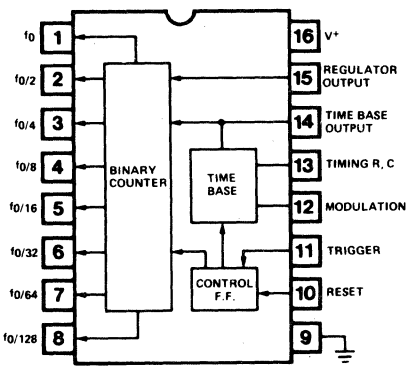


C01-16 Voltage-Controlled Multivibrator



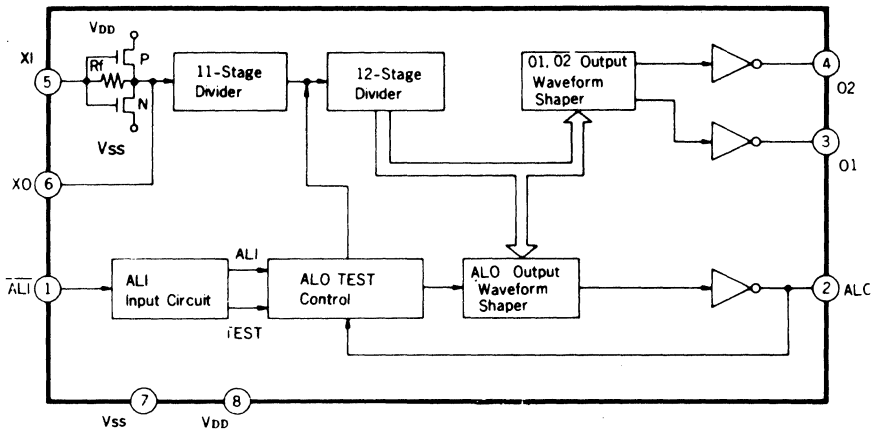
V_{CC1} = Pin 1
V_{CC2} = Pin 5
V_{EE} = Pin 8

C01-19 Programmable Timer/Counter

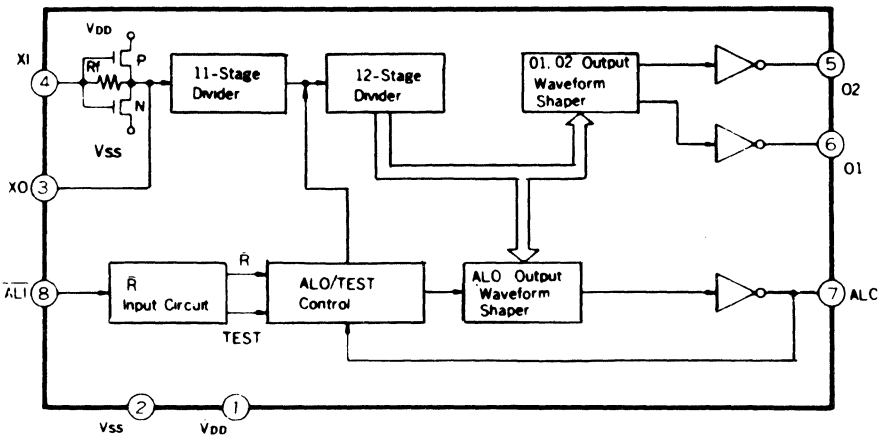


29. CIRCUIT DRAWINGS

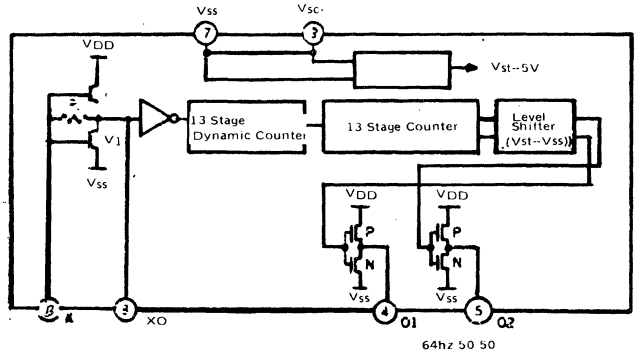
C01-32



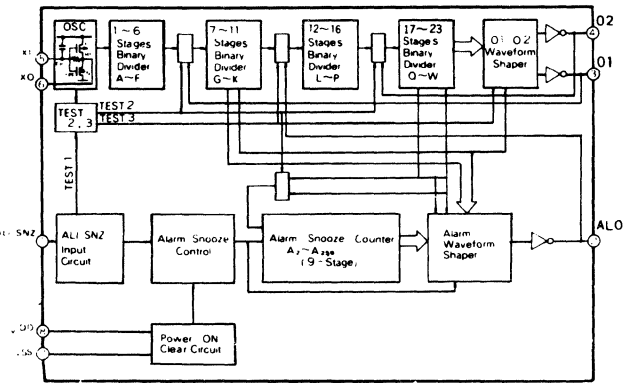
C01-34



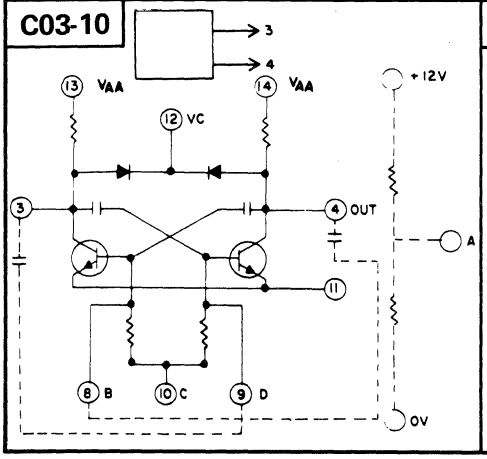
C01-35



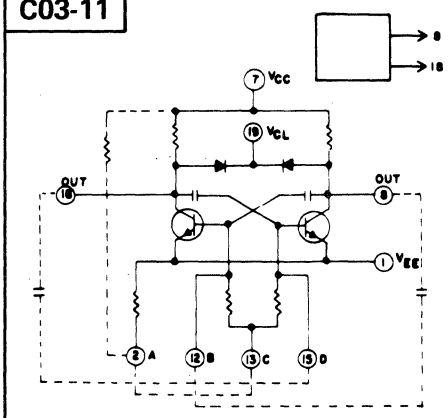
C01-36



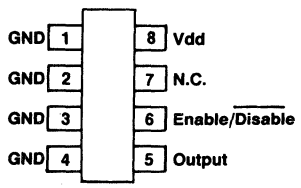
C03-10



C03-11

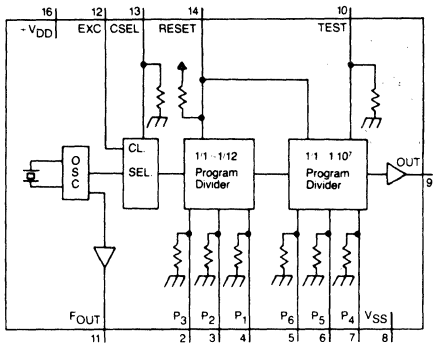


C04-58 Crystal Clock Oscillator

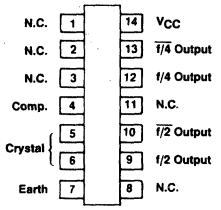


29. CIRCUIT DRAWINGS

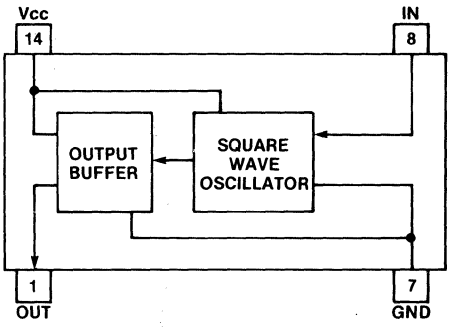
C04-54 Programmable Crystal Oscillator



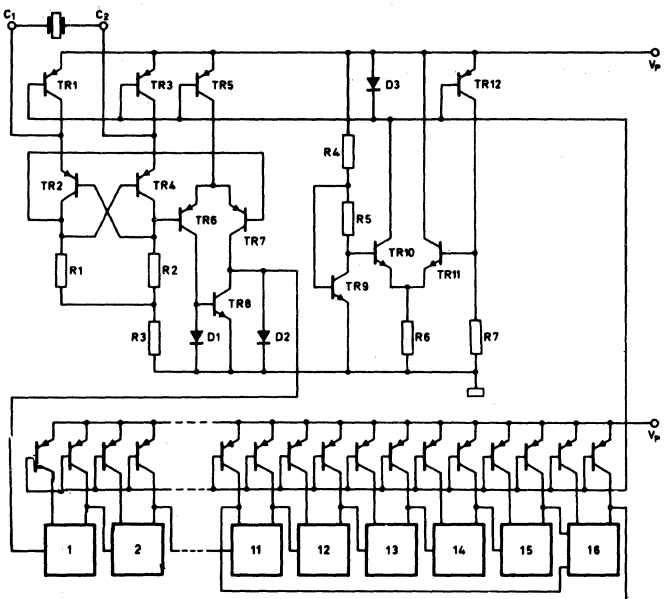
C04-38 Crystal Controlled IC Oscillator

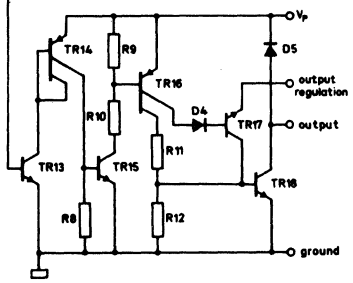


C01-40 Square Wave Oscillator



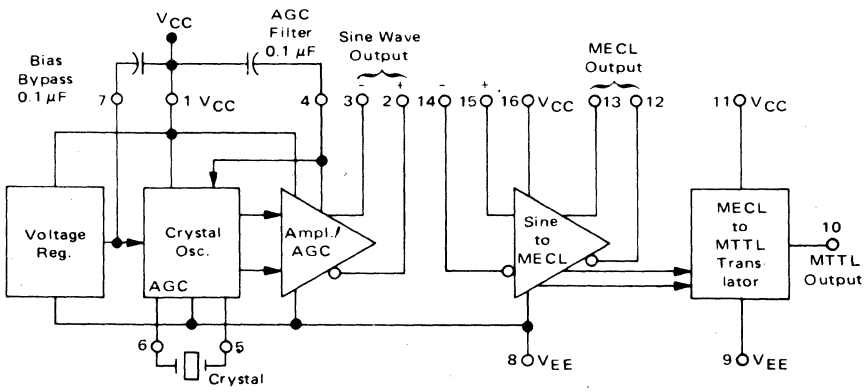
C04-35





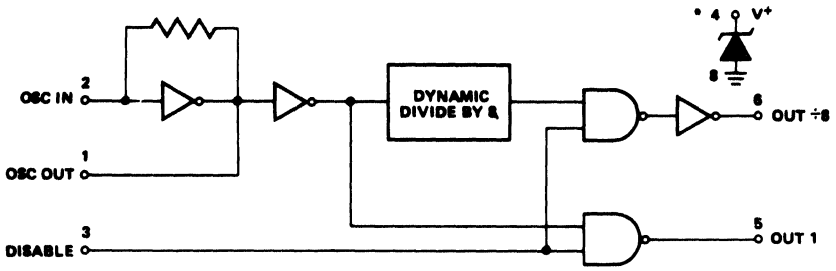
		C1	C2	OUT REG	OUT	GND	VP
C04-35	TO99	1	8	2	3	4	5
	DIL	7	8	1	2	3	4

C04-37

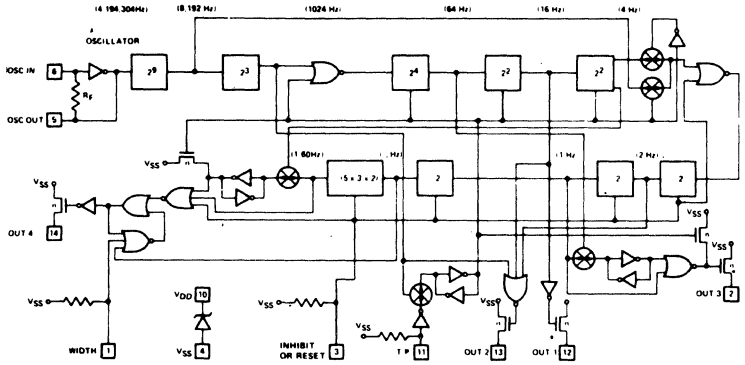


29. CIRCUIT DRAWINGS

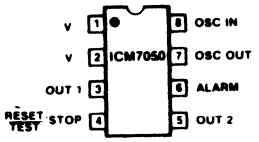
C04-46 Clock Generator

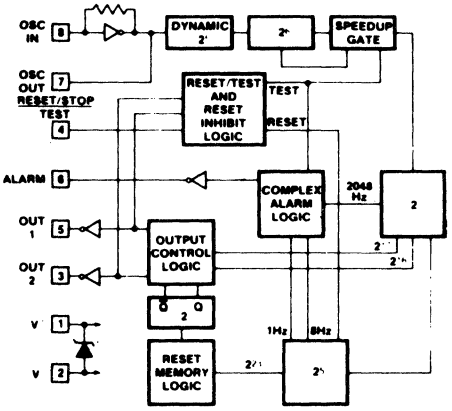


C04-47 One Second/One Minute Precision Clock and Reference Generator

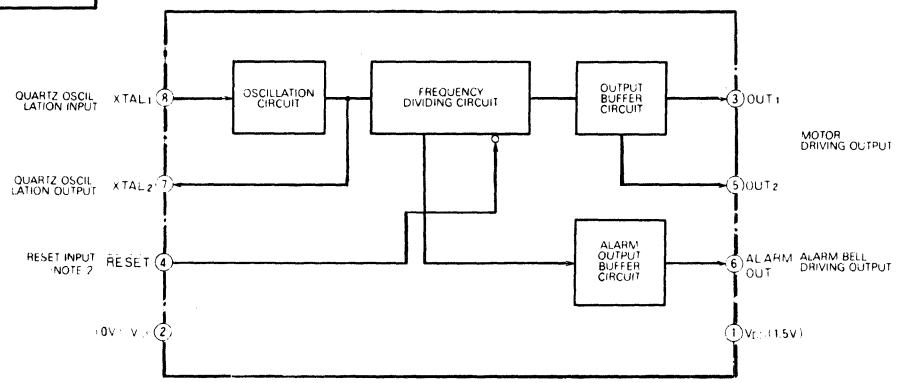


C04-48

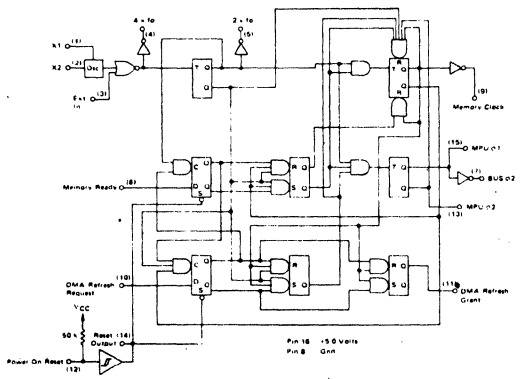




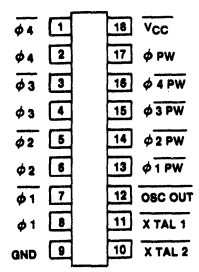
C04-49



C04-50 Two-Phase Clock Generator/ Driver

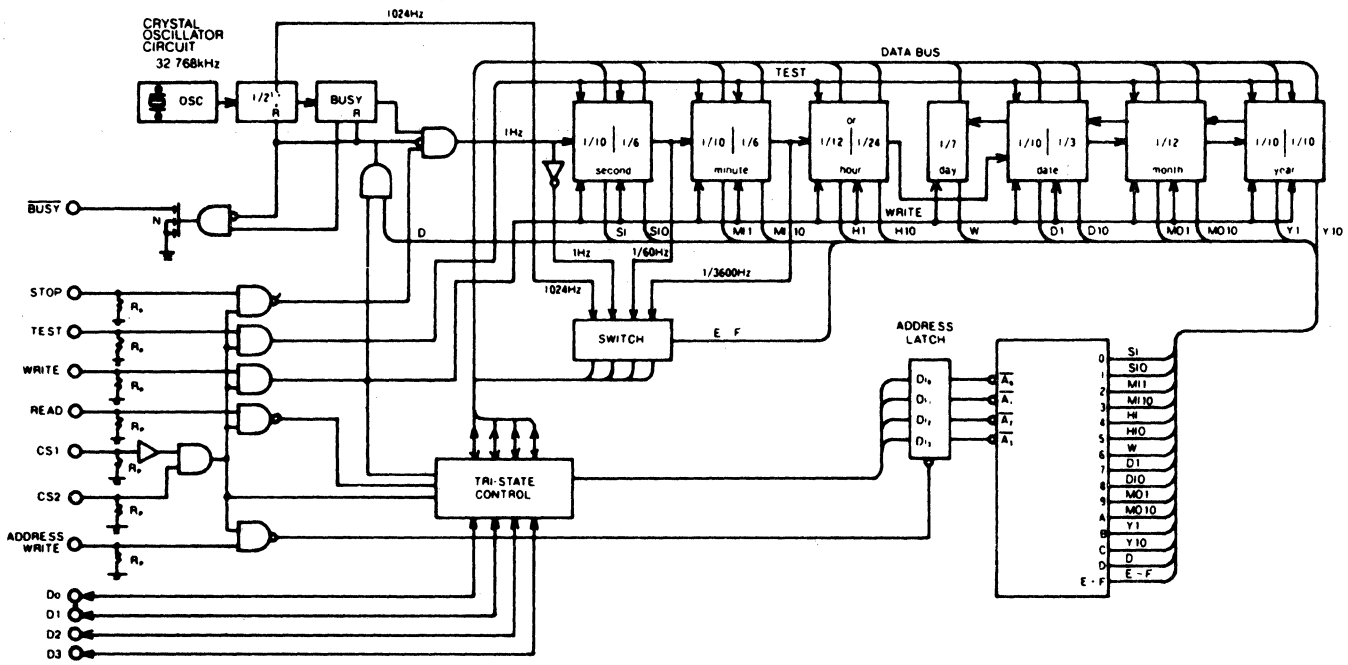


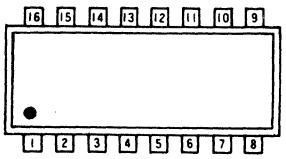
C04-51 4-Phase Clock Generator



29. CIRCUIT DRAWINGS

C04-62





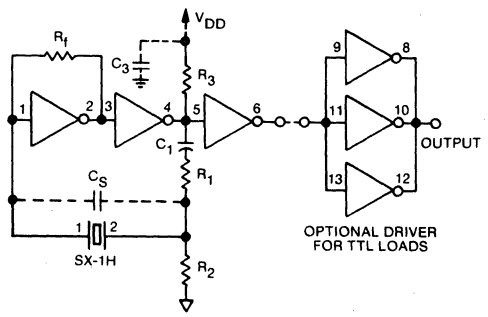
(Top View)

(Top View)

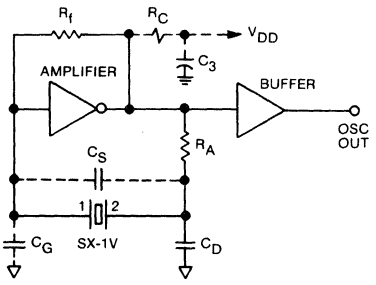
1. CS_2	16. V_{DD}
2. WRITE	15. NC
3. READ	14. NC
4. D_0	13. CS_1
5. D_1	12. TEST
6. D_2	11. STOP
7. D_3	10. $\overline{BUSY}$
8. V_{SS}	9. ADDRESS WRITE

NC: Do not connect externally.

C04-63 Series Oscillator

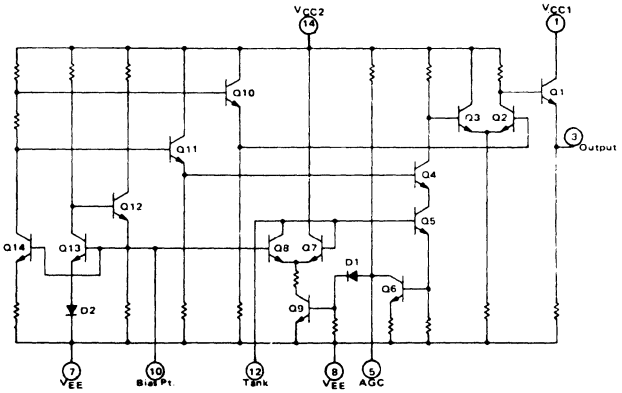


C04-64 Pierce Oscillator

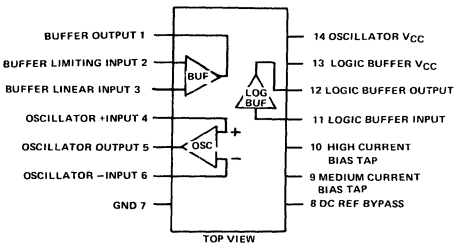


29. CIRCUIT DRAWINGS

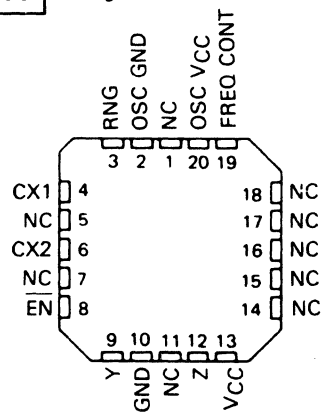
C06-12 Voltage-Controlled Oscillator



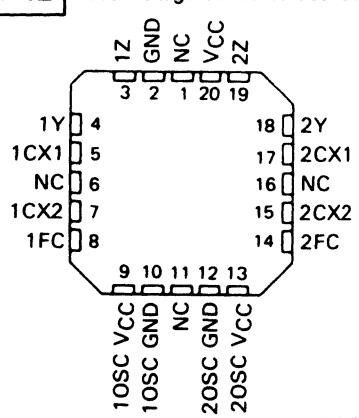
C06-13 Monolithic, Differential Pair, General Purpose Oscillator



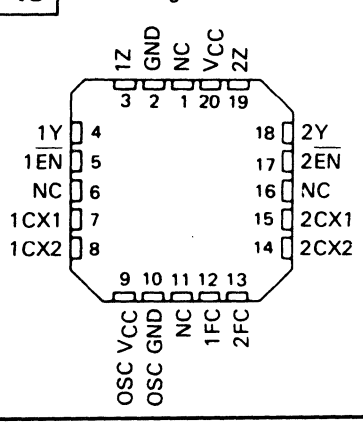
C07-11 Voltage-Controlled Oscillator



C07-12 Dual Voltage-Controlled Oscillator

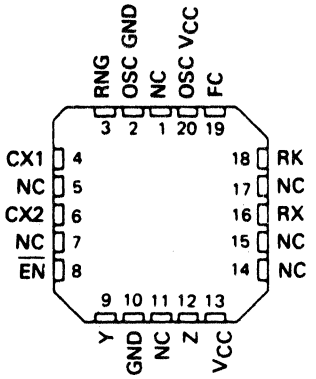


C07-13 Dual Voltage-Controlled Oscillator

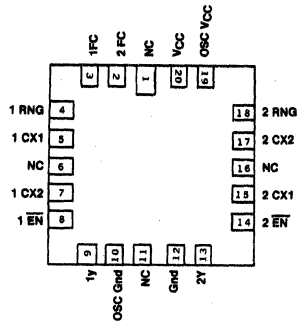


29. CIRCUIT DRAWINGS

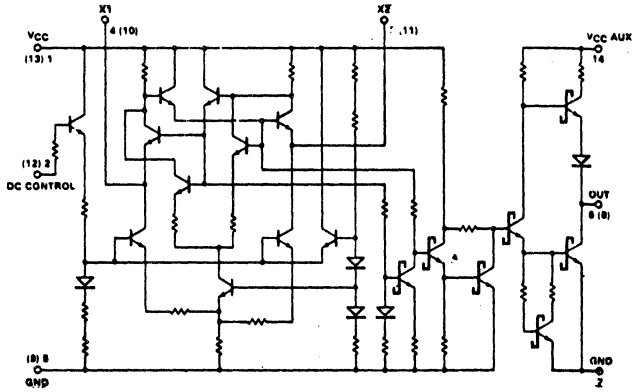
C07-15 Voltage-Controlled Oscillator



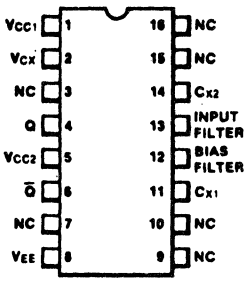
C07-10 Dual Voltage-Controlled Oscillator



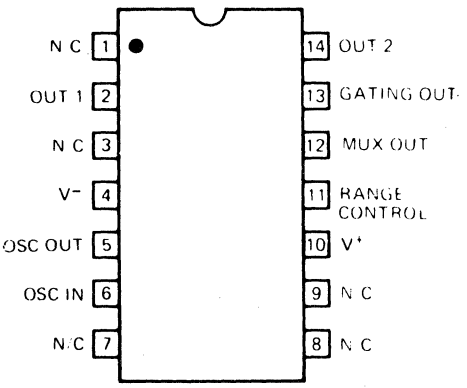
C07-06



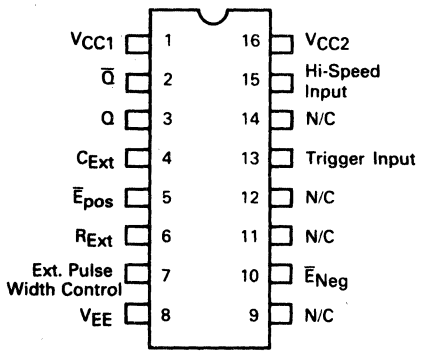
C07-07



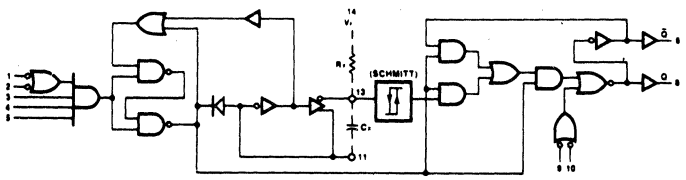
C07-08 Oscillator Controller



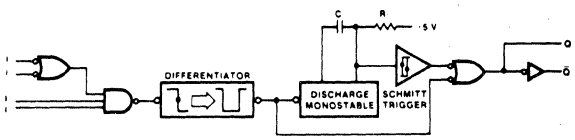
C08-22 Monostable Multivibrator



C08-01 Retriggerable Resettable Monostable Multivibrator

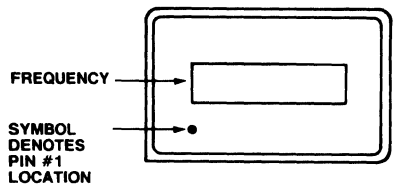


C08-02 Retriggerable Monostable Multivibrator



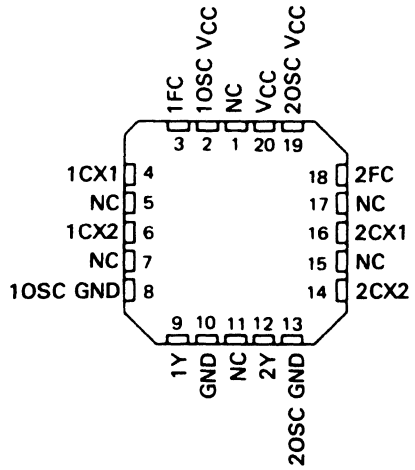
29. CIRCUIT DRAWINGS

C07-17 TTL Clock Oscillator

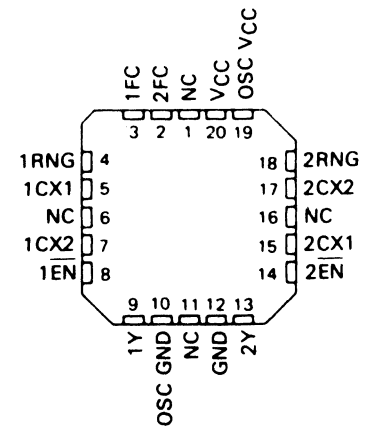


PIN	CONNECTION
1	N.C.
7	GND
8	OUTPUT
14	+V dc

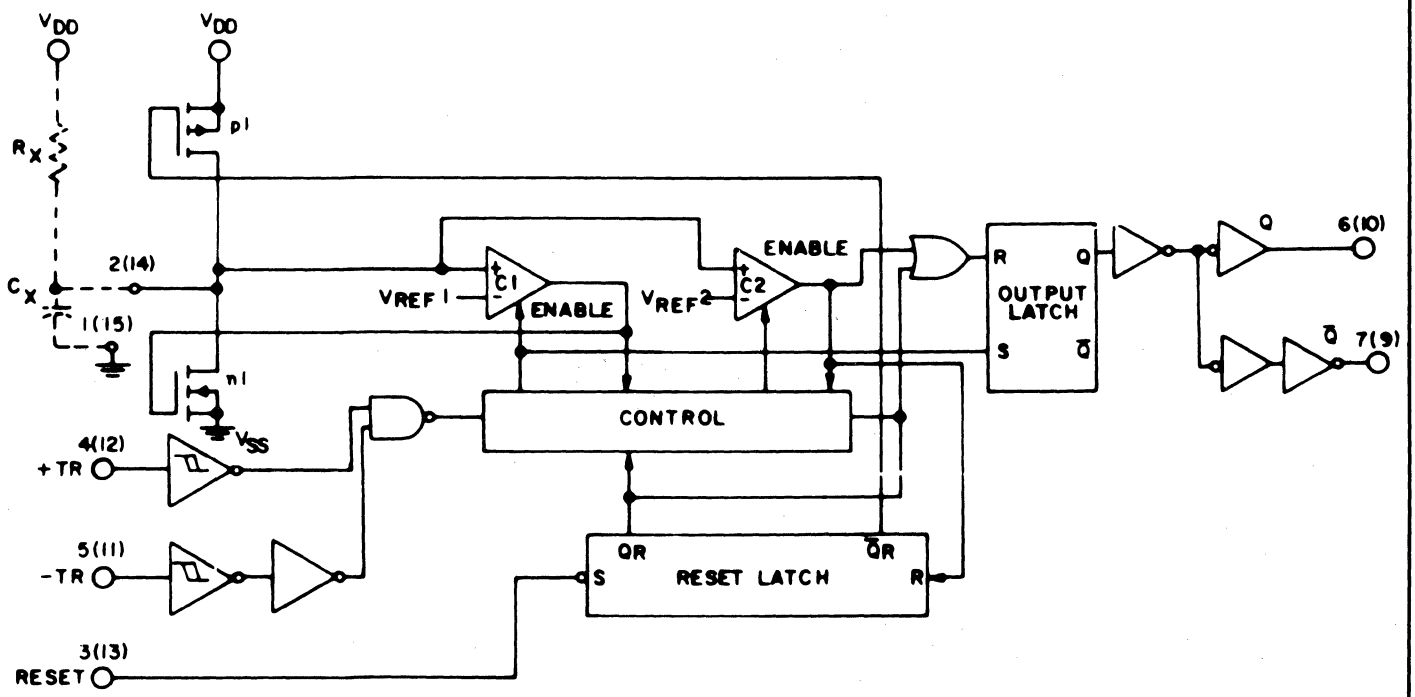
C07-14 Dual Voltage-Controlled Oscillator



C07-16 Dual Voltage-Controlled Oscillator

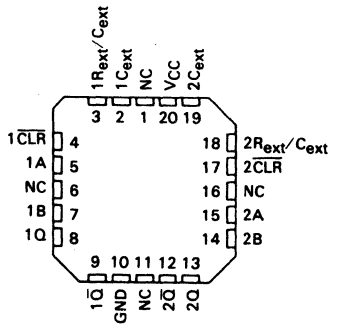


C08-11 Dual Monostable Multivibrator



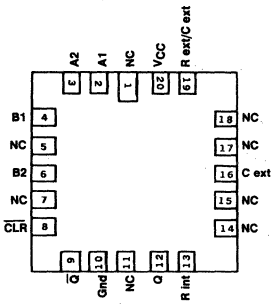
29. CIRCUIT DRAWINGS

C08-21 Dual Precision Retriggerable / Resettable Monostable Multivibrator

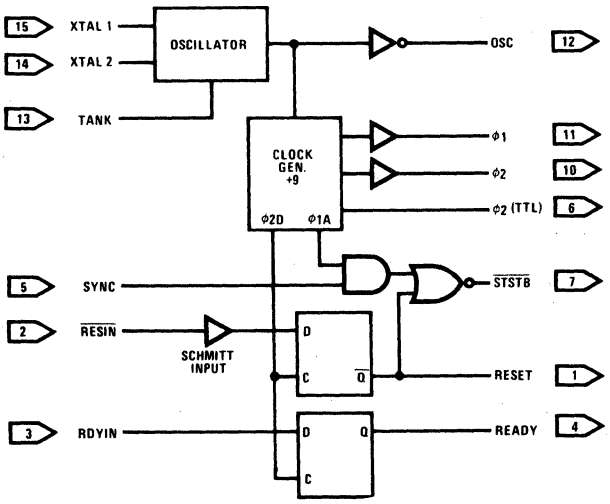


NC — No internal connection

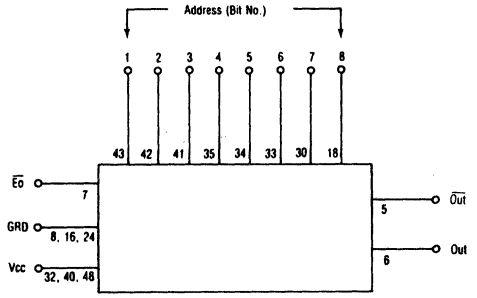
C08-23 Retrigerable Monostable Multivibrator with clear



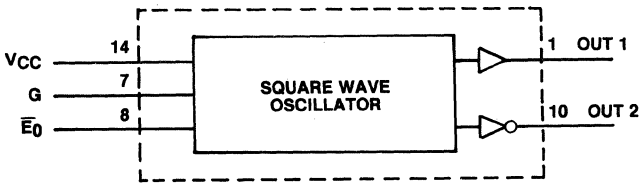
C08-17 Clock Generator and Driver



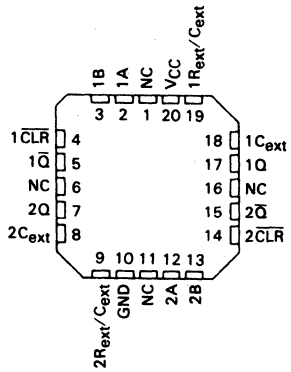
C04-56 8-Bit Program Oscillator



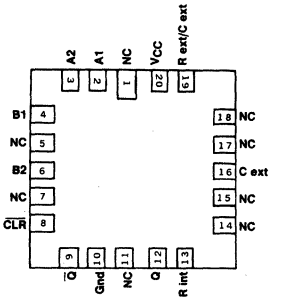
C01-41 Gated-Delay Line Oscillator



C08-18 Retriggerable Monostable Multivibrator

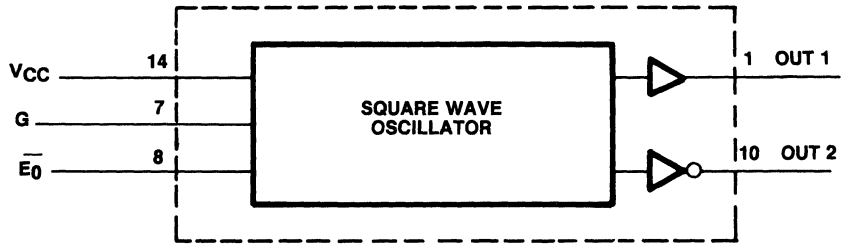


C08-24 Retrigerable Monostable Multivibrator

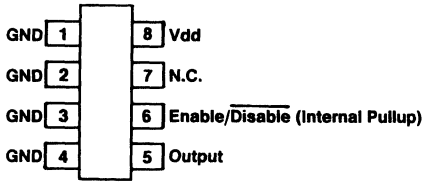


29. CIRCUIT DRAWINGS

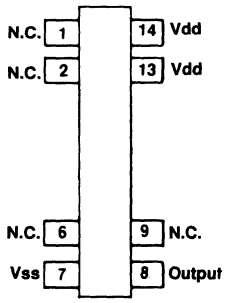
C04-55 Gated Delay-Line Oscillator



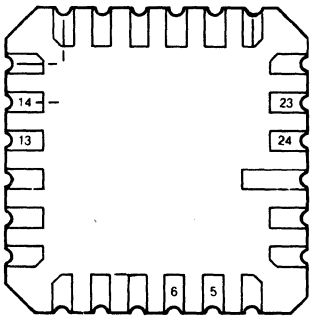
C04-57 Crystal Clock Oscillator



C04-59 Crystal Clock Oscillator



C04-60 Crystal Oscillator

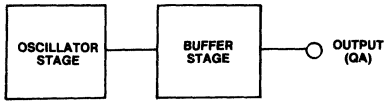


PIN CONNECTIONS:

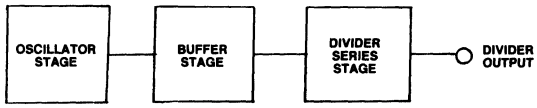
23,24	Ground
5,6	V_{DD}
13,14	Output
All Others	NC

NC: not connected

C04-61 C04-61a Crystal Oscillator



C0461



C0461a

STANDARD PIN CONNECTIONS

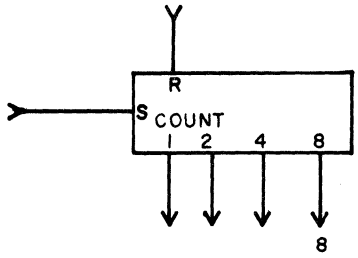
PIN	FUNCTION FOR FREQUENCY		
	1-7 MHz	7-14 MHz	14-30 MHz
1			OUTPUT
4	+5VDC	+5 VDC	+5 VDC
5	NC	NC	NC
10	+5VDC	+5 VDC	+5 VDC
15	NC	NC	NC
25	NC	NC	NC
31	GND	GND	GND
35	NC	NC	NC
37	GND	GND	GND
39	OUTPUT	NC	NC
40		OUTPUT	NC

NOTES:

1. NC — Internally connected. No external electrical connections.
2. All other pins may have external electrical connections. These pins may also be used as optional connections. Consult factory for possible pin connections options.

29. CIRCUIT DRAWINGS

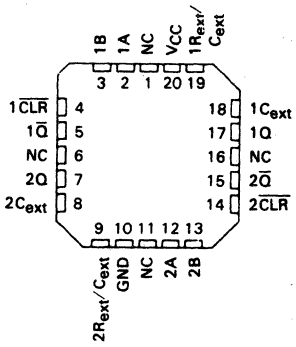
E01-10



PKG.	S	R	1	2	4	8	COM	V_{CC}
CN	5	6	3	2	1	8	4	7
FP	9	12	5	4	3	2	7	14

C08-19

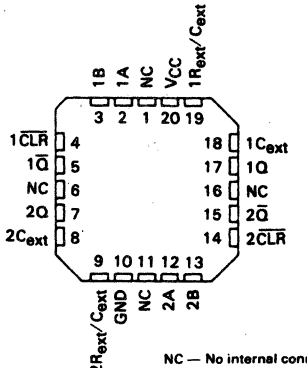
Dual Monostable Multivibrators with Schmitt Trigger Inputs



NC — No internal connection

C08-20

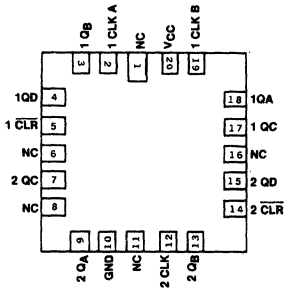
Dual Retriggerable Monostable Multivibrator



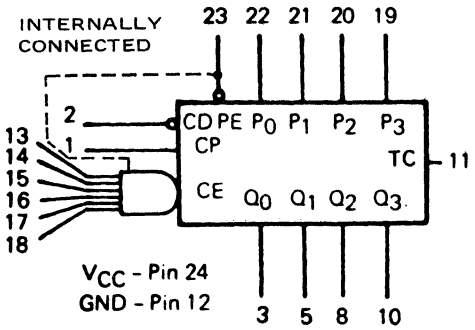
NC — No internal connection

E01-184

Dual 4-Bit Binary Counter

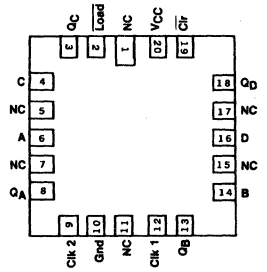


E01-46



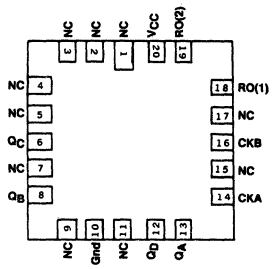
E01-185

Presettable Binary Counter/Latch



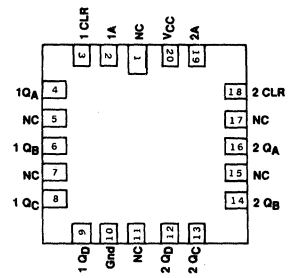
E01-186

4-Bit Binary Counter



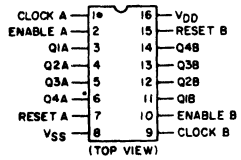
E01-187

Dual 4-Bit Binary Counter



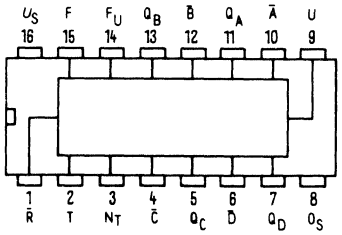
29. CIRCUIT DRAWINGS

E01-98 Dual BCD Up Counter

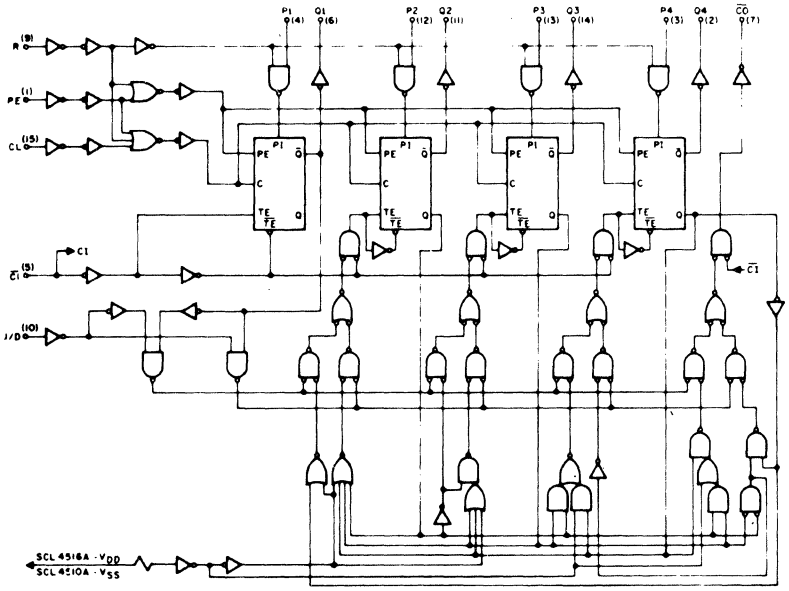


E01-98a: Dual Binary Up Counter

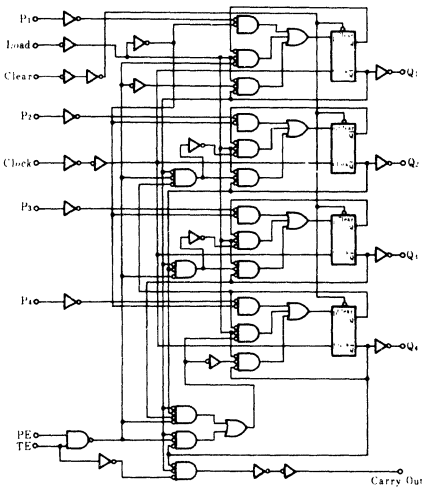
E01-103 Synchronous Counter



E01-99 Presettable Up/Down Decade Counter

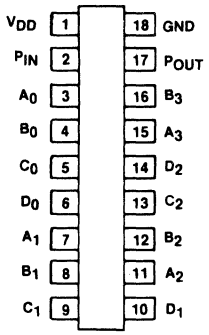


E01-163 Decade Counter with Asynchronous Clear

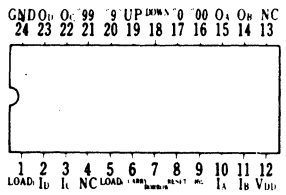


E01-163a: Synchronous Clear

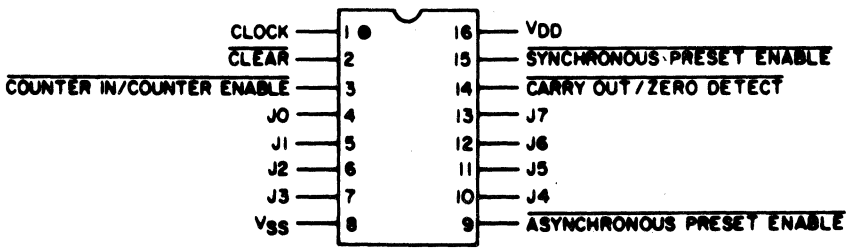
E01-173 BCD Programmable Counter



E01-106 Presettable Up/Down Decade Counter

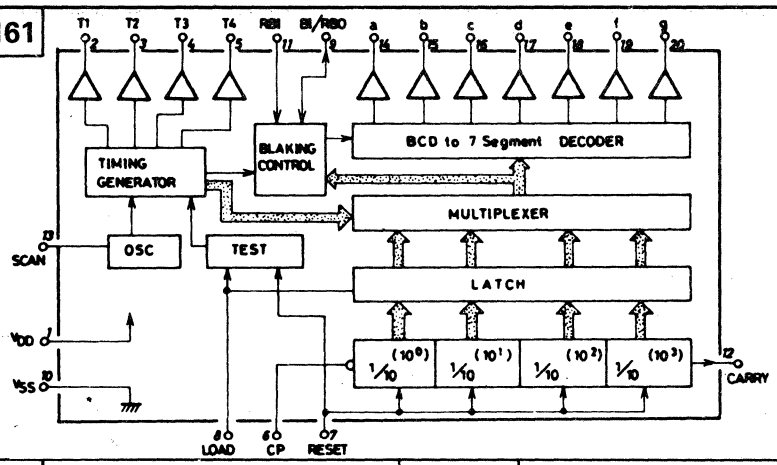


E01-116 8-Stage Presettable Synchronous Down Counter

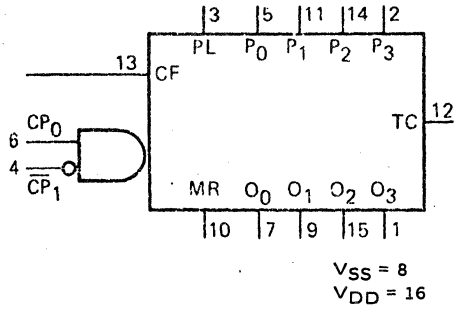


29. CIRCUIT DRAWINGS

E01-161



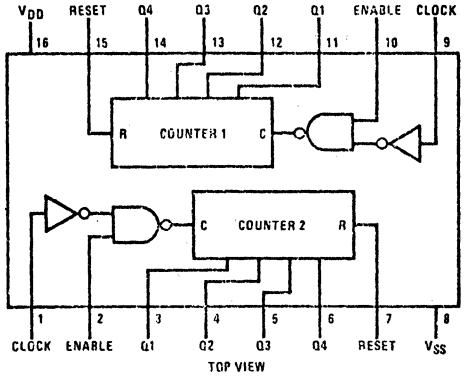
E01-128



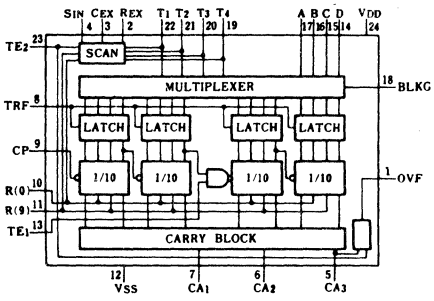
E01-136

Dual BCD Counter

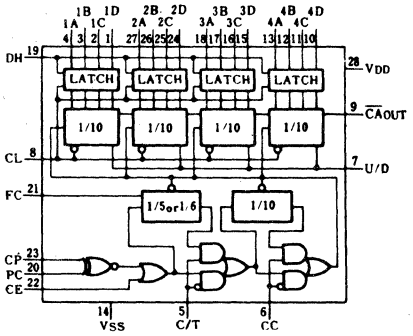
E01-136a: Dual 4-Bit Binary Counter



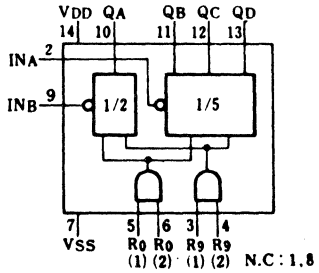
E01-139



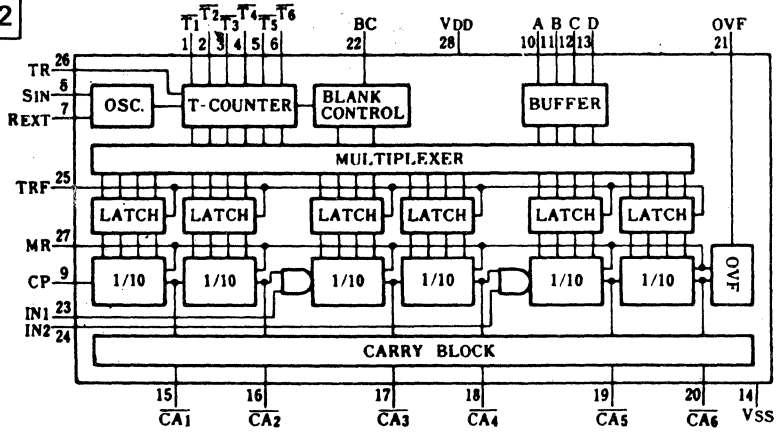
E01-140



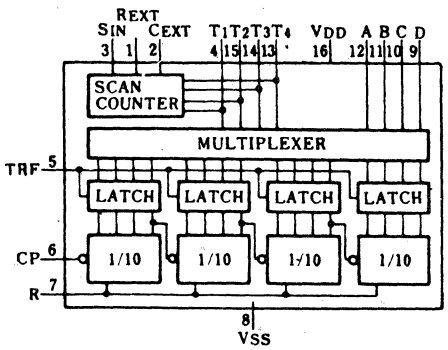
E01-141



E01-142

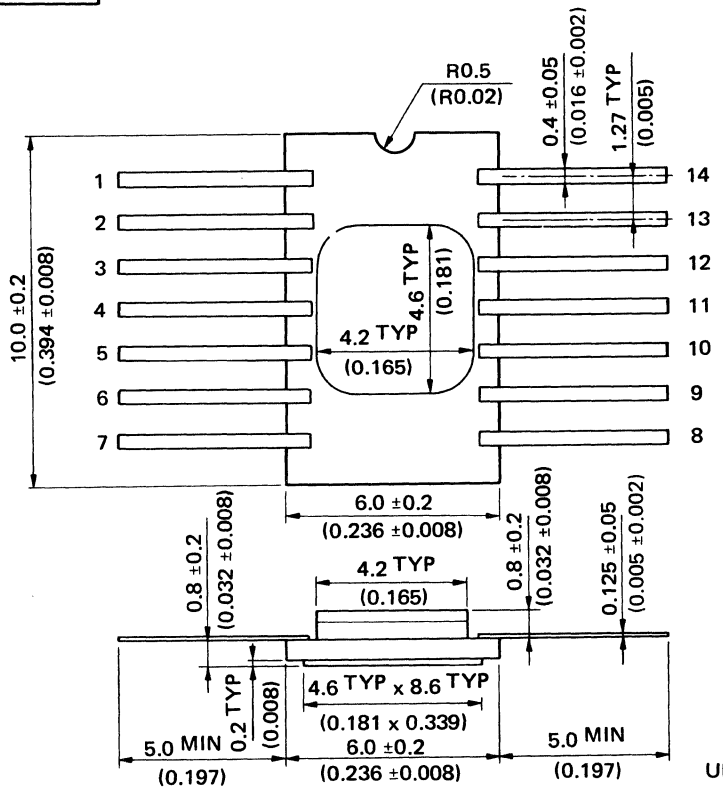


E01-143



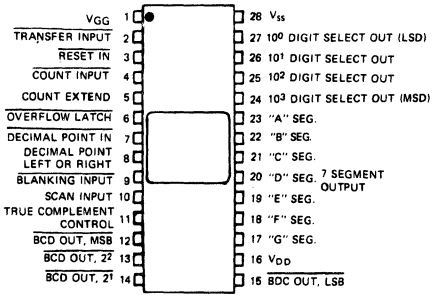
29. CIRCUIT DRAWINGS

H03-108

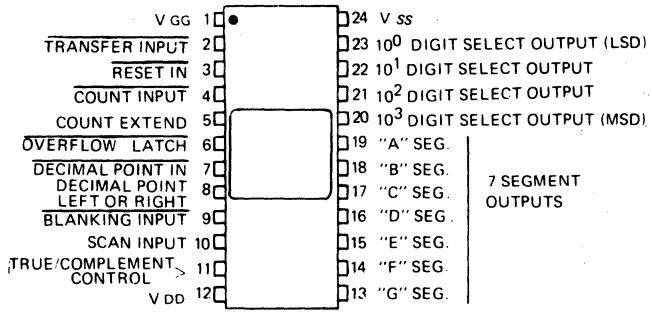


Lead No.	Symbol	Function
1	NC	No Connection
2	CK	RF Input
3	CK	RF Input
4	NC	No Connection
5	REF	Reference Input
6	REF	Reference Input
7	$-V_{SS}$	Supply Voltage
8	NC	No Connection
9	NC	No Connection
10	Q	Output
11	NC	No Conneciton
12	$\overline{Q}$	Output
13	NC	No Connection
14	$+V_{DD}$	Supply Voltage

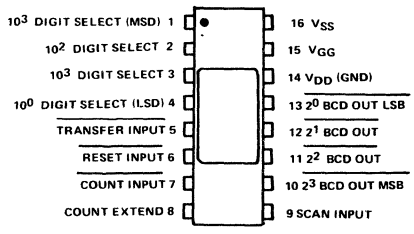
E01-151



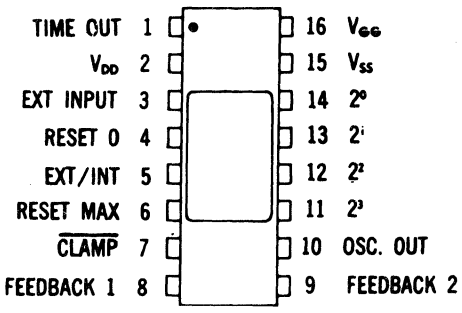
E01-152



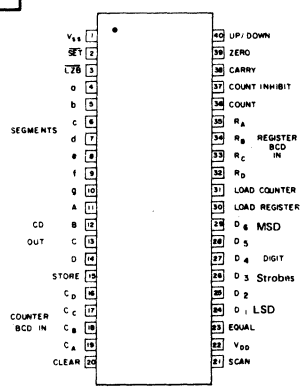
E01-153



E01-154

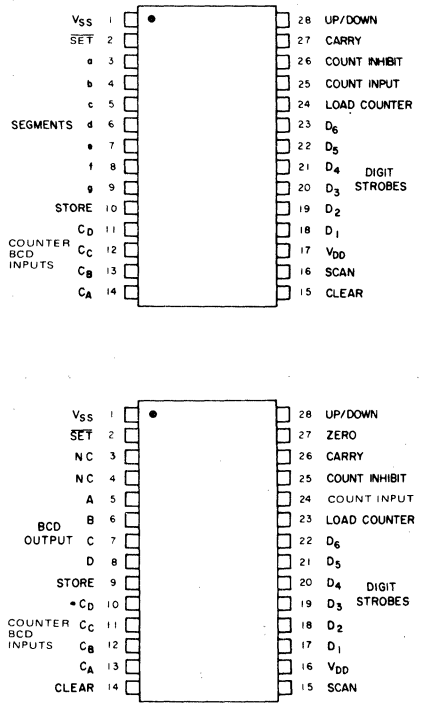


E01-155



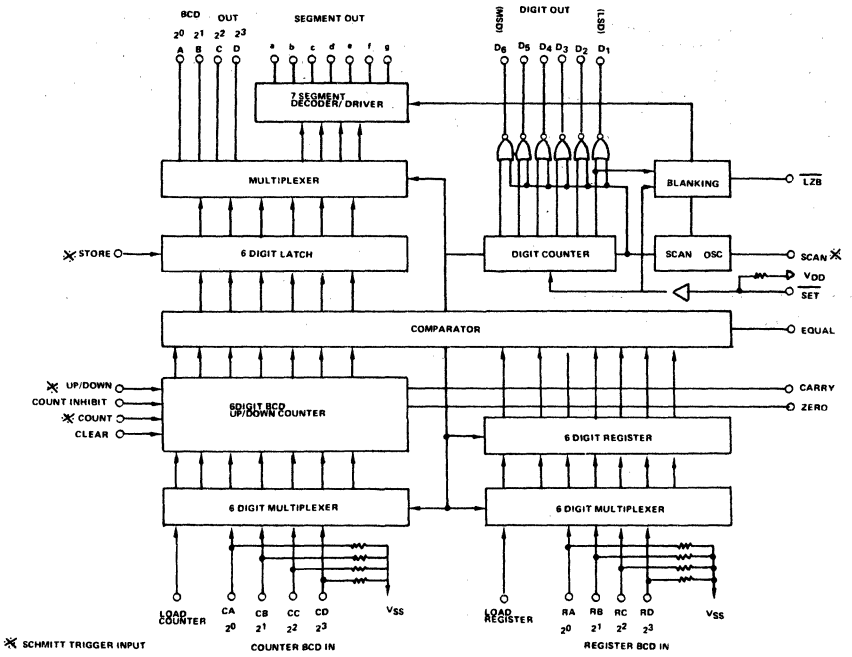
29. CIRCUIT DRAWINGS

E01-156

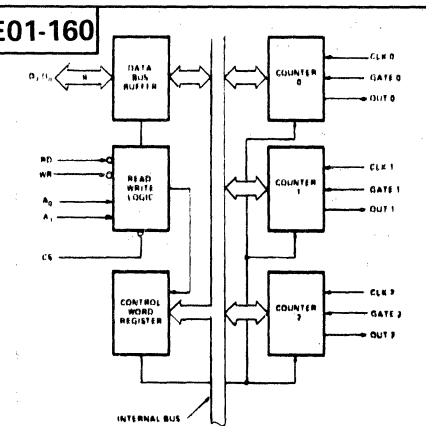


E01-158

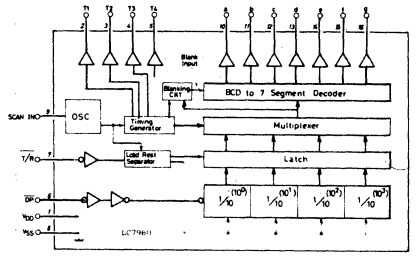
6 Digit Universal Counter



E01-160



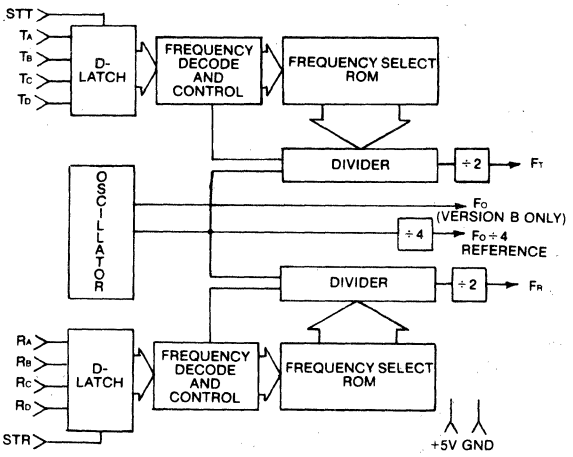
E01-162



H01-56

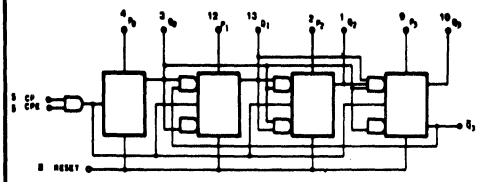
Dual Baud Rate Generator

PIN	CONNECTION
1	NC version A version C
	FO version B
2	VCC
3	FR
4-7	RA, RB, RC, RD
8	STR
9	NC
10	FO ÷ 4
11	Gnd/Case Gnd
12	STT
13-16	TD, TC, TB, TA
17	FT
18	NC

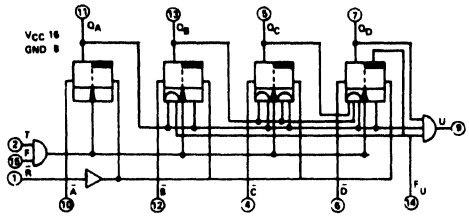


29. CIRCUIT DRAWINGS

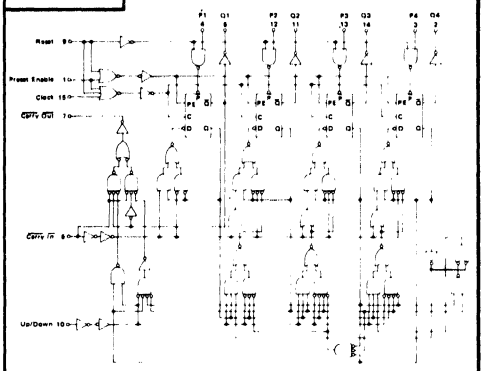
E01-67 Synchronous BCD Counter



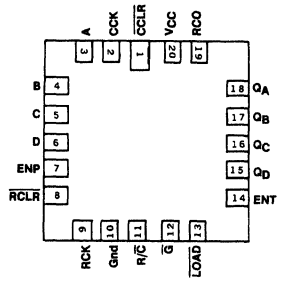
E01-69 Synchronous Counter

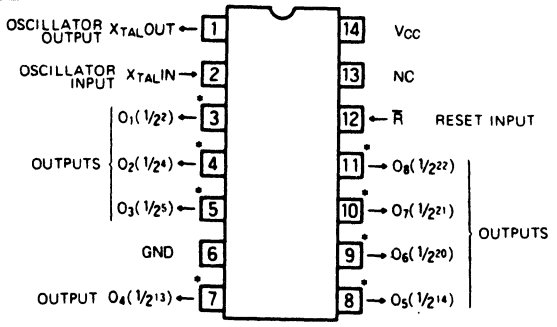


E01-73 BCD Up/Down Counter



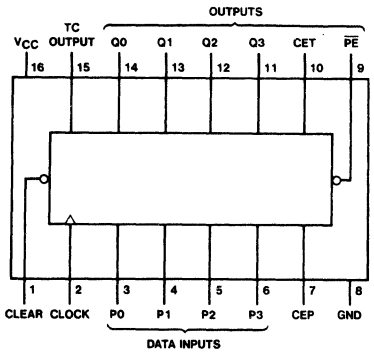
E01-188 Binary Counter with Output Registers



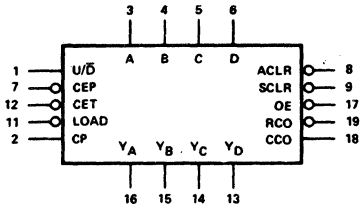


NC : NO CONNECTION
• : OPEN COLLECTOR OUTPUT

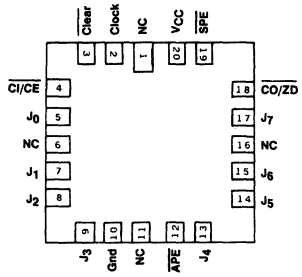
E01-79 Presettable Decade Counter
E01-79a Presettable Binary Counter



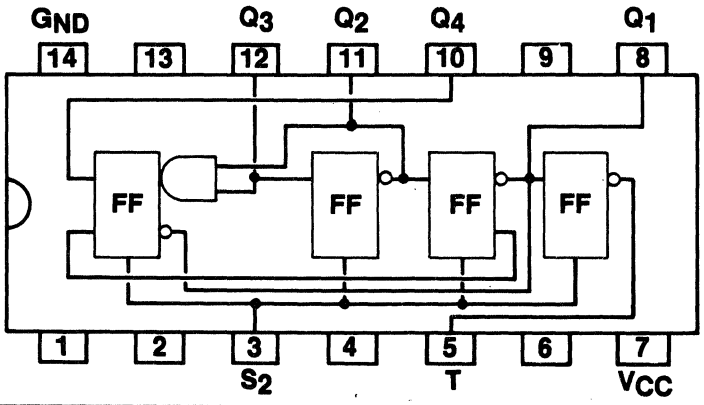
E01-182 4-Bit Up/Down Counter w/3-State Output



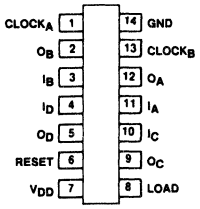
E01-183 8-Stage Presettable Synchronous Down Counter



E02-69 Decade Counter

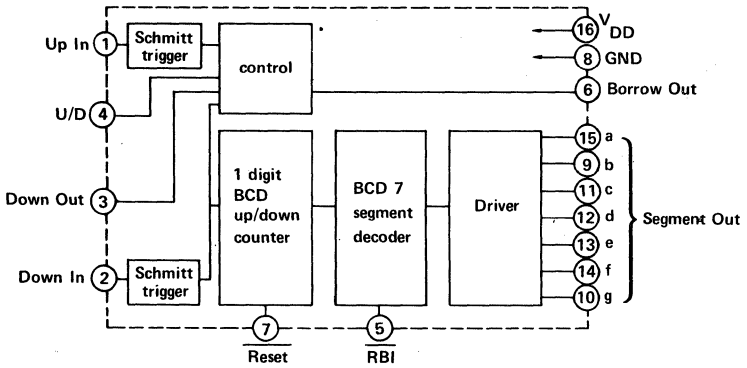


E02-204 Presettable 4-Stage Binary Counter

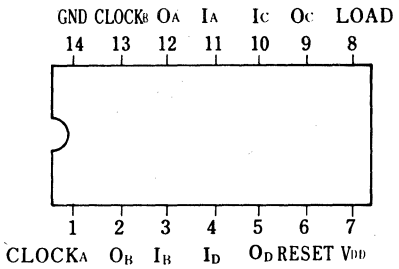


29. CIRCUIT DRAWINGS

E01-168 4 Digit BCD Up/Down Counter



E01-170 Presettable Divide-by-12 Counter

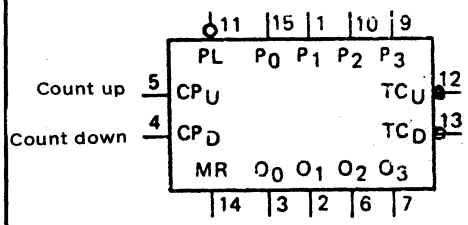


E02-158 Buffered carry out

Buffered borrow out

Data in

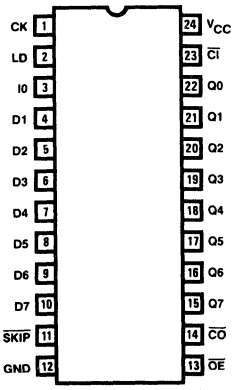
Load



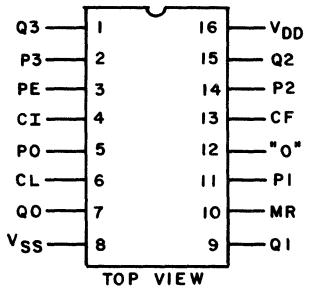
Asynchronous reset

outputs

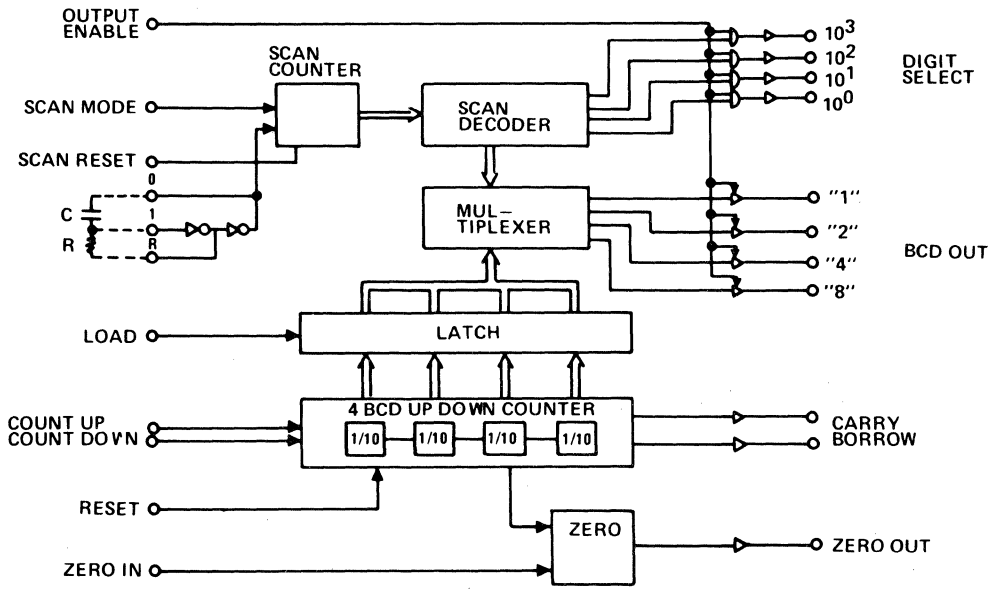
E01-190 Increment and Skip Counter



E03-110 Programmable BCD Divide-by-N Counter



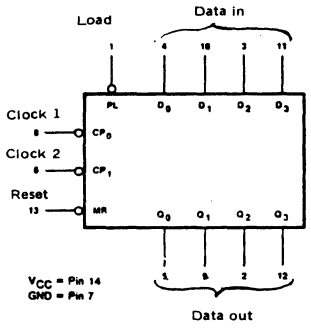
E01-169 Presettable BCD Decade Counter



29. CIRCUIT DRAWINGS

E02-48

E02-48: Reset is synchronous
E02-48a: Presettable 4-Bit Binary Counter/Latch (Asynchronous Reset)
E02-48b: Presettable Decade Counter/Latch (Asynchronous Reset)



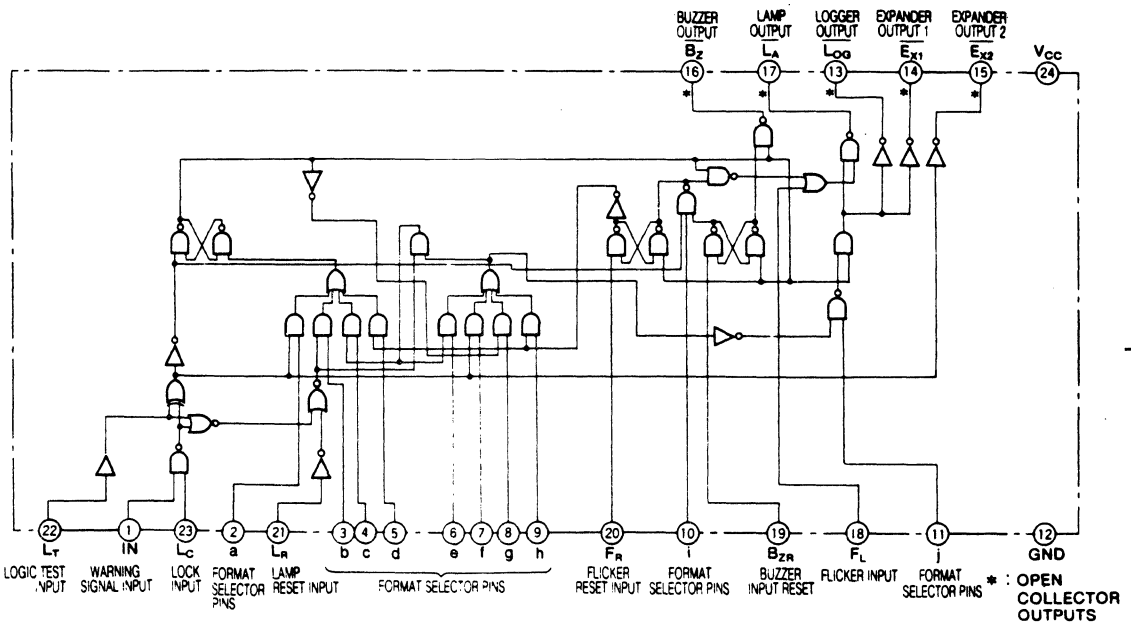
E02-48b

PKG	C1	C2	R	S	D 0	D 1	D 2	D 3	Q 0	Q 1	Q 2	Q 3	VCC	GND
FP	12	10	3	5	8	14	7	1	9	13	6	2	4	11
M	8	6	13	1	4	10	3	11	5	9	2	12	14	7

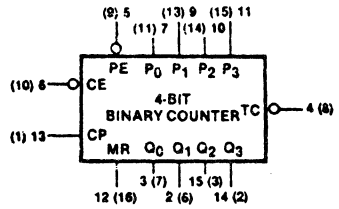
	PKG	A0	B0	C0	D0	C1	C2	STROBE	RESET	DA	DB	DC	DD	VCC	GND
E02-48	MP	5	9	2	12	8	6	1	13	4	10	3	11	14	7
	FP	9	13	6	2	12	10	5	3	8	14	7	1	4	11

K02-49

Annunciator



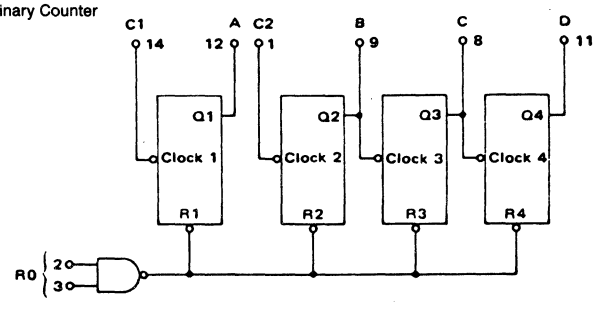
E02-173



V_{CC1} = 1 (5)
V_{CC2} = 16 (4)
V_{EE} = 8 (12)
( ) = Flatpak

E02-53

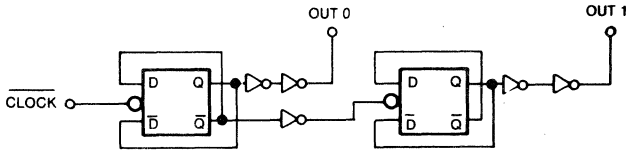
4-Bit Binary Counter



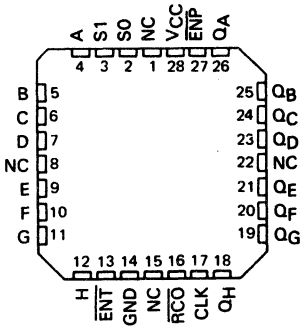
	C1	A	C2	B	C	D	R0 1	R0 2	VCC	GND
E02-53	14	12	1	9	8	11	2	3	5	10
E02-53a	14	13	8	9	10	12	1	2	4	11

29. CIRCUIT DRAWINGS

E02-250 2 Stage Ripple Counter

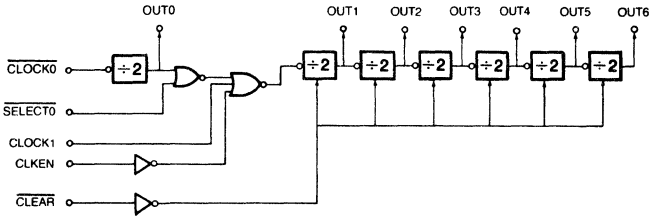


E02-229 Synchronous 8-Bit Up/Down Counter

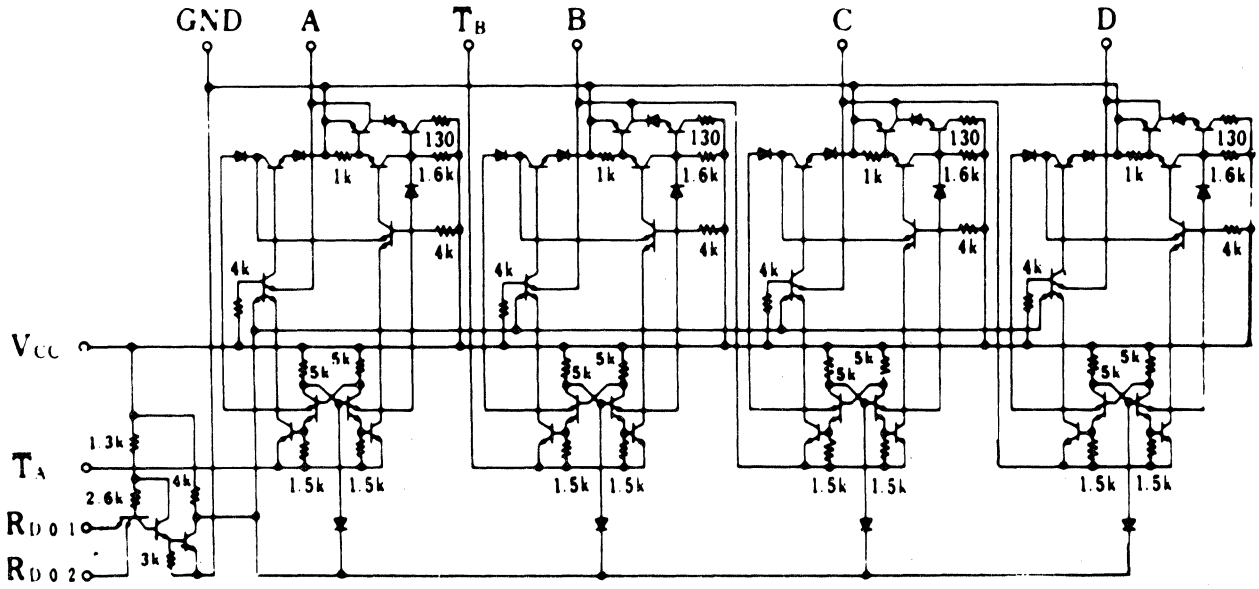


NC – No internal connection

E02-251 7 Stage Ripple Counter



E02-46

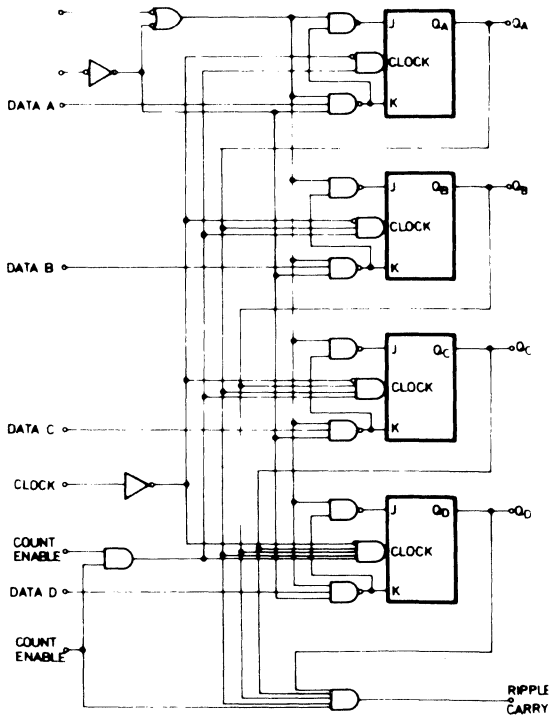


DWG NO	CKT NO	$\overline{T}_A$	$\overline{T}_B$	$R_{D(0)1}$	$R_{D(0)2}$	A	B	C	D	VCC	COM
E0246	1	8	9	10	11	6	4	3	5	14	7
E0246a	1	14	1	2	3	12	9	8	11	5	10
E0246b	1	14	1	6	7	12	11	9	8	5	10

E02-46a: 4-Bit Binary Counter
E02-46b: Divide-by-12 Counter

29. CIRCUIT DRAWINGS

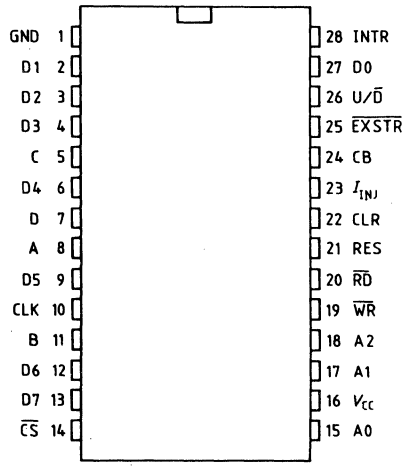
E02-71



E02-71a Load Clear Synchronous
E02-71b: Same as E02-71a Except As Synchronous

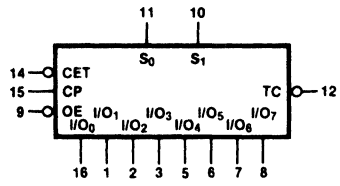
E02-223

Universal Programmable Dual Counter with 32 bit Latch



E02-228

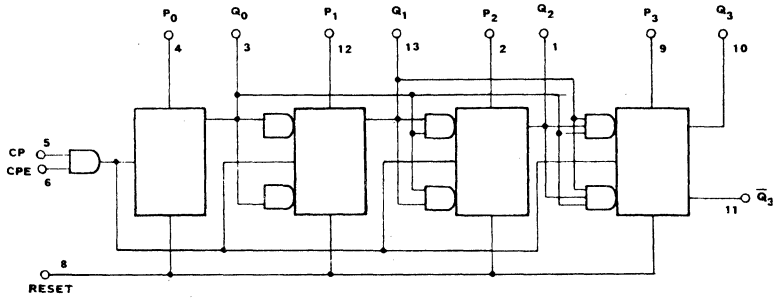
8-Bit Bidirectional Counter (3-State)



V_{CC} = Pin 13
GND = Pin 4

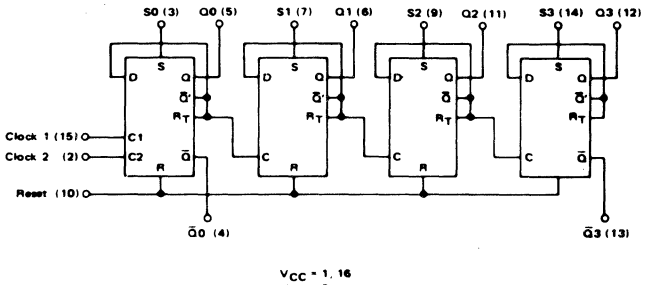
E02-83

Synchronous Binary Counter



E02-88

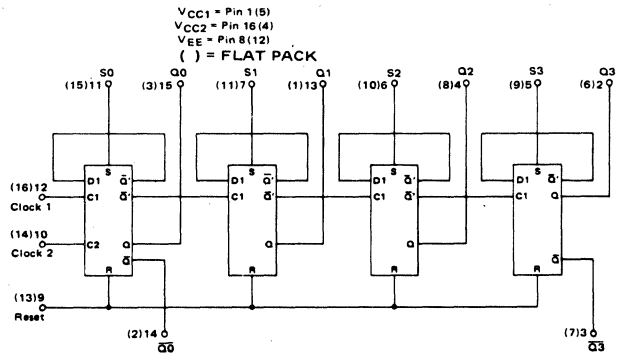
4-Bit Binary Counter



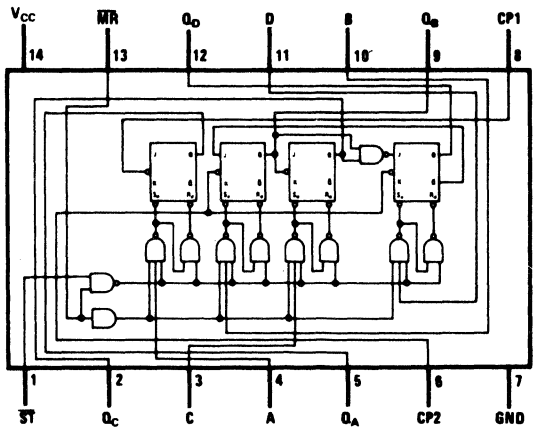
V_{CC} = 1, 16
V_{EE} = 8

29. CIRCUIT DRAWINGS

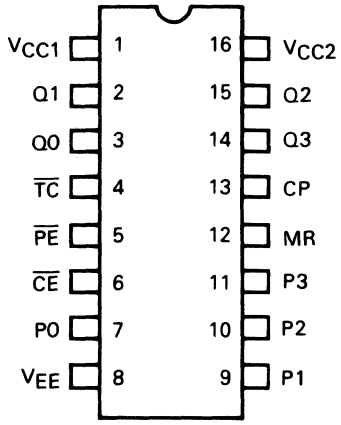
E02-104 4-Bit Binary Counter



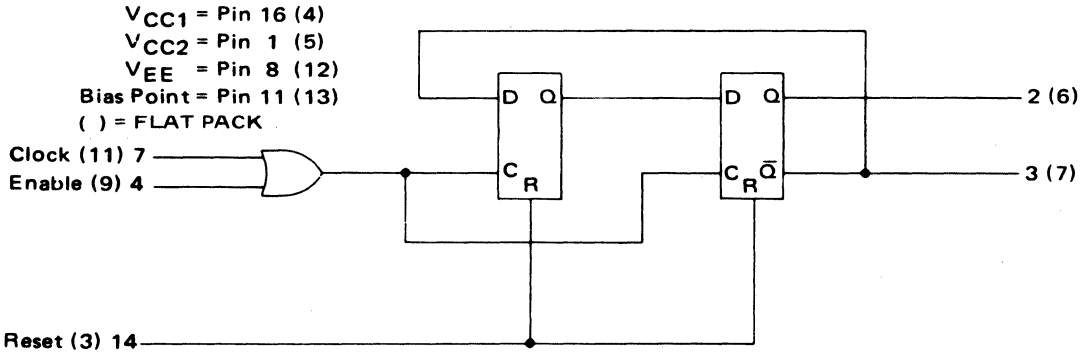
E02-110



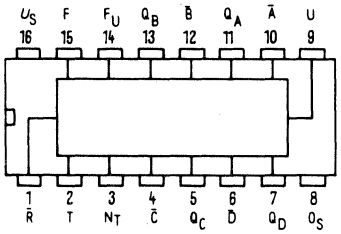
E02-210 4-Bit Binary Counter



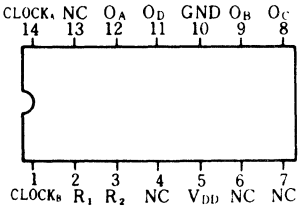
E02-116 Divide-by-Four Gigahertz Counter



E02-122 Synchronous Counter

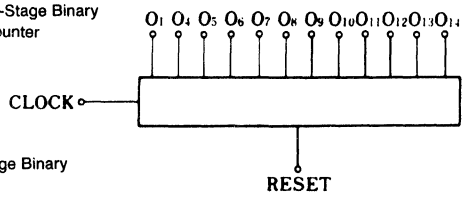


E02-123

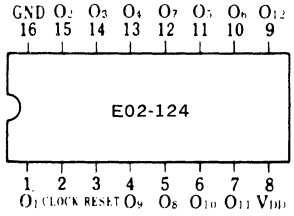


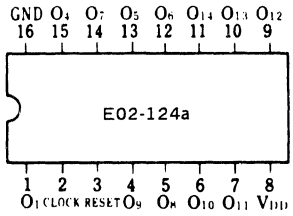
29. CIRCUIT DRAWINGS

E02-124 12-Stage Binary Counter

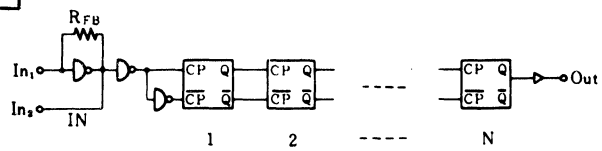


E02-124a: 14-Stage Binary Counter

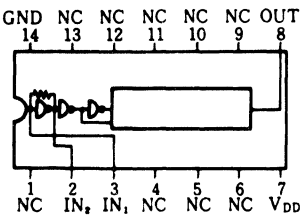




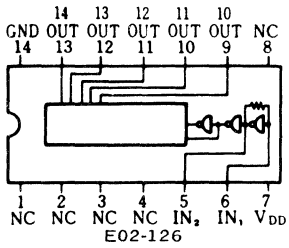
E02-125

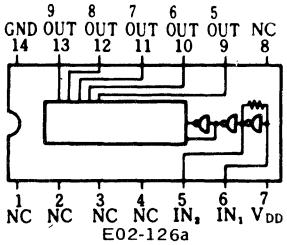


E02-125	N=10
E02-125a	N=11
E02-125b	N=12
E02-125c	N=13
E02-125d	N=14



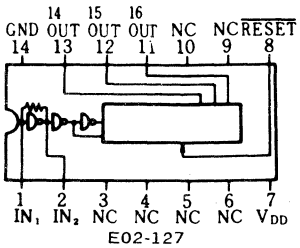
E02-126 10,11,12,13,14 Stage Binary Counter

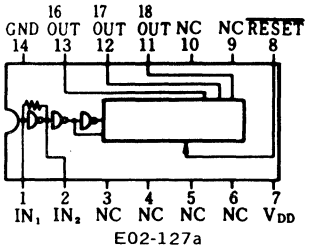




E02-126a: 5,6,7,8,9 Stage Binary Counter

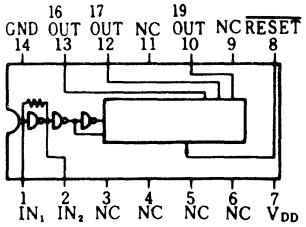
E02-127 14,15,16 Stage Binary Counter





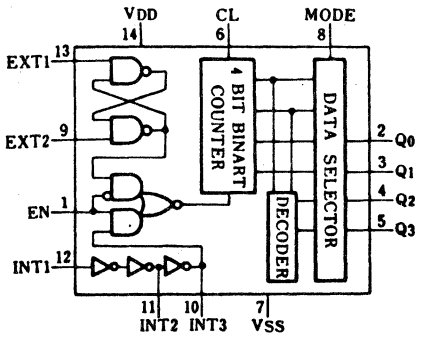
E02-127a: 16,17,18 Stage Binary Counter

E02-128 16,17,19 Stage Binary Counter

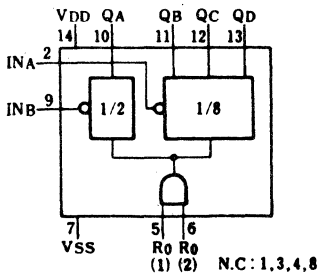


29. CIRCUIT DRAWINGS

E02-185

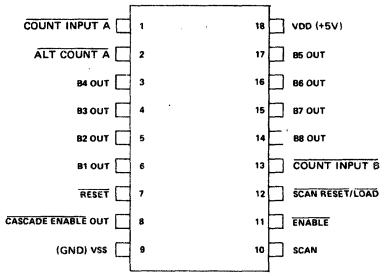


E02-186

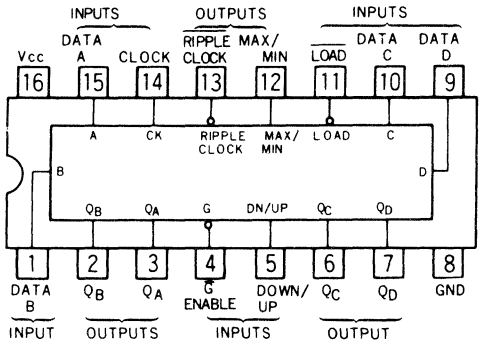


E02-202

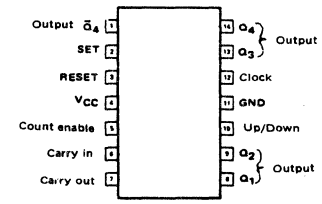
32 Bit Binary Up Counter with 32 Bit Latch



E02-187



E02-51

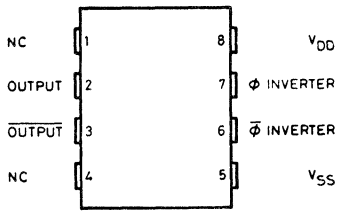


NOTE: E02-51 Binary counter (Presets to 15)
E02-51a BCD counter (Presets to 9)

	PKG	CE	C_1	C_0	C_1	Q_2	T/D	CP	C_3	Q_3	Q_4	S	RO	V_{CC}	GND
E02-51	MF	1	2	3	4	5	6	8	9	10	11	12	13	14	7
	FF	5	6	7	8	9	10	12	13	14	1	2	3	4	11

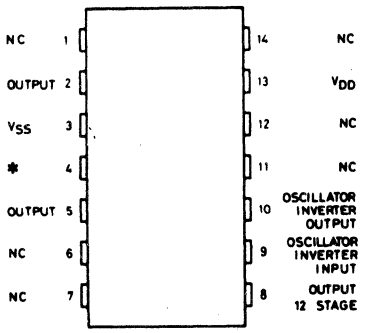
E02-190

16 Stage Counter



E02-191

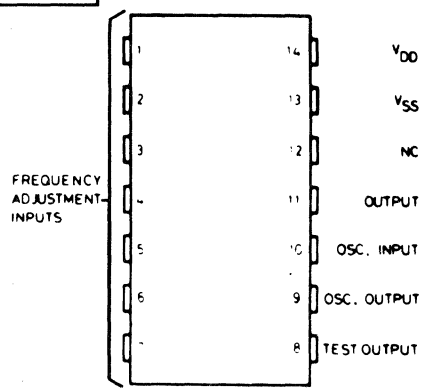
23 Stage Counter



* ZENER CATHODE

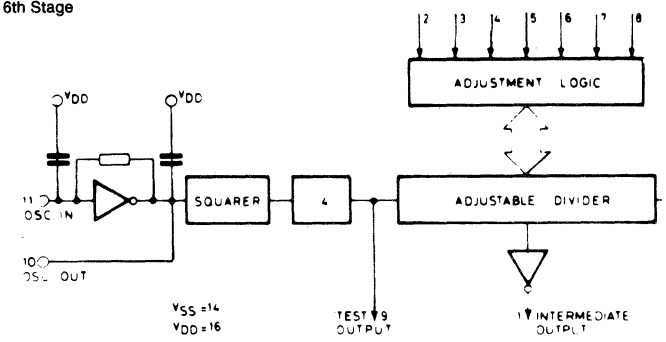
E02-192

16 Stage Counter



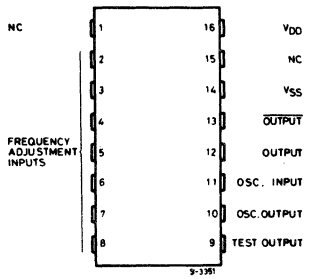
E02-194

23 Stage Counter with Intermediate Output at 16th Stage



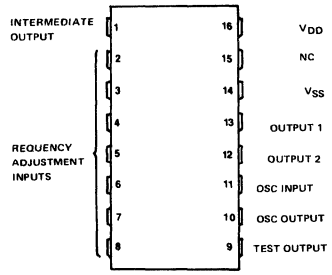
E02-195

16 Stage Counter

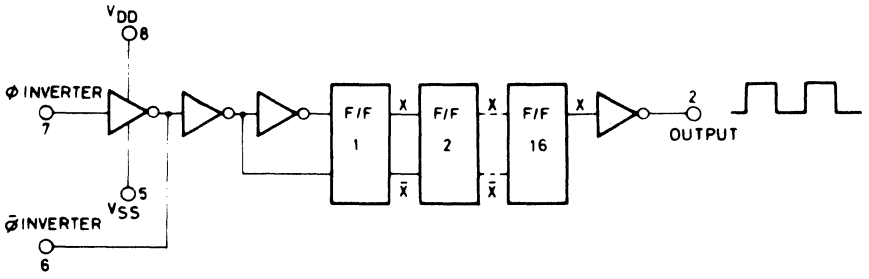


29. CIRCUIT DRAWINGS

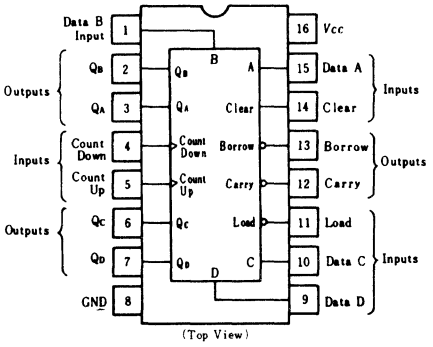
E02-196 23 Stage Counter with Intermediate output at 16th Stage



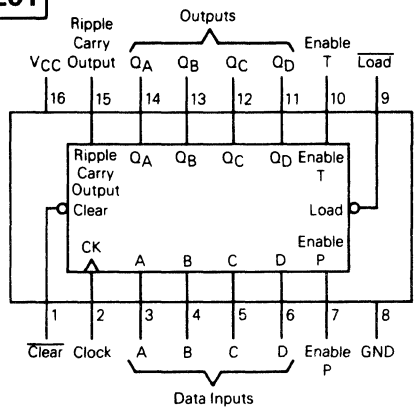
E02-197 16 Stage Counter



E02-198 Synchronous Up/Down Decade Counter

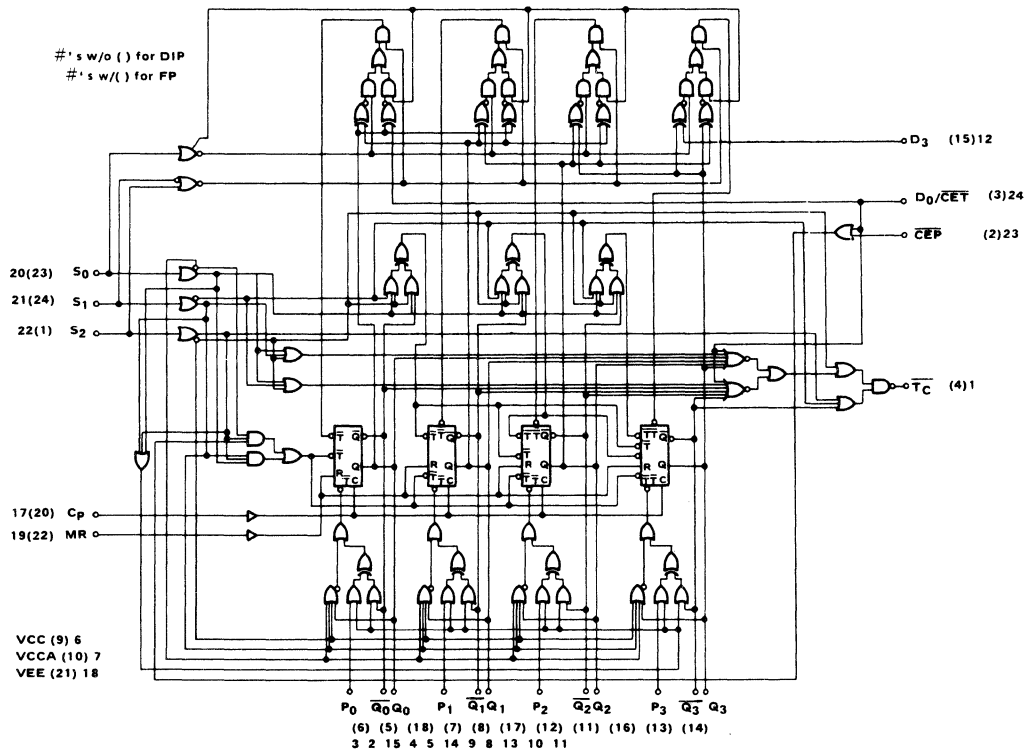


E02-201 Programmable Counters



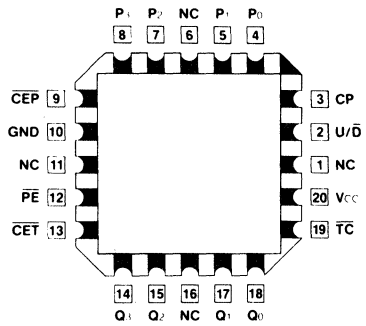
	Decade Counter	Binary Counter
Asynchronous Clear	E02-201	E02-201b
Synchronous Clear	E02-201a	E02-201c

E02-200 4 Stage Counter/Shift Register

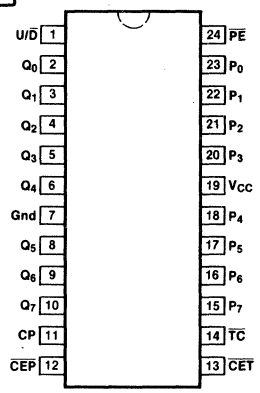


29. CIRCUIT DRAWINGS

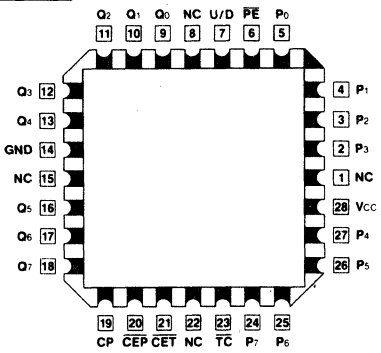
E02-230 4-Stage Synchronous Binary Up/Down Counter



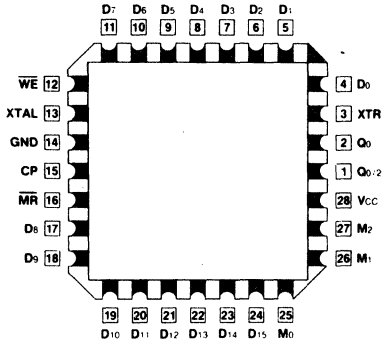
E02-231 8-Bit Bidirectional Binary Counter



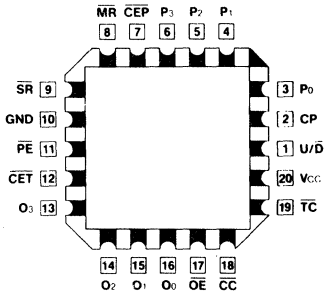
E02-232 8-Bit Bidirectional Binary Counter



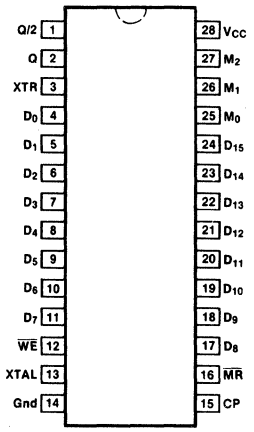
E02-234 16-Bit Programmable Counter



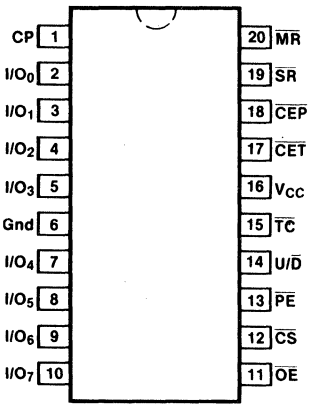
E02-235 4-Bit Bidirectional Counter with 3-State Outputs



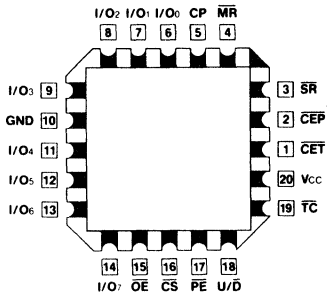
E02-233 16-Bit Programmable Counter



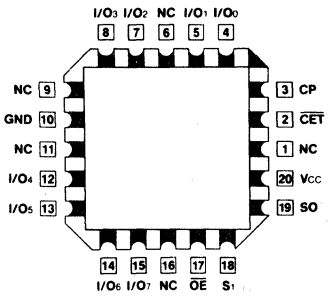
E02-236 8-Bit Bidirectional Binary Counter with 3-State Outputs



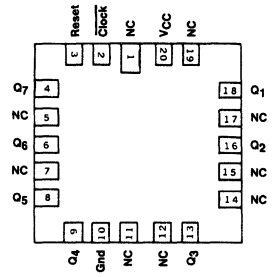
E02-237 8-Bit Bidirectional Binary Counter with 3-State Outputs



E02-238 8-Bit Bidirectional Binary Counter with 3-State Outputs

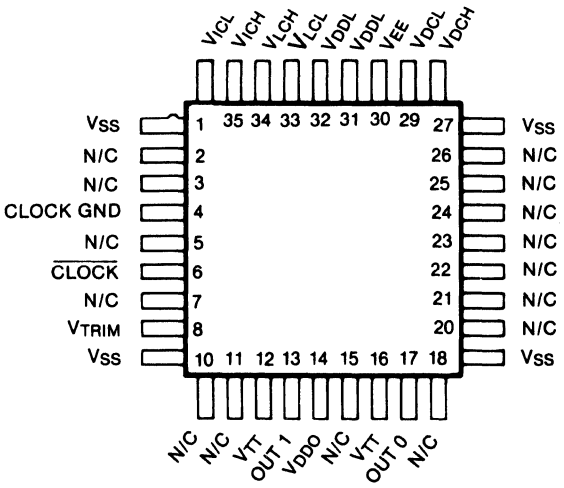


E02-243



29. CIRCUIT DRAWINGS

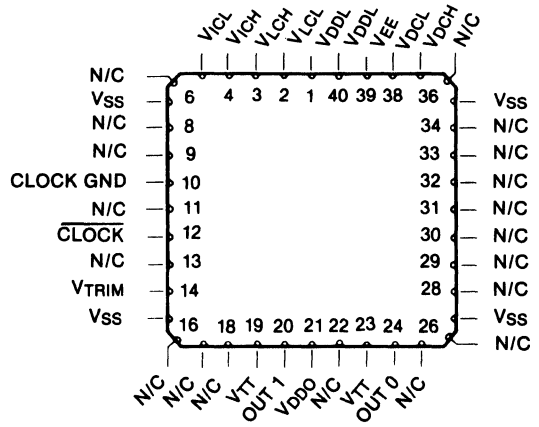
E02-239 2 Stage Ripple Counter



N/C = No Connection

Note: Pin 1 is marked for orientation.

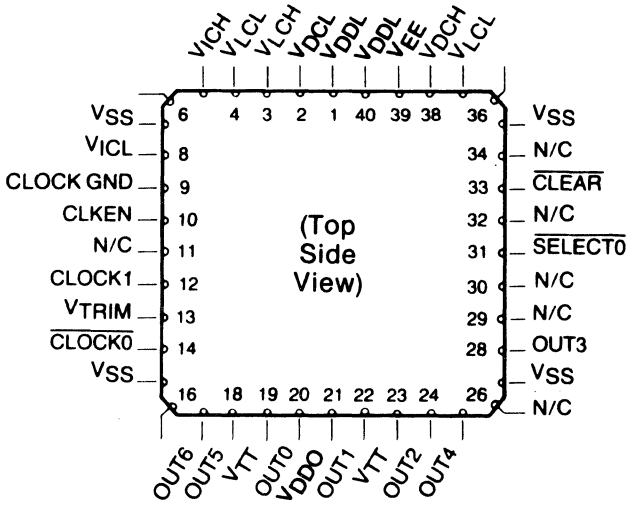
E02-240 2 Stage Ripple Counter



N/C = No Connection

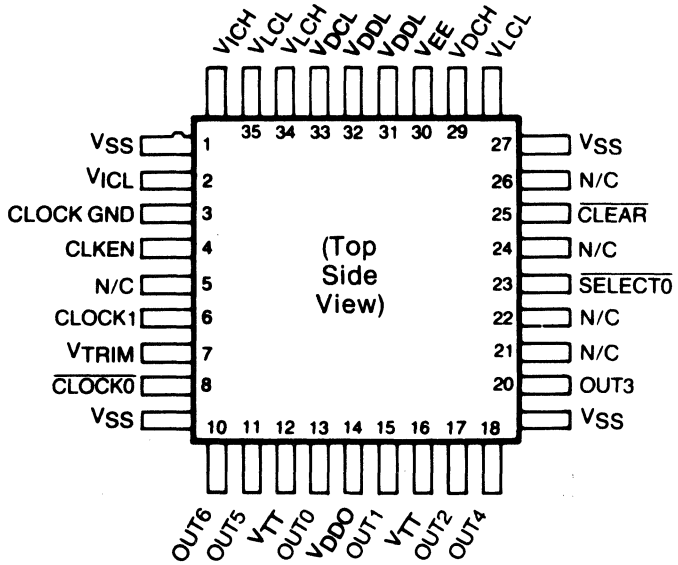
Note: Pin 1 is marked for orientation.

E02-241 7 Stage Ripple Counter



NOTES: Pin 1 is marked for orientation. N/C = No Connection. The package lid, bottom heat vias and 4 N/C corner pins (6, 16, 26, 36) are at VSS potential.

E02-242 7 Stage Ripple Counter

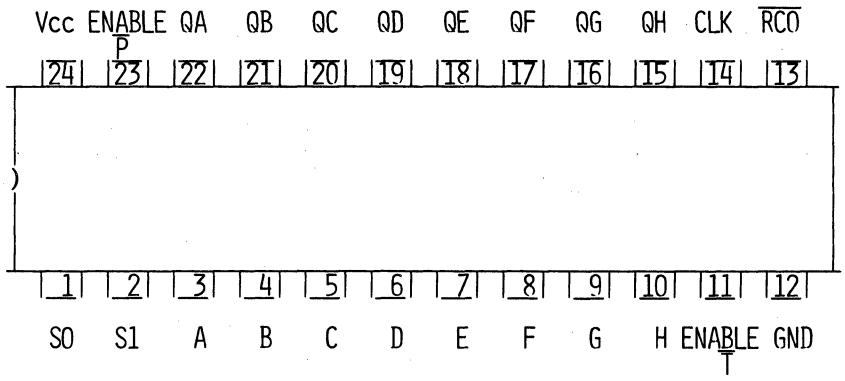


NOTES: Pin 1 is marked for orientation. N/C = No Connection. The package lid and bottom surfaces are at VSS potential.

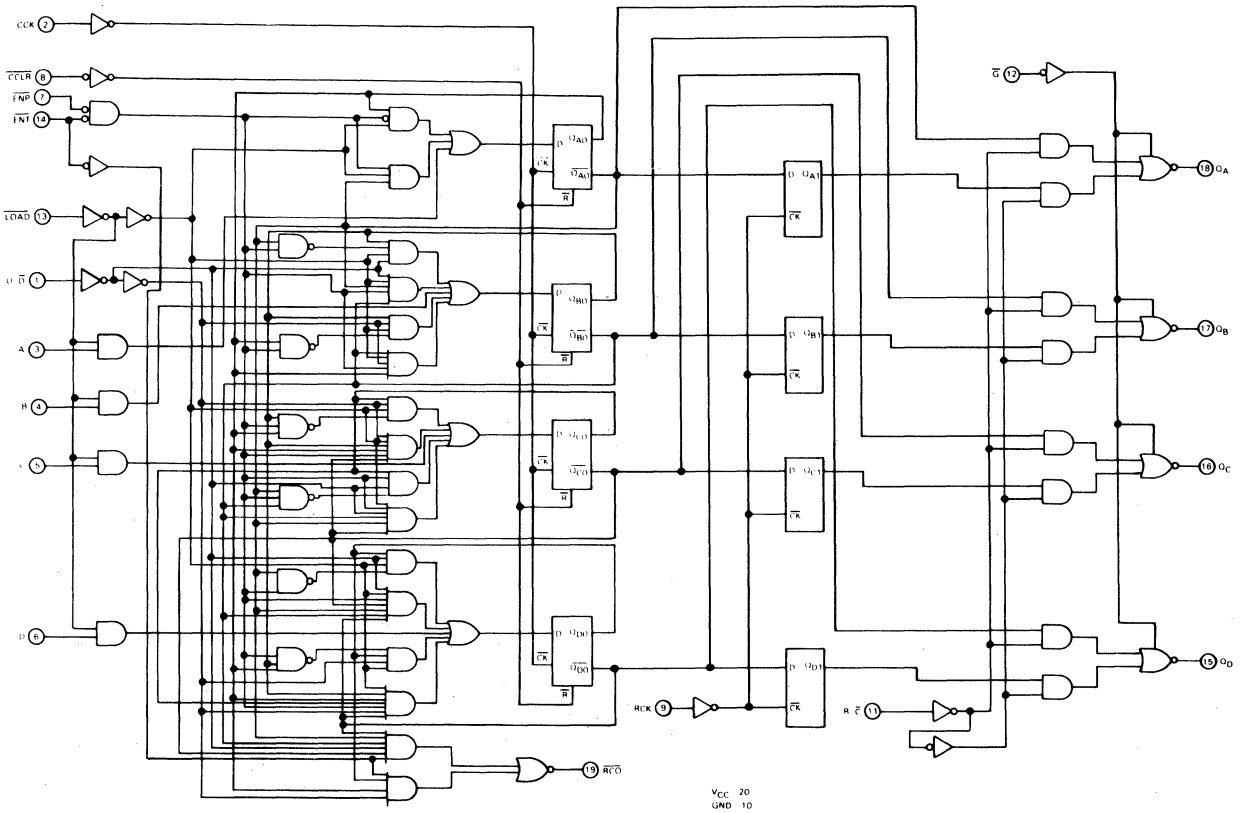
29. CIRCUIT DRAWINGS

E02-209 Synchronous 8-Bit Up/Down Counter

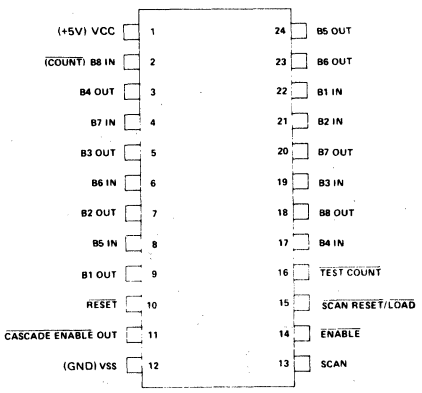
JT OR NT PACKAGE



E02-203 **E02-203a** 32 Bit Binary Up Counter with 40 Bit Latch

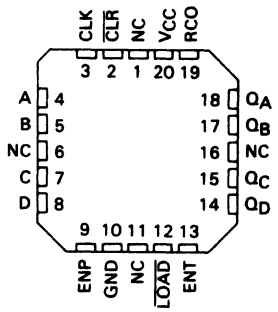


E02-203a



29. CIRCUIT DRAWINGS

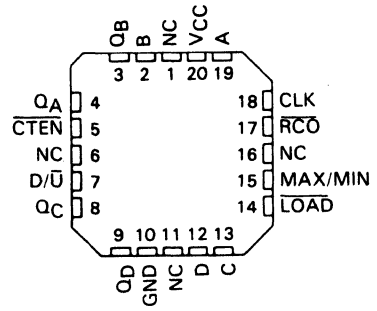
E02-211 Synchronous 4-Bit Binary Counter



NC — no internal connection

E02-211a - Decade Counter

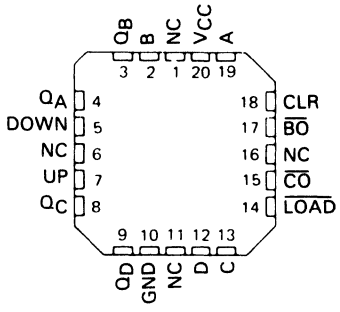
E02-212 Synchronous 4-Bit Binary Up/Down Counter



NC — No internal connection

E02-212a - Decade Counter

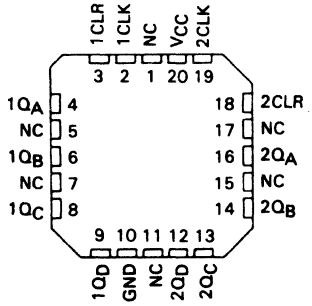
E02-213 Synchronous 4-Bit Up/Down Binary Counter



NC — No internal connection

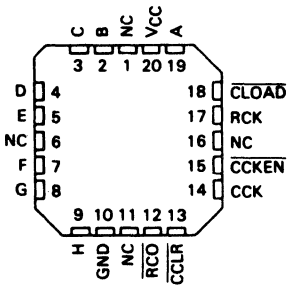
E02-213a - BCD Counter

E02-214 Dual 4-Bit Binary Counter



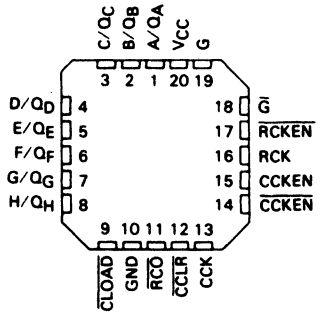
NC — No internal connection

E02-215 8-Bit Binary Counter with Input Registers

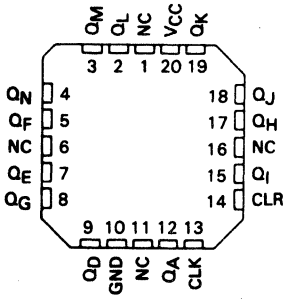


NC — No internal connection

E02-216 8-Bit Binary Counter with Input Registers and 3-State I/O

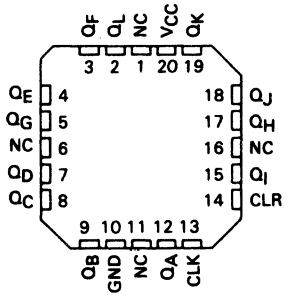


E02-217 14-Bit Binary Counter



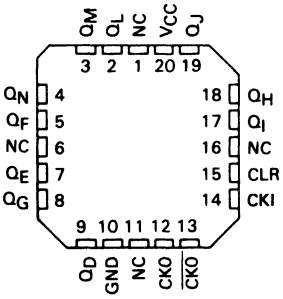
NC — No internal connection

E02-218 12 Stage Binary Counter



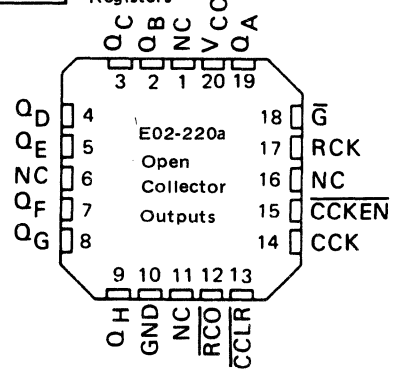
NC — No internal connection

E02-219 14 Stage Binary Counter and Oscillator



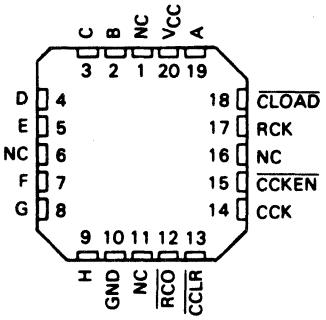
NC — No internal connection

E02-220 8 Bit Binary Counter with Output Registers



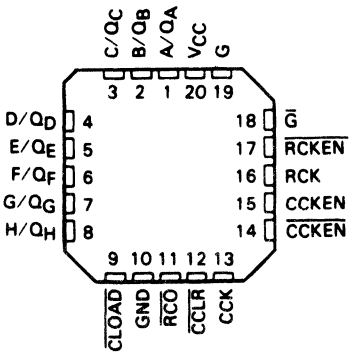
NC - No internal connection

E02-221 8-Bit Binary Counter with Paralell Register Inputs



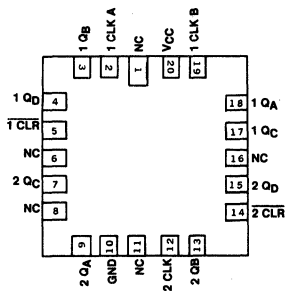
NC — No internal connection

E02-222 8Bit Binary Counter with 3-State I/O

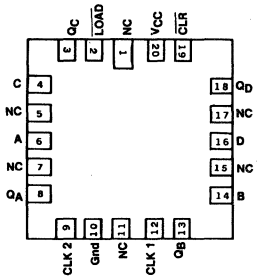


29. CIRCUIT DRAWINGS

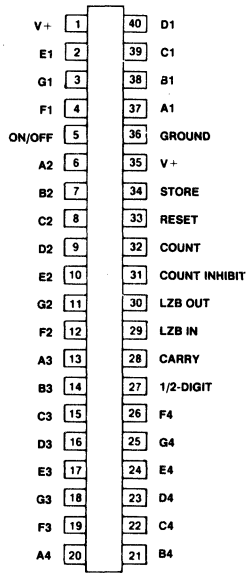
E03-104 Dual 4-Bit Decade Counter



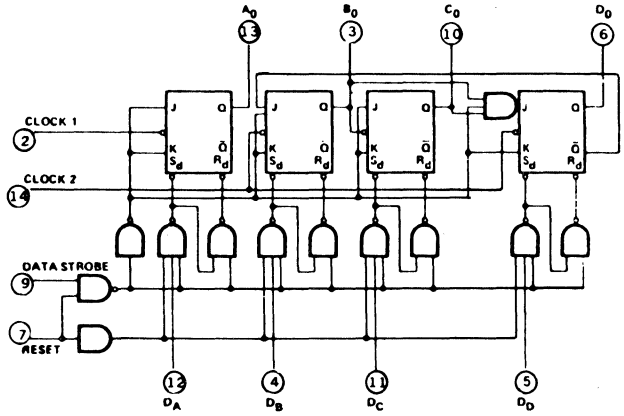
E03-105 Presettable Decade Counter/Latch



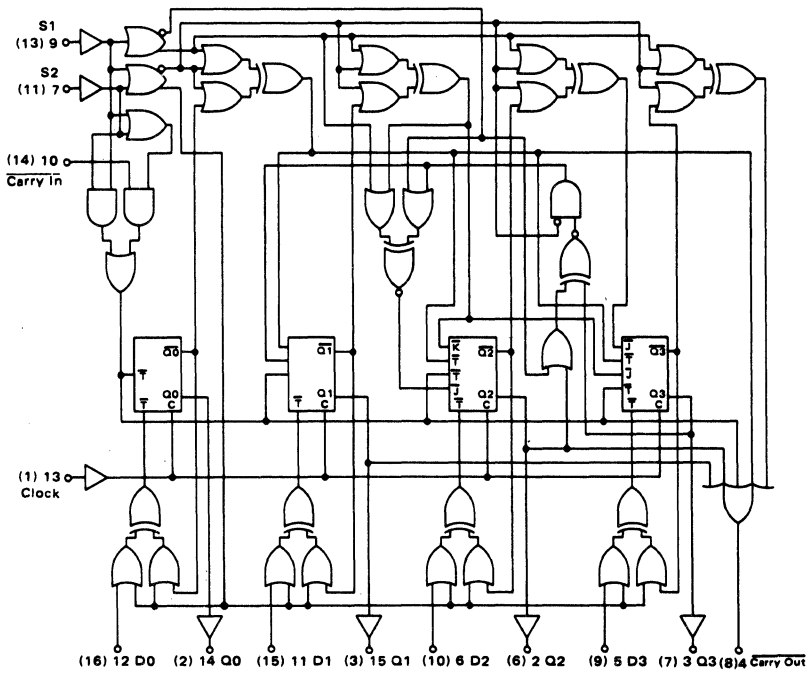
E03-103 4½-Digit Counter with Vacuum Fluorescent Static Display Drivers



E03-26



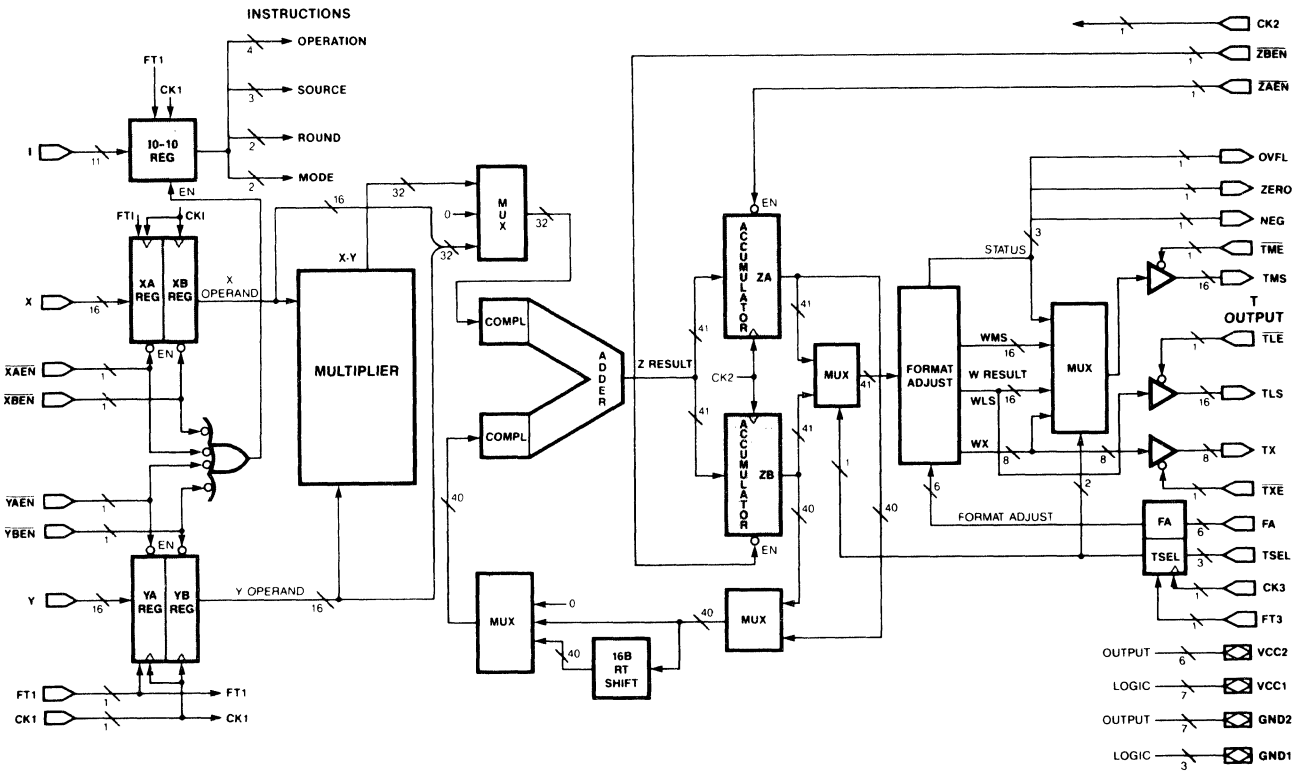
E03-35 Universal Decade Counter



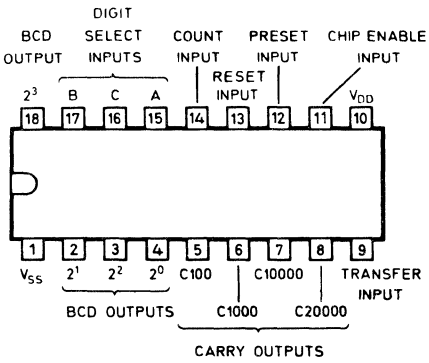
V_{CC1} = Pin 1 (5)
V_{CC2} = Pin 16 (4)
V_{EE} = Pin 8 (12)
( ) = FLAT PACK

29. CIRCUIT DRAWINGS

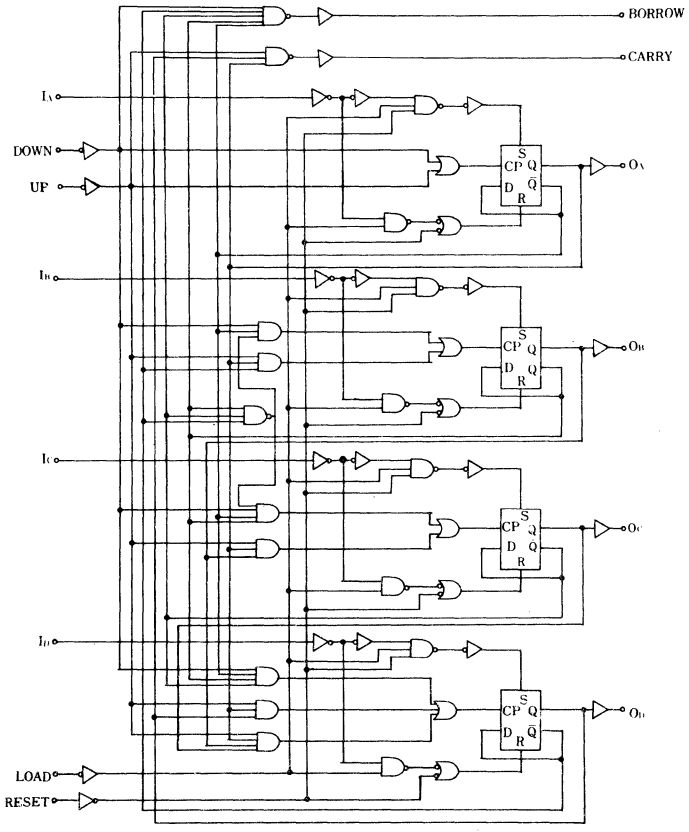
X00-30 16 x 16 Bit Fixed-point Multiplier-Accumulator



E03-50 Quad Static Decade Counter

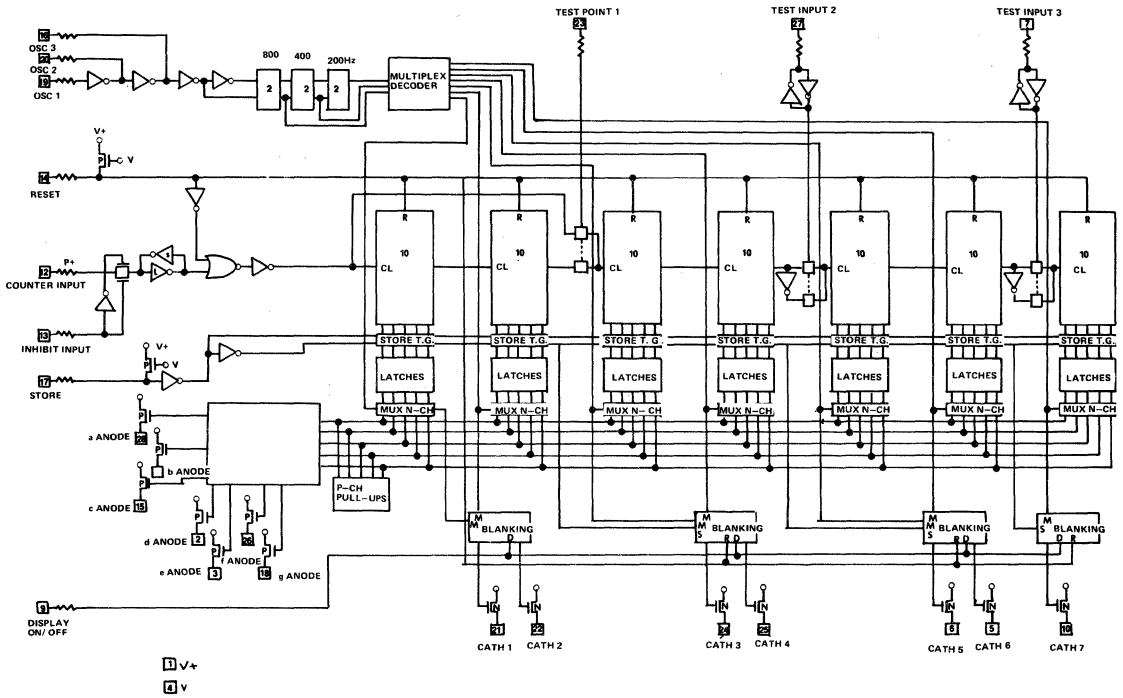


E03-97 Presettable Up/Down Decade Counter

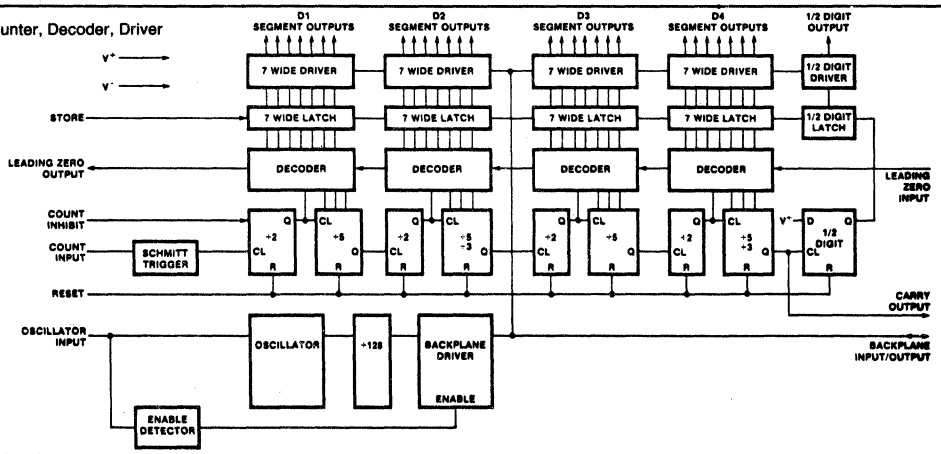


29. CIRCUIT DRAWINGS

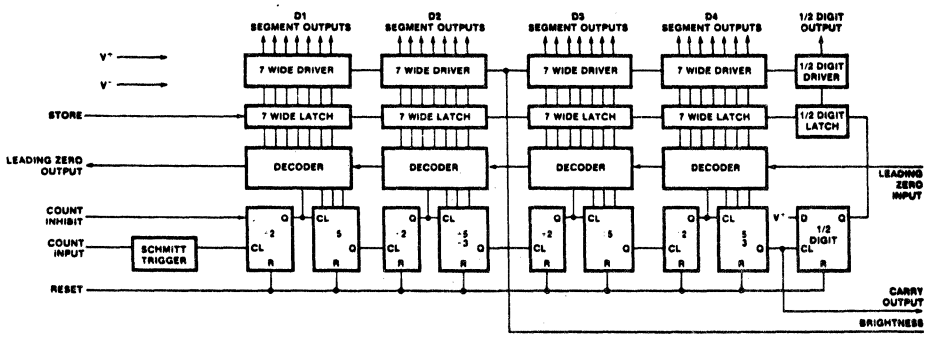
E03-72 7 Decade Counter



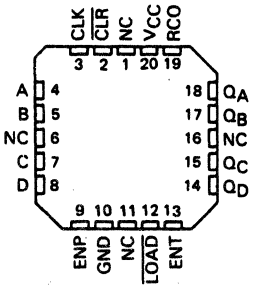
E03-73 4 1/2 Digit Counter, Decoder, Driver



E03-74 4 1/2 Digit Counter, Decoder, Driver



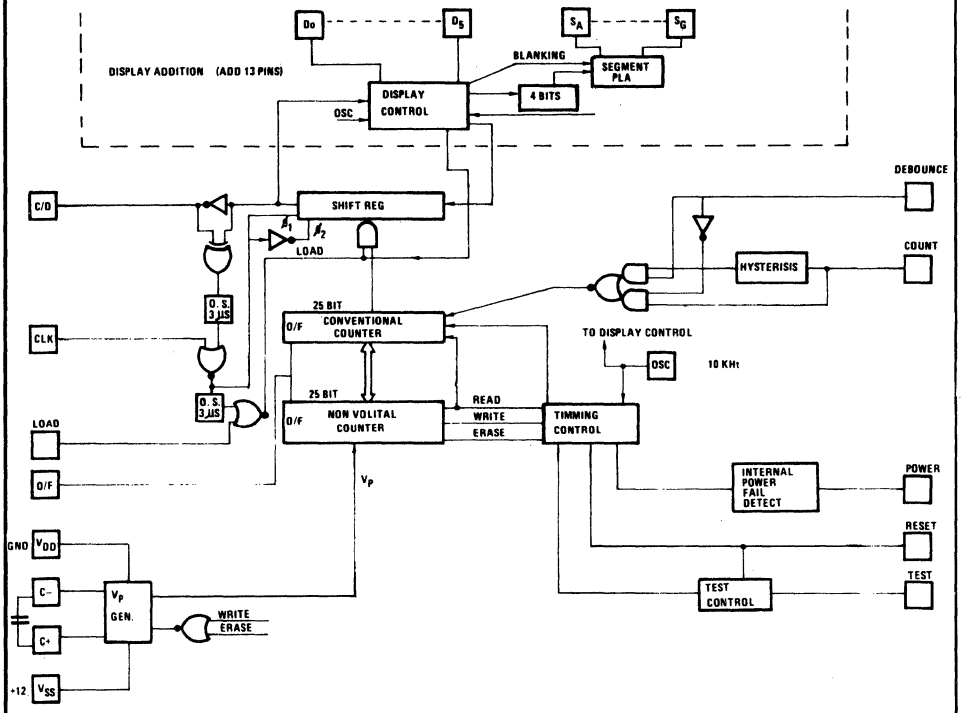
E03-100 Synchronous 4-Bit Decade Counter



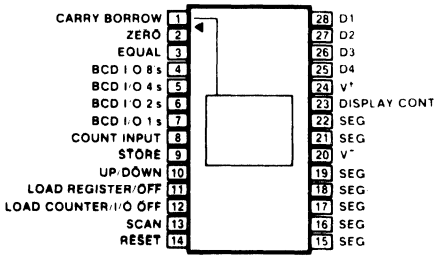
NC – No internal connection

29. CIRCUIT DRAWINGS

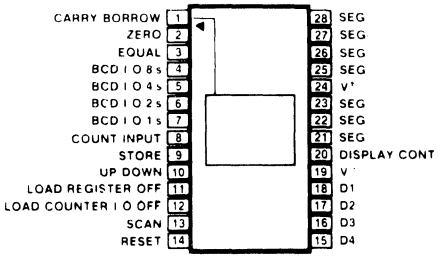
E03-76 6 Decade Counter



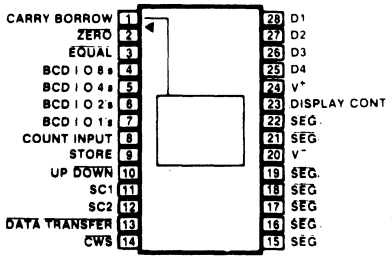
E03-77 4 Digit Up/Down Counter/ Display Driver



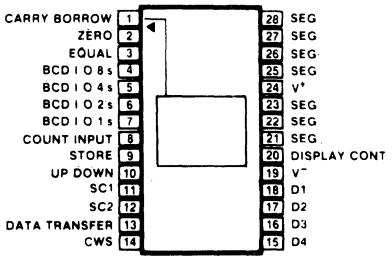
E03-77



E03-77a

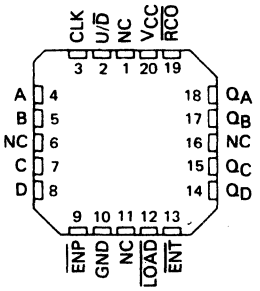


E03-77b



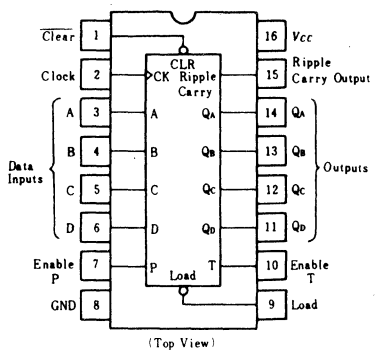
E03-77c

E03-101 Synchronous 4-Bit Decade Up/Down Counter



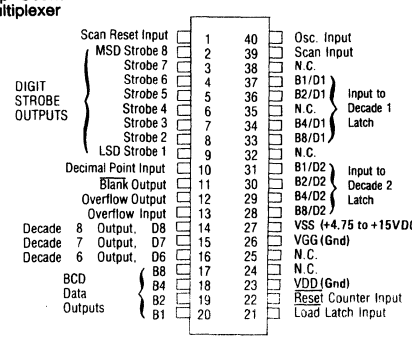
NC – no internal connection.

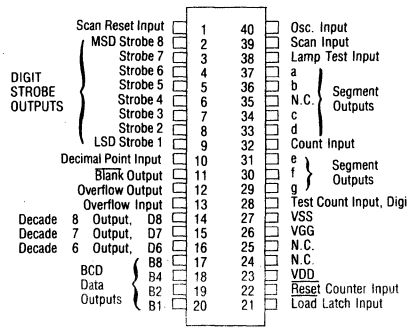
E03-80 Presettable Decade Counter



(Top View)

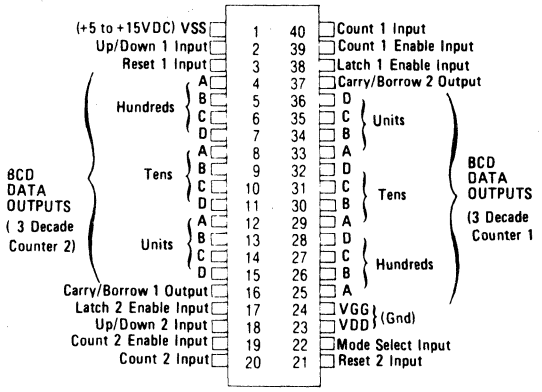
E03-82 6 Decade Up Counter with 8 Decade Latch and Multiplexer



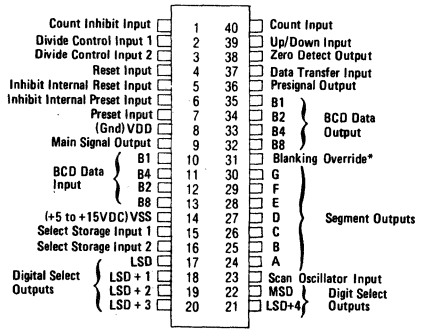


29. CIRCUIT DRAWINGS

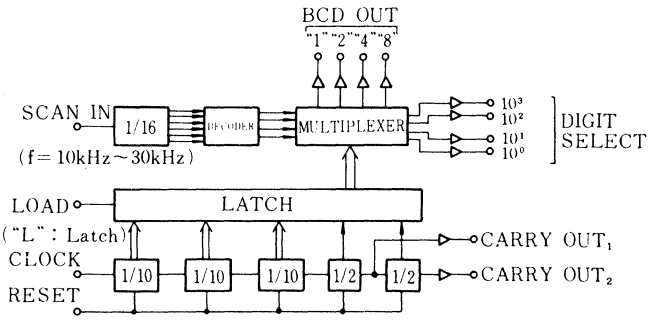
E03-83 Dual 3 Decade Up/Down Counter



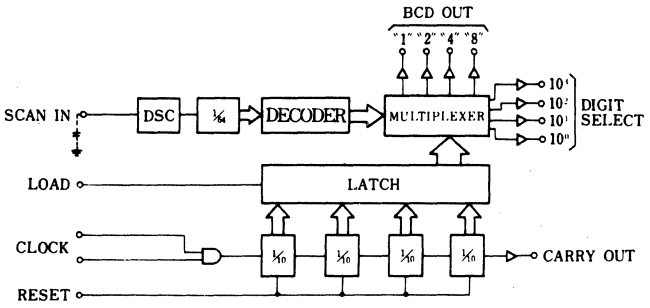
E03-84 6 Decade Predetermining Up/ Down Counter



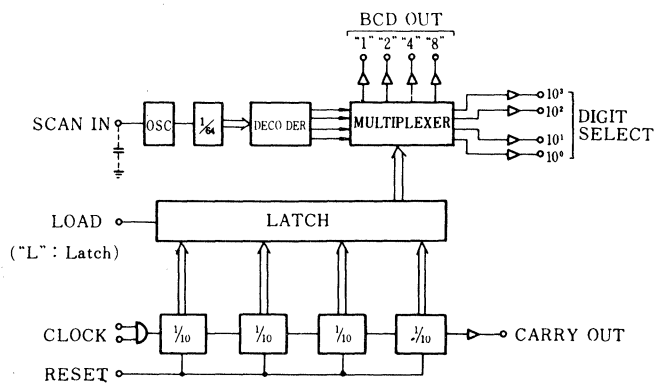
E03-85 3.5-Digit BCD Decade Counter



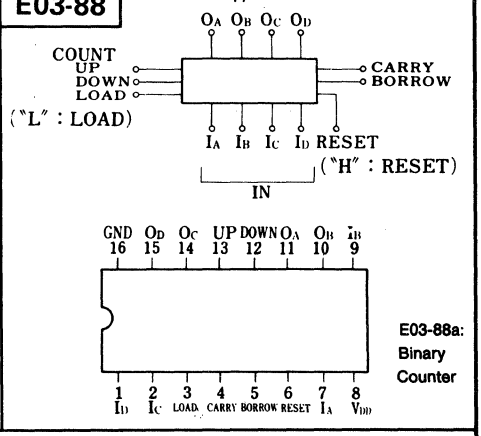
E03-86 4-Digit BCD Decade Counter



E03-87

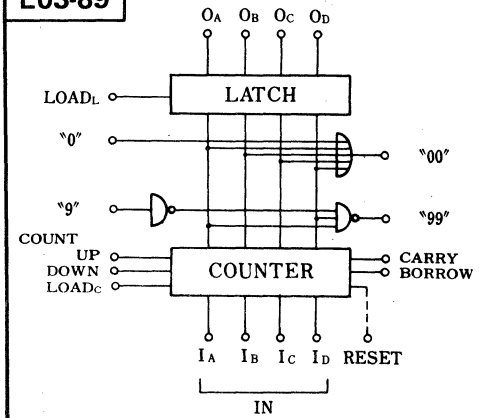


E03-88 Presettable Up/Down Decade Counter

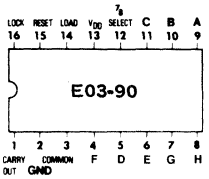


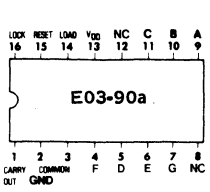
E03-88a: Binary Counter

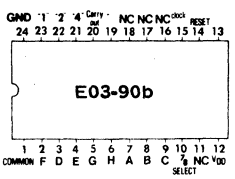
E03-89 Presettable Up/Down Decade Counter



E03-90 Decade Counter/Latch/ Decoder

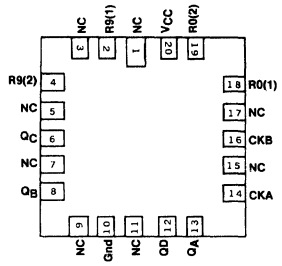




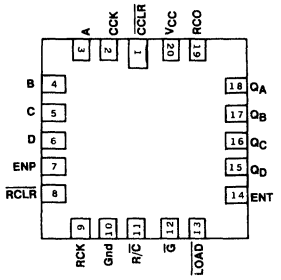


29. CIRCUIT DRAWINGS

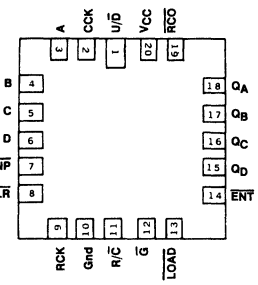
E03-106 Decade Counter



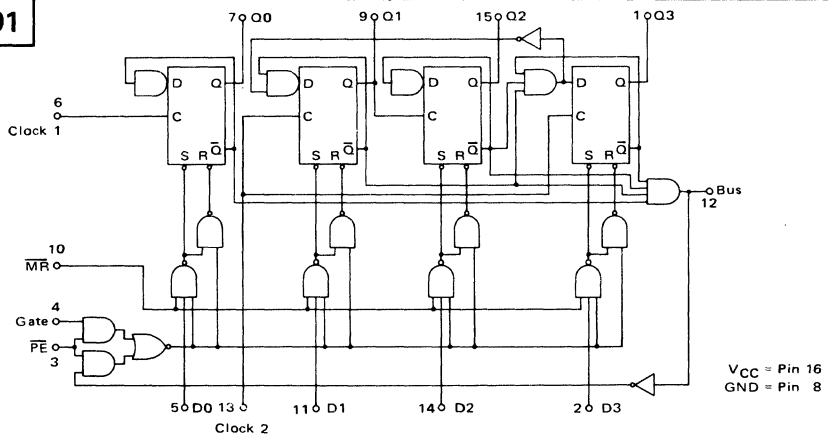
E03-107 Synchronous Up/Down Counter



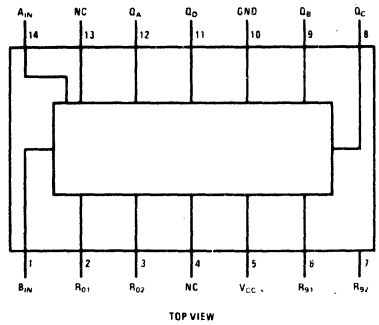
E03-108 Decade Counter with Output Registers



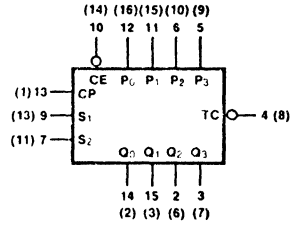
E03-91



E03-68 Decade Counter

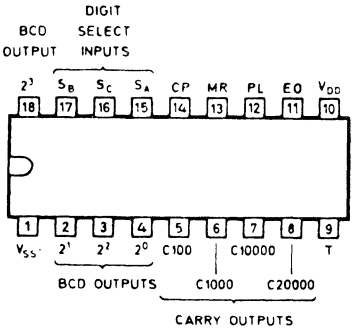


E03-67 4 Stage Up/Down Counter

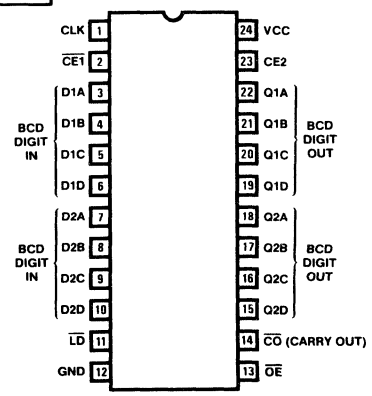


V_{CC1} = Pin 1 (5)
V_{CC2} = Pin 16 (4)
V_{EE} = Pin 8 (12)
( ) = Flatpak

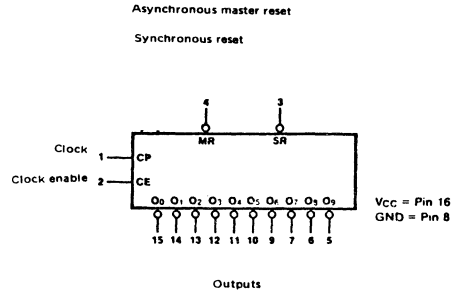
E03-59



E05-40 2-Digit BCD Counter

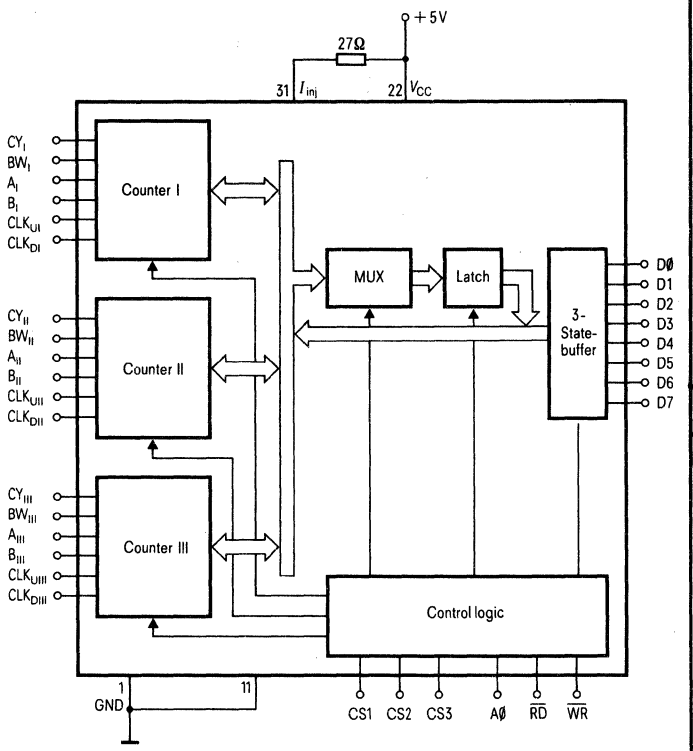


E06-28 Decade Sequencer

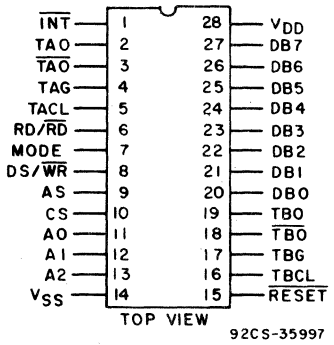


29. CIRCUIT DRAWINGS

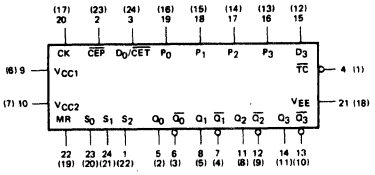
E06-34



E06-36 Dual Counter /Timer

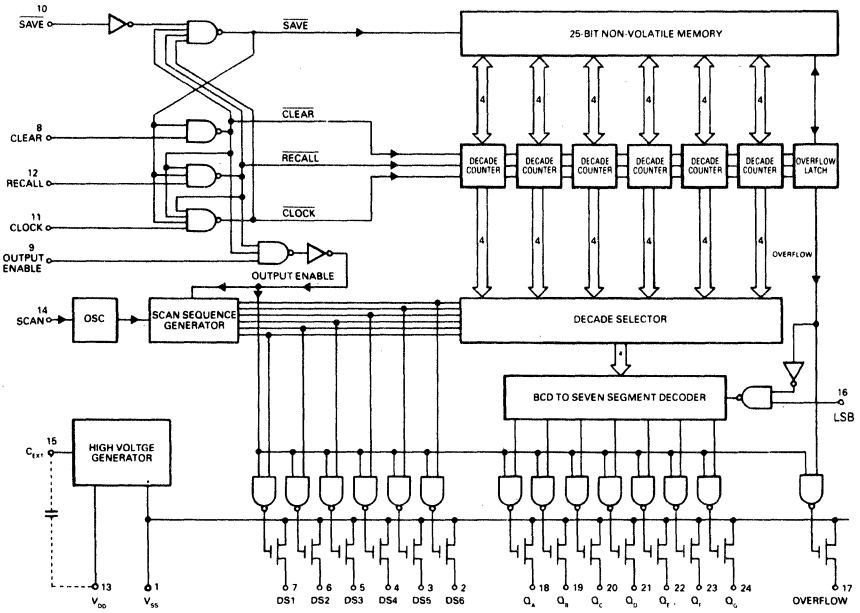


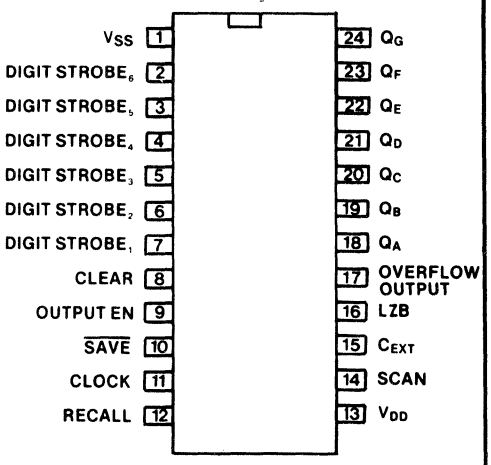
E06-33



Pin connections for flat pack and in ( ) for SLIM DIP packages.

E05-32 Non-volatile 6 Decade Counter



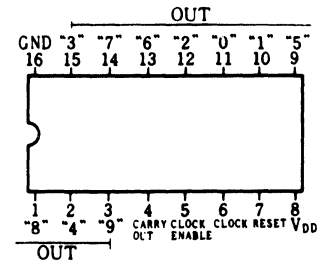


29. CIRCUIT DRAWINGS

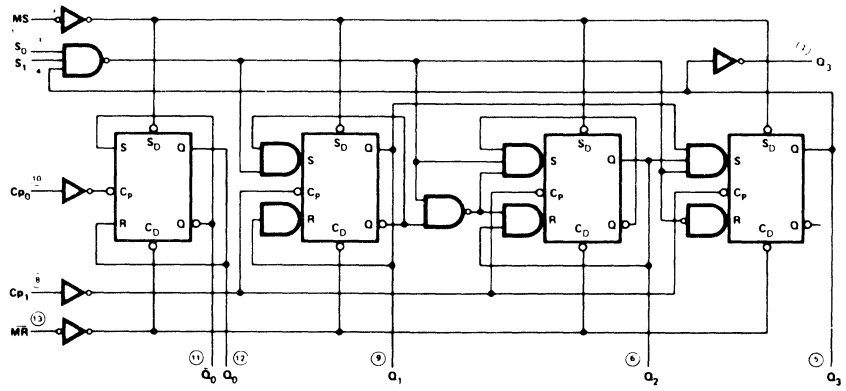
E06-35

PIN NO.	SYMBOL & FUNCTION		PIN NO.	SYMBOL & FUNCTION	
1	GND	Ground (RF)	17	GND	Ground (RF)
2	DE	Data Enable	18	NC	No Connection
3	GND	Ground (RF)	19	GND	Ground (RF)
4	V_{REF}	User Supplied Reference Voltage	20	DI	Data Input
			21	GND	Ground (RF)
5	GND	Ground (RF)	22	MC	Master Clear
6	÷2	÷2(Q) Output	23	GND	Ground (RF)
7	GND	Ground (RF)	24	NC	No Connection
8	÷8	÷8(Q) Output	25	GND	Ground (RF)
9	GND	Ground (RF)	26	GND	Ground (RF)
10	GND	Ground (RF)	27	$+V_{DD}$	Supply Voltage
11	÷4	÷4(Q) Output	28	GND	Ground (DC)
12	GND	Ground (RF)	29	$-V_{SS}$	Supply Voltage
13	$-V_{SS}$	Supply Voltage	30	GND	Ground (RF)
14	GND	Ground (DC)	31	NC	No Connection
15	$+V_{DD}$	Supply Voltage	32	GND	Ground (RF)
16	NC	No Connection			

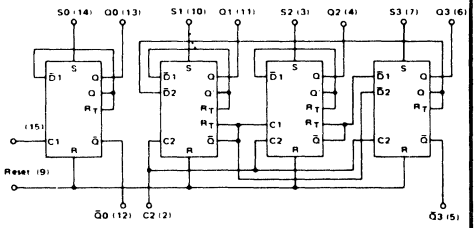
E05-10 Decade Counter/Divider



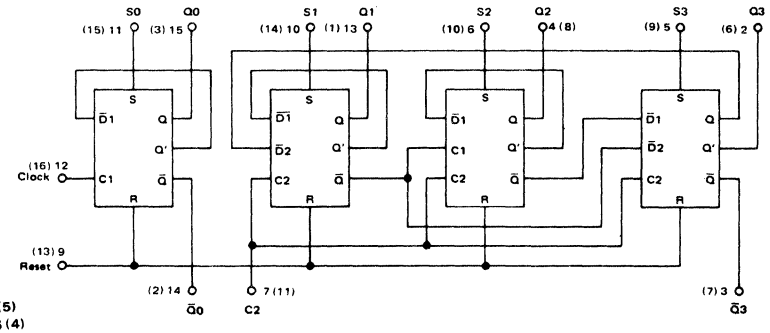
E06-8 Variable Modulus Counter



E06-9 4-Bit Counter Divide-by-two, Divide-by-five, Divide-by-10

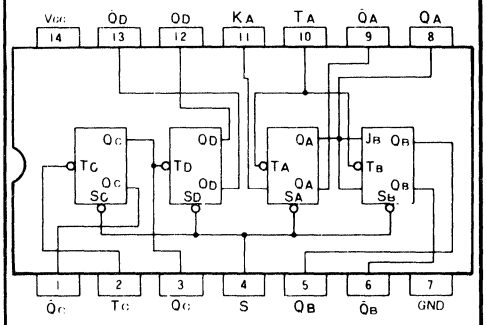


E06-15 4-Bit Counter Divide-by-Two, Five or Ten

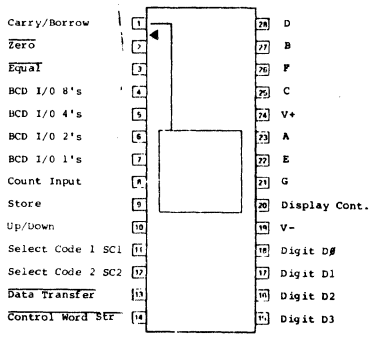


V_{CC1} = Pin 1 (5)
V_{CC2} = Pin 16 (4)
V_{EE} = Pin 8 (12)
( ) = FLAT PACK

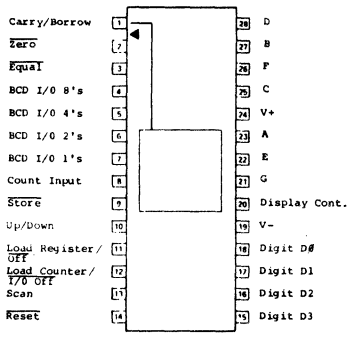
E06-17



E06-25 4 Digit Up/Down Counter/ Display Driver

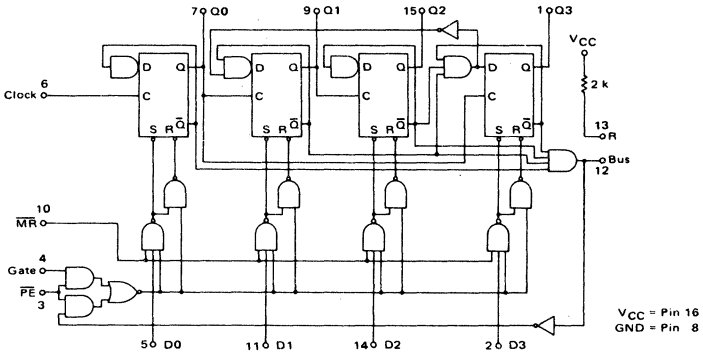


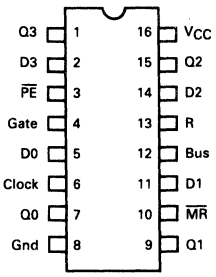
E06-26 4 Digit Up/Down Counter/ Display Driver



29. CIRCUIT DRAWINGS

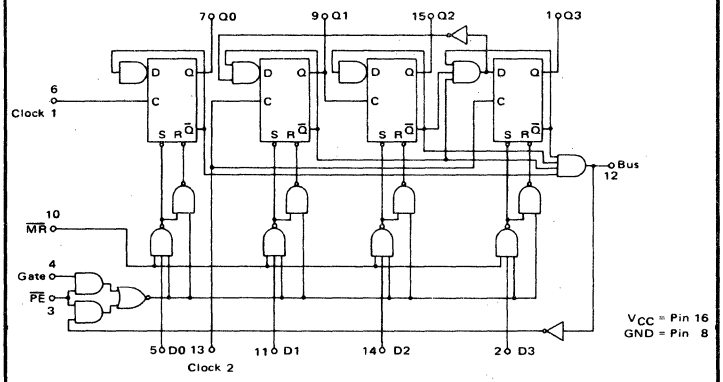
E07-16 Programmable Modulo-N Counter

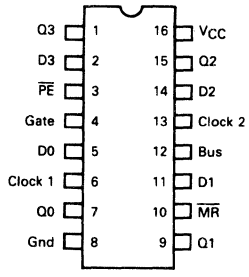




COUNT	OUTPUT			
	Q3	Q2	Q1	Q0
9	1	0	0	1
8	1	0	0	0
7	0	1	1	1
6	0	1	1	0
5	0	1	0	1
4	0	1	0	0
3	0	0	1	1
2	0	0	1	0
1	0	0	0	1
0	0	0	0	0

E07-17 Programmable Modulo-N Counter



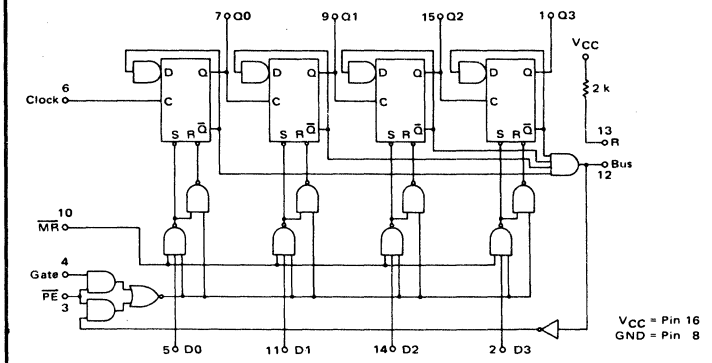


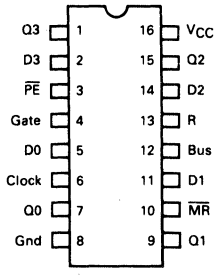
MC4317/4017

COUNT	OUTPUT
	Q0
1	1
0	0

COUNT	OUTPUT		
	Q3	Q2	Q1
4	1	0	0
3	0	1	1
2	0	1	0
1	0	0	1
0	0	0	0

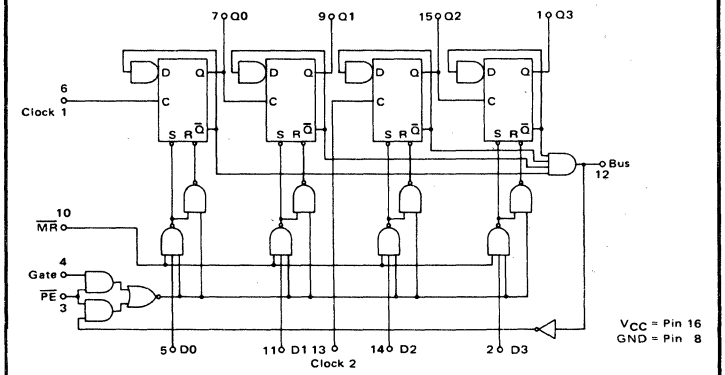
E07-18 Programmable Modulo-N Counter

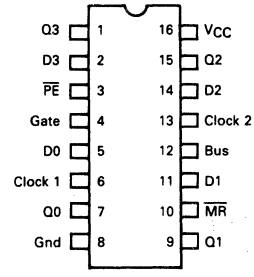




COUNT	OUTPUT			
	Q3	Q2	Q1	Q0
15	1	1	1	1
14	1	1	1	0
13	1	1	0	1
12	1	1	0	0
11	1	0	1	1
10	1	0	1	0
9	1	0	0	1
8	1	0	0	0
7	0	1	1	1
6	0	1	1	0
5	0	1	0	1
4	0	1	0	0
3	0	0	1	1
2	0	0	1	0
1	0	0	0	1
0	0	0	0	0

E07-19 Programmable Modulo-N Counter





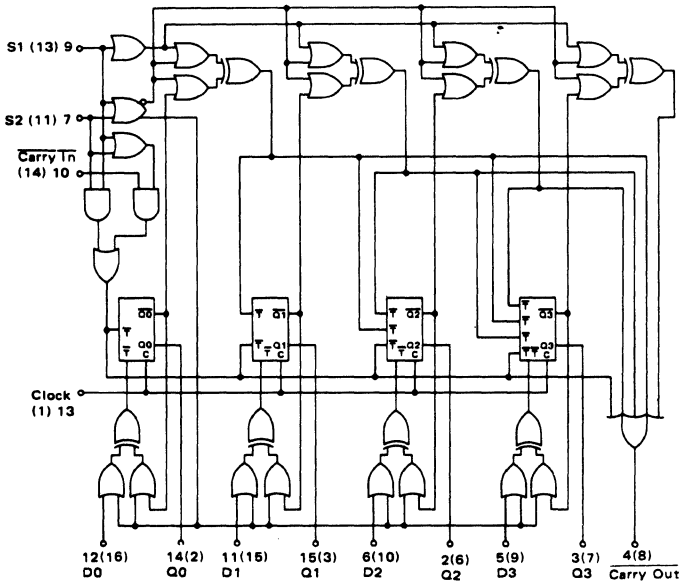
MC4319/4019

COUNT	OUTPUT	
	Q1	Q0
3	1	1
2	1	0
1	0	1
0	0	0

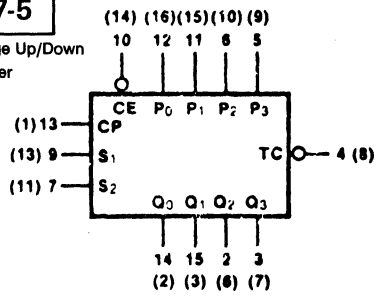
COUNT	OUTPUT	
	Q3	Q2
3	1	1
2	1	0
1	0	1
0	0	0

29. CIRCUIT DRAWINGS

E07-3 Universal Hexadecimal Counter

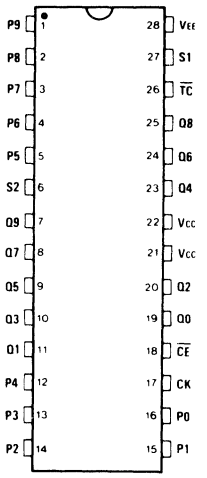


E07-5 4 Stage Up/Down Counter

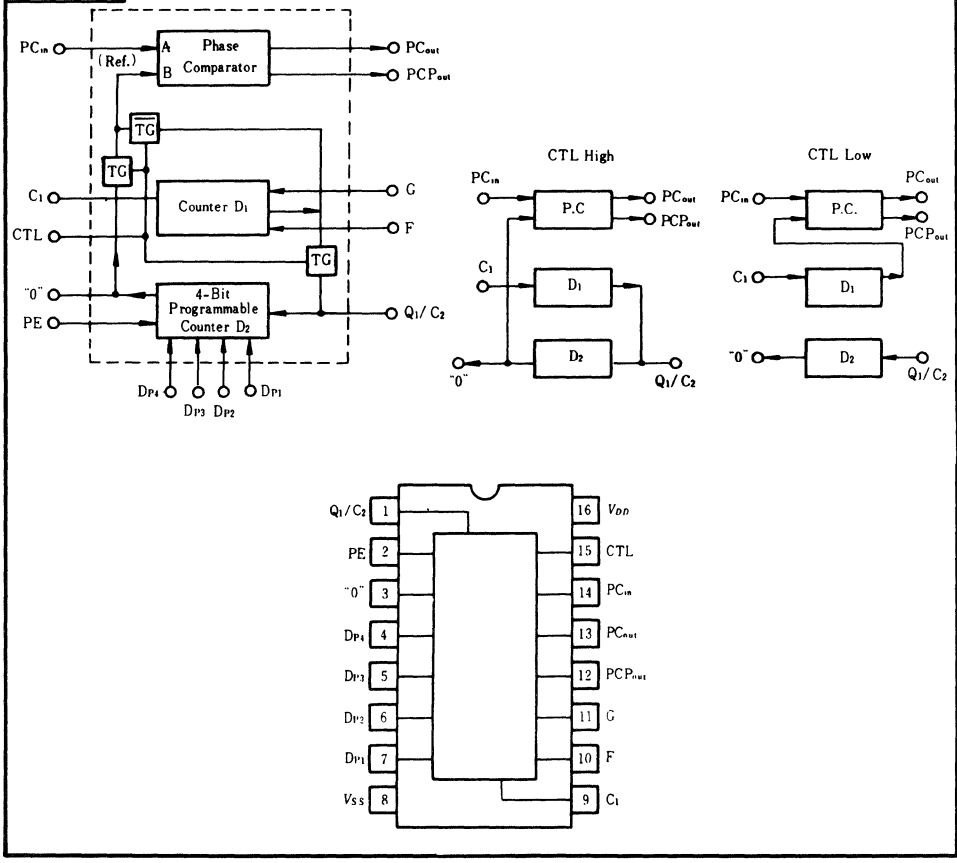


V_{CC1} = Pin 1 (5)
V_{CC2} = Pin 16 (4)
V_{EE} = Pin 8 (12)
( ) = Flatpak

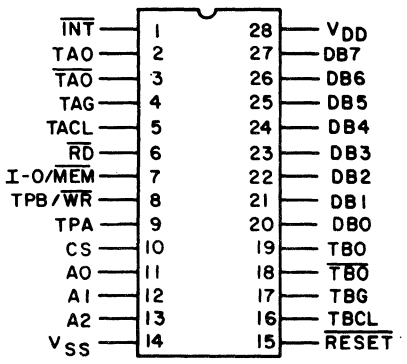
E08-3 10-Bit Up/Down Counter



E08-2 Phase Comparator & Programmable Counter

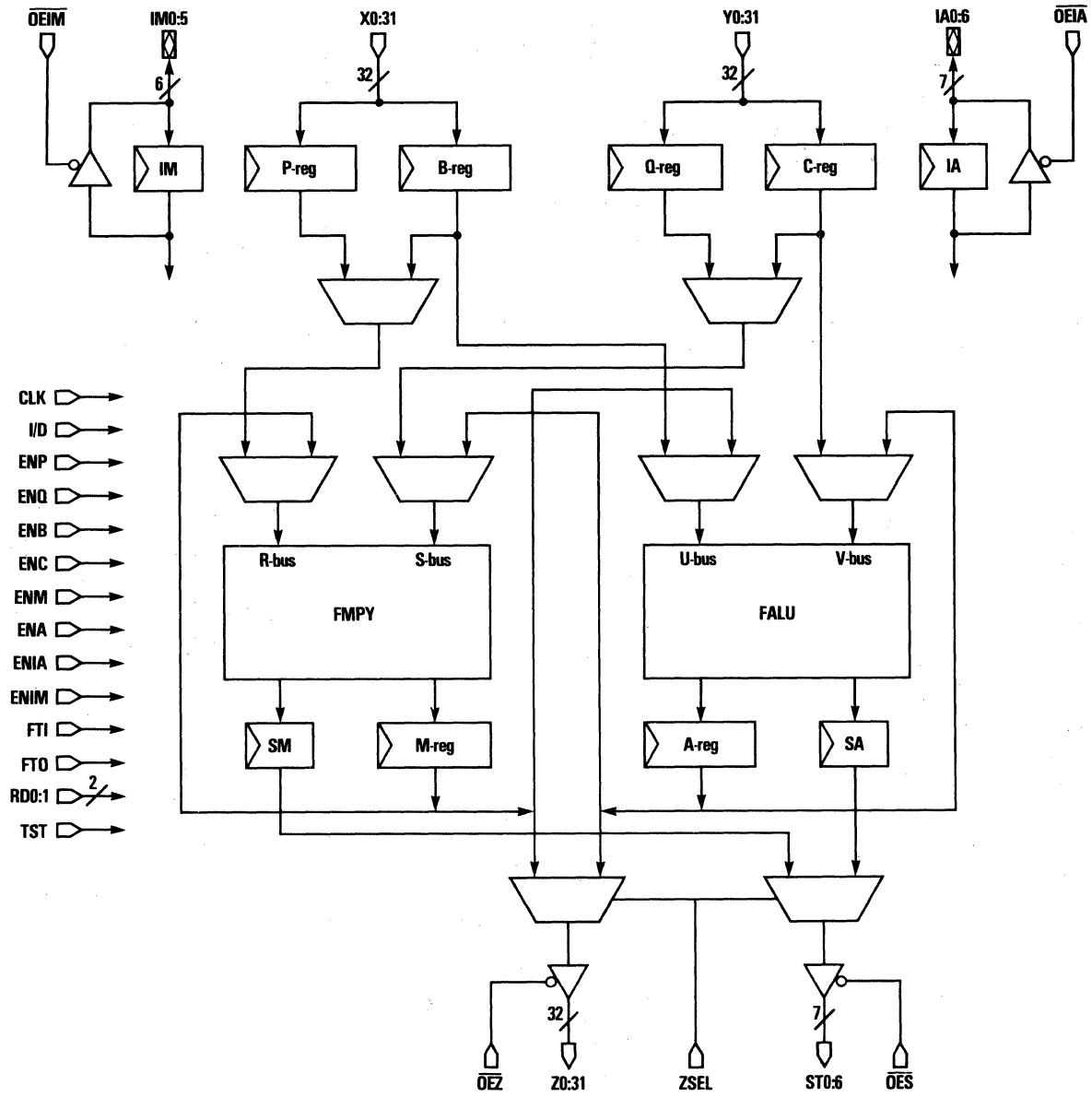


E06-37 Dual Counter/Timer

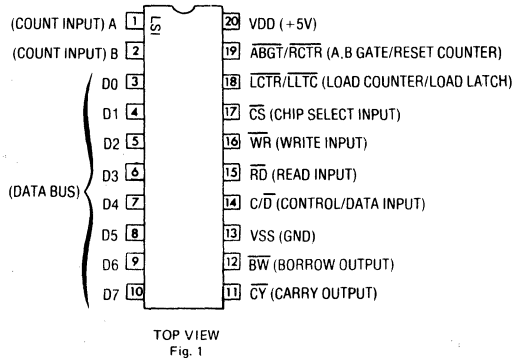


29. CIRCUIT DRAWINGS

X00-29 32-Bit Floating Point Multiplier & ALU

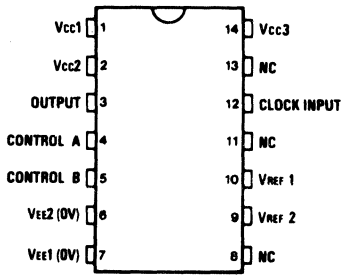


E08-6 24-Bit Multimode Counter



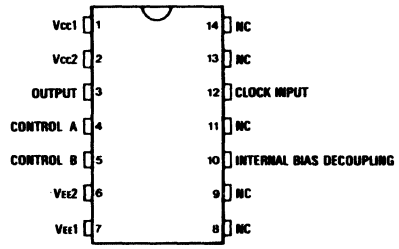
TOP VIEW
Fig. 1

E09-1 1.0GHz 4-Modulus-Divider

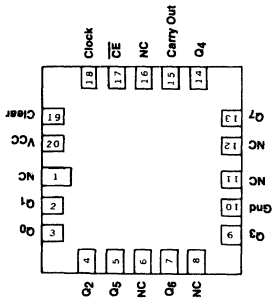


29. CIRCUIT DRAWINGS

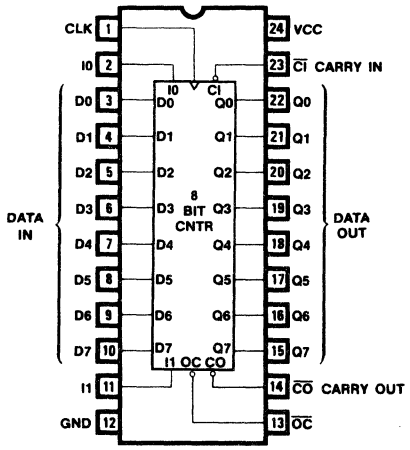
E09-2 500MHz 4-Modulus Divider



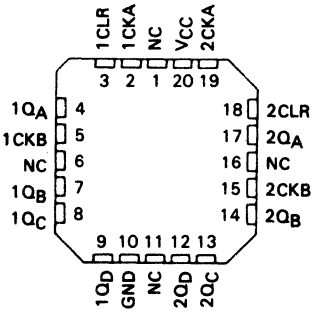
E10-2 Octal Counter/Divider



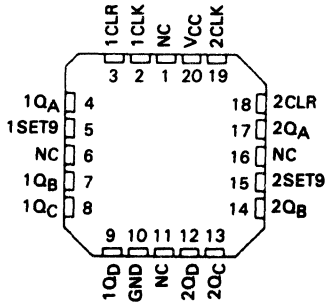
E10-01 Octal Counter



E11-02 Dual 4-Bit Decade Counter

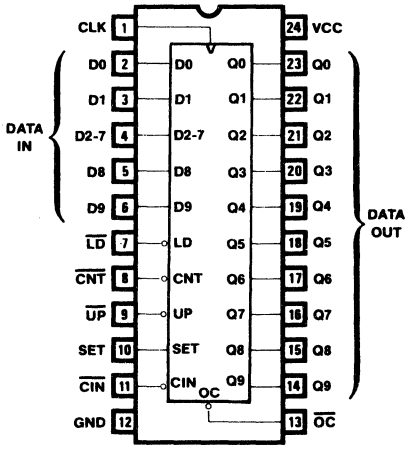


E11-03 Dual 4-Bit Decade Counter

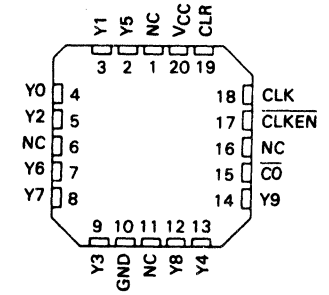


NC — No internal connection

E11-01 10-Bit Counter

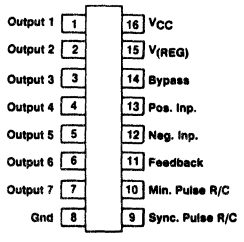


E11-04 Decade Counter/Divider



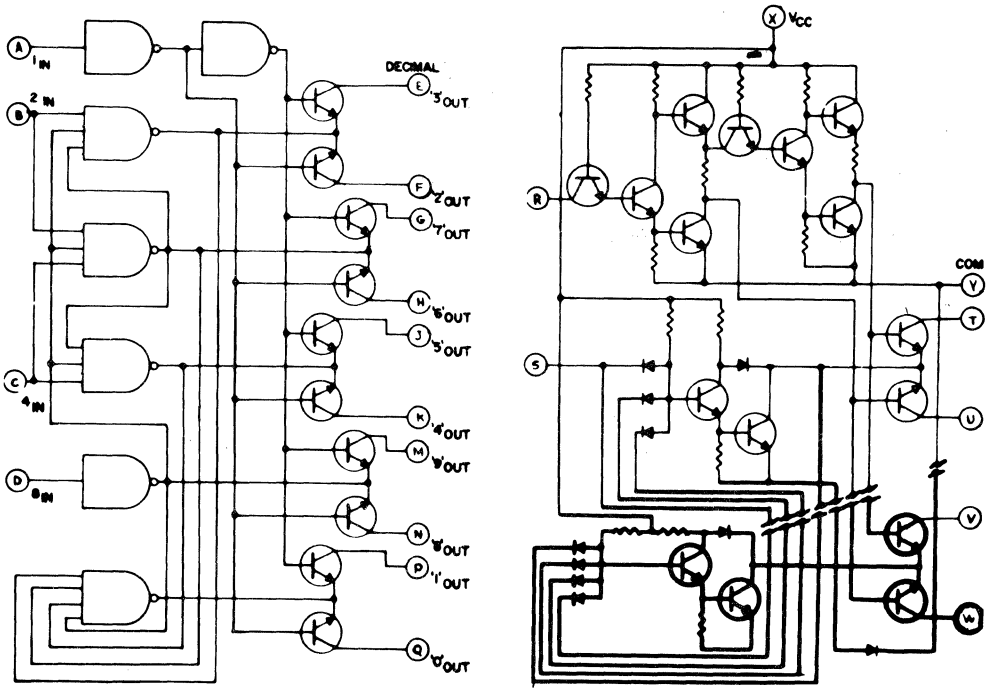
NC — No internal connection

F01-69 7-Channel RC Decoder



29. CIRCUIT DRAWINGS

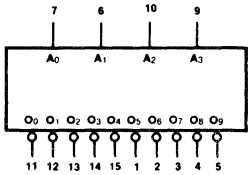
F01-19



	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	T	U	V	W	X	Y
F01-19	15	2	3	1	5	4	6	7	10	9	14	13	11	12	15	2	5	4	11	12	16	8
F01-19a	3	6	7	4	9	8	10	11	14	13	2	1	15	16	3	6	9	8	15	16	5	12

F01-20

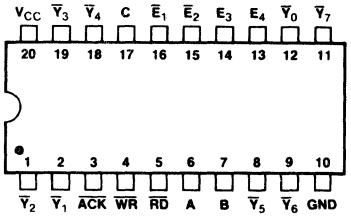
1-of-10 Decoder



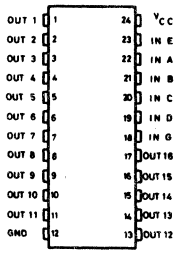
VCC Pin 16
GND = Pin 8

	A0	A1	A2	A3	O0	O1	O2	O3	O4	O5	O6	O7	O8	O9	Vcc	Gnd	Notes
F01-20	7	6	10	9	11	12	13	14	15	1	2	3	4	5	16	8	Q_0 = Lo when $A_0.A_1.A_2.A_3$ = Lo
F01-20b	15	14	1	2	13	12	11	10	9	3	4	5	6	7	16	8	Q_0 = Hi when $A_0.A_1.A_2.A_3$ = Lo
F01-20c	3	6	7	4	16	15	8	9	13	14	11	10	1	2	5	12	Q_0 = Hi when $A_0.A_1.A_2.A_3$ = Lo
F01-20d	15	2	3	1	12	11	4	5	9	10	7	6	13	14	16	8	Q_0 = Lo when $A_0.A_1.A_2.A_3$ = Lo
F01-20h	3	6	7	4	16	15	8	9	13	14	11	10	1	2	5	2	Over range when A_3 = Hi
F01-20j	10	13	12	11	3	14	2	15	1	6	7	4	9	5	16	8	Q_0 = Hi when $A_0.A_1.A_2.A_3$ = Lo
F01-20k	3	6	7	4	16	15	8	9	13	14	11	10	1	2	12	5	Q_0 = Lo when $A_0.A_1.A_2.A_3$ = Lo
F01-20l	1	2	3	4	15	14	13	12	11	10	9	7	6	5	16	8	Q_0 = Lo when $A_0.A_1.A_2.A_3$ = Lo
F01-20m	15	14	1	2	13	12	11	10	9	3	4	5	6	7	16	8	

F01-64

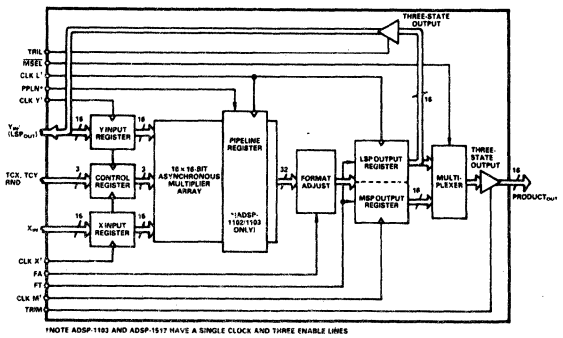


F01-60



X00-25

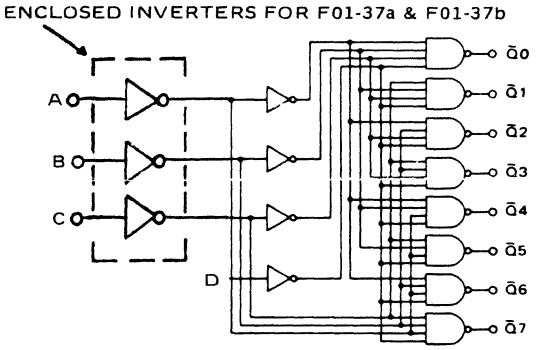
16 x 16 Multiplier



*NOTE ADSP-1103 AND ADSP-1517 HAVE A SINGLE CLOCK AND THREE ENABLE LINES

29. CIRCUIT DRAWINGS

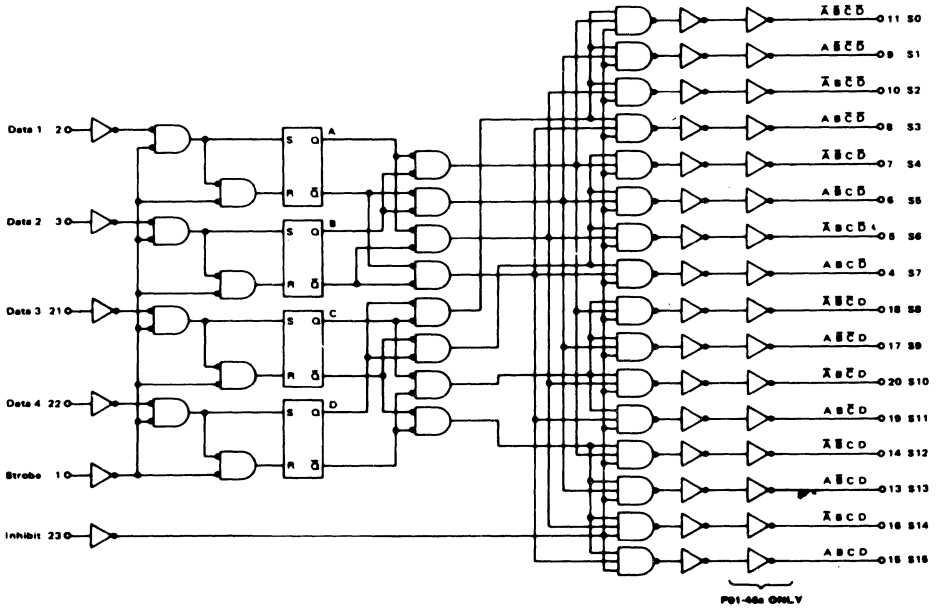
F01-37



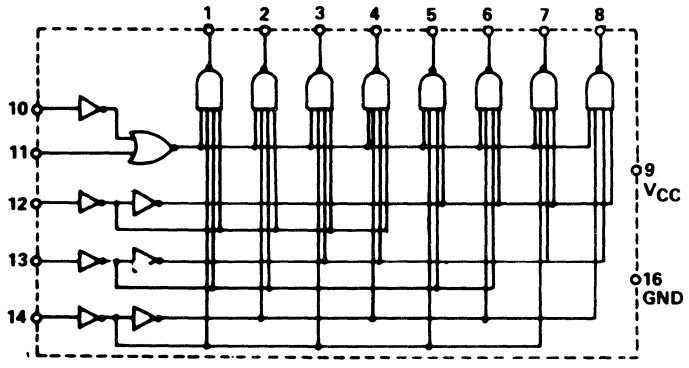
	A	B	C	D	Q0	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Vcc	Gnd
F01-37	1	13	2	3	12	11	10	9	8	4	5	6	14	7
F01-37a	1	13	2	3	12	11	10	9	8	4	5	6	14	7
F01-37b	5	3	6	7	2	1	14	13	12	8	9	10	4	11

F01-46

4-Bit Latch/4-to-16 Line Decoder

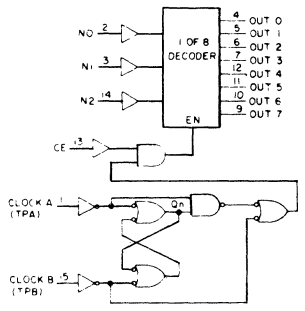


F01-50



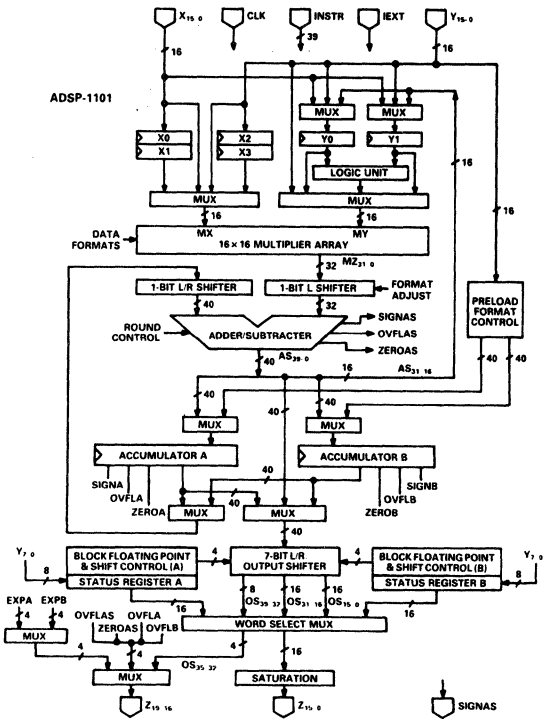
F01-65

1 of 8 Decoder

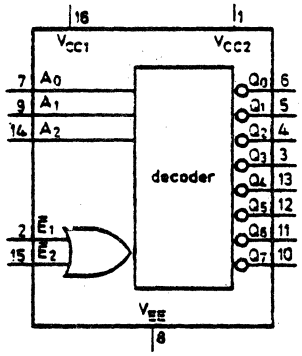


29. CIRCUIT DRAWINGS

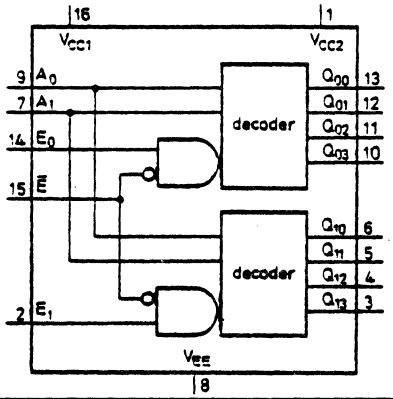
X00-24 16 x 16 Multiplication/Accumulator



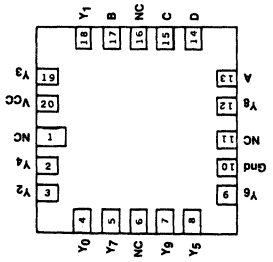
F01-66 3-Bit Decoder



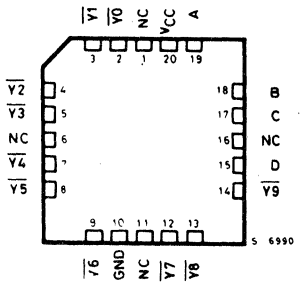
F01-67 Dual 2-Bit Decoder



F02-126 BCD-To-Decimal Decoder

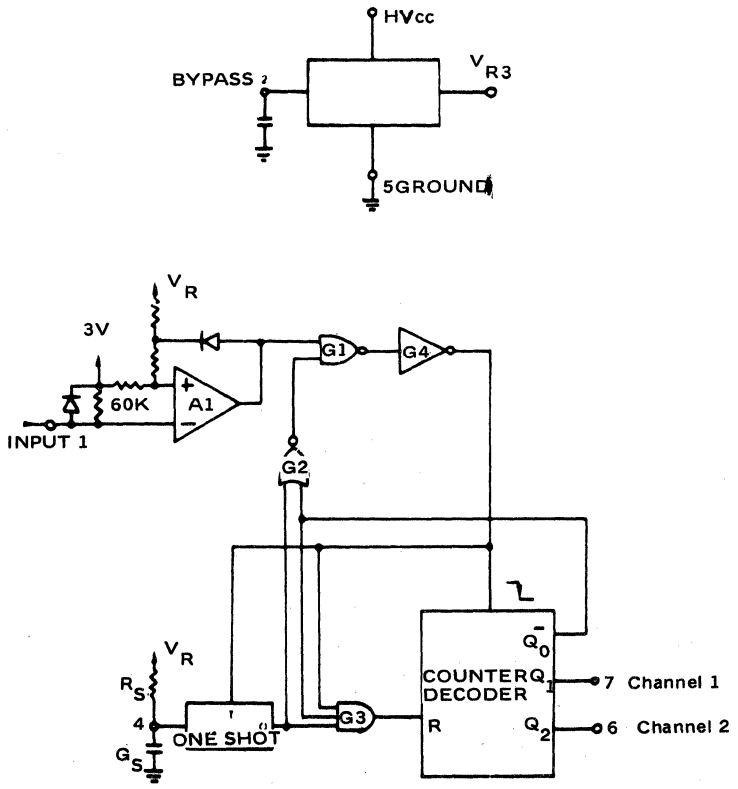


F02-125 BCD-to-Decimal Decoder



NC = No Internal Connection

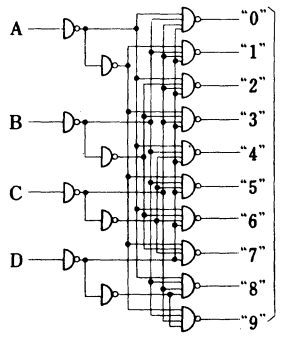
F01-70 2 Channel RC Decoder



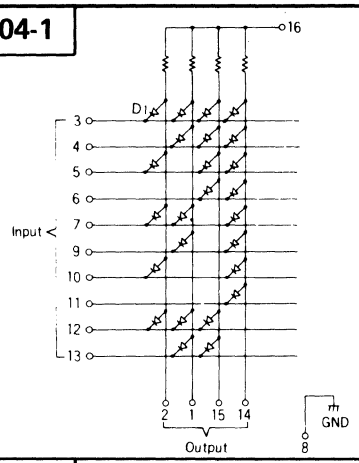
Vcc = Pin 16
GND = Pin 8

29. CIRCUIT DRAWINGS

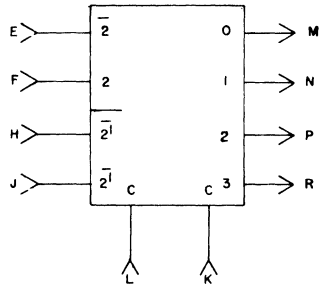
F02-122 BCD to Decimal Decoder



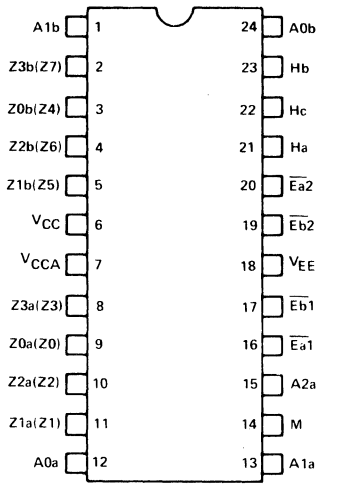
F04-1

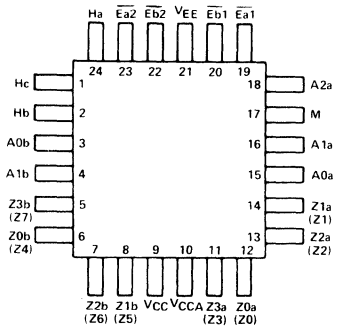


F17-6

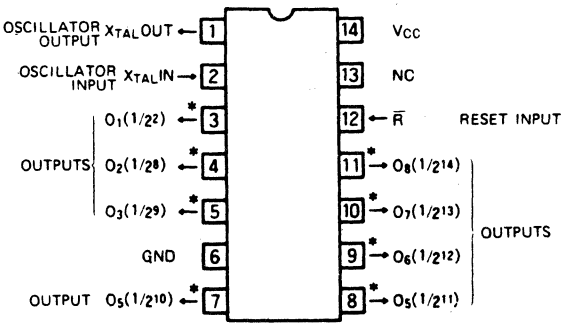


F19-1 Universal Demux/Decode





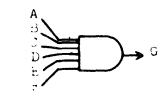
H03-107 14-Stage Divider/Oscillator

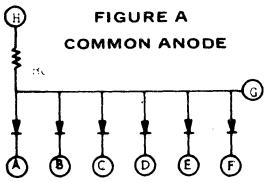


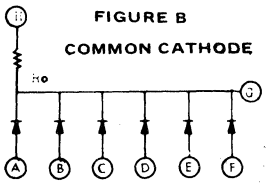
NC : NO CONNECTION
* : OPEN COLLECTOR

29. CIRCUIT DRAWINGS

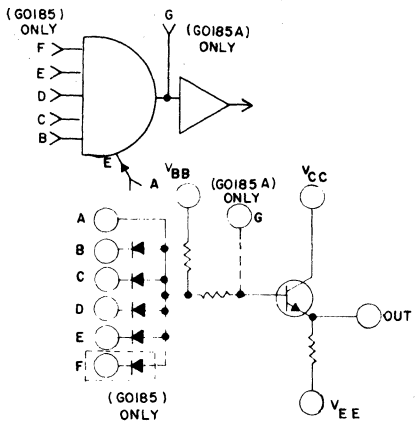
G01-3







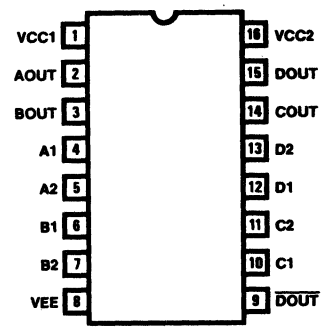
G01-85

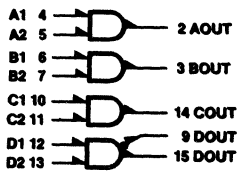


PIN CONNECTIONS

	G0185	G0185A		G0185	G0185A
1	V_{EE}	OUT	11	C	V_{EE}
2	–	A	12	B	–
3	–	B	13	A	V_{CC}
4	–	C	14	–	V_{BB}
5	OUT	D	15	–	
6	–	E	16	–	
7	V_{CC}	G	17	V_{BB}	
8	F	–	18	–	
9	E	OUT	19	–	
10	D	–	20	–	

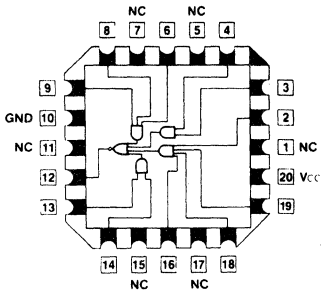
G01-320 Quad 2-Input AND Gate



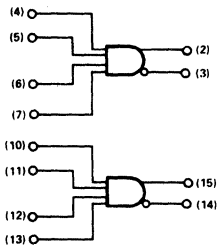


VCC1 = PIN 1
VCC2 = PIN 16
VEE = PIN 8

G01-318 4-2-3-2 Input AND/OR Invert Gate

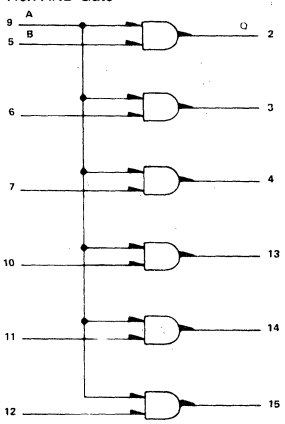


G01-265 Dual 4-Input AND/NAND Gate



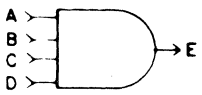
V_{CC1} = 1, V_{CC2} = 16, V_{EE} = 8
POSITIVE LOGIC: HIGH LEVEL "1"

G01-250 Hex AND Gate



V_{CC1} = Pin 1
V_{CC2} = Pin 16
V_{EE} = Pin 8

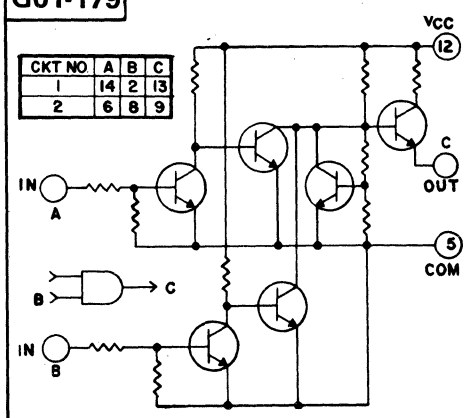
G01-177



	CKT NO	A	B	C	D	E
G01-177	1	1	2			14
	2	3	6			13
	3	7	8	9		10
G01-177A	1	1	2	3		14
	2	6				13
	3	7	8	9		10
G01-177B	1	14	1	2	3	13
	2	6	7	8	9	10

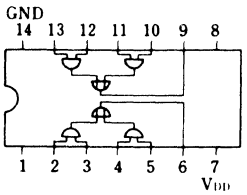
G01-179

CKT NO	A	B	C
1	14	2	13
2	6	8	9

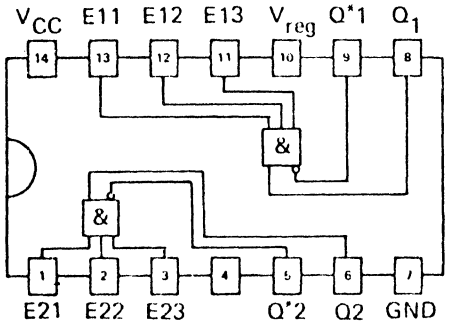


29. CIRCUIT DRAWINGS

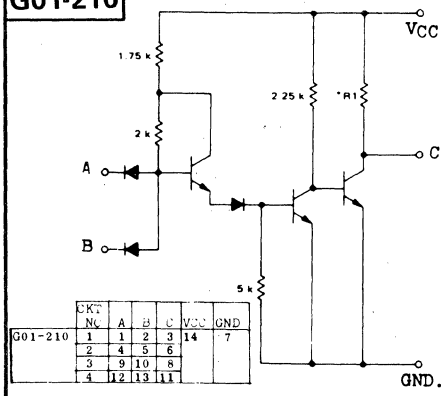
G01-274 Dual 2-Wide 2-Input AND-OR Gate



G01-287 Dual 3-Input AND/NAND Gate

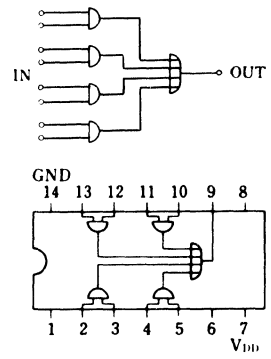


G01-210 Quad 2-Input AND Gate

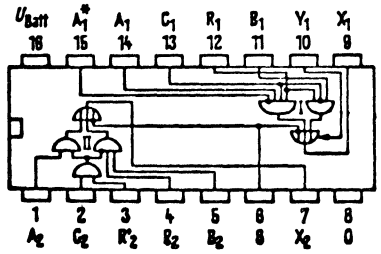


G01-210	CKT NO.	A	B	C	VCC	GND
	1	1	2	3	14	7
	2	4	5	6		
	3	9	10	8		
	4	12	13	11		

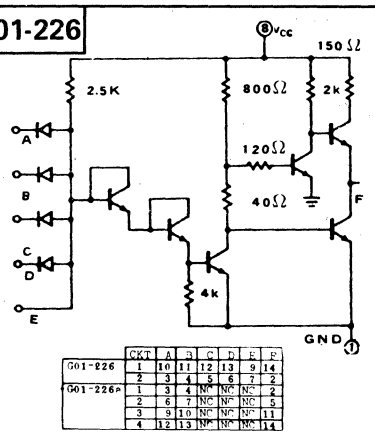
G01-275 Single 4-Wide 2-Input AND-OR Gate



G01-223 Dual AND/OR Gate with N-Input

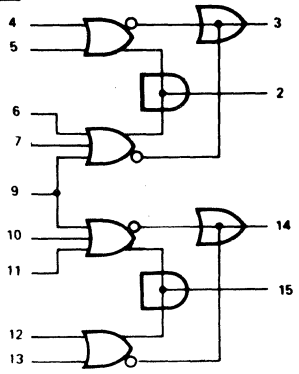


G01-226

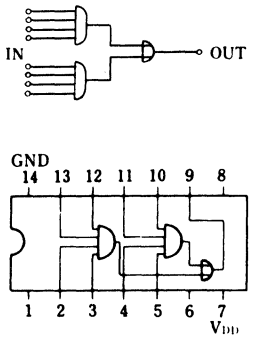


G01-226	CKT	A	B	C	D	E	F
	1	10	11	12	13	9	14
	2	3	4	5	6	7	2
*G01-226A	1	3	4	NC	NC	NC	2
	2	6	7	NC	NC	NC	5
	3	9	10	NC	NC	NC	11
	4	12	13	NC	NC	NC	14

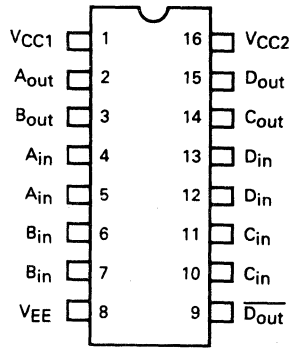
G01-229 Dual OR-AND/OR-AND-INVERT Gate



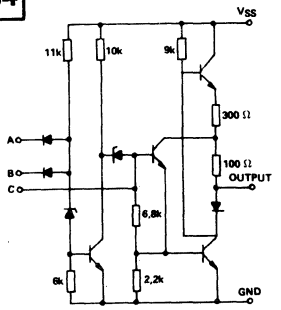
G01-276 Single 2-Wide 4-Input AND-OR Gate



G01-232 Quad 2 Input AND Gate

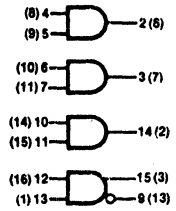


G01-234 Quad 2-Input AND Gate with Dual Enable



G01-234	CKT	A	B	C	OUTPUT	VSS	GND
	1	2	3	1	4	16	8
	2	5	6		7		
	3	10	11		9		
	4	13	14	15	12		

G01-283 Quad 2-Input AND Gate



VCC1 = Pin 1 (5)
VCC2 = Pin 16 (4)
VEE = 8 (12)
( ) = Flatpak

29. CIRCUIT DRAWINGS

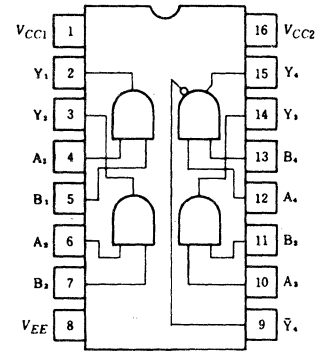
X00-28

Pin #1 Identifier	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A	GND	Z31	Z14	Z13	Z27	Z10	Z25	Z24	Z7	Z22	Z20	Z19	Z3	Z1	GND
B	S3	nc	VCC	Z15	Z29	Z12	Z11	Z9	Z6	Z21	Z4	Z18	Z17	VCC	Y0
C	GND	S2	Ready	nc	Z30	Z28	Z26	Z8	Z23	Z5	Z2	Z16	Z0	GND	Y17
D	OE	S0	VDD										VDD	Y16	Y18
E	U2	CSU	S1										Y1	Y2	Y4
F	F7	U0	U1										Y3	Y19	Y21
G	VDD	CLK	F6										Y5	Y20	Y6
H	F5	F4	GND				TOP VIEW						Y23	Y22	Y7
J	F3	F0	F1										Y8	Y25	Y24
K	F2	VDD	L4										Y26	Y10	Y9
L	L5	L2	L0										Y29	Y27	Y11
M	L3	nc	nc										Y15	Y13	Y12
N	L1	GND	X31	X15	X29	X26	X8	X23	X5	X3	X1	VDD	Y31	Y14	Y28
P	CSL	nc	X14	X13	X27	X10	X25	X22	X20	X19	X2	X16	nc	nc	Y30
Q	GND	X30	X28	X12	X11	X9	X24	X7	X6	X21	X4	X18	X17	X0	GND

32-Bit Floating Point Multiplier/Divider

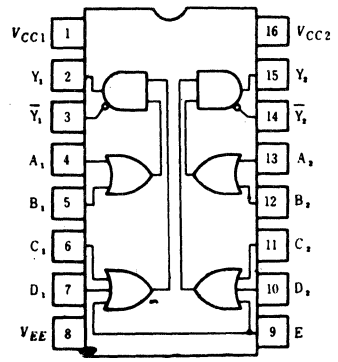
G01-299

Quad 2-Input AND Gate



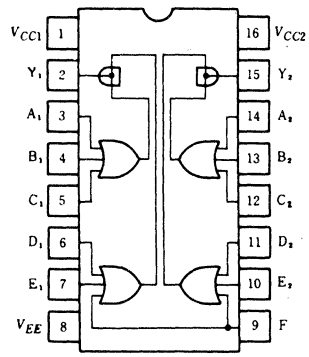
G01-300

Dual 2-Wide 2-3-Input OR-AND/OR-AND-INVERT Gates



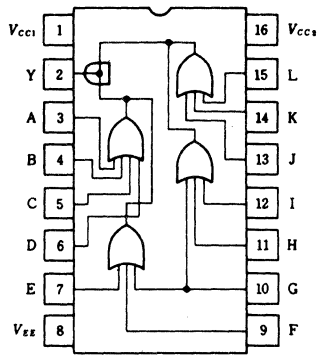
G01-301

Dual 2-Wide 3-Input OR-AND Gates



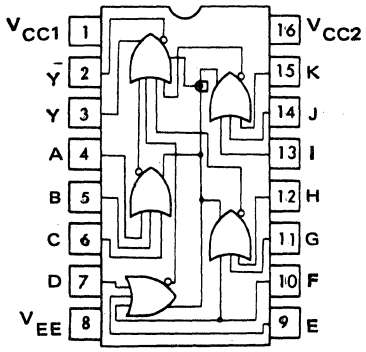
G01-302

4-Wide 4-3-3-3 Input OR-AND Gates



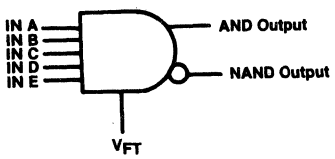
G01-303

4-Wide OR-AND/OR-AND-Invert Gate



G15-02

GaAs 5-Input NAND/AND Gate

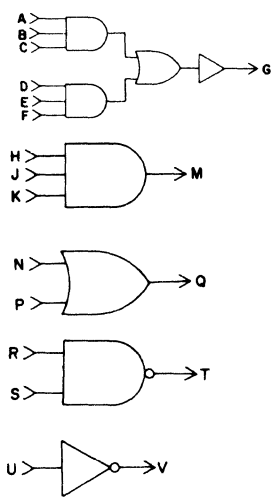


PIN NO.	SYMBOL	FUNCTION
1	GND	Ground (RF)
2	IN B	Input B
3	GND	Ground (RF)
4	IN A	Input A
5	V_{FT}	Voltage Freq. Tune
6	$-V_{SS}$	Supply Voltage
7	GND	Ground (DC)
8	$+V_{DD}$	Supply Voltage
9	AND Output	Output
10	Common	Common Output Connection*
11	NAND Output	Output
12	GND	Ground (RF)
13	IN E	Input E
14	IN D	Input D
15	GND	Ground (DC)
16	IN C	Input C

*Connect the common output connection to GND for ECL level outputs.

29. CIRCUIT DRAWINGS

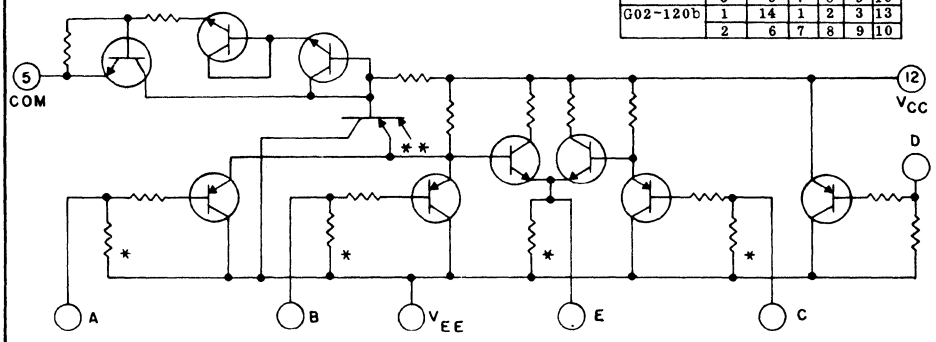
G02-105



CKT. NO.	A	B	C	D	E	F	G	H	J
1	42	43	44	45	46	47	35	17	15
2	36	37	38	39	40	41	34	12	11
3								1	2
4								3	4

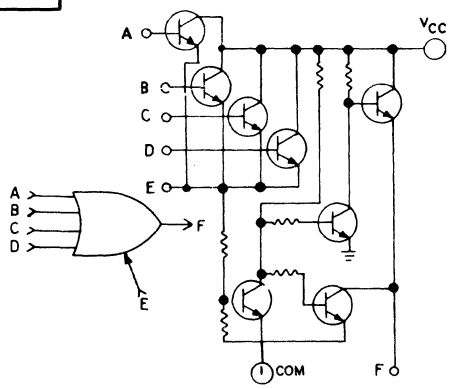
K	M	N	P	Q	R	S	T	U	V
14	9	27	28	31	19	20	22	25	23
10	8	29	30	33				26	24
	5							18	21
	7								

G02-120



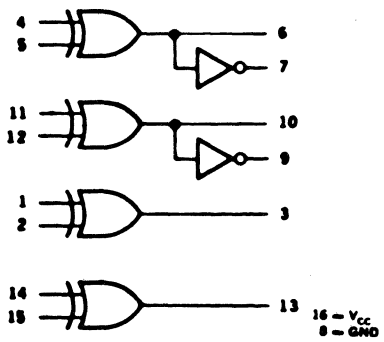
	CKT NO.	A	B	C	D	E
G02-120	1	1	2			14
	2	3	4			13
	3	6	7	8	9	10
G02-120b	1	14	1	2	3	13
	2	6	7	8	9	10

G02-78

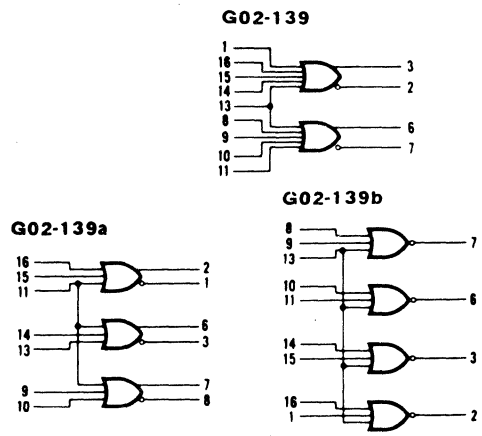


DRAW. NO.	CKT.	A	B	C	D	E	F	V_{CC}
G02-78	1	5	4			3	2	6
	2	7	8			9	10	
G02-78a	1	5	4	3			2	6
	2	7	8	9			10	
G02-78b	1	4	5	6	7	3	2	8
	2	9	10	11	12	13	14	
G02-78c	1	3	4	5			2	
	2	6	7	9			14	8
	3	10	11	12			13	
G02-78d	1	4	5			3	2	8
	2	6	7			9	14	
	3	11	12			10	13	
G02-78e	1	4	5				3	
	2	6	7				2	8
	3	9	10				14	
	4	11	12				13	

G02-132

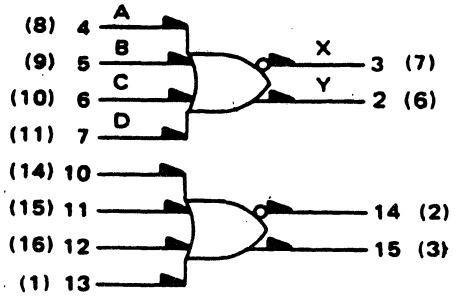


G02-139



G02-161

Dual 4-Input Gate

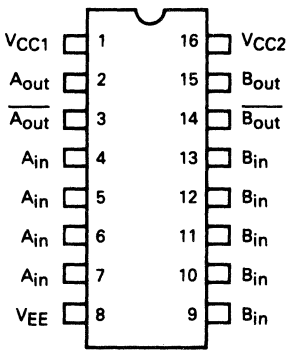


$$X = \overline{A + B + C + D}$$

$$Y = A + B + C + D$$

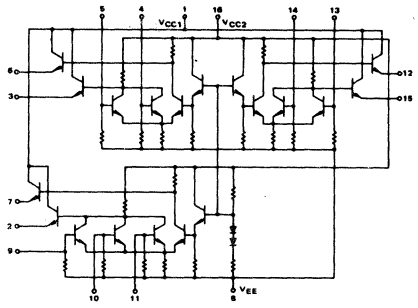
G02-162

Quad OR/NOR Gate

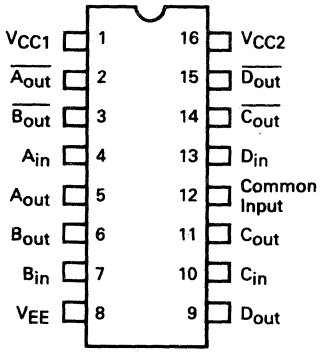


29. CIRCUIT DRAWINGS

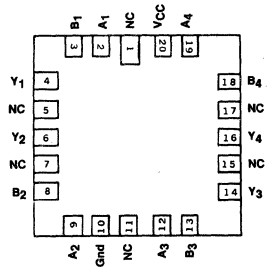
G02-163 Triple 2-3-2 Input Gate



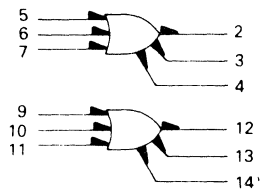
G02-164 Dual 4-5-Input OR/NOR Gate



G07-13 Quad 2-Input Exclusive NOR Gate w/Open Collector Outputs

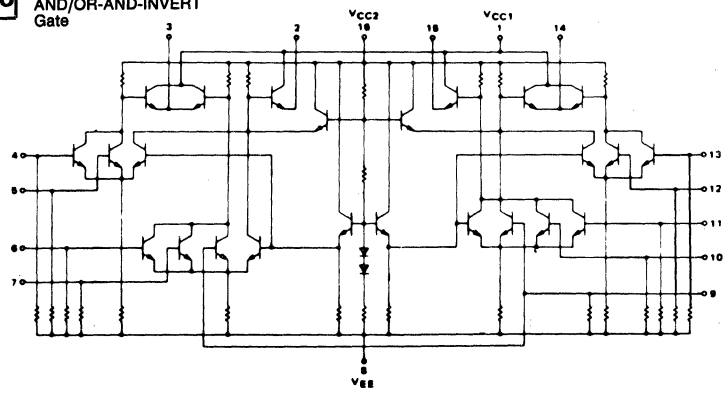


G02-165 Dual 3-Input 3-Output OR Gate

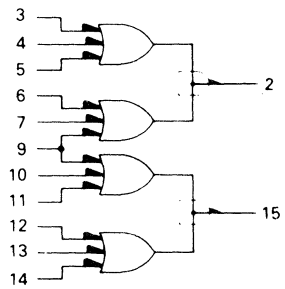


VCC1 = Pin 1, 15
VCC2 = Pin 16
VEE = Pin 8

GO2-166 Dual 2-Wide 2-3-Input OR-AND/OR-AND-INVERT Gate

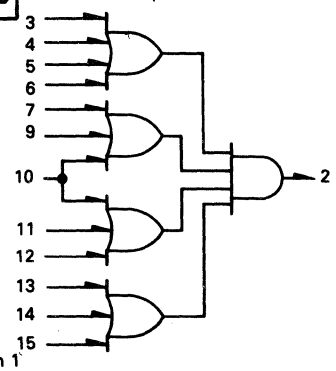


G02-167 Dual 2-Wide 3-Input OR-AND Gate



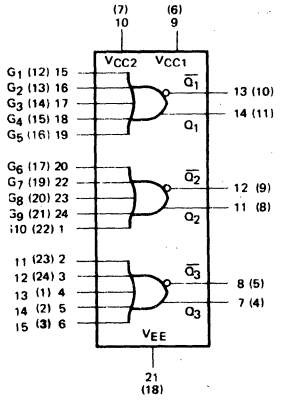
VCC1 = Pin 1
VCC2 = Pin 16
VEE = Pin 8

G02-168 4-Wide 4-3-3-3 Input OR-AND Gate

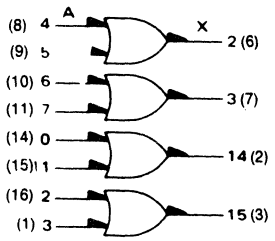


VCC1 = Pin 1
VCC2 = Pin 16
VEE = Pin 8

G17-04 Triple 5-Input OR/NOR Gate



G02-169 Quad 2-Input OR Gate



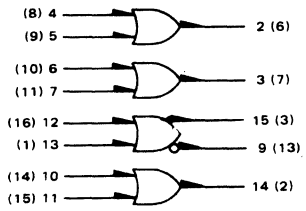
X = A + B
( ) = FLATPACK

VCC1 = Pin 1 (5)
VCC2 = Pin 16 (4)
VEE = Pin 8 (12)

Fig. 1 Logic diagram.
Pin numbers of SLIM DIP package are between brackets.

29. CIRCUIT DRAWINGS

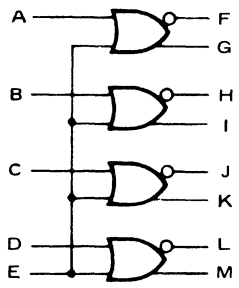
G02-199



V_{CC1} = Pin 1 (5)
V_{CC2} = Pin 16 (4)
V_{EE} = Pin 8 (12)
( ) = FLAT PACK

G02-178

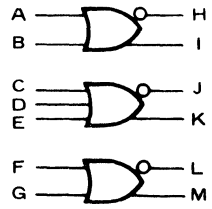
Quad OR/NOR Gate



	A	B	C	D	E	F	G	H	I	J	K	L	M
G02-178	4	7	10	13	12	2	5	3	6	14	11	15	9
G02-178a	9	10	14	15	11	7	8	5	6	3	2	1	16

G02-179

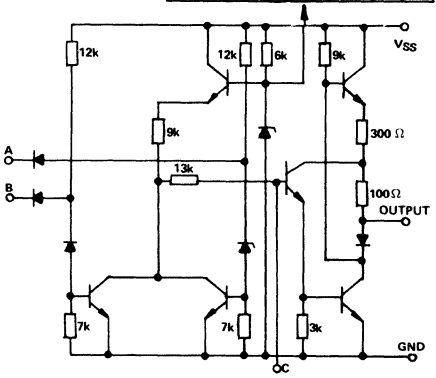
Triple 2-3-2 Input OR/NOR Gate



	A	B	C	D	E	F	G	H	I	J	K	L	M
G02-179	4	5	9	10	11	13	12	3	2	6	7	14	15
G02-179a	9	10	1	15	16	11	14	7	8	3	2	5	6

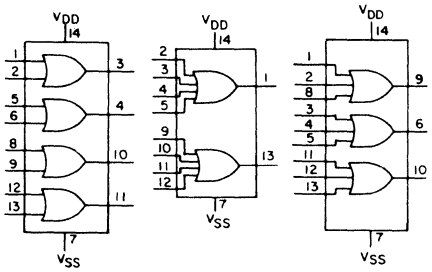
G02-188

G02-188	CKT	A	B	C	OUTP.	VSS	GND
	1	2	3	1	4	16	8
	2	5	6		7		
	3	10	11		9		
	4	13	14	15	12		



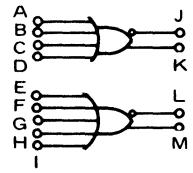
G02-193

G02-193 G02-193a G02-193b



G02-194

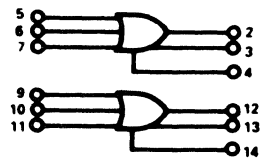
Dual 4-5-Input OR/NOR Gate



V_{CC1} = 1, V_{CC2} = 16, V_{EE} = 8
POSITIVE LOGIC: HIGH LEVEL = '1'

	A	B	C	D	E	F	G	H	I	J	K	L	M
G02-194	4	5	6	7	9	10	11	12	13	3	2	14	15
G02-194a	14	15	16	1	7	8	9	10	11	3	2	5	6

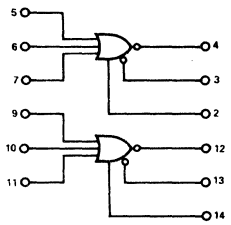
G02-195



V_{CC1} = 1, 15, V_{CC2} = 16, V_{EE} = 8
POSITIVE LOGIC: HIGH LEVEL = '1'

G02-196

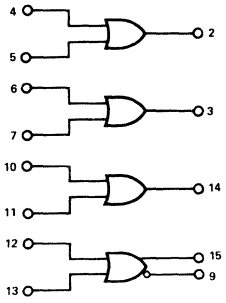
Dual 3-Input 1 OR/2 NOR Output Gate



V_{CC1} = 1, 15, V_{CC2} = 16, V_{EE} = 8
POSITIVE LOGIC: HIGH LEVEL = '1'

G02-197

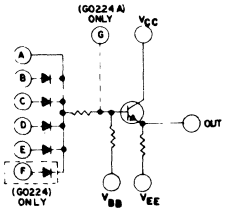
Quad 2-Input Gate (3 OR, 1 OR/NOR)



V_{CC1} = 1, V_{CC2} = 16, V_{EE} = 8
Positive Logic: High Level = "1"

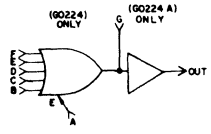
G02-24

Quad 2-Input OR Gate



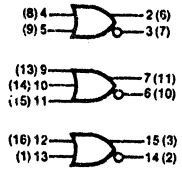
PIN CONNECTIONS

PIN	G0224	G0224A	PIN	G0224	G0224A
1	V_{EE}	OUT	11	C	V_{EE}
2	—	A	12	B	—
3	—	B	13	A	V_{CC}
4	—	C	14	—	—
5	OUT	D	15	—	
6	—	E	16	—	
7	VS+	G	17	V_{BB}	
8	F	—	18	—	
9	E	OUT	19	—	
10	D	V_{BB}	20	—	



29. CIRCUIT DRAWINGS

G02-24z
Triple 2-3-2-Input OR/NOR Gate



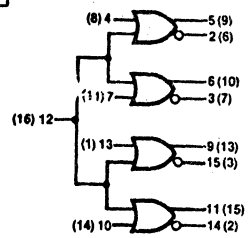
V_{CC1} = PIN 1 (5)

V_{CC2} = PIN 16 (4)

V_{EE} = PIN 8 (12)

( ) = FLATPACK

G02-205
Quad OR/NOR Gate



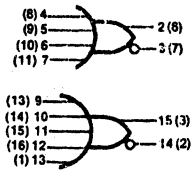
V_{CC1} = PIN 1 (5)

V_{CC2} = PIN 16 (4)

V_{EE} = PIN 8 (12)

( ) = FLATPACK

G02-206
Dual 4-5-Input OR/NOR Gate



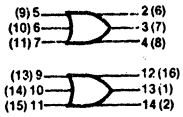
V_{CC1} = PIN 1 (5)

V_{CC2} = PIN 16 (4)

V_{EE} = PIN 8 (12)

( ) = FLATPACK

G02-207
Dual 3-Input 3-Output OR Gate



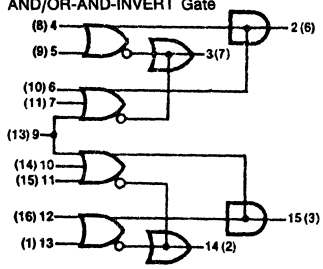
V_{CC1} = 1,15 (5,3)

V_{CC2} = 16 (4)

V_{EE} = 8 (12)

( ) = FLATPACK

G02-208
Dual 2-Wide 2-3-Input OR-AND/OR-AND-INVERT Gate



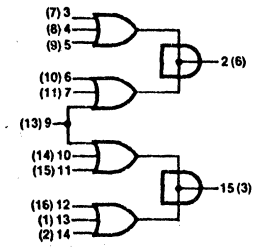
V_{CC1} = PIN 1 (5)

V_{CC2} = PIN 16 (4)

V_{EE} = PIN 8 (12)

( ) = FLATPACK

G02-209
Dual 2-Wide 3-Input OR-AND Gate



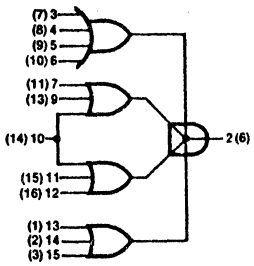
V_{CC1} = PIN 1 (5)

V_{CC2} = PIN 16 (4)

V_{EE} = PIN 8 (12)

( ) = FLATPACK

G02-210
4-Wide 4-3-3-3-Input OR/AND Gate



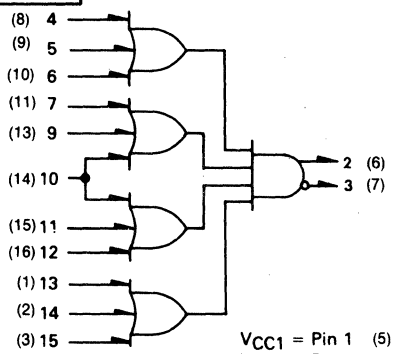
V_{CC1} = PIN 1(5)

V_{CC2} = PIN 16 (4)

V_{EE} = PIN 8 (12)

( ) = FLATPACK

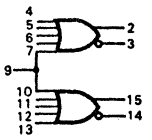
G02-211
4-Wide OR-AND/OR-AND-INVERT Gate



V_{CC1} = Pin 1 (5)
V_{CC2} = Pin 16 (4)
V_{EE} = Pin 8 (12)

( ) = FLATPACK

G02-212
Dual 5-Input OR/NOR Gate

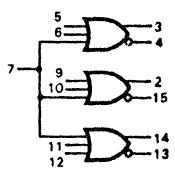


V_{CC1} = 1

V_{CC2} = 16

V_{EE} = 8

G02-213
Triple 3-Input OR/NOR Gate

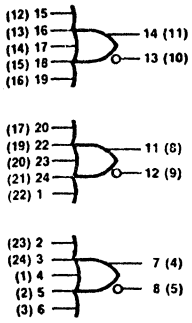


V_{CC1} = 1

V_{CC2} = 16

V_{EE} = 8

G02-214
Triple 5-Input OR/NOR Gate



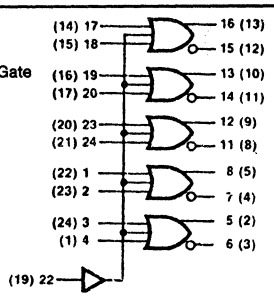
V_{CC} = PIN 9 (6)

V_{CCA} = PIN 10 (7)

V_{EE} = PIN 21 (18)

( ) = DUAL IN LINE

G02-215
Quint 2-Input OR/NOR Gate with Enable



V_{CC} = PIN 9 (6)

V_{CCA} = PIN 10 (7)

V_{EE} = PIN 21 (18)

( ) = DUAL IN LINE

29. CIRCUIT DRAWINGS

G02-216

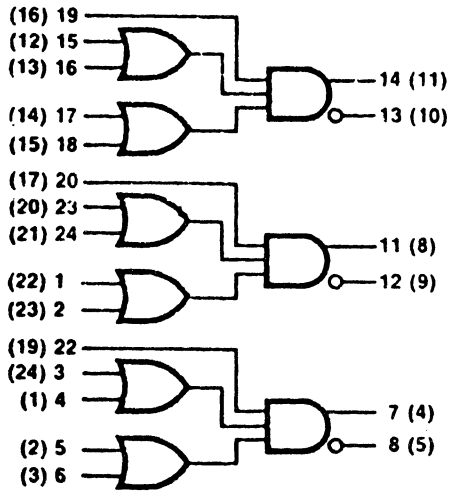
Triple 2-Wide OR-AND/OR-AND-INVERT Gate

V_{CC} = Pin 9(6)

V_{CCA} = Pin 10(7)

V_{EE} = Pin 21(8)

()= DUAL IN LINE



G02-217

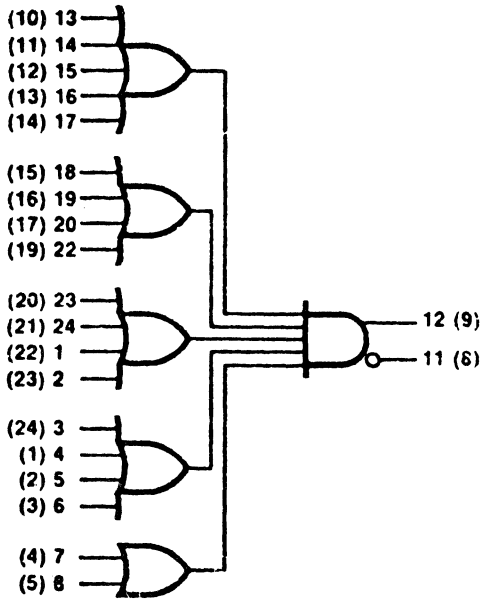
5-Wide 5,4,4,4,2 OR-AND/OR-AND-INVERT Gate

V_{CC} = Pin 9(6)

V_{CCA} = Pin 10(7)

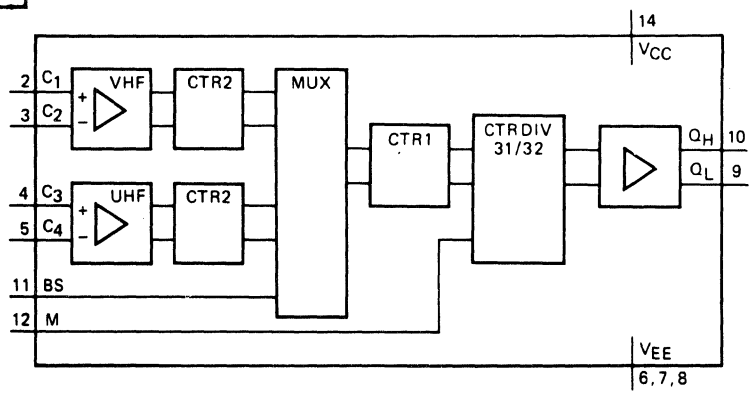
V_{EE} = Pin 21(18)

( ) @ DUAL IN LINE



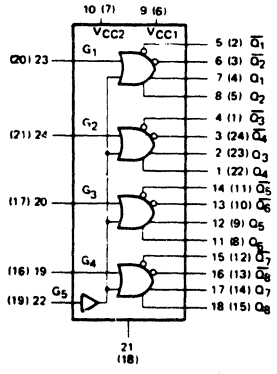
H02-16

1.0GHz Divide x 248/256



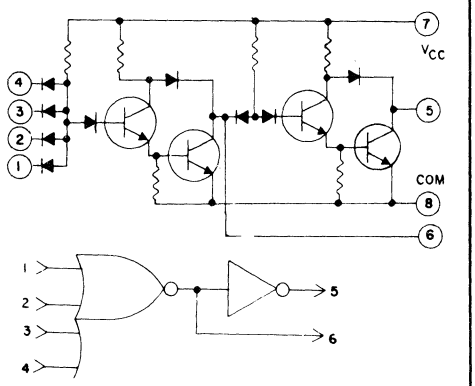
G02-230

Pin connections for flat pack and in ( ) for SLIM DIP packages.

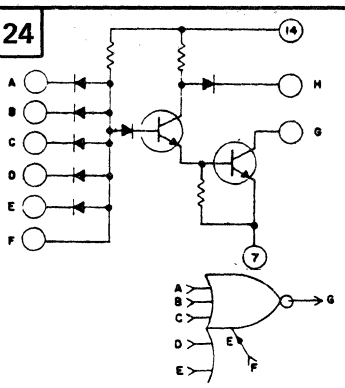


29. CIRCUIT DRAWINGS

G03-122 4-Input NOR/OR Gate

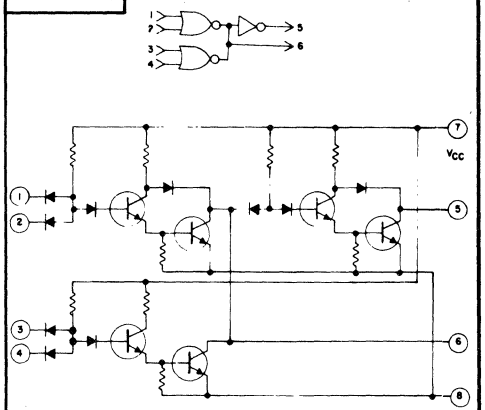


G03-124

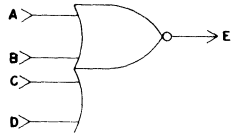


CKT NO	A	B	C	D	E	F	G	H
1	1	2	4	5	6	3	8	9
2	12	13	NC	NC	NC	NC	10	11

G03-126



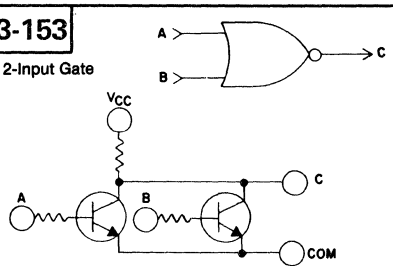
G03-131



	CKT NO	A	B	C	D	E
G03-131	1	E	P			D
	2	J	K			H
	3	M	N	P		L
	4	S	T	U	V	R
G03-131a	1	47	45	44		50
	2	43	42	41		46
	3	40	39	38		36
	4	37	31	33		34
	5	29	28	27		35
	6	26	25	24		30
	7	23	22	14		20
	8	13	12	11		18
	9	10	9	8		17
	10	7	6	5		15
	11	19	21	NC		1
	12	4	2	NC		3
G03-131b	1	1	2	3		4
	2	6	7	8		9
G03-131c	1	16	14			15
	2	13	10			12
	3	8	6			7
	4	4	2			3
G03-131d	1	1	2	3		4
	2	5	6	8		9
	3	11	12	13		10
G03-131e	1	2	3	4	5	1
	2	9	10	11	12	13
G03-131f	1	3	4	5		6
	2	1	2	8		9
	3	11	12	13		10
G03-131g	1	2	3			1
	2	5	6	7		4
	3	10	11			9
	4	13	14	15		12

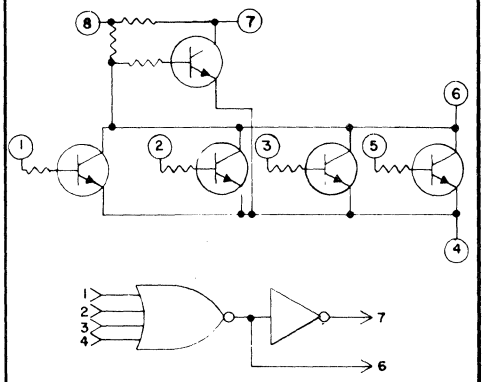
G03-153

Dual 2-Input Gate

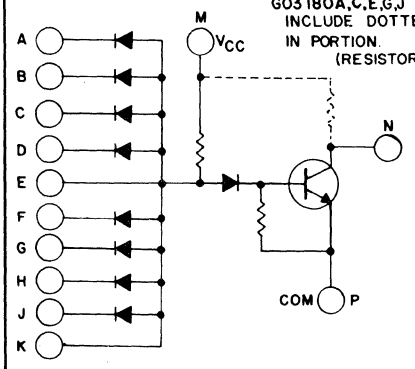


	CKT NO	A	B	C	COM	VCC	PKG STYLE
G03153	1	1	2	7	4	8	CN
	2	3	5	6			
G03153A	1	1	2	3	7	14	FP
	2	4	5	6			
	3	9	10	8			
	4	12	13	11			

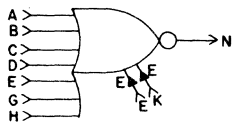
G03-154



G03-180

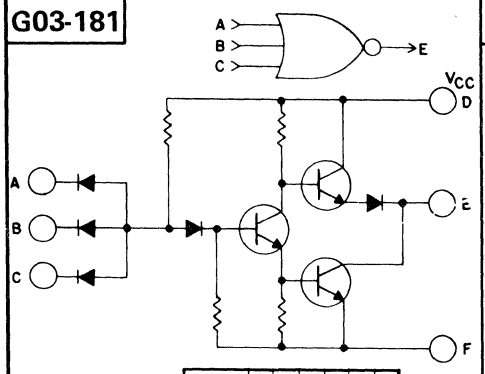


G03 180A,C,E,G,J INCLUDE DOTTED IN PORTION. (RESISTOR)



	CKT NO	A	B	C	D	E	F	G	H	J	K	M	N	P
G03 180,A	1	2	3	4	5	6	9	10	11	12	13	7	1	14
G03 180B,C	1	9	10	11	12	13	NC					7	1	14
	2	2	3	4	5	6							8	
G03 180D,E	1	12	13			1	NC					7	2	14
	2	3	4	5									11	
	3	8	9	10									6	
G03 180F,G	1	12	13	1	NC							7	2	14
	2	3	4	5									11	
	3	8	9	10									6	
G03 180H,J	1	13	12	NC								7	1	14
	2	5	6										8	
	3	2	3										11	
	4	9	10										4	

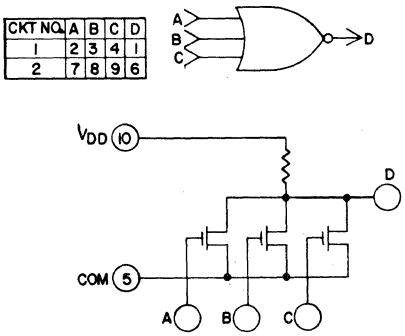
G03-181



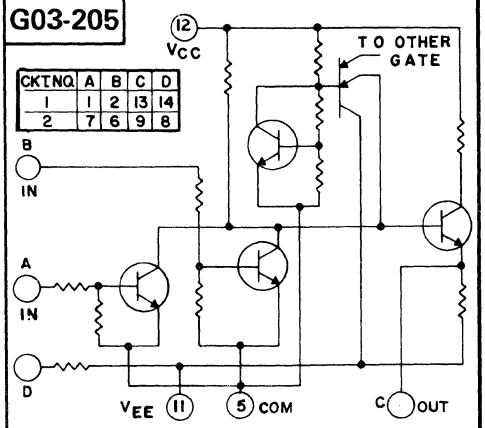
	CKT NO	A	B	C	D	E	F
G03 181	1	9	10	11	7	12	14
	2	4	5	6	7	3	14

G03-202 Dual 3-Input NOR Gate

CKT NO	A	B	C	D
1	2	3	4	1
2	7	8	9	6



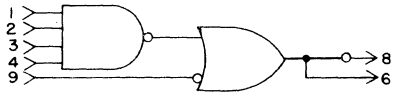
G03-205



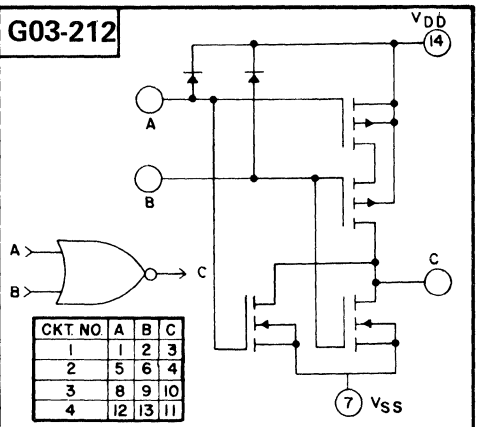
CKT NO	A	B	C	D
1	1	2	13	14
2	7	6	9	8

29. CIRCUIT DRAWINGS

G03-210



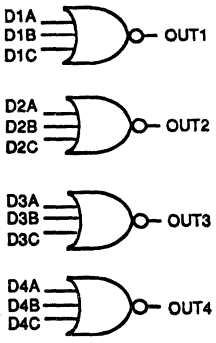
G03-212



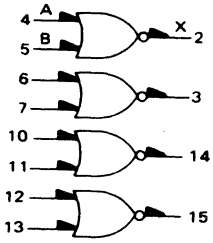
CKT NO	A	B	C
1	1	2	3
2	5	6	4
3	8	9	10
4	12	13	11

G03-212a — DELETE DIODES AND CONNECTIONS

G03-350 Quad 3-Input NOR Gate



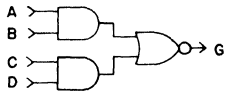
GO3-335 Quad 2-Input NOR Gate



V_{CC1} = Pin 1
V_{CC2} = Pin 16
V_{EE} = Pin 8

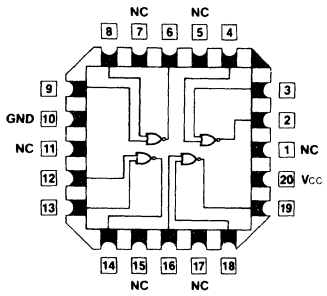
$X = \overline{A + B}$

G03-218

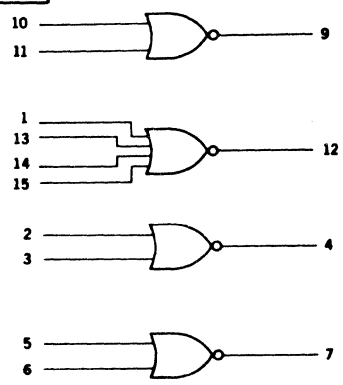


	PKG.	CKT.	A	B	C	D	E	F	G	V_{CC}	COM
G03-218	MP	1	1	13	10	9	12	11	8	14	7
		2	2	3	4	5			6		
G03-218a	FP	1	3	5	13	14	2	1	12		
		2	6	7	8	9			10	4	11
G03-218b	FP	1	14	13	2	3			12		
		2	5	6	8	9			10	4	11
	MP	1	1	2	4	5			6		
		2	9	10	12	13			8	14	7
G03-218c	FP	1	3	5	6				2		
		2	7	8	9				10	4	11
		3	1	13	14				12		
	MP	1	1	2	13				12		
		2	3	4	5				6	14	7
		3	9	10	11				8		
G03-218d	FP	1	2	3					1		
		2	5	6					7		
		3	8	9					10		
		4	13	14					12	4	11
	MP	1	1	2					3		
		2	4	5					6	14	7
		3	9	10					8		
		4	12	13					11		

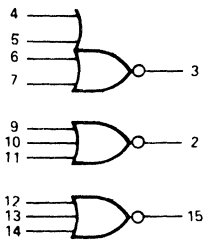
G03-336 Quad 2-Input NOR Gate



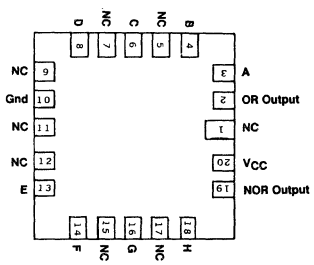
GO3-237 Quad 2-2-2-4-Input NDR Gate



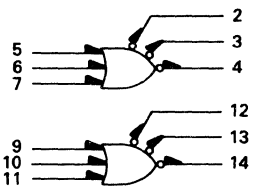
G03-271 Triple NOR Gate



G03-340 8-Input NOR/OR Gate

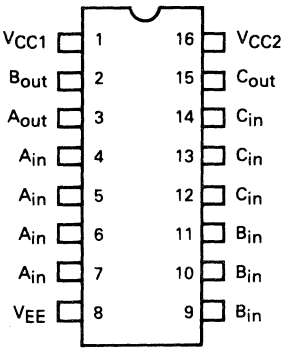


G03-263 Dual 3-Input 3-Output NOR Gate



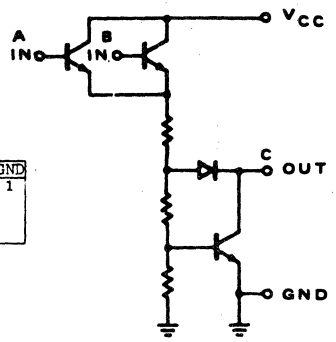
V_{CC1} = Pin 1, 15
V_{CC2} = Pin 16
V_{EE} = Pin 8

G03-265 Triple 4-3-3 Input NOR Gate



29. CIRCUIT DRAWINGS

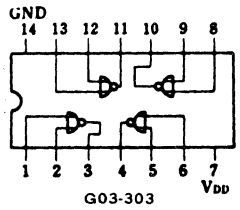
G03-270



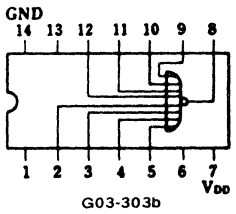
	CKT	A	B	C	VCC	GND
G03-270	1	4	5	3	8	1
	2	6	7	2		
	3	9	10	14		
	4	11	12	13		

G03-303

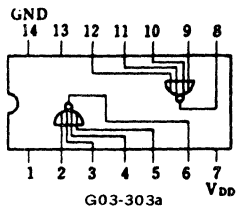
G03-303: Quad 2-Input NOR Gate



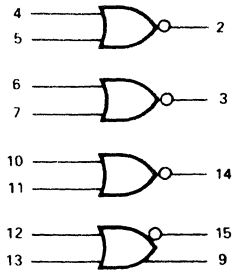
G03-303a: Dual 4-Input NOR Gate



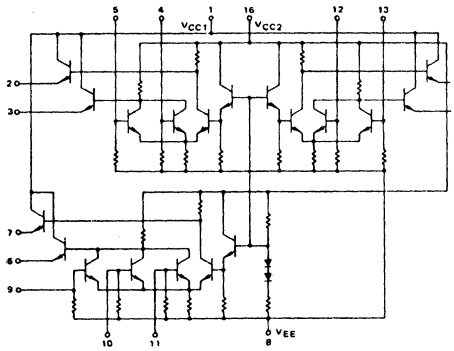
G03-303b: 8-Input NOR Gate



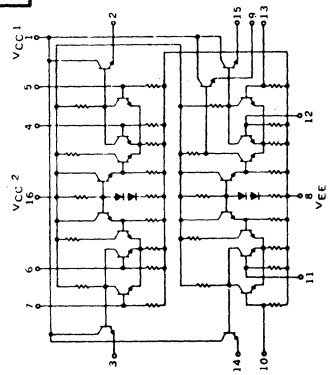
G03-272 Quad 2-Input NOR Gate



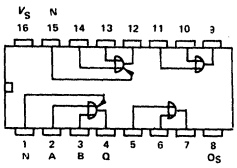
G03-279 Triple 2-3-2-Input OR/NOR Gate



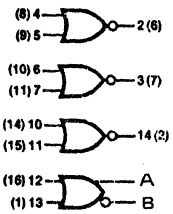
G03-277 Quad 2-Input NOR Gate



G03-280 Quad NOR Gate



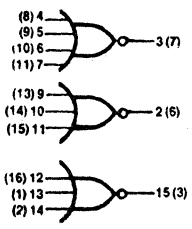
G03-310 Quad 2-Input NOR Gate



VCC1 = PIN 1 (5)
VCC2 = PIN 16 (4)
VEE = PIN 8 (12)
( ) = FLATPACK

G03-310 : A= 9 (13)
B=15 (3)
G03-310a: A=15 (3)
B= 9 (13)

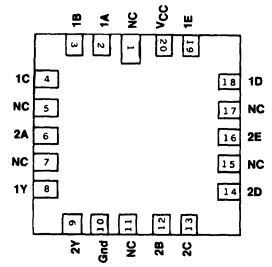
G03-311 Triple 4-3-3-Input NOR Gate



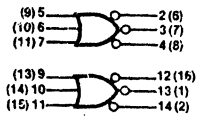
VCC1 = PIN 1 (5)
VCC2 = PIN 16 (4)
VEE = PIN 8 (12)
( ) = FLATPACK

29. CIRCUIT DRAWINGS

G03-339 Dual 5-Input NOR Gates

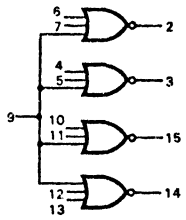


G03-313 Dual 3-Input 3-Output NOR Gate



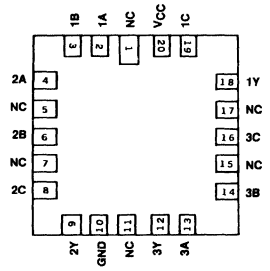
$V_{CC}1$ = 1, 15 (5,3)
$V_{CC}2$ = 16 (4)
V_{EE} = 8 (12)
( ) = FLATPACK

G03-314 Quad 2-Input NOR Gate with Strobe

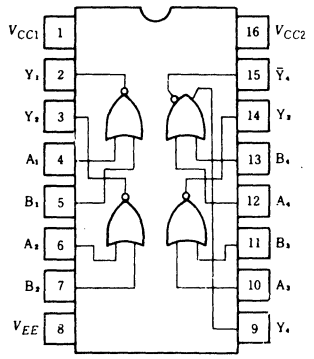


$V_{CC}1$ = 1
$V_{CC}2$ = 16
V_{EE} = 8

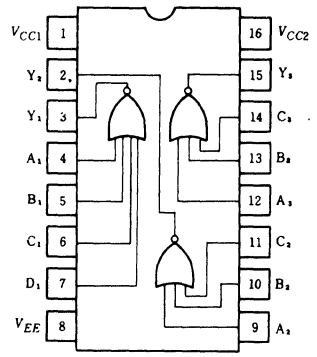
G04-551 Triple 3-Input Positive-NAND Gates



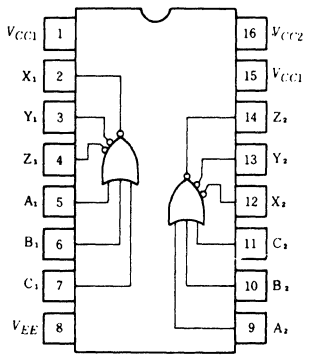
G03-322 Quad 2-Input NOR Gate



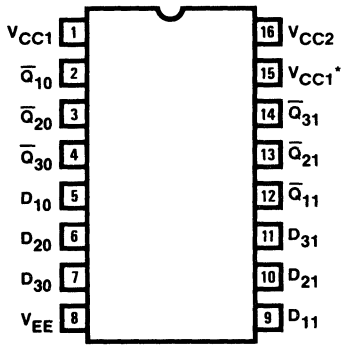
G03-323 Triple 3-3-4-Input NOR Gate



G03-324 Dual 3-Input 3-Output NOR Gate

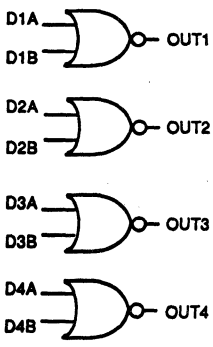


G03-334 3-Input 3-Output NOR Gate



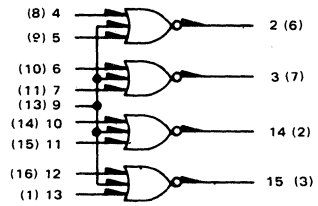
*Pins 1 and 15 interally connected

G03-352 Quad 2-Input NOR Gate



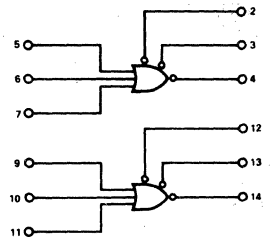
29. CIRCUIT DRAWINGS

G03-293 Quad 2-Input NOR Gate with Strobe



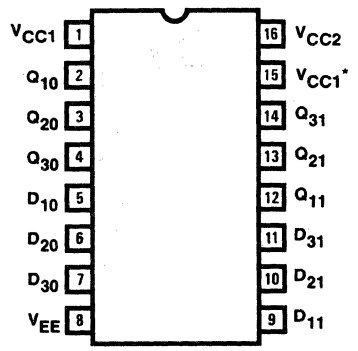
V_{CC1} = Pin 1 (5)
V_{CC2} = Pin 16 (4)
V_{EE} = Pin 8 (12)
( ) = FLAT PACK

G03-294 Dual 3-Input 3-Output NOR Gate



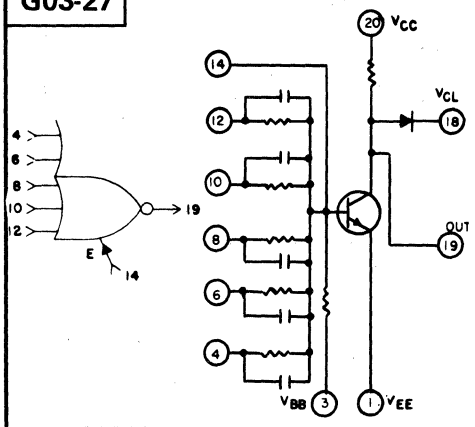
V_{CC1} = 1, 15, V_{CC2} = 16, V_{EE} = 8

G02-237 3-Input 3-Output OR Gate

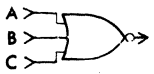


* Pins 1 and 15 internally connected

G03-27

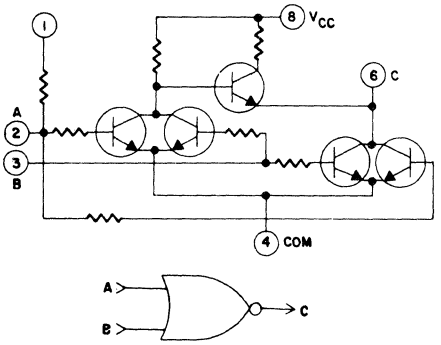


G03-29 Dual 3-Input NOR Gate

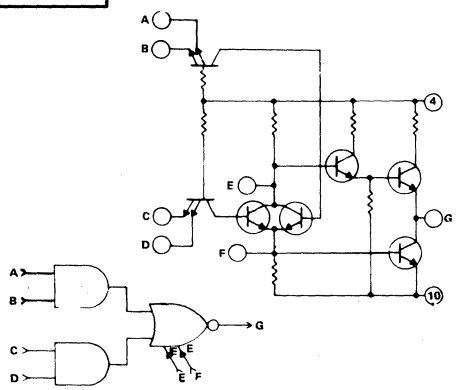


CKT NO	A	B	C	D
1	9	8	7	10
2	5	4	3	2

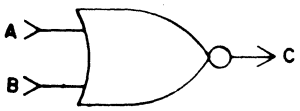
G03-36



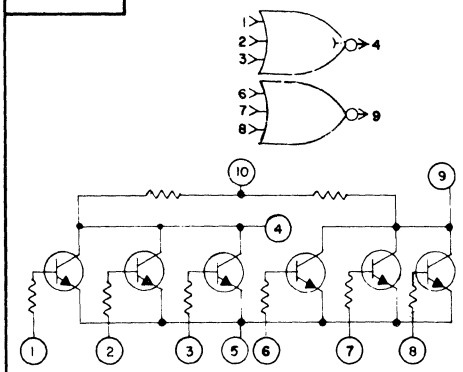
G03-58



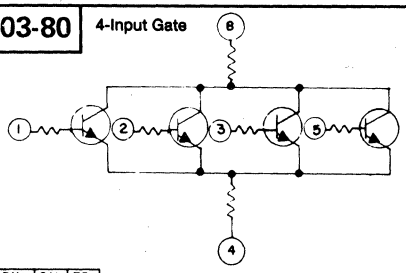
G03-66 Quad 2-Input NOR Gate



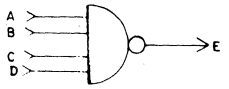
G03-77 Dual 3-Input Gate



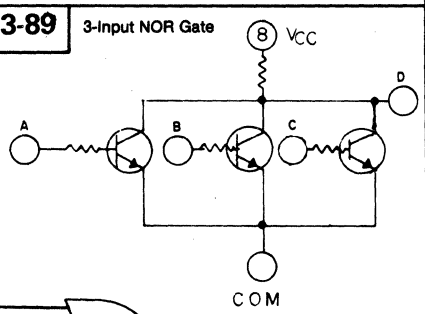
G03-80 4-Input Gate

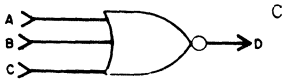


PIN	CN	FP
1	A	
2	B	
3	C	
4	COM	
5	D	
6	E	
7		
8	VCC	



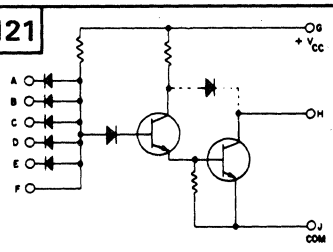
G03-89 3-Input NOR Gate

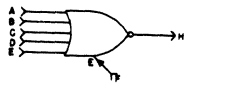




A	B	C	D	COM	VCC	PKG STYLE
2	3	4	8	5	10	FP
1	2	3	6	4	8	CN

G03-121



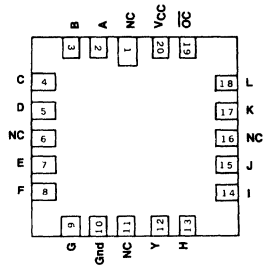


	CKT. NO	A	B	C	D	E	F	G	H	J
G03-121,A	1	2	1	NC				7	6	8
	2	5	4					7	3	8
G03-121B,C	1	5	4	3	2	NC	1	7	6	8
G03-121D,E	1	5	4	3	2	1	NC	7	6	8

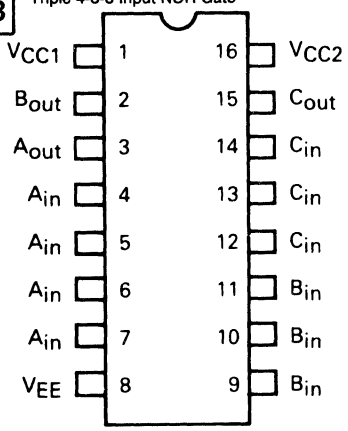
NOTE: G03121A,C & E INCLUDE DOTTED IN PORTION (DIODE).

29. CIRCUIT DRAWINGS

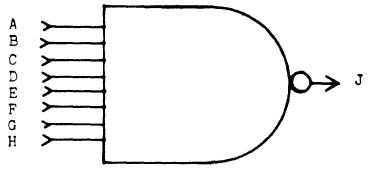
G04-552 12-Input Positive-NAND Gate



G03-328 Triple 4-3-3 Input NOR Gate



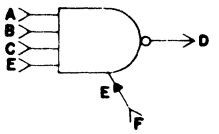
G04-3



	CKT. No.	A	B	C	D	E	F	G	H	J	VCC	GND
G04-3m	1	44	46							49	51	1,52
	2	48	47							50	51	1,52
	3	39	42	43						43	51	1,52
	4	40	45							41	51	1,52
	5	32	34							37	51	1,52
	6	36	35							38	51	1,52
	7	27	30							31	51	1,52
	8	28	33							29	51	1,52
	9	20	22							25	51	1,52
	10	24	23							26	51	1,52
	11	15	18							19	51	1,52
	12	16	21							17	51	1,52
	13	8	10							13	51	1,52
	14	12	11							14	51	1,52
	15	3	6							7	51	1,52
	16	4	9							5	51	1,52
G04-3aw	1	2	3	4	5					1	14	7
	2	9	10	11	12					13	14	7
G04-3ax	1	1	2							3	14	7
	2	5	6							4	14	7
	3	8	9							10	14	7
	4	12	13							11	14	7
G04-3ba	1	1	2	3	4	10	11	12	13	8	14	7
G04-3bb	1	1	2	3	4	5				6	14	7
	2	8	9	10	11	12				13	14	7

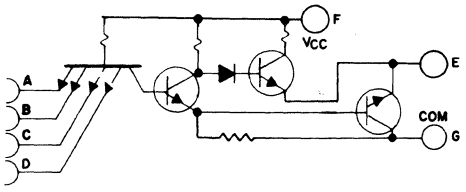
G04-3aw: Dual 4-Input
G04-3ax: Quad 2-Input
G04-3ba: 8-Input
G04-3bb: Dual 5-Input

G04-70



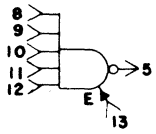
CKT NO	PACKAGE	A	B	C	D	E	F	VAA	COM
1	MP	2	3	4	1	5	6	7	14
2		12	11	10	13	9	8	7	14

G04-71 Dual 4-Input NAND Gate

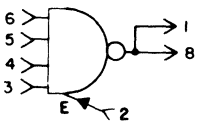


	CKT NO	A	B	C	D	E	F	G
G0471	1	1	2	3	13	12	4	10
	2	5	6	7	9	11		

G04-80

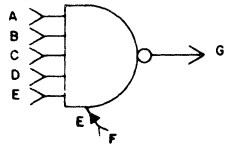


G04-81



29. CIRCUIT DRAWINGS

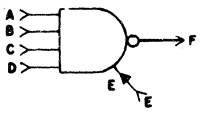
G04-89



	CKT NO	A	B	C	D	E	F	G	V_{CC}	COM
G04-89	1	6	7	8	9	NC	5	10	4	11
	2	1	2	13	14	NC	3	12		
G04-89a, d	1	3	5	6				2	4	11
	2	7	8	9		NC		10		
	3	1	13	14				12		
G04-89b, c	1	2	3					1	4	11
	2	5	6			NC		7		
	3	8	9					10		
	4	13	14					12		
G04-89e	1	3	5				6	2	4	11
	2	8	9		NC		7	10		
	3	13	14				1	12		
G04-89f	1	5	6	7	8	9	NC	10	4	11
	2	1	2	3	13	14	NC	12		
G04-89g	1	3	4					2	8	1
	2	6	7			NC		5		
	3	12	13					14		
	4	10	9					11		
G04-89h	1	3	4	5				2	8	1
	2	7	9	10		NC		6		
	3	11	12	13				14		
G04-89j	1	3	4	5	6	NC	7	2	8	1
	2	13	12	11	10	NC	9	14		
G04-89k	1	13	12	11	10	9	NC	8	14	7
	2	1	2	3	4	5	NC	6		
G04-89m	1	3						2	8	1
	2	5						4		
	3	7						6		
	4	9						10		
	5	11						12		
	6	13						14		

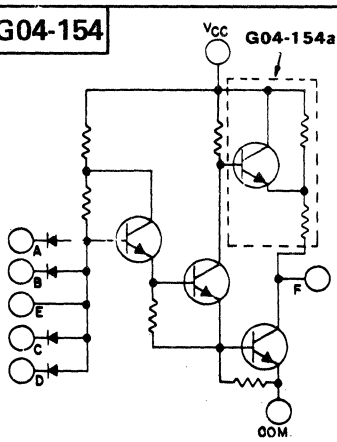
G04-92

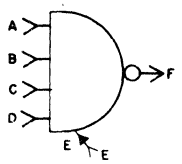
Dual 4-Input Expandable NAND Gate



	CKT. NO.	A	B	C	D	E	F	V_{AA}	COM	OUTLINE
G04-92	1	1	2	3	NC	NC	4	10	5	CN
	2	9	8	NC	NC	7	6	10	5	
	1	1	2	4	5	3	6	14	7	FP & MP
	2	13	12	10	9	11	8	14	7	
G04-92a	1	1	2				3	14	7	FP & MP
	2	4	5		NC		6	14	7	
	3	9	10				8	14	7	
	4	12	13				11	14	7	
G04-92b	1	2	3				4	10	5	CN
	2	7	8				6	10	5	
	3	1					9	10	5	
	1	3	4	5			6	14	7	FP & MP
	2	9	10	11			8	14	7	
	3	2	1	13			12	14	7	
G04-92c	1	1	2				3	12	6	CN
	2	4					5	12	6	
	3	11	10				9	12	6	
	4	8					7	12	6	
G04-92d	1	1	2				3	14	7	FP
	2	4	5				6	14	7	
	3	9	10				8	14	7	
	4	12	13				11	14	7	
G04-92e	1	1	2	3	4		5	12	6	CN
	2	11	9	8		10	7	12	6	
G04-92f	1	1	2				3	12	6	CN
	2	4	5				6	12	6	
	3	10	9	8			7	12	6	
G04-92g	1	1	2	3	4		5	12	6	CN
	2	11	10	9	8		7	12	6	
G04-92h	1	1	2				3	14	7	FP
	2	4	5				6	14	7	
	3	12	13				8	14	7	
G04-92j	1	1	2	3	4		5	14	7	FP
	2	11	9	8		10	7	14	7	
	3	13	12	10	9	11	8	14	7	
G04-92k	1	1	2				3	14	7	FP
	2	4	5				6	14	7	
	3	10	9				8	14	7	
	4	13	12				11	14	7	
G04-92h	1	1	2	3			13	14	10	FP
	2	4	5	6			7	14	10	
	3	12	11	9			8	14	10	
G04-92j	1	13	1	2			12	14	7	FP
	2	3	4	5			6	14	7	
	3	9	10	11			8	14	7	

G04-154



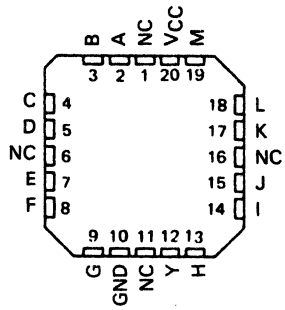


	CKT TERM	A	B	C	D	E	F	VCC	COM	PKG
G04-154 OR G04-154a	1	1	2	3	4		5	12	6	CN, FP
	2	11	10	9	8		7			
	1	1	2	4	5	3	6	14	7	OR MP
	2	13	12	10	9	11	8			
G04-154b OR G04-154c	1	1	2	3			4	10	5	CN, FP OR MP
	2	8	9			7	6			
	1	1	2	4	5	3	6	14	7	
	2	9	10	12	13	11	8			
G04-154d	1	1	2	4	5	3	6	14	7	FP MP
	2	9	10	12	13	11	8			
G04-154e OR G04-154f	1	1	2				3	14	7	
	2	5	6				4			
	3	8	9				10			
	4	12	13				11			

G04-548

13-Input NAND Gate

(TOP VIEW)



NC—No internal connection

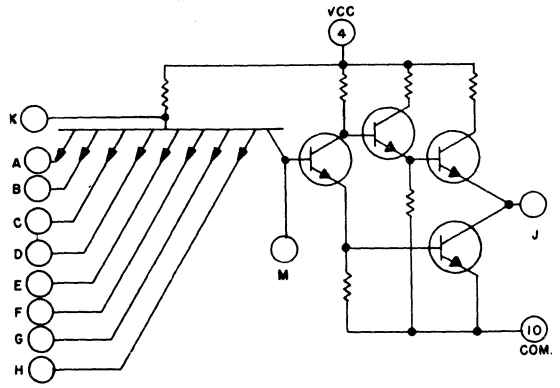
G04-240

G04-240: Dual 4-Input

G04-240a: 8-Input

G04-240b: Quad 2-Input

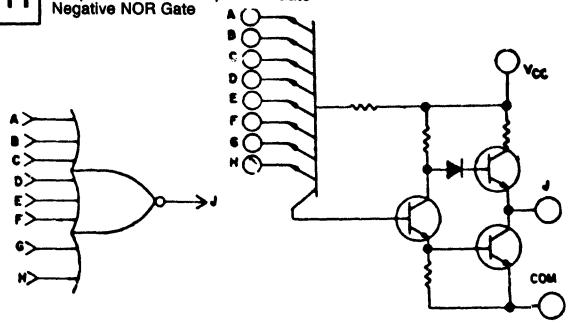
G04-240c: Expandable 8-Input



	TERM CKT. NO	A	B	C	D	E	F	G	H	J	K	M
G04240	1	1	2	3	13	—	NC	—		12		
	2	5	6	7	9	—	NC	—		11		
G04240A	1	1	2	3	5	6	7	9	13	12		
G04240B	1	1	2							3		
	2	5	6				NC			7		
	3	8	9							11		
	4	12	13							14		
G04240C		1	2	3	5	6	7	8	14	12	9	13
G04240D	1	1	2	3	5	6	7	9	13	12		
G04240E	1	1	2	3						5		
	2	6	7	8			NC			9		
	3	11	12	13						14		

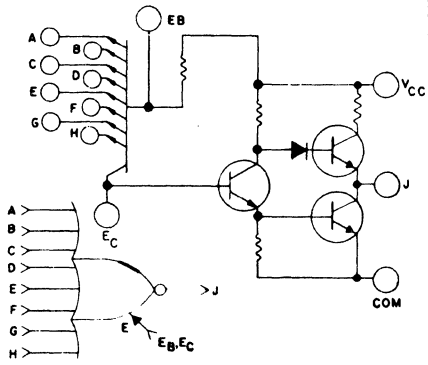
29. CIRCUIT DRAWINGS

G04-211 8-Input Positive NAND/ NAND Gate Negative NOR Gate



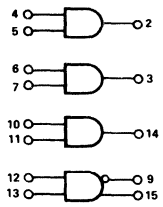
		A	B	C	D	E	F	G	H	J	V_{CC}	COM	OUTLINE
G04211		7	8	9	10	1	2	3	4	6	12	5	CN
		13	1	2	3	5	6	7	9	12	4	10	TO85
	A	A	B	C	E	F	G	1	N	L	D	J	

G04-212 Quad 2-Input Positive NAND/ Negative NOR Gate

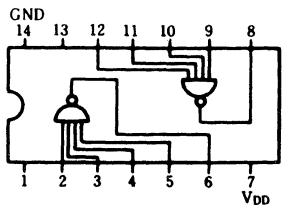


	CKT	A	B	C	D	E	F	G	H	J	E_B	E_C	V_{CC}	COM	OUTLINE
G04212		8	9	10	NC	11	1	2	3	6	4	7	12	5	CN
		14	1	2	8	3	5	6	7	12	9	13	4	10	FP
G04212A		1	2	3	13	5	6	7	8	11	9	12	4	10	
G04212B		7	8	9	4	10	1	2	3	6			12	5	CN
		13	1	2	9	3	5	6	7	12			4	10	FP
G04212C		1	2	3	13	5	6		9	11			4	10	
G04212D		2	3							6			12	5	CN
		5	6							11			4	10	FP
G04212E	1	1	2	3						5			4	10	
	2	6	7	8						9			4	10	
	3	11	12	13						14			4	10	
G04212F	1	1	2							3			4	10	
	2	5	6							7			4	10	
	3	8	9							11			4	10	
	4	12	13							14			4	10	
G04212G		1	2	3	5	6	7	9	13	12			4	10	FP&MP
G04212H		1	2	3	5	6	7	8	14	12	9	13	4	10	FP&MP

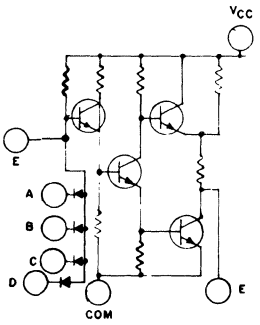
G04-481 Dual 4-Input Positive-Nand Gate

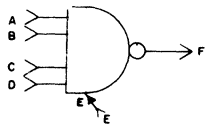


G04-485 Dual 4-Input NAND Gate



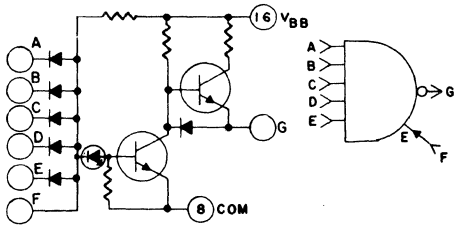
G04-227





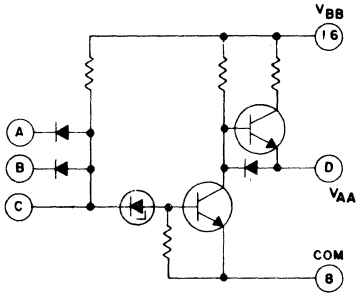
DWG. NO.	CKT NO.	A	B	C	D	E	F	V_{CC}	COM
G04227	1	3	5	6	–	–	2	4	11
	2	7	8	9	–	–	10		
A	1	6	7	8	9	–	10	4	11
	2	1	2	13	14	–	12		
B	1	6	7	8	9	5	10	4	11
	2	1	2	13	14	3	12		
C	1	3	4	5	6	7	2	8	1
	2	13	12	11	10	9	14		
D	1	3	4	–	–	5	2	6	1
	2	8	9	–	–	7	10	6	1
E	1	3	4	5	–	–	2	6	1
	2	7	8	9	–	–	2	6	

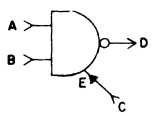
G04-236



CKT NO.	A	B	C	D	E	F	G
1	7	6	5	4	3	2	1
2	9	10	11	12	13	14	15

G04-237

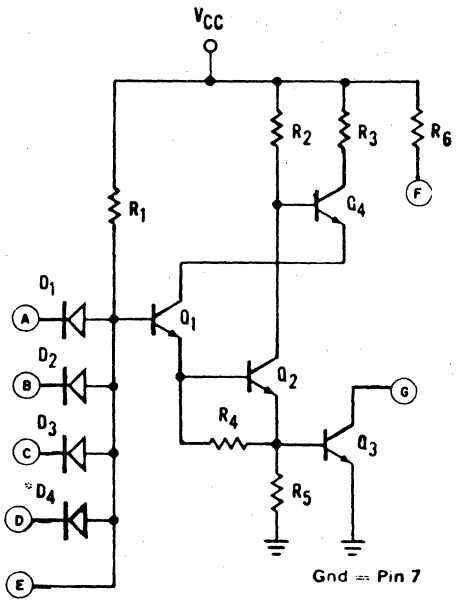




CKT NO	A	B	C	D
1	2	3	NC	1
2	7	6	5	4
3	15	14	13	12
4	10	11	NC	9

29. CIRCUIT DRAWINGS

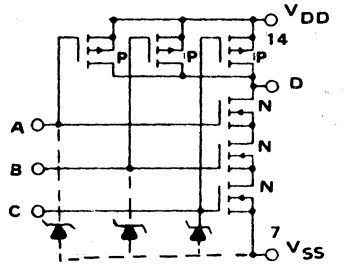
G04-395 Dual 3-4-Input Expandable NAND Gate



	CKT	A	B	C	D	E	F	G	VCC
G04395	1	1	2	4		3	5	6	14
	2	9	10	12	13	11		8	14

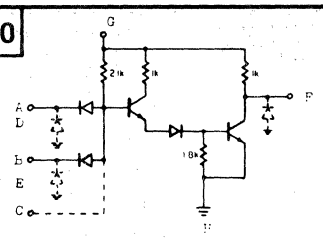
G04-397

	CKT	A	B	C	D
G04-397	1	1	2	3	5
	2	11	12	13	9
G04-397a	1	3	4	5	6
	2	1	2	8	9
	3	11	12	13	10



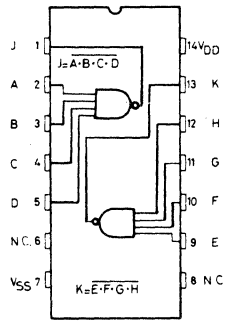
NOTE: OMIT DOTTED PORTIONS ON G04-397a

G04-400

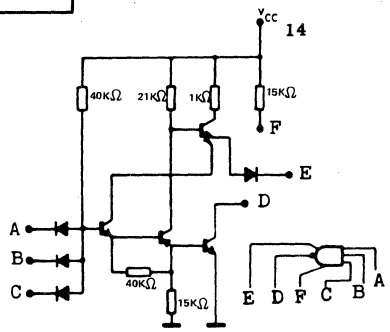


	CKT	A	B	C	D	E	F	G	H
G04-400	1	3	4				2	8	1
	2	5	6				7	8	1
	3	10	11				9	8	1
	4	12	13				14	8	1
G04-400a	1	3	4	5	6	7	2	8	1
	2	10	1	12	13	14	9	8	1
G04-400b	1	3	4	5			2	8	1
	2	7	9	10			6	8	1
	3	11	12	13			14	8	1
G04-400c	1	3	4				2	8	1
	2	6	7				5	8	1
	3	9	10				11	8	1
	4	12	13				14	8	1

G04-404 Dual 4-Input NAND Gate

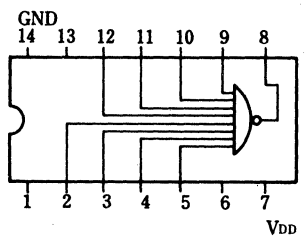


G04-416 Dual 3-Input NAND Gate

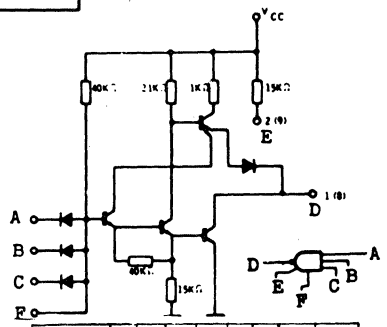


NO. OF CKTS.	A	B	C	D	E	F	VCC	GND
1	4	5	6	2	1	3	14	7
2	11	12	13	9	8	10		

G04-532



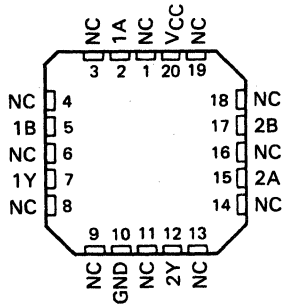
G04-418 Dual Expandable 3-Input NAND Gate



CKT NO.	A	B	C	D	E	F	VCC	GND
1	4	5	6	1	2	3	14	7
2	11	12	13	8	9	10		

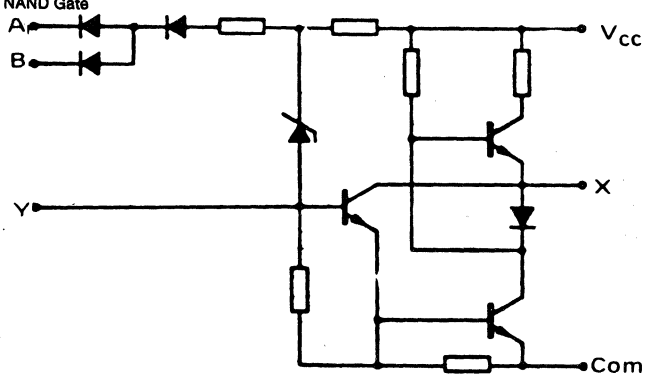
G04-550 Dual 2-Input NAND Gate

(TOP VIEW)



NC—No internal connection

G04-428 Quad 2-Input Expandable NAND Gate



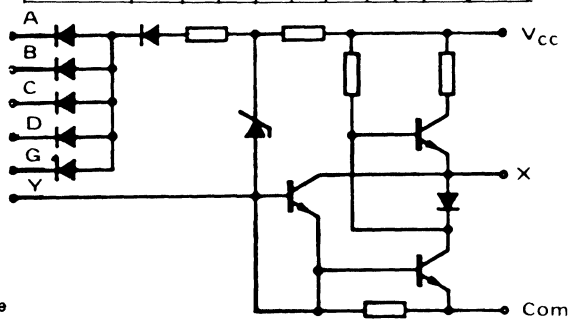
	CKT	A	B	Y	X	VCC	COM
G04-428	1	2	3	1	4	16	8
	2	5	6		7		
	3	11	10		9		
	4	14	13	15	12		
G04-428a	1	2	3		4	16	8
	2	5	6		7		
	3	11	10		9		
	4	14	13		12		

G04-428a: Not Expandable

29. CIRCUIT DRAWINGS

G04-429 Dual 5-Input Expandable NAND Gate

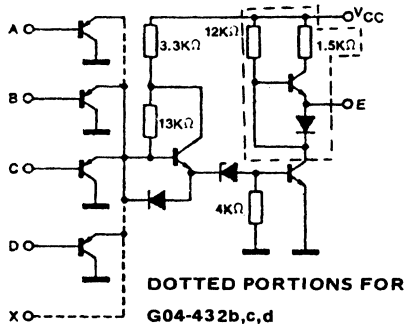
	CKT	A	B	C	D	G	Y	X	VCC	COM
G04-429	1	2	3	4	5	6	1	7	16	8
	2	10	11	12	13	14	15	9		
G04-429a	1	2	3	4	5	6		7	16	8
	2	10	11	12	13	14		9		



G04-429a: Not Expandable

G04-432 NAND Gate

NOTE: OMIT FOR G04-432c

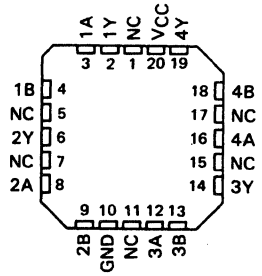


DOTTED PORTIONS FOR G04-432b,c,d

	CKT	A	B	C	D	X	E	VCC	GND
G04-432	1	1	2				3	14	7
	2	4	5				6		
	3	9	10				8		
	4	12	13				11		
G04-432a	1	13	1	2			12	14	7
	2	3	4	5			6		
	3	9	10	11			8		
G04-432b	1	1	2	3	4	3	6	14	7
	2	9	10	12	13	11	8		
G04-432c	1	2				1	3	14	7
	2	5				4	6		
	3	9	10				8		
	4	12	13				11		
G04-432d	1	2				1	3	14	7
	2	5				4	6		
	3	9	10				8		
	4	12	13				11		

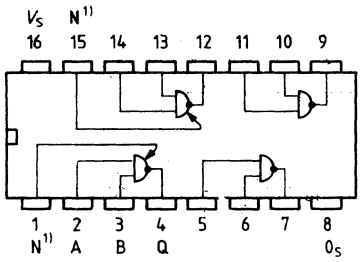
G04-546 Quad 2-Input Positive-NAND Gate with Open-Collector Outputs

(TOP VIEW)

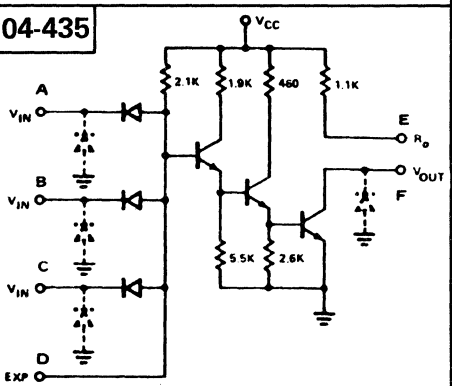


NC—No internal connection

G04-531 Quad 2-Input NAND Gate



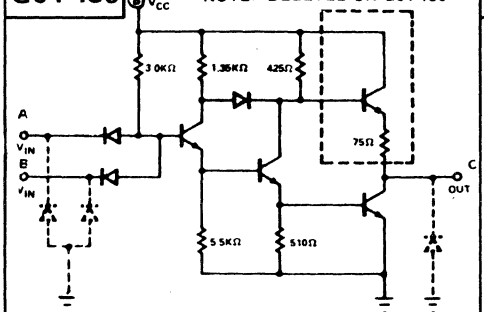
G04-435



	CKT	A	B	C	D	E	F	VCC	GND
G04-435	1	4	5	6	7	3	2	8	1
	2	10	11	12	9	13	14		

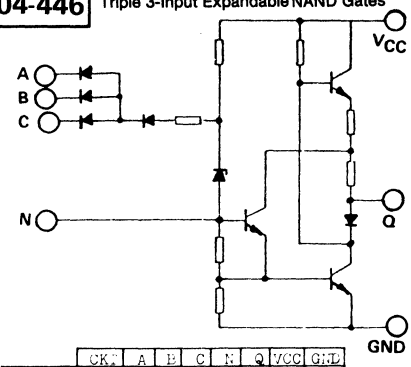
G04-436

Vcc NOTE: DELETED ON G04-436



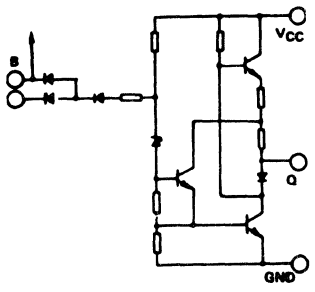
	CKT	A	B	C	VCC	GND
G04-436,a	1	3	4	2	8	1
	2	6	7	5		
	3	9	10	11		
	4	12	13	14		

G04-446 Triple 3-Input Expandable NAND Gates



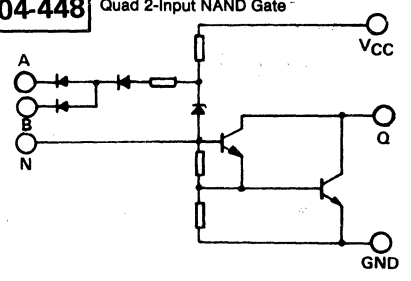
	CKT	A	B	C	N	Q	VCC	GND
G04-446	1	2	3	4	1	5	16	8
	2	7	6	10		9		
	3	12	13	14	15	11		

G04-447 Hex Inverter with Strobe



	CKT	A	B	Q	VCC	GND
G04-447	1	1		2	16	8
	2	3	4	5		
	3	6		7		
	4	10		9		
	5	13	12	11		
	6	15		14		
G04-447a	1	1	2	3	16	8
	2	4		5		
	3	6		7		
	4	10		9		
	5	12		11		
	6	14	15	13		

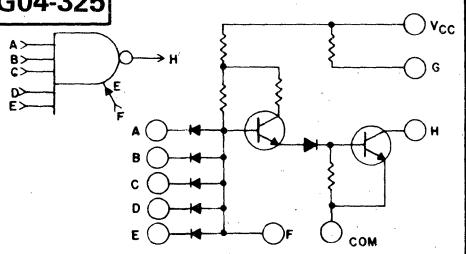
G04-448 Quad 2-Input NAND Gate



	CKT	A	B	N	Q	VCC	GND
G04-448	1	2	3	1	4	16	8
	2	5	6		7		
	3	10	11		9		
	4	13	14	15	12		

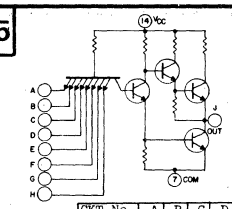
29. CIRCUIT DRAWINGS

G04-325



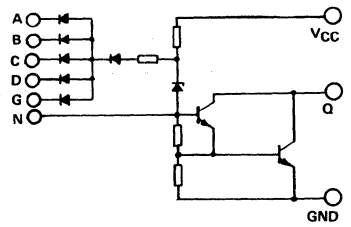
	CKT NO.	A	B	C	D	E	F	G	H	COM	Vcc
G04-325	1	1	2	4			3	5	6	7	14
	2	10	12	13			11	9	8		
G04-325A	1	2	1	14			3	13	12	11	4
	2	6	7	8			5	9	10		
G04-325B	1	1	2	3	4	5			6	7	14
	2	9	10	11	12	13			8		
G04-325C	1	1	2	3	14	13			12	11	4
	2	5	6	7	8	9			10		

G04-345



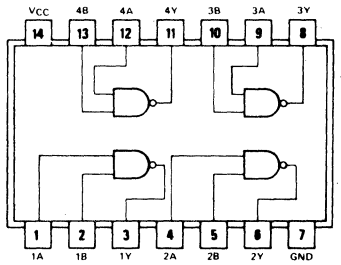
	CKT No.	A	B	C	D	E	F	G	H	J
G04-345	1	1	2							3
	2	4	5							6
	3	9	10							8
	4	12	13							11
G04-345a	1	1	2	13						12
	2	3	4	5						6
	3	9	10	11						8
G04-345b	1	2	4	5						6
	2	9	10	12	13					8
G04-345c	1	10	11	12	13	1	2	3	4	8
G04-345d	1	1								2
	2	3								4
	3	5								6
	4	9								8
	5	11								10
	6	13								12
G04-345e	1	1	2	4	5					6
	2	9	10	12	13					8

G04-449 Dual 5-Input Expandable NAND Gate w/Open-Collector



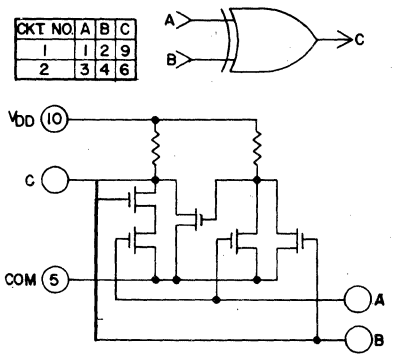
	CKT	A	B	C	D	G	N	Q	VCC	GND
G04-449	1	2	3	4	5	6	1	7	16	8
	2	10	11	12	13	14	15	9		

G04-464 Quad 2-Input NAND Gate

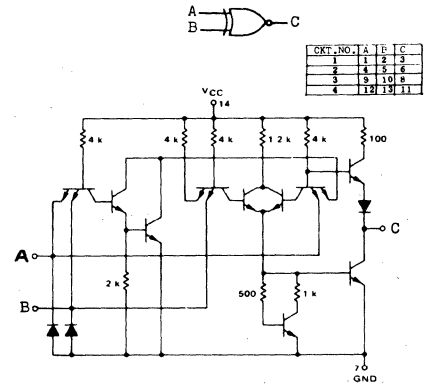


G05-97 Dual 2-Input Exclusive OR Gate

CKT NO	A	B	C
1	1	2	9
2	3	4	6

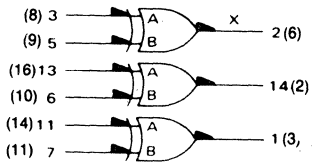


G05-104 Quad 2-Input Exclusive NOR Gate



CKT. NO.	A	B	C
1	1	2	3
2	4	5	6
3	9	10	8
4	12	13	11

G05-107 Triple 2-Input Exclusive-OR Gate

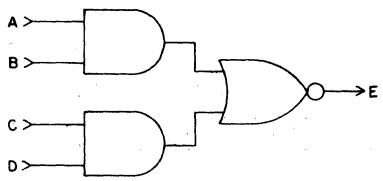


$X = A \bullet \bar{B} + \bar{A} \bullet B$

V_{CC1} = Pin 1(5)
V_{CC2} = Pin 16(4)
V_{EE} = Pin 8(12)

( ) = FLATPACK

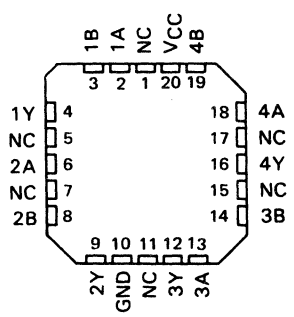
G05-92 Dual 4-Input Exclusive OR Gate



	CKT NO	A	B	C	D	E	COM	Vcc
FP	1	6	7	8	9	10	11	4
	2	13	14	1	2	12		
MP	1	1	2	4	5	6	7	14
	2	9	10	12	13	8		

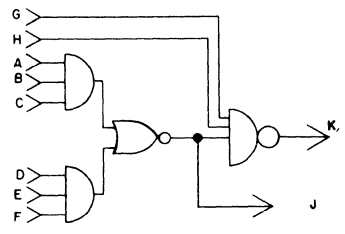
G04-547 Quad 2-Input Positive-NAND Gate with Open-Collector Outputs

(TOP VIEW)



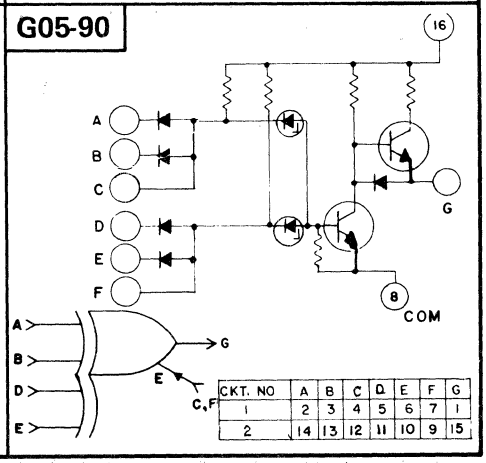
NC — No internal connection

G05-79 Dual 3-Input Exclusive OR Gate w/Complement



A	B	C	D	E	F	G	H	J	K	VBB	COM	OUTLINE
9	10	11	1	2	3	8	NC	6	7	12	5	CN3A
1	2	3	5	6	7	13	14	11	12	4	10	TC 86

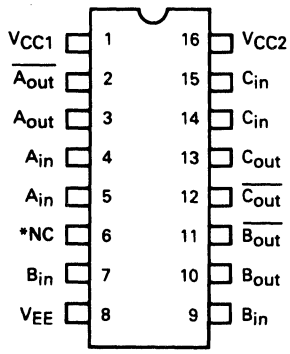
G05-90

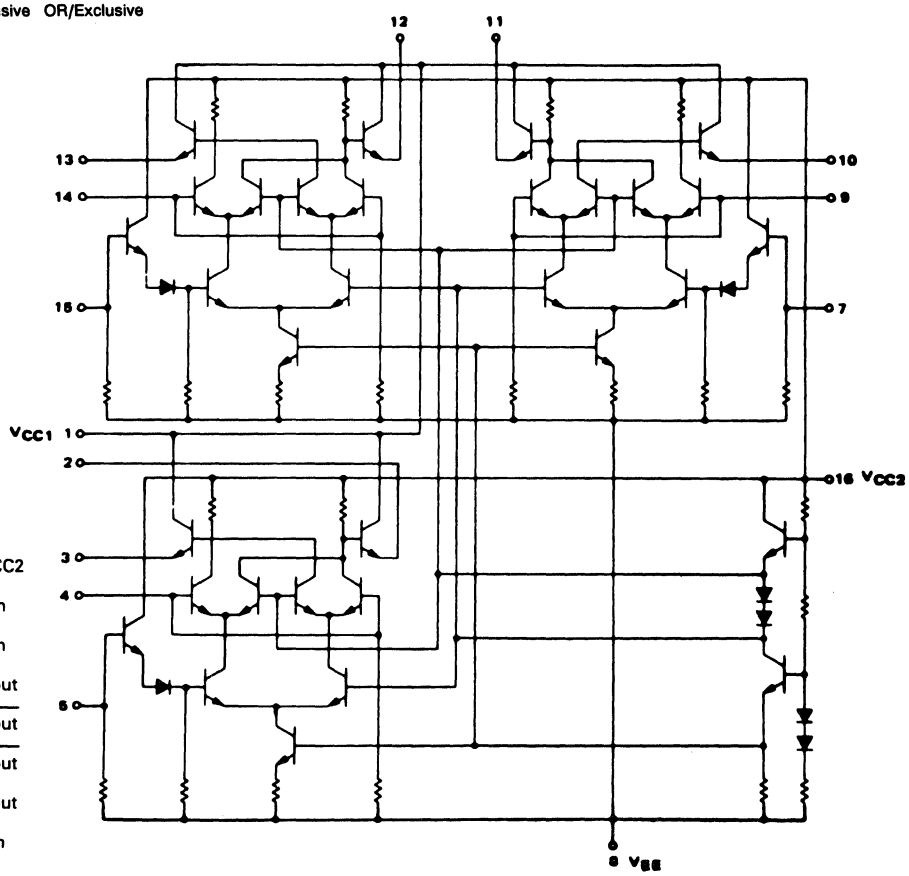


CKT. NO	A	B	C	D	E	F	G
1	2	3	4	5	6	7	1
2	14	13	12	11	10	9	15

29. CIRCUIT DRAWINGS

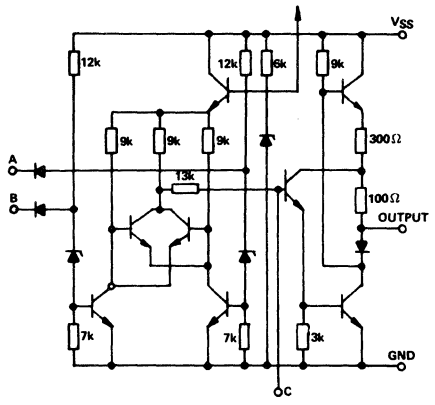
G05-108 Triple 2-Input Exclusive OR/Exclusive NOR Gate



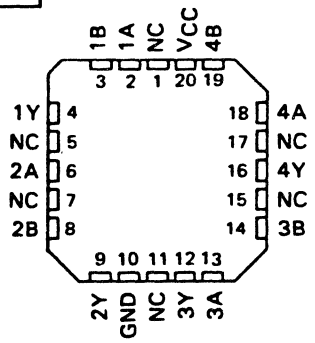


G05-116 Quad 2-Input Expandable Exclusive OR Gate

	CKT	A	B	C	OUTPUT	VSS	GND
G05-116	1	2	3	1	4	16	8
	2	5	6		7		
	3	10	11		9		
	4	13	14	15	12		



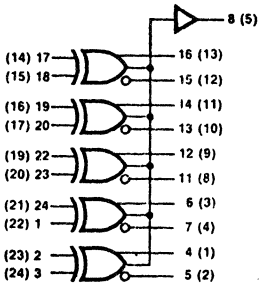
G05-442 Quad 2-Input Exclusive-OR Gate with Open-Collector Outputs



NC—No internal connection

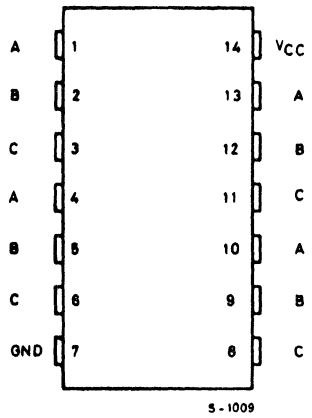
29. CIRCUIT DRAWINGS

G05-133 Quint Exclusive OR/NOR Gates

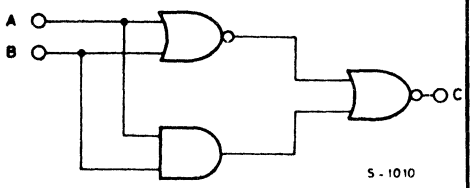


V_{CC} = PIN 9 (6)
V_{CCA} = PIN 10 (7)
V_{EE} = PIN 21 (18)
( ) = DUAL IN LINE

G05-138 Quad 2-Input Exclusive OR Gate

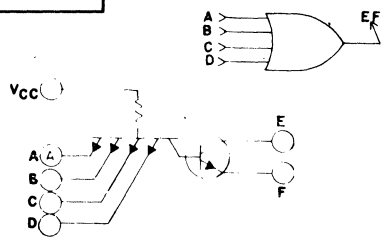


S-1009



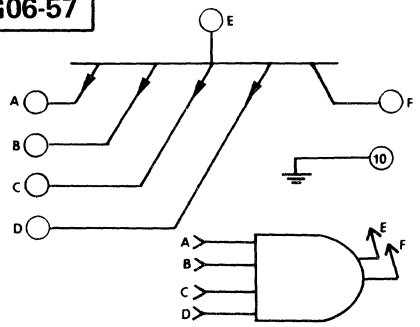
S-1010

G06-56 Dual 4-Input OR Expander



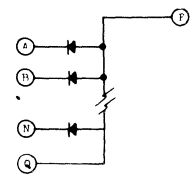
	OUTLINE	CKT. NO.	A	B	C	D	E	F	VCC	COM
G06-56	FP	1	14	1	2	3	12	13	4	10
		2	8	7	6	5	11	9	4	10
G06-56a	MP	1	13	1	2	3	11	12	14	
		2	4	5	6	8	10	9	14	
G06-56b	MP	1	5	6	7	8	11	9	4	10
		2	1	2	3	4	12	13	4	10
G06-56c	FP	1	3	5	6	7	2	1	4	11
		2	8	9	10	12	13	14	4	11

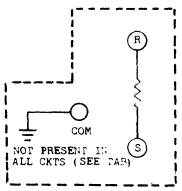
G06-57



	CKT TERM	A	B	C	D	E	F
G06-57	1	1	2	3	14	13	12
	2	5	6	7	8	9	11

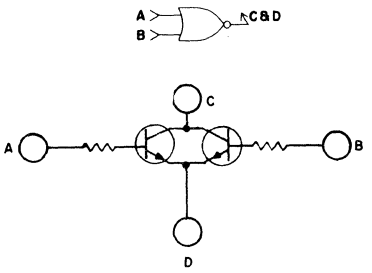
G06-61 Dual 4-Input AND/NOR Expander





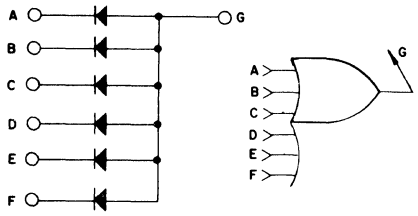
	CKT	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	COM	VCC
G06-61	1	5	6	7	8	9								10				11	
	2	1	2	3	13	14								12				11	
G06-61b	1	1	2	3	4	5	6	7	8	9	12	13	14	10				11	
G06-61c	1	3	4											2				1	
	2	5	6											7				1	
	3	10	11											9				1	
	4	12	13											14				1	
G06-61d	1	3	4	5	6	7								2				1	
	2	9	10	11	12	13								14				1	
G06-61e	1	41	40	39										37					
	2	36	35	34										33					
	3	32	31	30										29					
	4	28	27	26										25					
	5	24	23	22										21					
	6	20	18	19										17					
	7	16	15	14										13					
	8	12	11	10										9					
	9	8	7	6	5									4					
G06-61f	1	4	5	6	7	8								9					
	2	10	11	12	13	14								15					
	3	16	17	18	19	20								21					
	4	22	23	24	25	26								27					
	5	28	29	30	31	32								33					
	6	34	35	36	37	38								39					
	7	40												41					
G06-61g	1	3	4	5	6	7	8							10				1	
G06-61h	1	2	3	10										4		9	2	1	
	2	7	8	9										5		9	2	1	
G06-61j	1	10	11	12	13									9				14	
	2	2	3	4										1				14	
	3	5	7	8										6				14	
G06-61k	1	3	4	5	6	7	8							10		9	2	1	
G06-61m	1	10	2	3										4				1	
	2	7	8	9										5				1	
G06-61s	1	1	2	3	13	14								12				11	
	2	5	6	7	8	9								10				11	
G06-61t	1	1	2											3				11	
	2	6	7											5				11	
	3	8	9											10				11	
	4	13	14											12				11	
G06-61w	1	16	17	19	20									18					
	2	21	22	23										24					
	3	25	26	27										28					
	4	29	30	31										32					
	5	1	3											2					
	6	6	5											4					
	7	7	9											8					
	8	10	11											12					
	9	13	15											14					
G06-61x	1	2	3	4	5	6									1			7	14
	2	9	10	11	12	13									8				
G06-61y	1	2	3	5	6										4			7	
	2	13	12	10	9										11				

G06-67



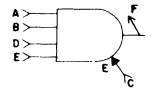
29. CIRCUIT DRAWINGS

G06-86



	CKT \ TERM	A	B	C	D	E	F	G
G0686		1	2	3	4	5	6	7
G0686A		1	2	3	4	5		6
G0686B	1	3	4	5	6			7
	2	8	9	10	11			12
	3	13	14	15	16			17
	4	18	19	20	21			22
	5	23	24	25	26			27
	6	28	29	30	31			32
G0686C	1	3	4					5
	2	6	7					8
	3	9	10					11
	4	12	13					14
	5	15	16					17
	6	18	19					20
	7	21	22					23
	8	24	25					26
	9	27	28					29
	10	30	31					32

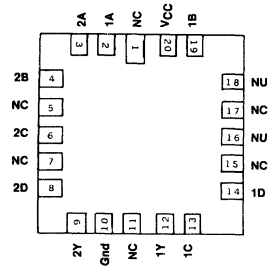
G06-94



	CKT	A	B	C	D	E	F	
G06-94	1	10	1	2	3	4	5	CN
	2		9	8	7	6	5	
	1	2	3	4	5	6		FP
	2	9	10	11	12	13		
G06-94a	1	10	1	2	3	4		CN
	2		9	8	7	6		
G06-94b	1	2	3	4	5	6		FP, M
	2	9	10	11	12	13		
G06-94c	1	1	2	3	4	5		CN
	2	7	8	9	10	11		
G06-94d	1	2	3	4	5	6	7	FP
	2	13	12	11	10	9	7	M
G06-94e	1	45	44	41	46	49	40	
	2	48	47	42	50	43	39	
	3	33	32	29	34	37	28	
	4	36	35	30	38	31	27	
	5	21	20	17	22	25	16	
	6	24	23	18	26	19	15	
	7	9	8	5	10	13	4	
	8	12	11	6	14	7	3	

G11-03

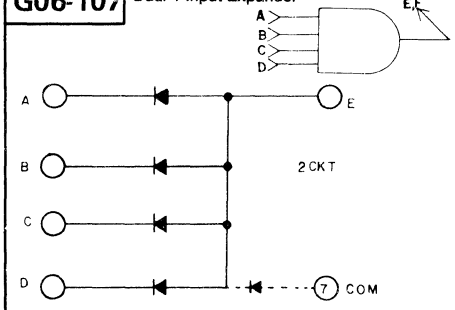
2 Wide-2 Input, 2 Wide-3 Input AND-OR-INVERT Gates



Note: NU – Make No External Connection
NC – No Internal Connection

G06-107

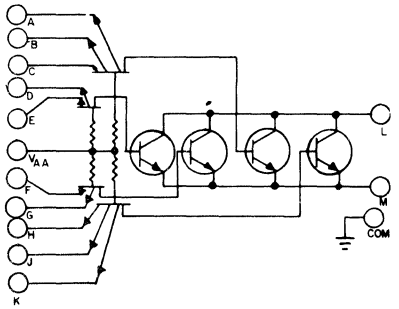
Dual 4-Input Expander



CKT NO	A	B	C	D	E
1	13	12	9	10	11
2	2	3	5	6	4

G06-109

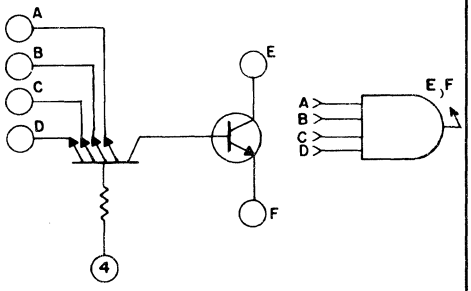
Quad 2-Input AND/NOR Expander



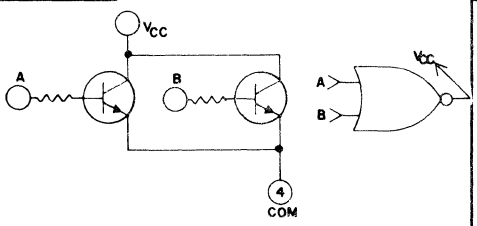
	A	B	C	D	E	F	G	H	J	K	L	M	VAA	COM
G06109	1	14	13	2	3	5	6	7	8	9	11	12	4	10
G06109A	1	2	NC	6	7	NC	NC	NC	NC	NC	NC	3	5	8	4

G06-111

CKT. NO	A	B	C	D	E	F
1	5	6	7	8	11	9
2	1	2	3	14	12	13

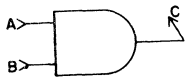


G06-134



	CKT. NO.	A	B	C
G06-134	1	1	2	7
	2	3	5	6
G06-134A	1	1	2	3
	2	6	7	5
	3	9	10	8
	4	12	13	14

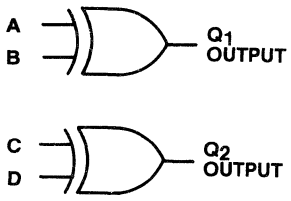
G06-152



	CKT NO.	A	B	C	COM
MP	1	3	4	2	
	2	5	6	7	1
	3	13	12	14	
	4	11	10	9	
FP	1	1	2	3	
	2	6	7	5	
	3	8	9	10	11
	4	13	14	12	

G07-14

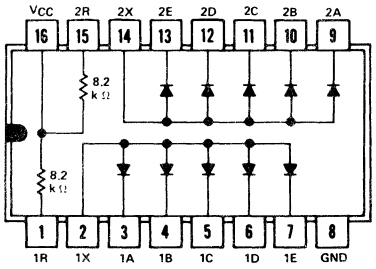
GaAs Dual 2-Input Exclusive OR Gate



PIN NO.	SYMBOL	FUNCTION
1	GND	Ground (RF)
2	B	B Data Input
3	C	C Data Input
4	D	D Data Input
5	GND	Ground (RF)
6	$-V_{SS}$	Supply Voltage
7	GND	Ground (DC)
8	$+V_{DD}$	Supply Voltage
9	Q_2	Q_2 Data Ouput
10	COMM	Common Output Connection**
11	Q_1	Q_1 Data Output
12	GND	Ground (RF)
13	NC	No Connection
14	NC	No Connection
15	NC	No Connection
16	A	A Data Input

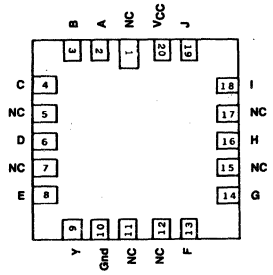
**Connect the common output connection to ground for ECL level outputs.

G06-170

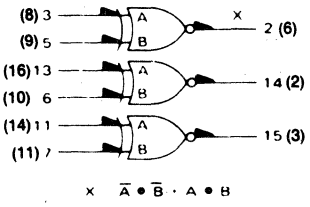


29. CIRCUIT DRAWINGS

G11-04 — 4-Wide 2-3-3-2 Input AND-OR-INVERT Gate



G07-1 — Triple 2-Input Exclusive-NOR Gate

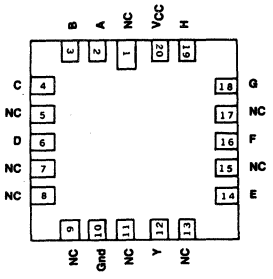


$X = \overline{A} \bullet \overline{B} + A \bullet B$

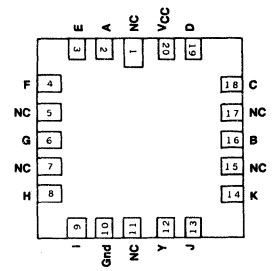
V_{CC1} Pin 1
V_{CC2} Pin 16
V_{EE} Pin 8

( ) = FLATPACK

G11-05 — 2-Wide 4-Input AND-OR-INVERT Gate

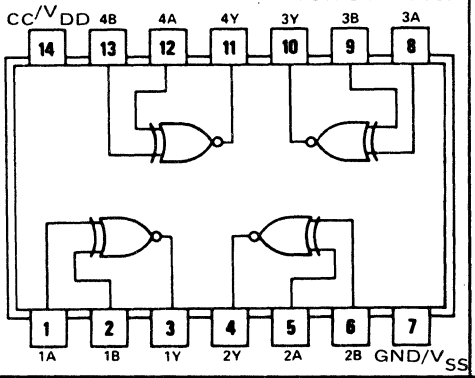


G11-06 — 4-2-3-2 Input AND-OR-INVERT Gate

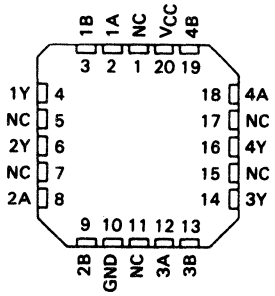


G07-5 — Quad 2-Input Exclusive NOR Gate

G07-5a — HAS OPEN COLLECTOR OUTPUTS.

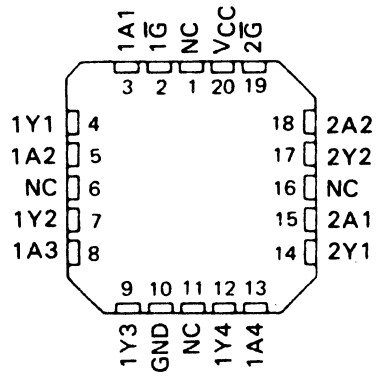


G07-8 — Quad 2 Input Exclusive NOR Gates

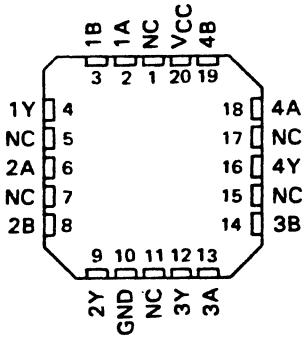


29. CIRCUIT DRAWINGS

G08-29 Hex Bus Driver with Inverting Outputs

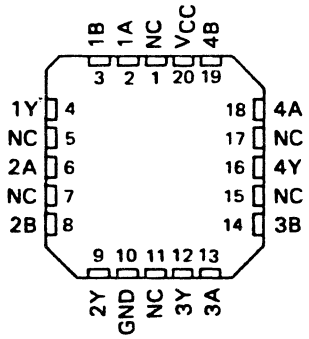


G07-10 Quad 2-Input Exclusive -NOR Gate



NC—No internal connection

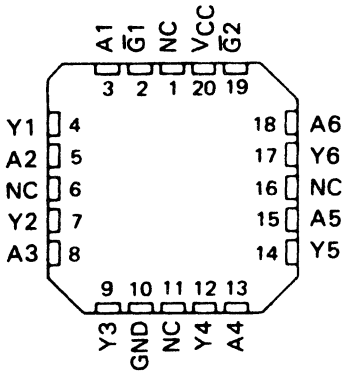
G07-12 Quad 2-Input Exclusive-NOR Gate with Open-Collector Outputs



NC—No internal connection

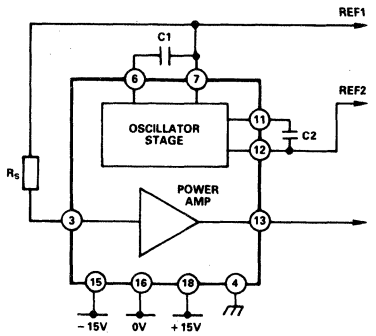
G08-28 Hex Bus Driver with True Outputs

(TOP VIEW)



29. CIRCUIT DRAWINGS

C07-17 Oscillator
TTL Clock Oscillator

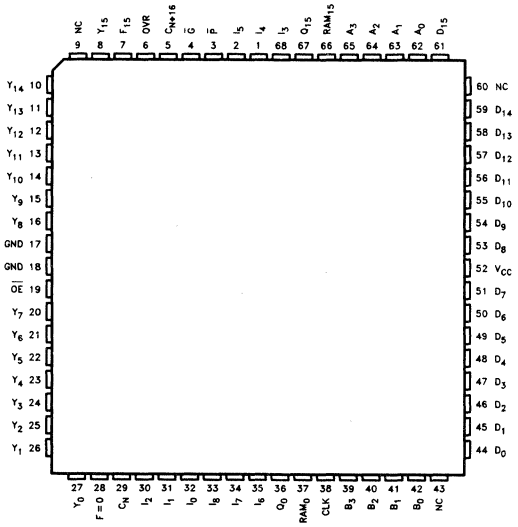


PIN	CONNECTION
1	Freq. Adj./ Modulation*(Optional)
7	GND/Case GND
8	Output
14	+Vdc

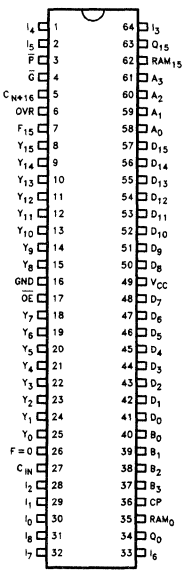
PIN	b	c	d	e	f	g
1	NC	CASE GROUND	CASE GROUND	NC	ECL COMP OUT	ECL COMP OUT
7	CASE GROUND	V_{EE}	V_{SS}	V_{EE}	CASE GROUND	V_{EE}
8	ECL OUTPUT	ECL OUTPUT	ECL OUTPUT	ECL OUTPUT	ECL OUTPUT	ECL OUTPUT
14	V_{EE}	V_{SS}	V_{EE}	CASE GROUND	V_{EE}	CASE GROUND

U0027 16-Bit ALU

Top View

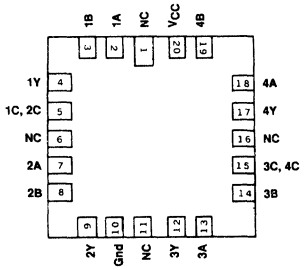


Top View

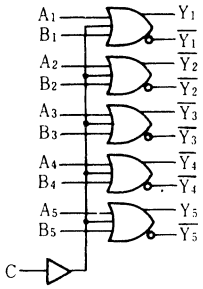


29. CIRCUIT DRAWINGS

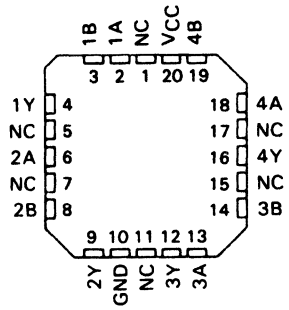
G11-07 Quad Exclusive OR/NOR Gates



G17-05

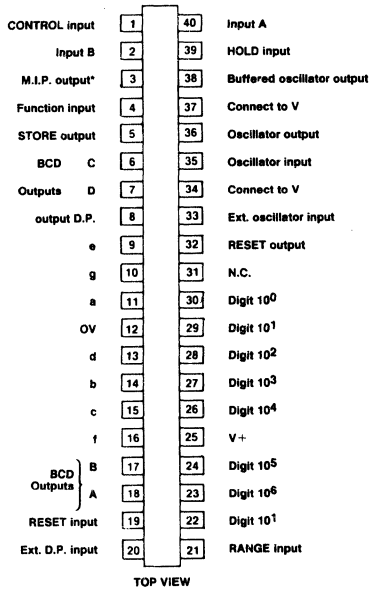


G01-315 Quad 2 Input AND Gates

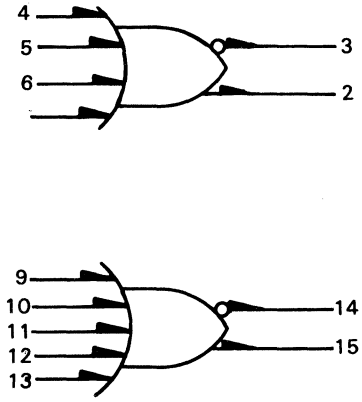


E03-112 Six Decade Counter/Display Decoder

Universal Counter/Driver



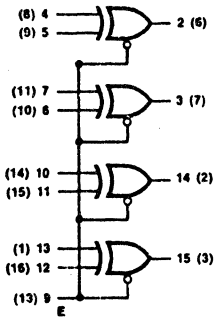
G17-07 Dual 4-5 Input OR/NOR Gate



V_{CC1} = Pin 1
V_{CC2} = Pin 16
V_{EE} = Pin 8

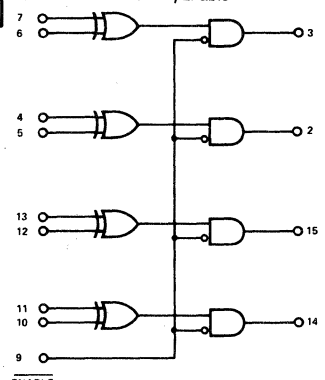
29. CIRCUIT DRAWINGS

G05-132 Quad Exclusive OR Gate



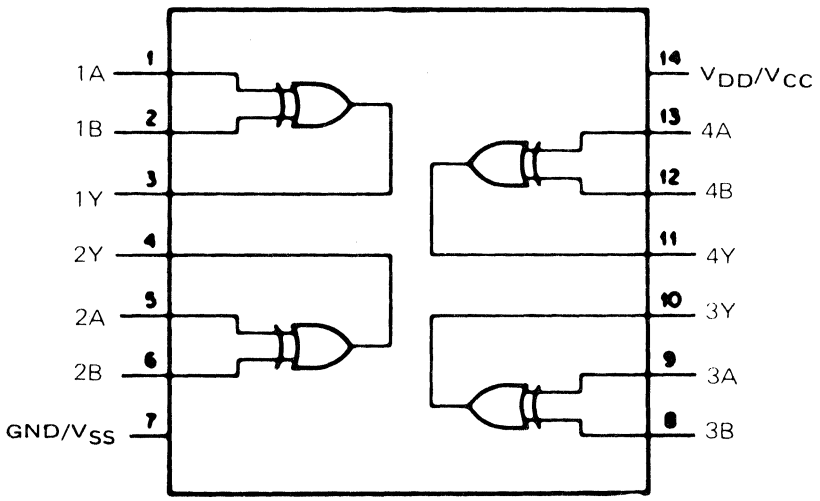
V_{CC1} = Pin 1 (5)
V_{CC2} = Pin 16 (4)
V_{EE} = Pin 8 (12)
( ) = Flatpak

G05-124 Quad Exclusive OR w/Enable

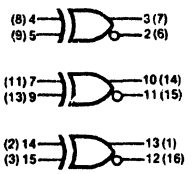


V_{CC1} = 1, V_{CC2} = 16, V_{EE} = 8
POSITIVE LOGIC: HIGH LEVEL = '1'

G05-126 Quad 2-Input Exclusive OR Gate

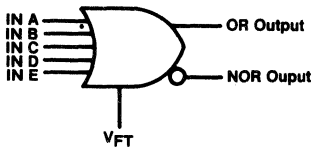


G05-131 Triple 2-Input Exclusive OR/NOR Gate



$V_{CC}1$ = PIN 1 (5)
$V_{CC}2$ = PIN 16 (4)
V_{EE} = PIN 8 (12)
( ) = FLATPACK

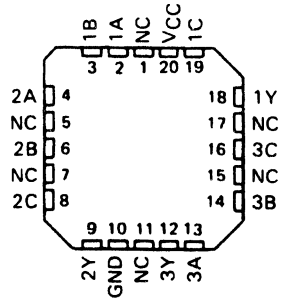
G17-19 GaAs 5-Input NOR/OR Gate



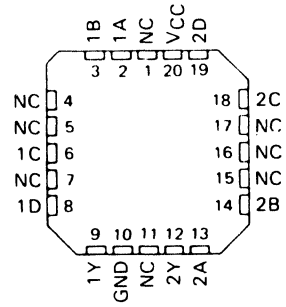
PIN NO.	SYMBOL	FUNCTION
1	GND	Ground (RF)
2	IN B	Input B
3	GND	Ground (RF)
4	IN A	Input A
5	V_{FT}	Voltage Freq. Tune
6	$-V_{SS}$	Supply Voltage
7	GND	Ground (DC)
8	$+V_{DD}$	Supply Voltage
9	OR Output	Output
10	Common	Common Output Connection *
11	NOR Output	Output
12	GND	Ground (RF)
13	IN E	Input E
14	IN D	Input D
15	GND	Ground (DC)
16	IN C	Input C

29. CIRCUIT DRAWINGS

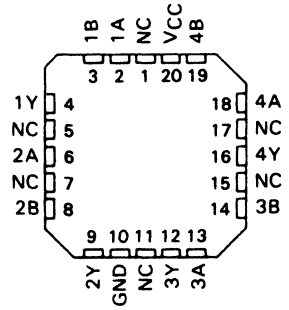
G01-316 Triple 3 Input AND Gates



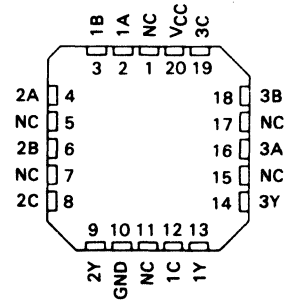
G01-317 Dual 4 Input AND Gates



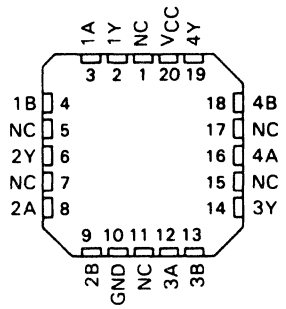
G02-234 Quad 2 Input OR Gates



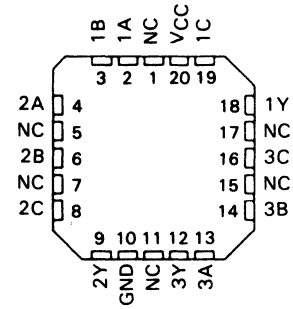
G02-236 Triple 3 Input OR Gates



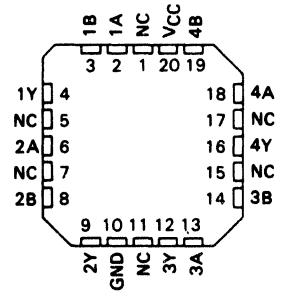
G03-329 Quad 2 Input NOR Gates



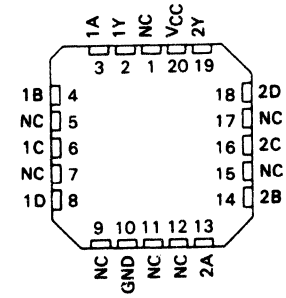
G03-330 Triple 3 Input NOR Gate



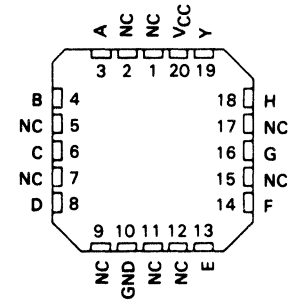
G03-331 Quad 2 Input NOR Gate



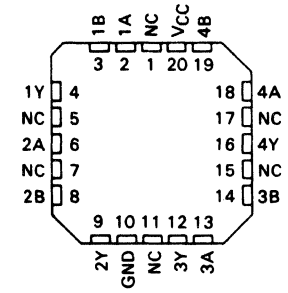
G03-332 Dual 4 Input NOR Gates



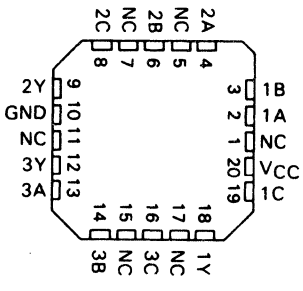
G03-333 8 Input NOR Gate



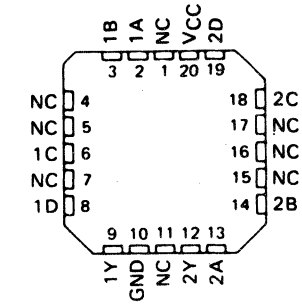
G04-542 Quad 2 Input NAND Gates



G04-543 Triple 3 Input NAND Gates

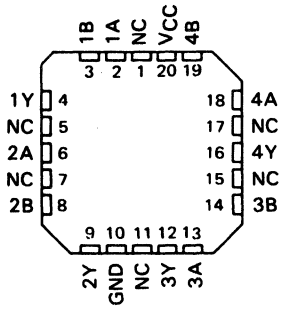


G04-544 Dual 4 Input NAND Gates

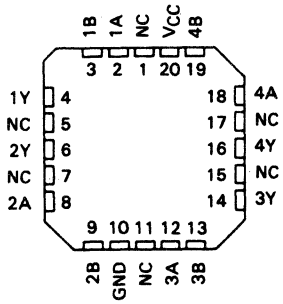


29. CIRCUIT DRAWINGS

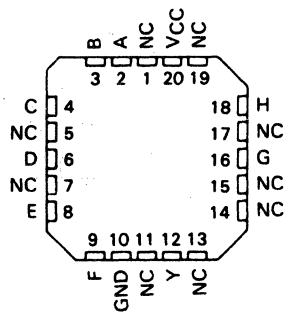
G05-440 Quad 2 Input EXCLUSIVE OR GATES



G05-441 Quad 2 Input Exclusive OR Gate

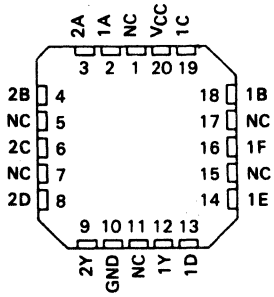


G04-545 8 Input NAND Gate

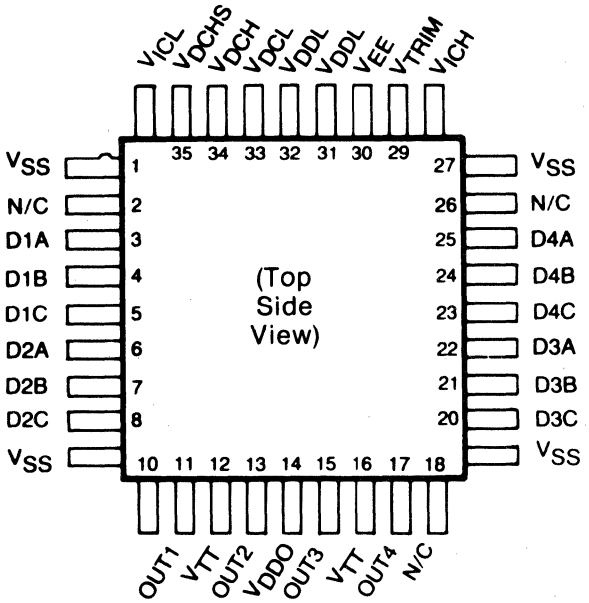


NC — No internal connection

G11-02 2 wide-2 Input, 2 wide-3 input AND-OR INVERT Gates

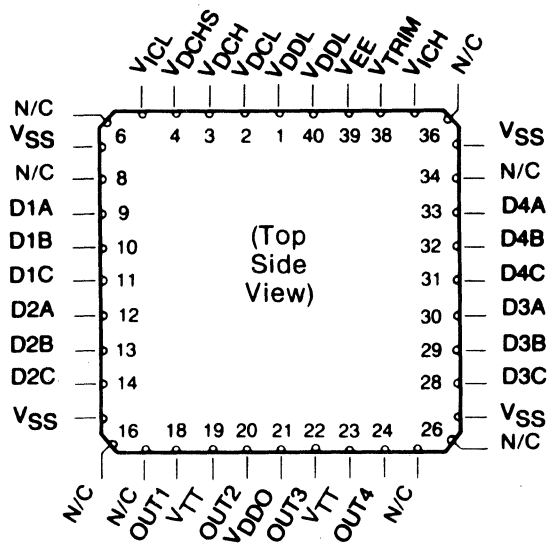


G03-337 Quad 3-Input NOR Gate



NOTES: Pin 1 is marked for orientation. N/C = No Connection. The package, lid bottom heat vias and 4 corner leads (6, 16, 26, 36) are at V_{SS} potential.

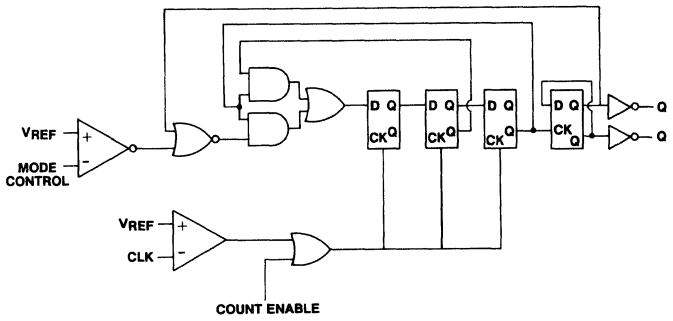
G03-338 Quad 3-Input NOR Gate



NOTES: Pin 1 is marked for orientation. N/C = No Connection. The package lid and bottom surfaces are at V_{SS} potential.

29. CIRCUIT DRAWINGS

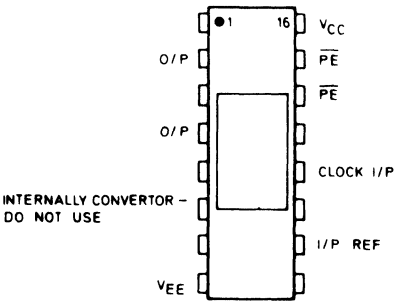
H01-46 GaAs Divide by 10/11 Variable Modulus Divider



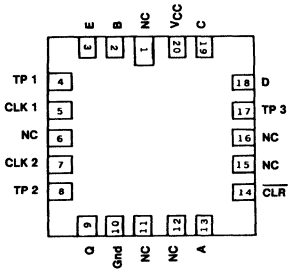
PACKAGE/PIN CONFIGURATIONS

PIN NO.	SYMBOL	FUNCTION
1	CE	Clock Enable
2	CK	Input Clock
3	GND	Ground (DC)
4	$+V_{DD}$	Supply Voltage
5	$-V_{SS}$	Supply Voltage
6	GND	Ground (DC)
7	$+V_{DD}$	Supply Voltage
8	$-V_{SS}$	Supply Voltage
9	Q	Data Output
10	Common	Common Output Connection*
11	Q	Data Output
12	MC	Mode Control**
13	MC	Mode Control**
14	V_{REF}	Reference Voltage for Mode Control
15	V_{REF}	Reference Voltage for Clock
16	N.C.	No Connection

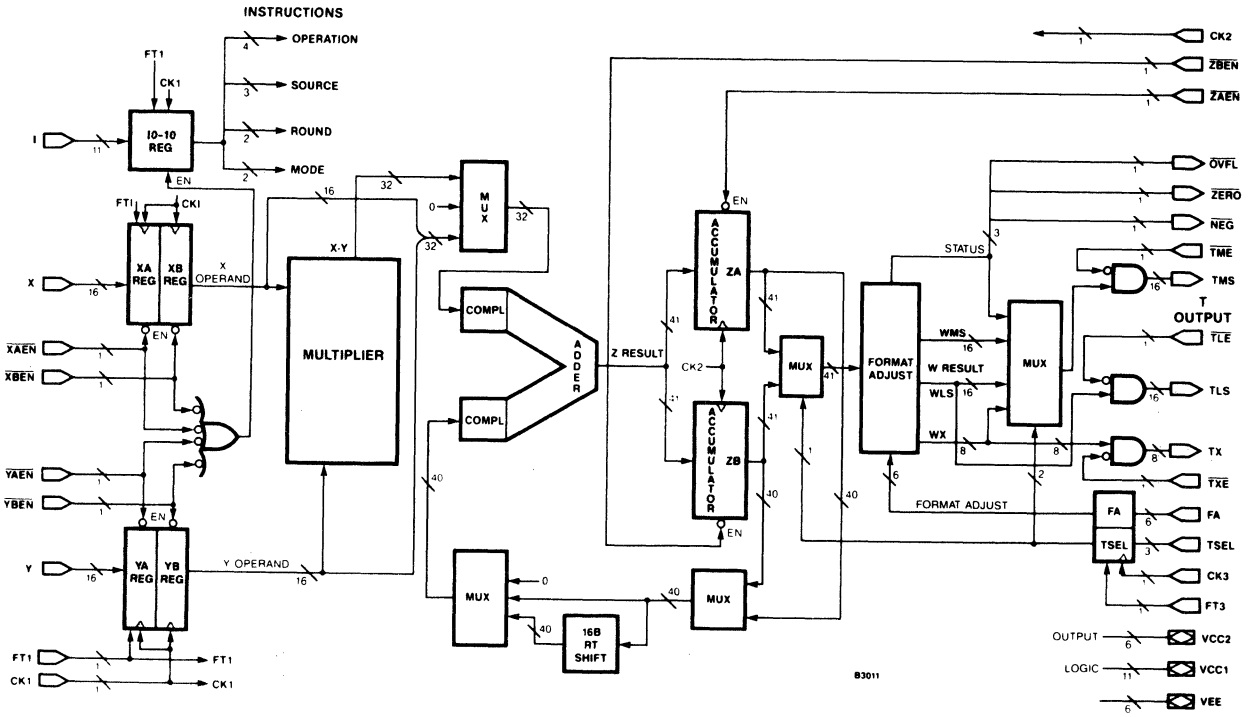
H01-4 500 MHz Divide x 10/11



H01-47 Programmable Frequency Divider/Digital Timer

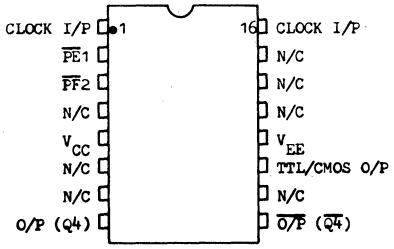


X00-31

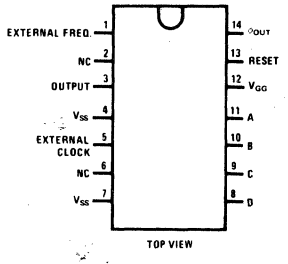


29. CIRCUIT DRAWINGS

H01-5 200 MHz Divide x 10/11



H01-7 Baud Rate Generator/ Programmable Divider



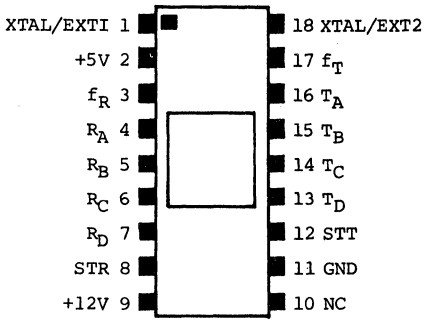
H01-8 Programmable Counter Chip

PIN ASSIGNMENTS

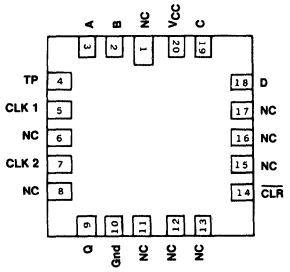
28 PIN	SYMBOL	FUNCTION	40 PIN *
1	V_{SS}	GROUND	1
2	Kϕ	KEYBOARD INPUT	2
3	V_{DD}	-7V (V_{GG})	3
4	SP	DECIMAL POINT	8
5	KDI	KEYBOARD DEBOUNCE INHIBIT	9
6	CPI	COMPARE REGISTER INDICATOR	10
7	SG	SEGMENT DRIVER G	12
8	SF	SEGMENT DRIVER F	13
9	SE	SEGMENT DRIVER E	14
10	SD	SEGMENT DRIVER D	15
11	SC	SEGMENT DRIVER C	18
12	SB	SEGMENT DRIVER B	19
13	SA	SEGMENT DRIVER A	20
14	D_9	DIGIT DRIVER NO. 9	21
15	D_5	DIGIT DRIVER NO. 5	22
16	D_4	DIGIT DRIVER NO. 4	23
17	D_8	DIGIT DRIVER NO. 8	24
18	D_3	DIGIT DRIVER NO. 3	25
19	D_2	DIGIT DRIVER NO. 2	26
20	D_1	DIGIT DRIVER NO. 1	27
21	D_6	DIGIT DRIVER NO. 6	28
22	CIN	COUNT INPUT	29
23	CTI	CLOCK TIMING INPUT	30
24	D_7	DIGIT DRIVER NO. 7	31
25	K_3	KEYBOARD INPUT	32
26	V_{GG}	-14V	33
27	K_2	KEYBOARD INPUT	37
28	K_1	KEYBOARD INPUT	38
	DTO	DISPLAY TIMEOUT	11
	LBI	LOW BATTERY INPUT	17

* ALL PINS NOT SHOWN ARE NO CONNECTION

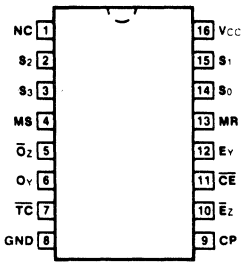
H01-9 Dual Baud Rate Clock Generator



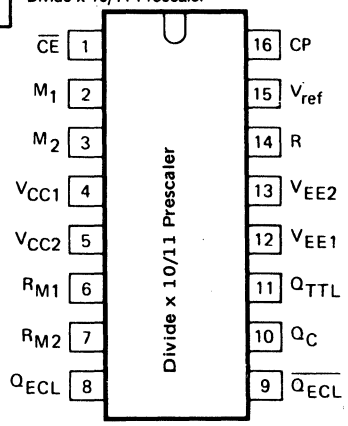
H01-48 Programmable Frequency Divider/Digital Timer



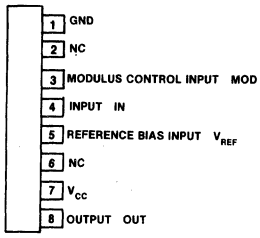
H02-11 Synchronous Decade Rate Multiplier



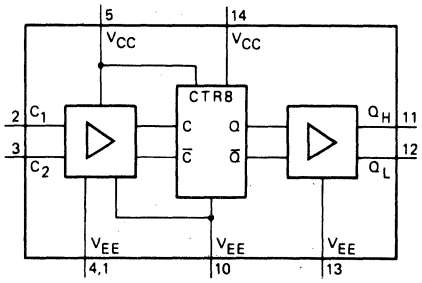
H02-13 Divide x 10/11 Prescaler



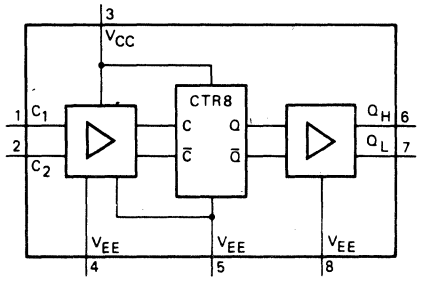
H01-38



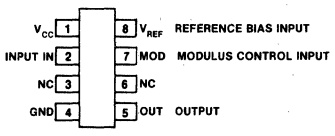
H02-14 950MHz Divider x 256



H02-15 950MHz Divider x 256

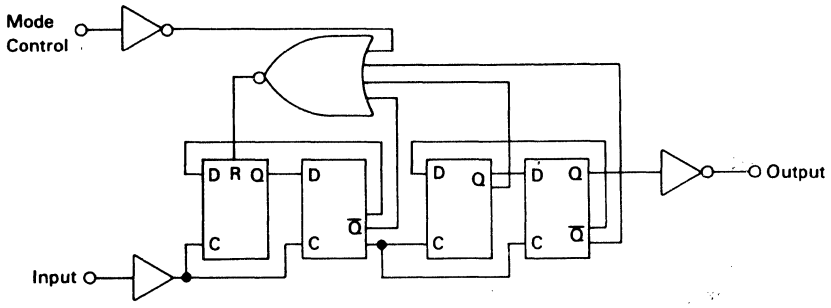


H01-43

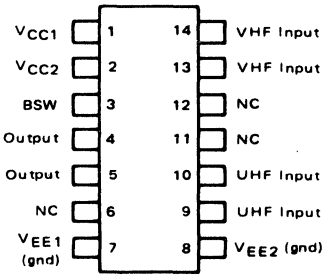


29. CIRCUIT DRAWINGS

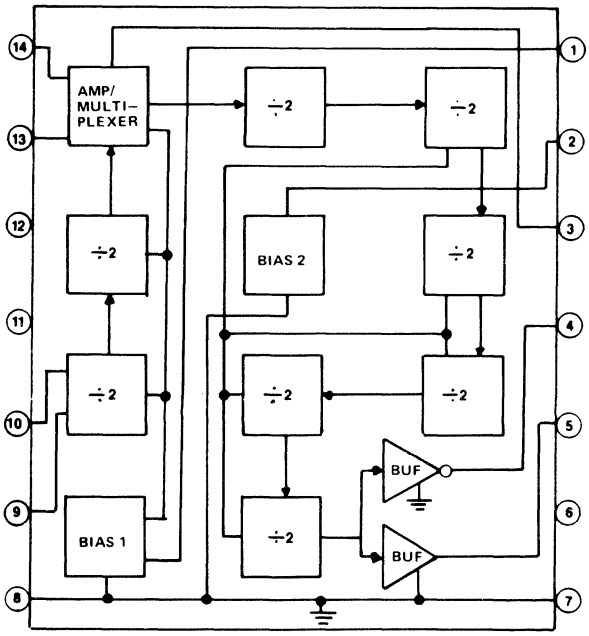
H01-17 2 Modulus Prescaler



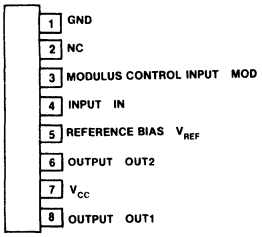
H01-19 High-Speed Prescaler



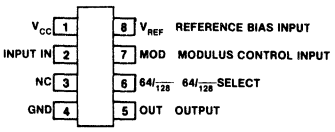
H01-20 1.25 GHz Prescaler



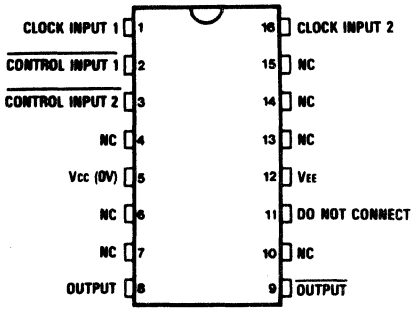
H01-41



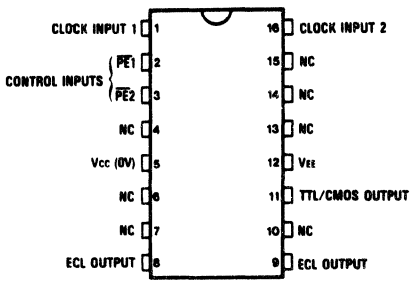
H01-42



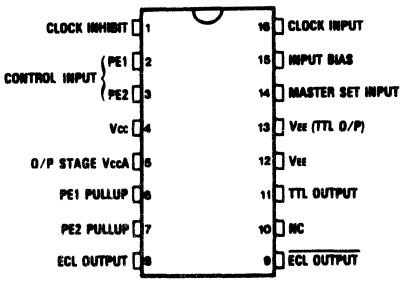
H01-21 350M Divide x 10/11



H01-22 250MHz Divide x 10/11



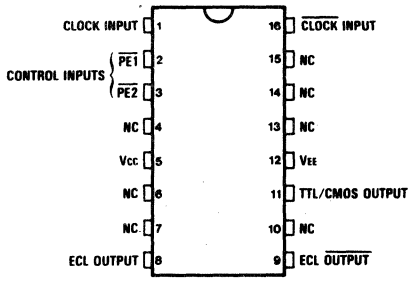
H01-23 600MHz Divide x 10/11



29. CIRCUIT DRAWINGS

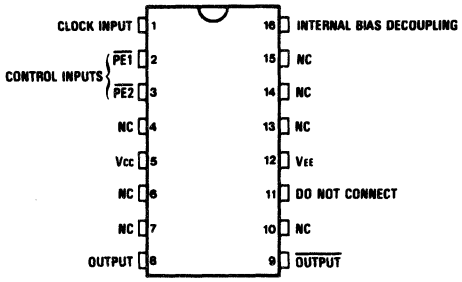
H01-24

H01-24 — 200 MHz Divide x 10/11
H01-24a — 200 MHz Divide x 8/9



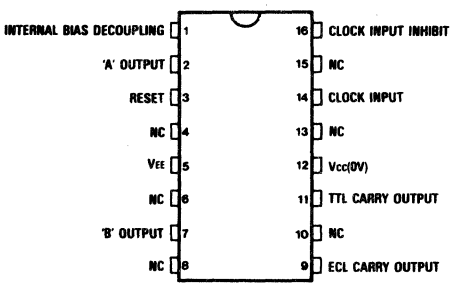
H01-26

300Mhz Divide x 3/4



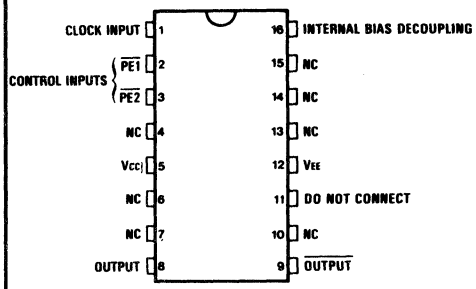
H01-27

600MHz Divide x 8(Binary Outputs)



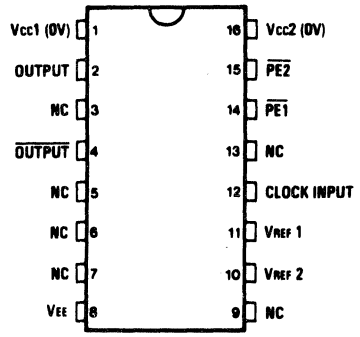
H01-28

H01-28 — 300MHz Divide x 5/6
H01-28a — 300MHz Divide x 6/7
H01-28b — 450MHz Divide x 8/9
H01-28c — 500MHz Divide x 8/9



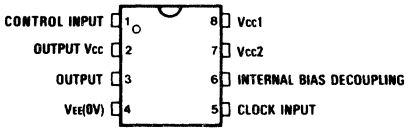
H01-32

H01-32 — 1.0GHz Divide x 20/22
H01-32a — 1.3GHz Divide x 20/22



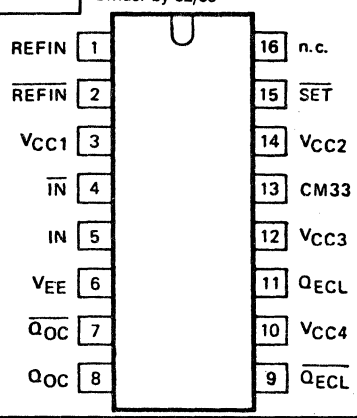
H01-34

H01-34 — 225MHz Divide x 80/81
H01-34a — 225MHz Divide x 40/41
H01-34b — 200MHz Divide x 80/81
H01-34c — 200MHz Divide x 40/41



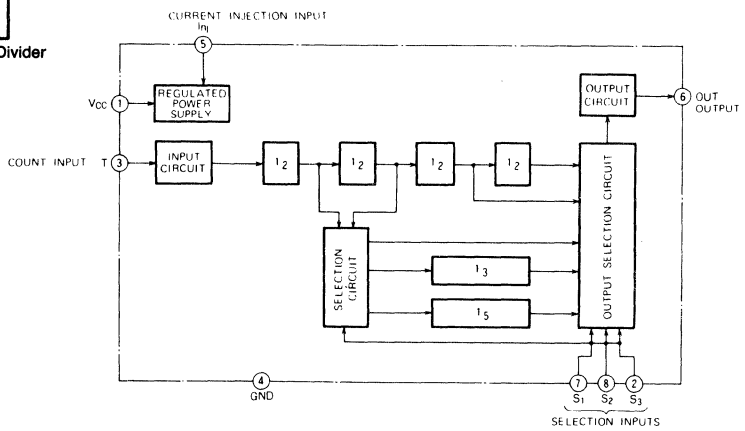
H01-35

125 MHz Amplifier and Divider-by-32/33



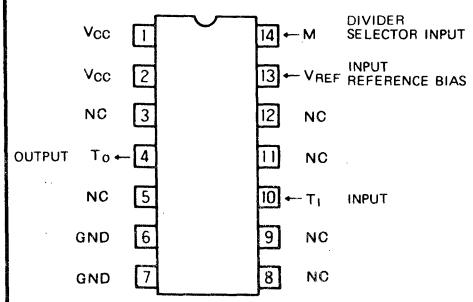
H01-36

Presettable Divider



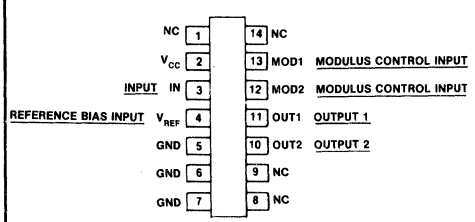
H01-37

1/64, 1/256 Divider
Universal Divider

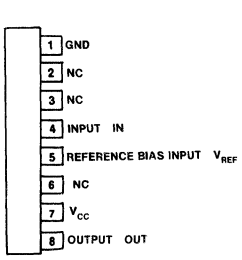


NC : NO CONNECTION

H01-40



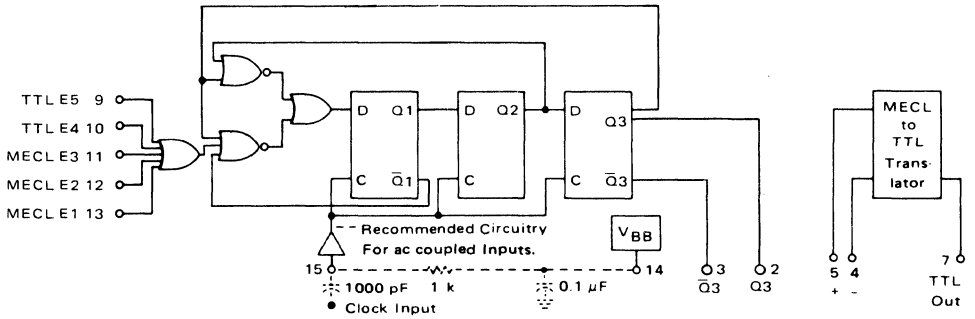
H01-39



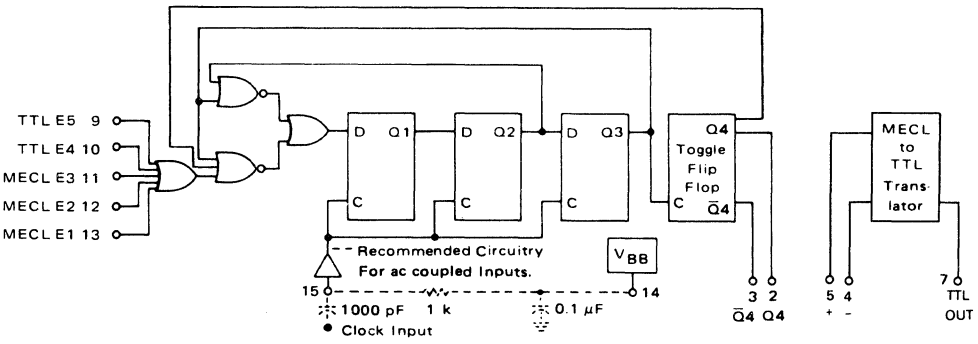
29. CIRCUIT DRAWINGS

H01-16 Two-Modulus Prescaler

H01-16 (÷ 5/6)

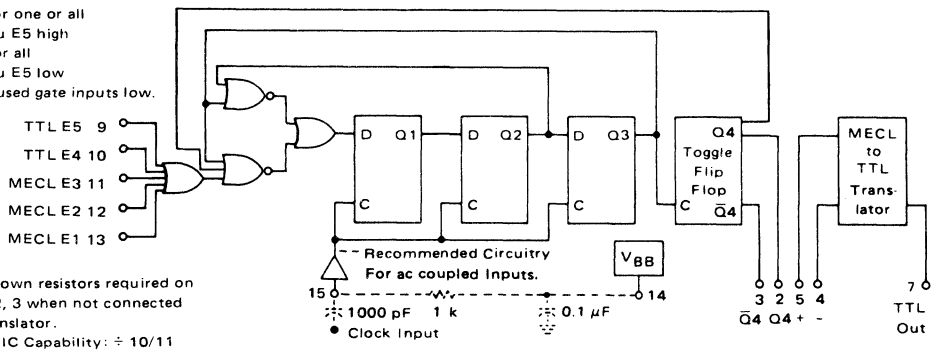


H01-16a (÷ 8/9)



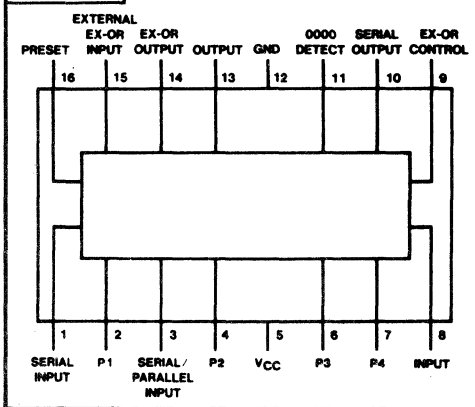
H01-16b (÷ 10/11)

÷ 10 for one or all E1 thru E5 high
÷ 11 for all E1 thru E5 low
Tie unused gate inputs low.

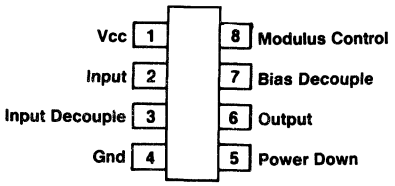


Pull-down resistors required on Pins 2, 3 when not connected to translator.
Basic IC Capability: ÷ 10/11

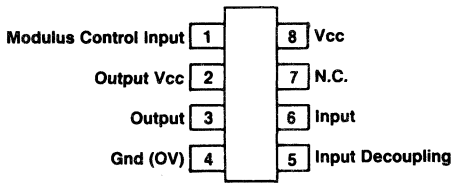
H01-50 Modulo-N Divider, 2-15



H01-51 Divide By 128/129



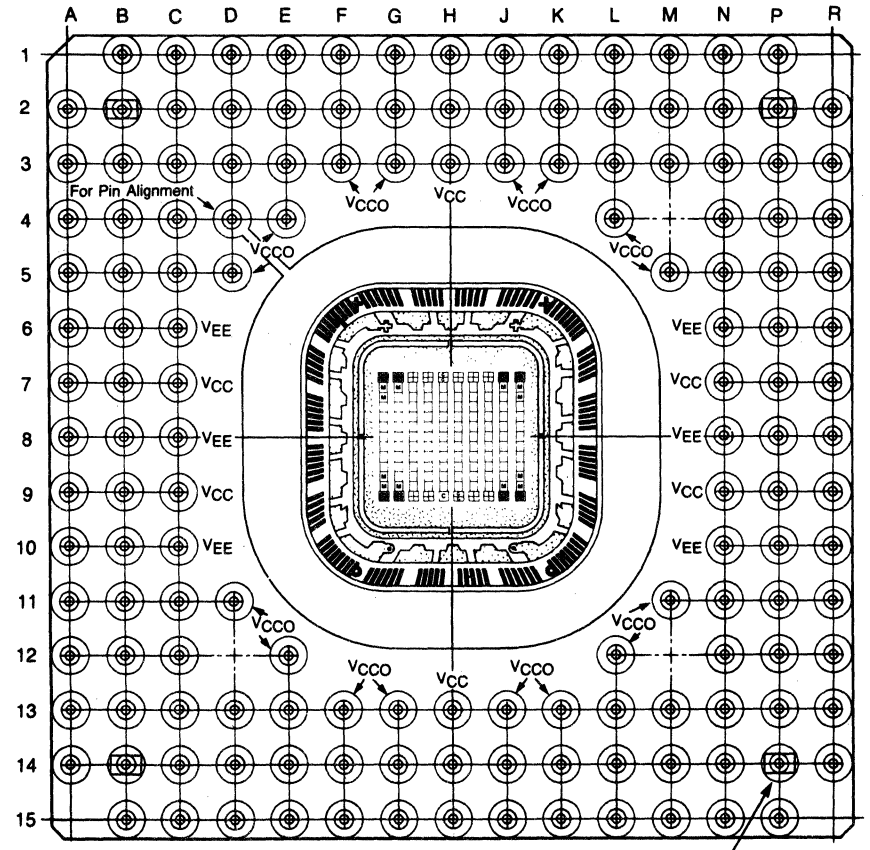
H01-52 Two Modulus Divider



X00-26 12 x 12 Multiplier

Signal	Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal	Pin
P0	M13	P23	D1	$\overline{E7}$	P2	Y6	A13	$\overline{M2}$	R13
P1	L13	X0	G15	$\overline{E8}$	P1	Y7	B12	$\overline{M3}$	R10
P2	M15	X1	H15	$\overline{E9}$	M3	Y8	P8	$\overline{M4}$	R9
P3	K14	X2	A6	$\overline{E10}$	L3	Y9	A8	$\overline{M5}$	R7
P4	K15	X3	B8	$\overline{E11}$	L1	Y10	C12	$\overline{M6}$	P5
P5	N15	X4	B7	$\overline{E12}$	M2	Y11	C14	$\overline{M7}$	P3
P6	L15	X5	A7	$\overline{E13}$	N2	YS	E14	$\overline{M8}$	P4
P7	J15	X6	B14	$\overline{E14}$	K1	$\overline{YSE}$	B11	$\overline{M9}$	R2
P8	J14	X7	A14	$\overline{E15}$	F2	$\overline{YL}$	A11	$\overline{M10}$	R3
P9	N14	X8	F14	$\overline{E16}$	G1	$\overline{K0}$	R12	$\overline{M11}$	R4
P10	L2	X9	D15	$\overline{E17}$	N1	$\overline{K1}$	P12	CLK1	A4
P11	M1	X10	A12	$\overline{E18}$	D2	$\overline{K2}$	N11	CLK2	A3
P12	H1	X11	C11	$\overline{E19}$	D3	$\overline{K3}$	R11	C1	B15
P13	H2	XS	C15	$\overline{E20}$	F1	$\overline{K4}$	P9	C2	C13
P14	J1	$\overline{XSE}$	A9	$\overline{E21}$	C3	$\overline{K5}$	R8	$\overline{PM1}$	M14
P15	G2	$\overline{XL}$	B13	$\overline{E22}$	A2	$\overline{K6}$	P6	$\overline{PN11}$	K2
P16	E3	$\overline{E0}$	P14	$\overline{E23}$	D14	$\overline{K7}$	P7	$\overline{PN}$	E15
P17	C1	$\overline{E1}$	P15	Y0	F15	$\overline{K8}$	N5	$\overline{PE}$	R6
P18	B2	$\overline{E2}$	N13	Y1	G14	$\overline{K9}$	B3	FPS	P11
P19	C2	$\overline{E3}$	L14	Y2	A10	$\overline{K10}$	B6	$\overline{PL}$	A5
P20	B1	$\overline{E4}$	R14	Y3	B10	$\overline{K11}$	P10	PS	J2
P21	E1	$\overline{E5}$	N4	Y4	D13	$\overline{M0}$	N12	MM	B9
P22	E2	$\overline{E6}$	N3	Y5	E13	$\overline{M1}$	P13	TMD	H14

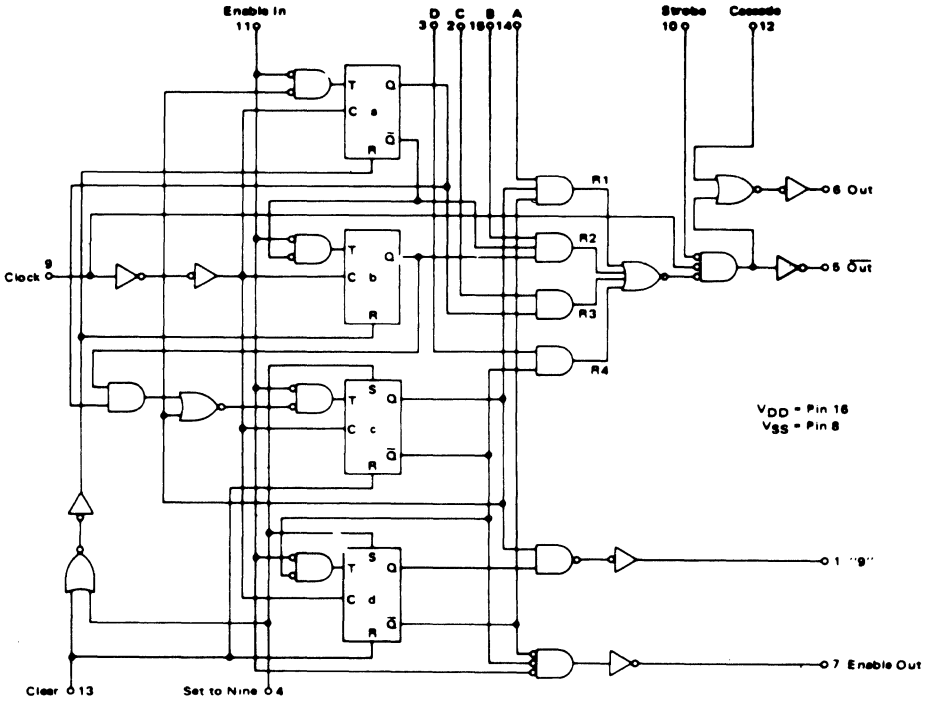
FIGURE 14 — PIN LOCATION FOR 149 PIN GRID ARRAY PACKAGE



NOTES: V_{CC} pins — H3, H13, C7, N7, C9, N9
V_{EE} pins — C8, N8, C6, N6, C10, N10
V_{CCO} pins — F3, G3, J3, K3, E4, L4, D5, M5, D11, M11, E12, L12, F13, G13, J13, K13
Pin D4 is connected to the seal ring, but isolated electrically.

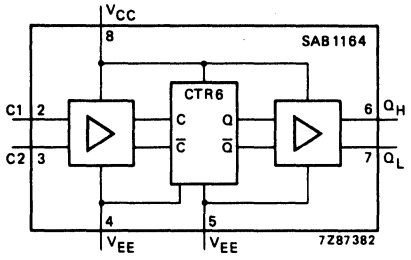
29. CIRCUIT DRAWINGS

H02-3 BCD Rate Multiplier

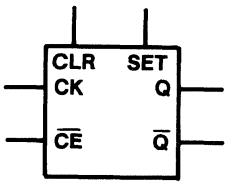


H03-87 1 GHz Divide x 64

H03-87a 1GHz ÷ 256



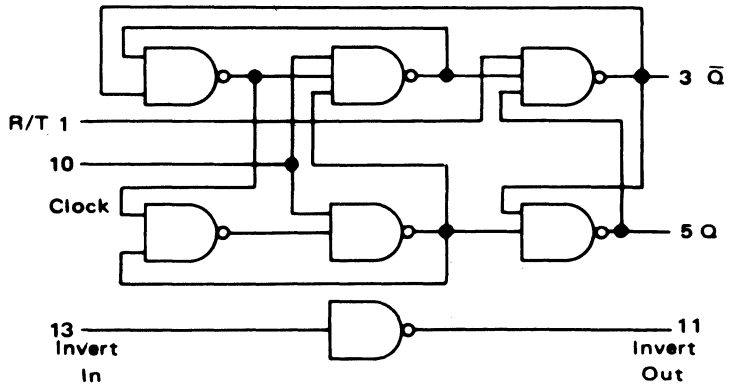
H03-88 GaAs Divide-By-Two/Prescaler



PIN NO.	SYMBOL	FUNCTION
1	NC	No Connection
2	NC	No Connection
3	CK	Input Clock
4	GND	Ground (RF)
5	CE	Clock Enable
6	$-V_{SS}$	Supply Voltage
7	GND	Ground (DC)
8	$+V_{DD}$	Supply Voltage
9	Q	Data Ouput
10	Common	Common Output Connection*
11	Q	Data Output
12	GND	Ground
13	CLEAR	CLEAR
14	SET	SET
15	NC	No Connection
16	NC	No Connection

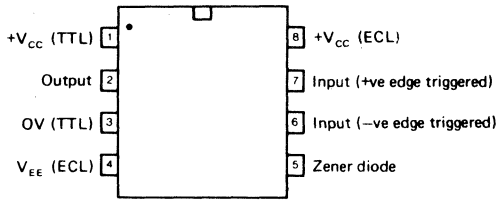
*Connect the common output connection to GND for ECL level outputs.

K05-10

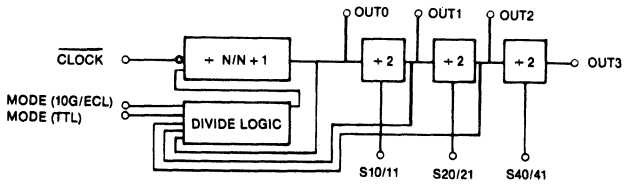


29. CIRCUIT DRAWINGS

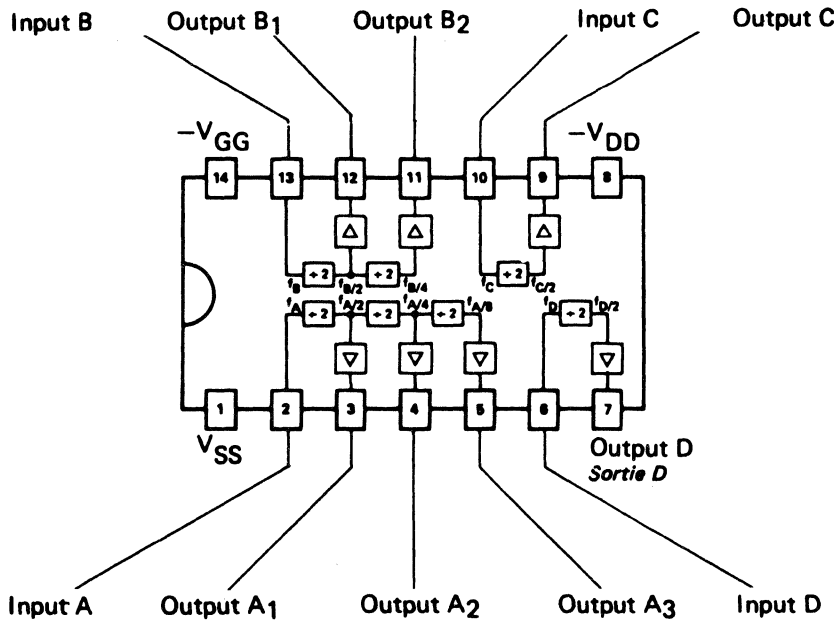
H03-89 150 MHz Divide by 100 Prescaler



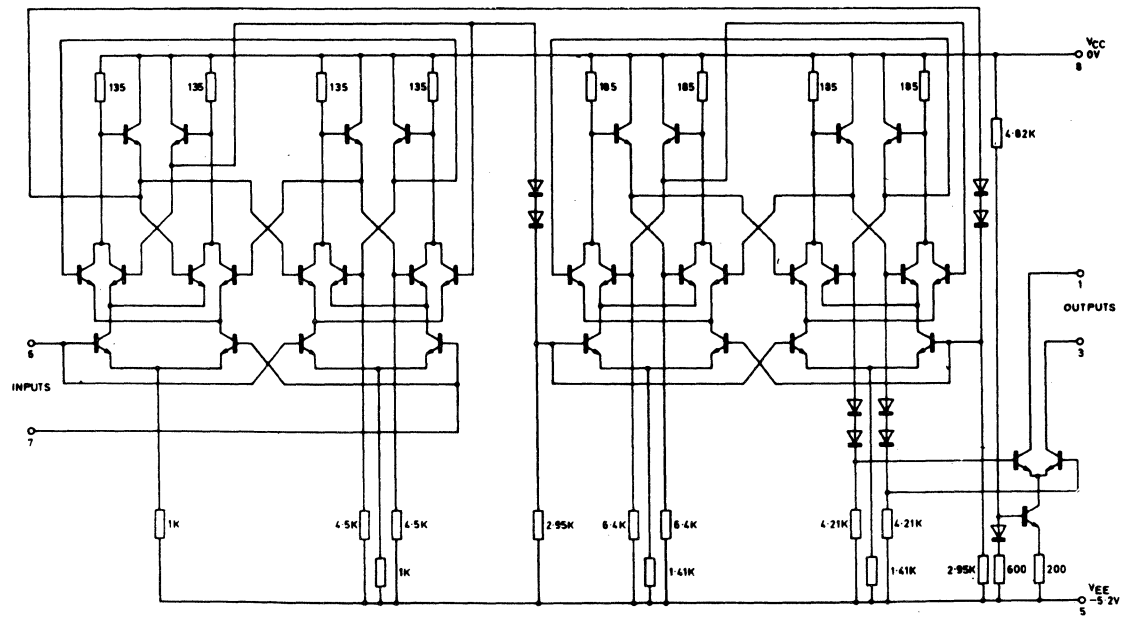
H01-53 Variable Modulus Divider



H03-1 Frequency Dividers with Push-Pull Buffer

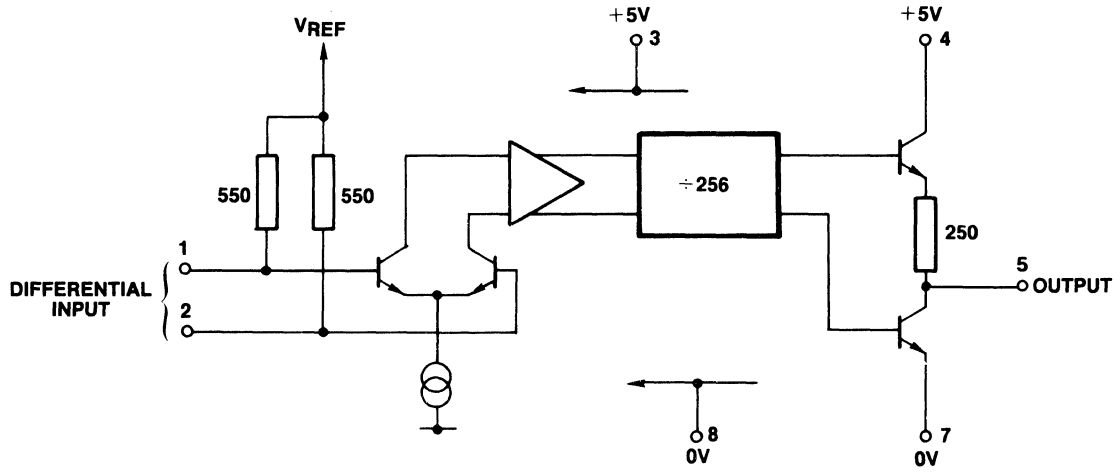


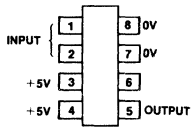
H03-2 250 MHz Divide x 4



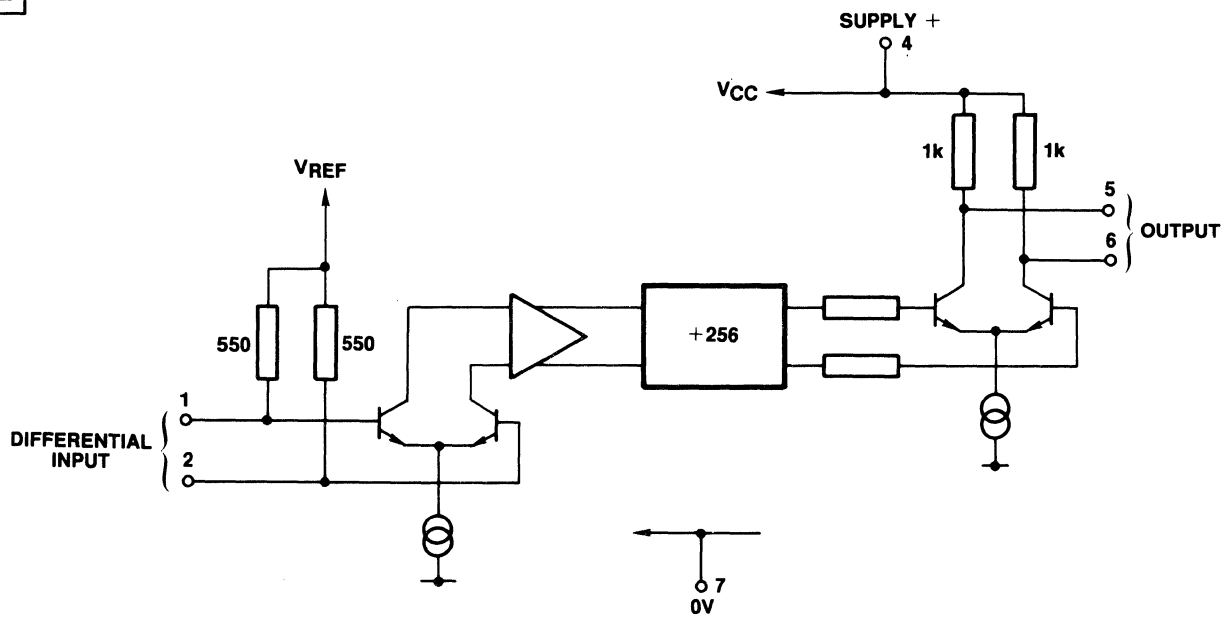
29. CIRCUIT DRAWINGS

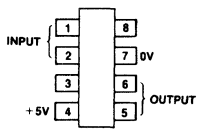
H03-91 1GHz ÷ 256 Prescaler





H03-92 1GHz ÷ 256

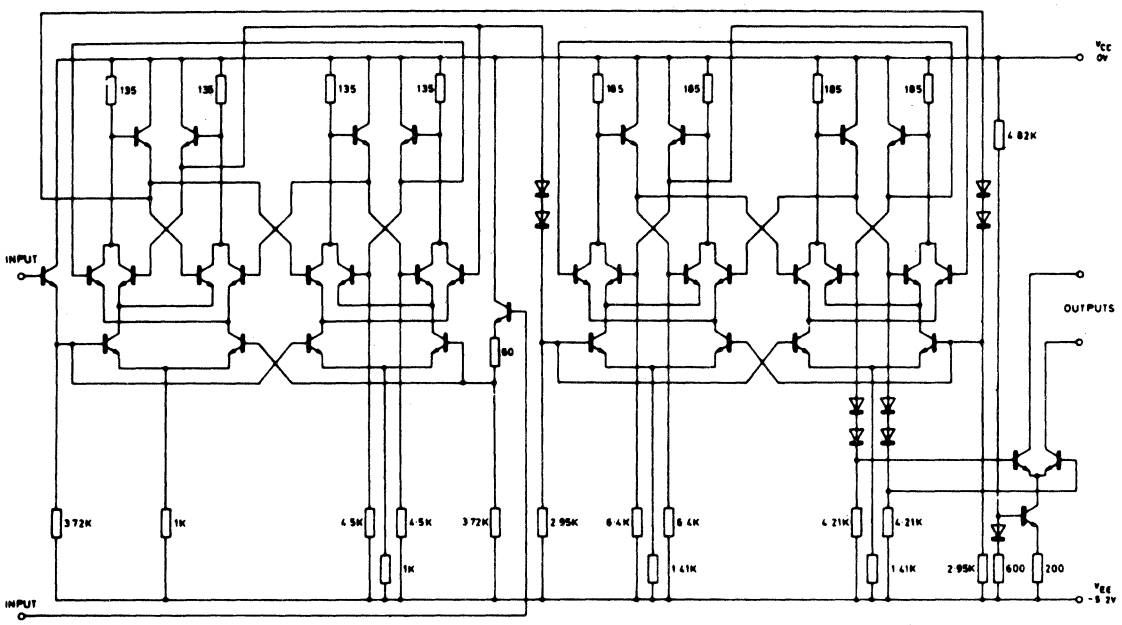




29. CIRCUIT DRAWINGS

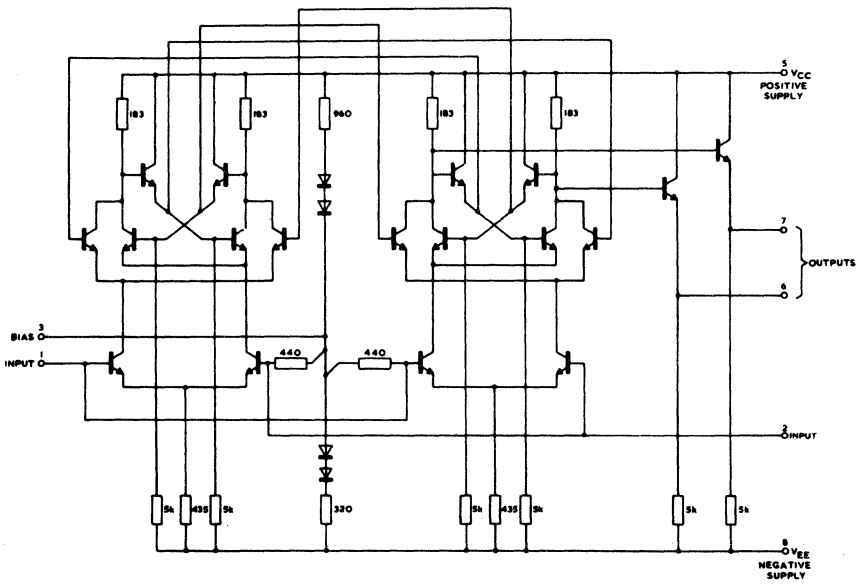
H03-3

150 MHz Divide x 4



H03-4

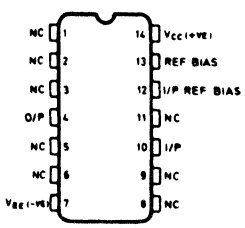
500 MHz Divide x 2



H03-4a: 300 MHz Divide x 2

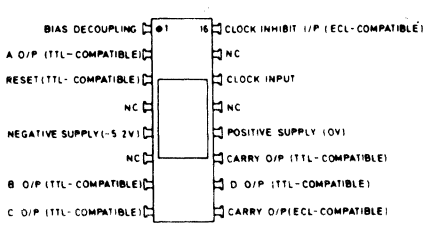
H03-7

600 MHz Divide x 10



H03-8

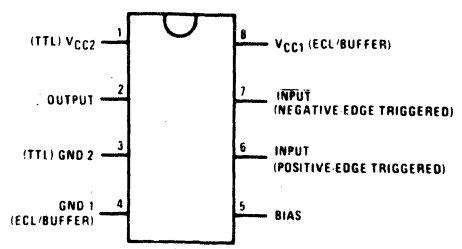
Decade Counters



H04-02

120 MHz Divide x 40 Prescaler

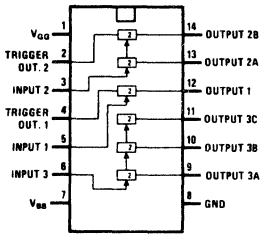
Dual-In-Line Package



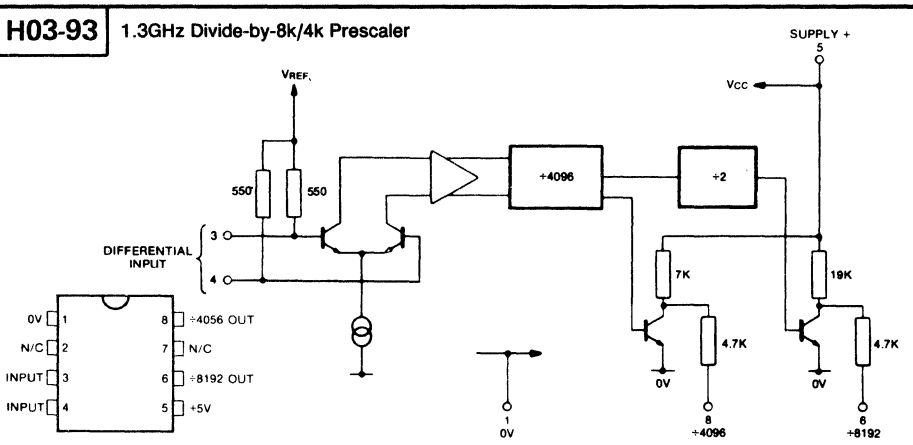
H04-02a: 120 MHz Divide x 100 Prescaler

29. CIRCUIT DRAWINGS

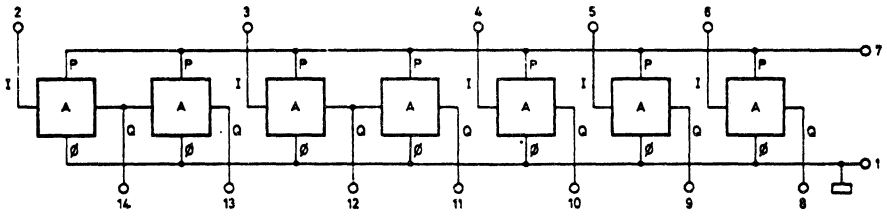
H03-22



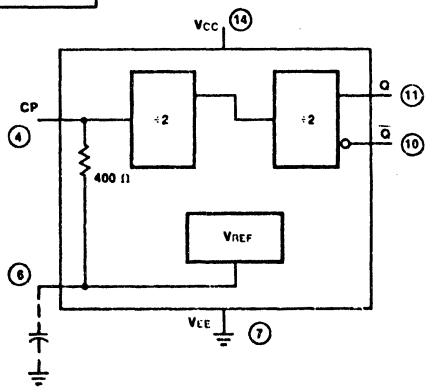
H03-93 1.3GHz Divide-by-8k/4k Prescaler



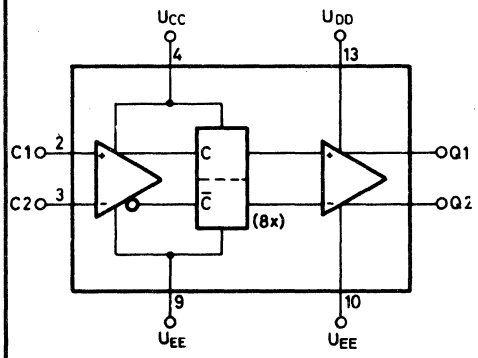
H03-46 Bipolar Frequency Divider



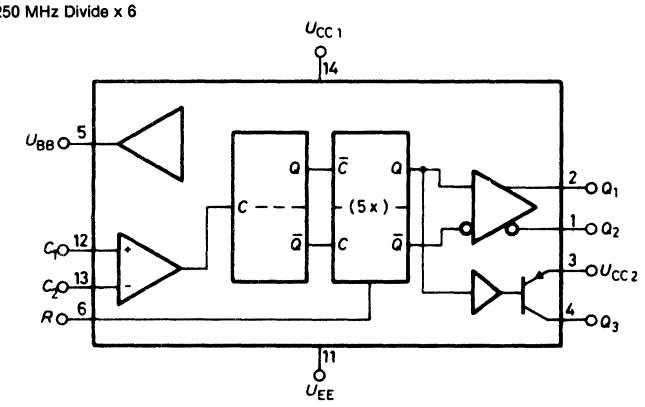
H03-48



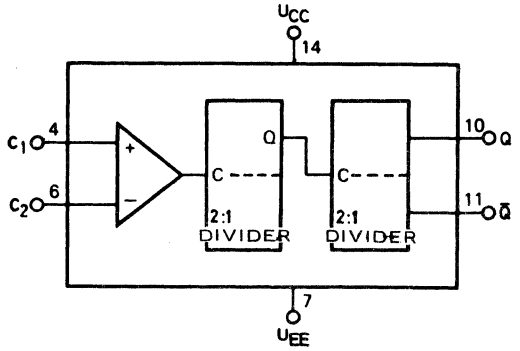
H03-50 1 GHz Divide x 8



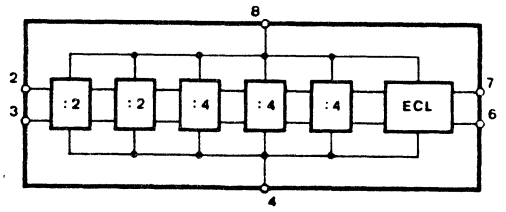
H03-51 250 MHz Divide x 6



H03-52 1 GHz Divide x 4



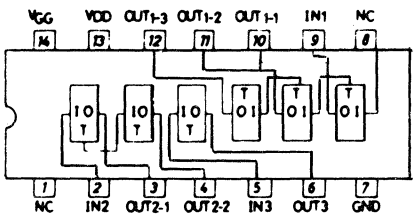
H03-102 1.5 GHZ Divide by 256



1 + 5 n.c.
2 + 3 HF inputs with internal bias voltage
4 GND, reference point
6 + 7 ECL outputs
8 V_S

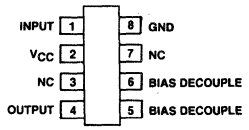
29. CIRCUIT DRAWINGS

H03-55



H03-58

Divide x 20 Prescaler

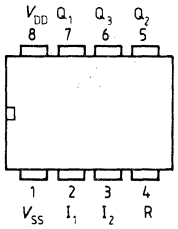


H03-59

1000:1, 100:1, 10:1 Divider

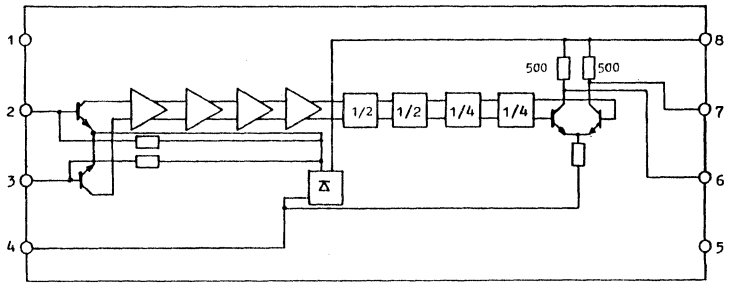
Pin configuration
top view

I = Inputs
Q = Outputs
R = Reset input



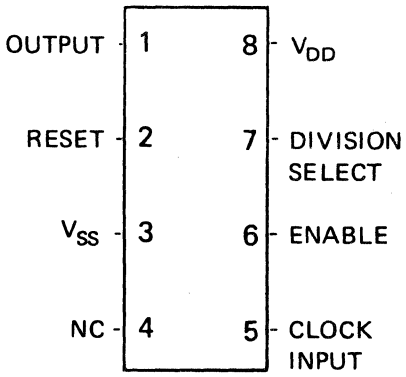
H03-61

1 GHz Divide x 6



H03-62

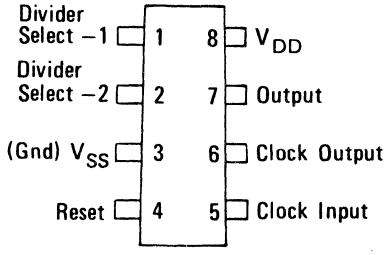
Divide x 5/6;
Divide x 50/60



H03-63

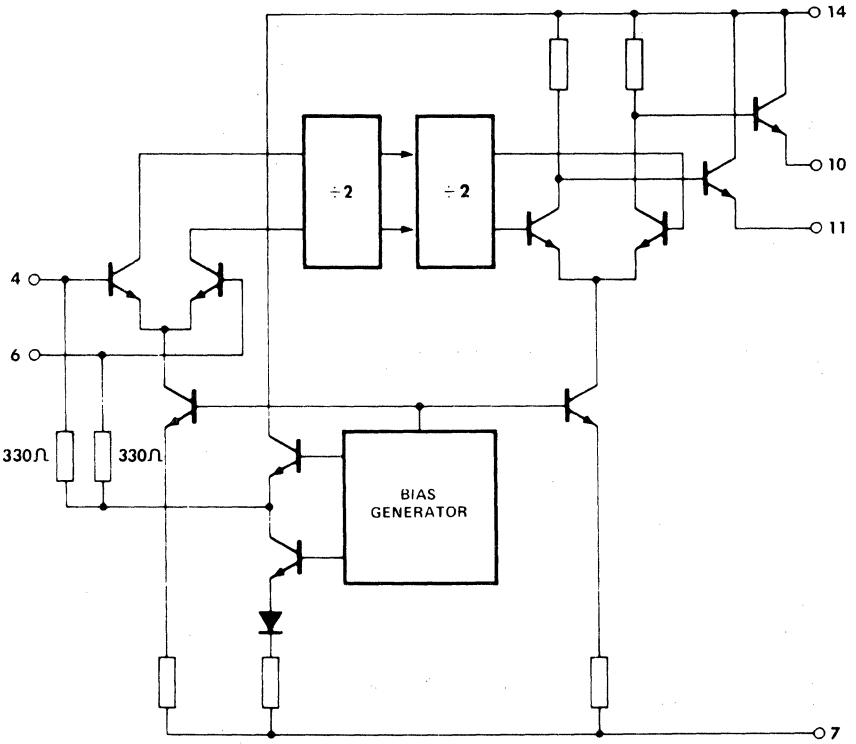
Selectable 4 Decade Divider

(+5 to +15 VDC)



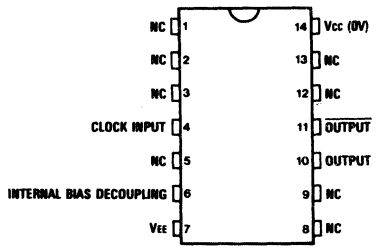
H03-64

4-to-1 Frequency Divider



H03-65

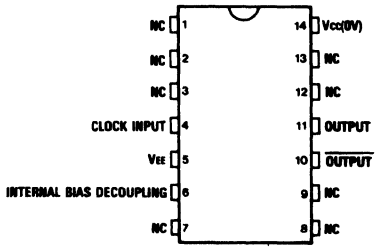
H03-65 — 100MHz Divide x 2



29. CIRCUIT DRAWINGS

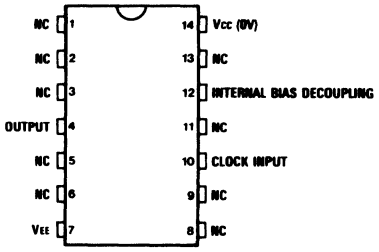
H03-66

H03-66 — 1.0GHz Divide x 4
H03-66a — 1.3G/1.5GHz Divide x 4
H03-66b — 1.8GHz Divide x 4
H03-66c — 1.3GHz Divide x 4
H03-66d — 1.5GHz Divide x 4



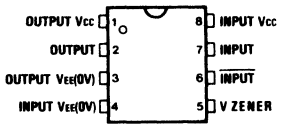
H03-67

H03-67 — 400MHz Divide x5
H03-67a — 600MHz Divide x 10



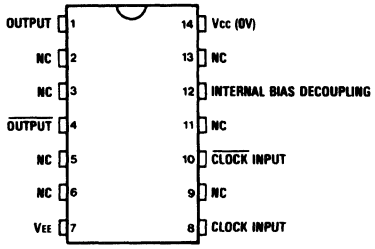
H03-68

150MHz Divide x 100



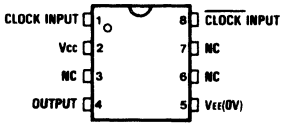
H03-75

H03-75 — 600MHz Divide x 16
H03 -75a — 600MHz Divide x 8



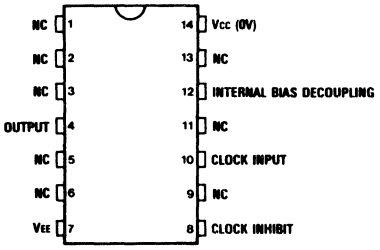
H03-76

H03-76 — 200MHz Divide x 20
H03-76a — 150MHz Divide x 10



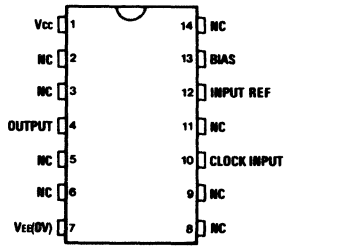
H03-79

H03 -79 — 1.0GHz Divide x 8
H03-79a — 1.5GHz Divide x 8



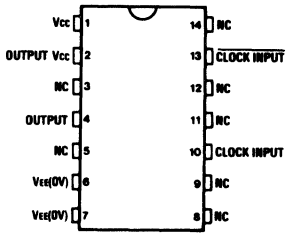
H03-81

1.2G Divide x 64



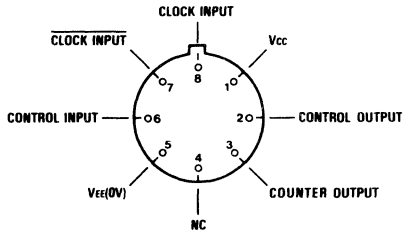
H03-82

1.25GHz Divide x 256



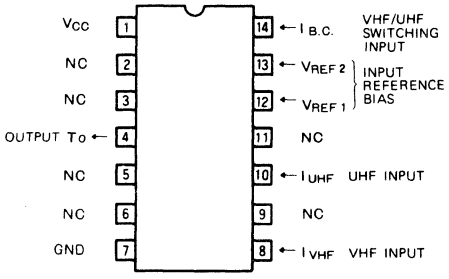
H03-83

60MHz Divide x 8 (2 Modulus Extender)



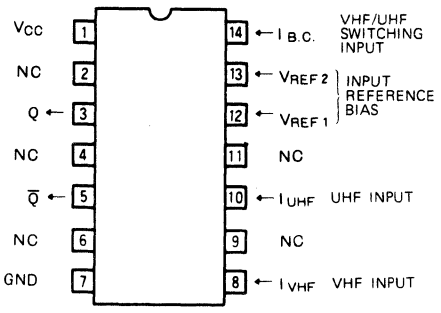
H03-84

1.2 GHz 1/256 Divider



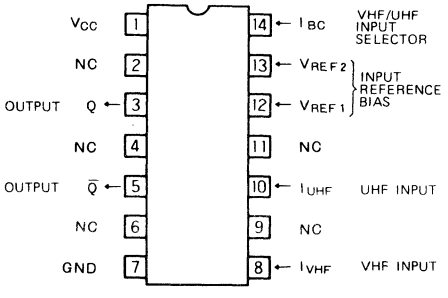
H03-85

1.2 GHz 1/64 Divider



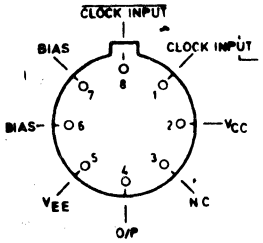
H03-86

1.25 GHz 1/128 Divider



29. CIRCUIT DRAWINGS

H03-10

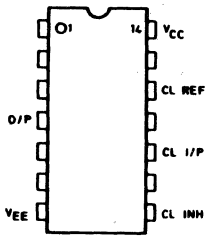


H03-10: 200 MHz Divide x 32
H03-10a: 200 MHz Divide x 20
H03-10b: 200 MHz Divide x 16

H03-11

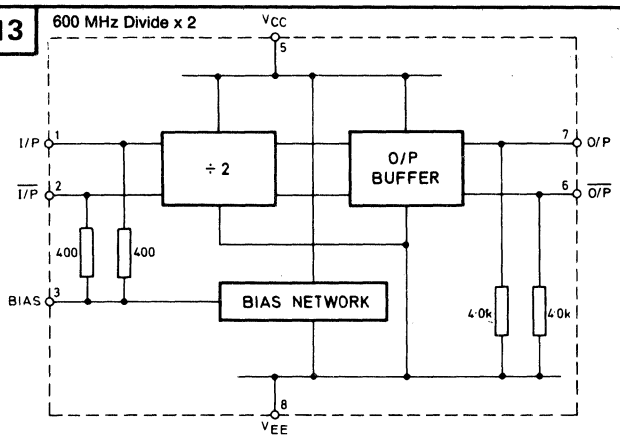
H03-11a — 1.5GHxz Divide x 10

1.0 GHz Divide x 10



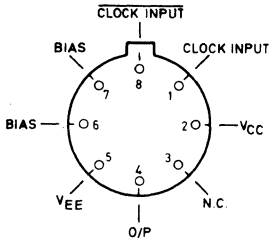
H03-13

600 MHz Divide x 2



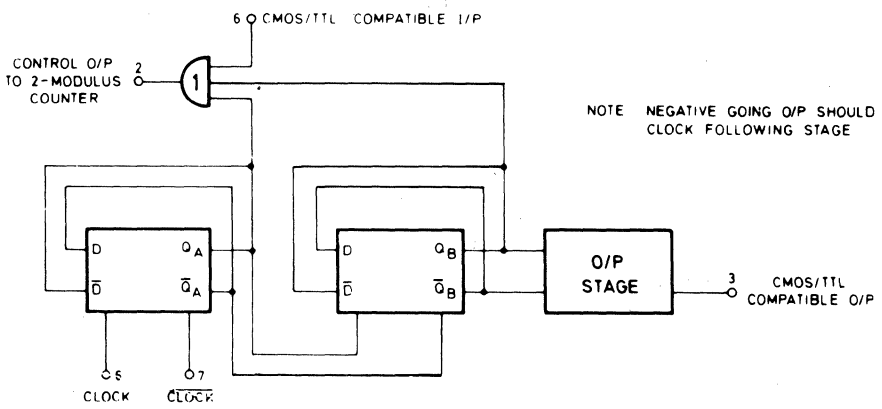
H03-14

150 MHz Divide x 10



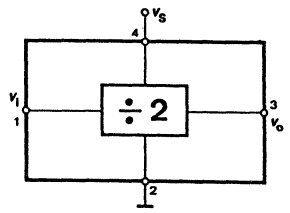
H03-16

60 MHz Divide x 4



H03-100

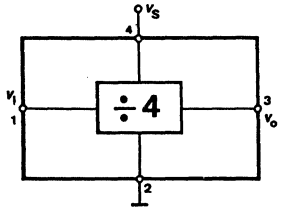
Divide by 2



1 Input
2 Ground, reference point
3 Output
4 V_S

H03-101

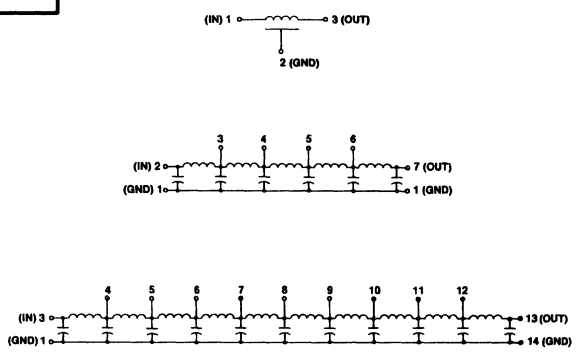
Divide by 4



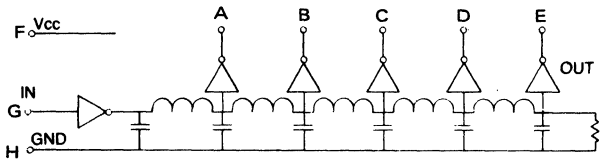
1 Input
2 Ground, reference point
3 Output
4 V_S

29. CIRCUIT DRAWINGS

J01-1

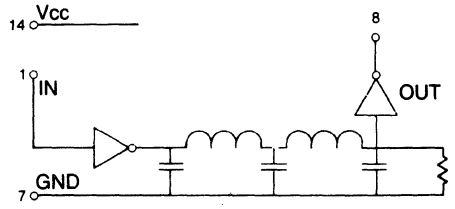


J01-11 5-Tap Delay

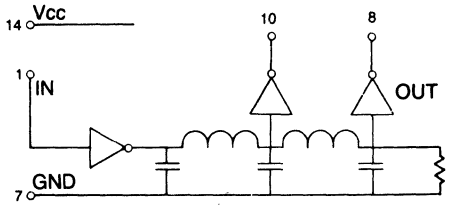


Device	A	B	C	D	E	F	G	H	Special Features
J01-11	12	4	10	6	8	14	1	7	
J01-11a	12	4	10	6	8	14	1	7	Positive/Negative Edge Control; 14 Pins
J01-11b	12	4	10	6	3	14	1	7	Dynamic RAM Timing Precision; 14 Pins
J01-11c	14	4	12	6	10	16	1	8	Dynamic RAM Timing Precision; 16 Pins

J01-12



J01-13

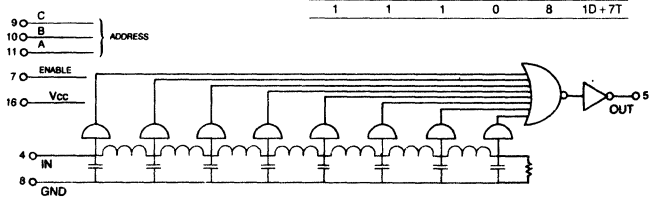


J01-14 Programmable Time Delay

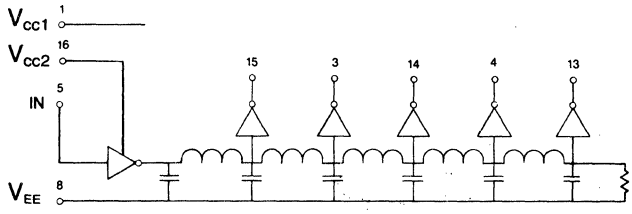
When Eo is 1, no output
1D = inherent delay
T = tap to tap delay

PROGRAMMING TABLE

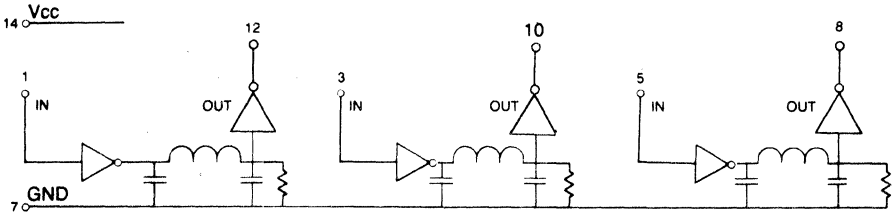
A	B	C	Eo	Tap #	Delay
0	0	0	0	1	1D
1	0	0	0	2	1D+T
0	1	0	0	3	1D+2T
1	1	0	0	4	1D+3T
0	0	1	0	5	1D+4T
1	0	1	0	6	1D+5T
0	1	1	0	7	1D+6T
1	1	1	0	8	1D+7T



J01-15 ECL 5-Tap Delay

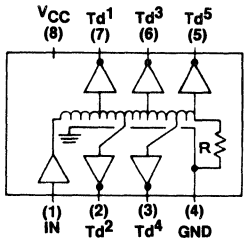


J01-16 3-Tap Delay

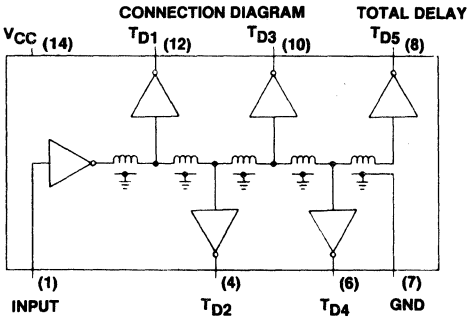


29. CIRCUIT DRAWINGS

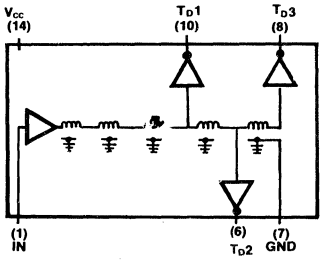
J01-17 5-Tap Delay



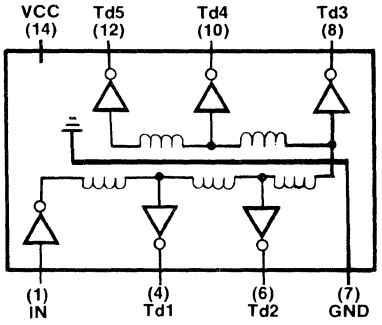
J01-18 5-Tap Delay



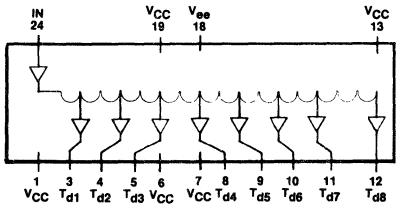
J01-19 3-Tap Delay



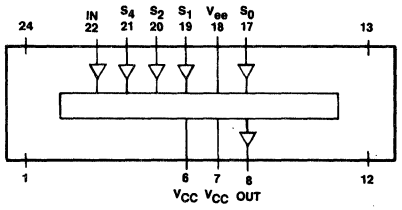
J01-20 5-Tap Delay



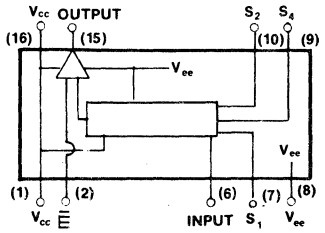
J01-21 8-Tap Delay



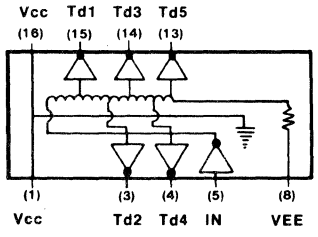
J01-22 Programmable Delay



J01-23 Programmable Delay

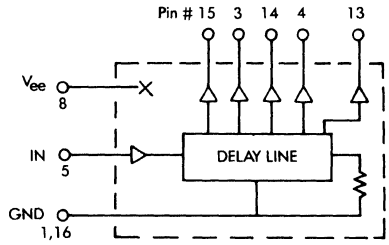


J01-24 5-Tap Delay



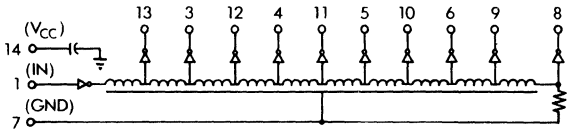
29. CIRCUIT DRAWINGS

J01-25 5-Tap Delay

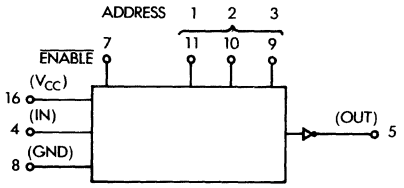


Pull-down resistor on output taps not provided inside unit.

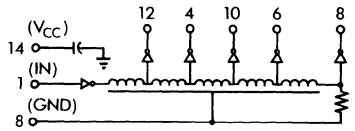
J01-26 10-Tap Delay



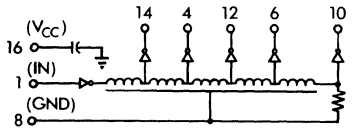
J01-27 8-Step Programmable Delay Line



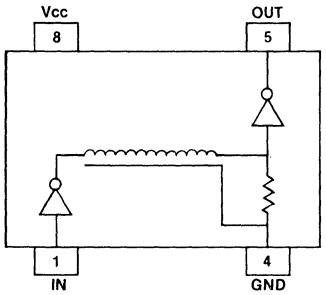
J01-28 5-Tap Delay



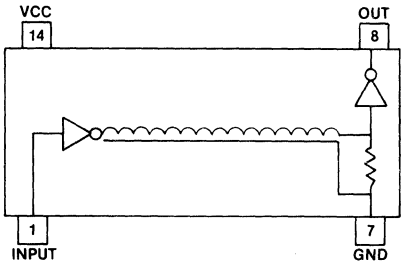
J01-29 5-Tap Delay



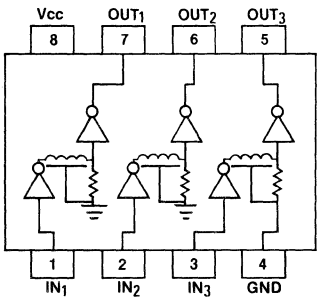
J01-30 Fixed Delay Module



J01-31 Fixed Delay Module

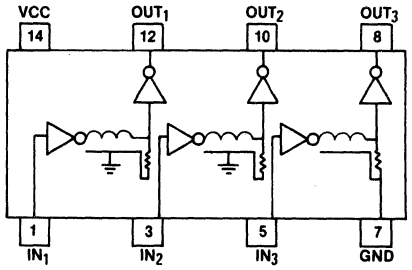


J01-32 Fixed Delay Module, 3 Independent Lines

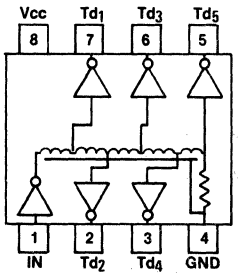


29. CIRCUIT DRAWINGS

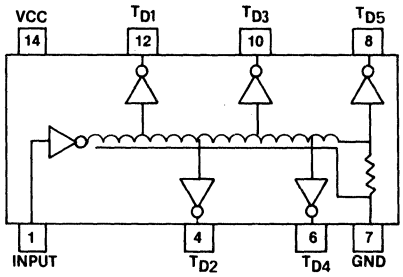
J01-33 Fixed Delay Module, 3 Independent Lines



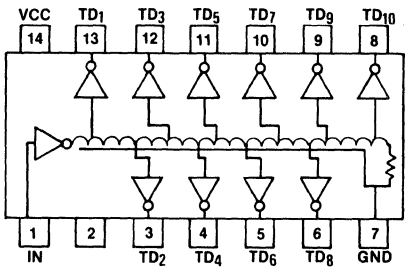
J01-34 5-Tap Delay



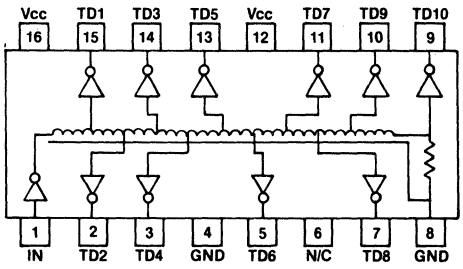
J01-35 5-Tap Delay



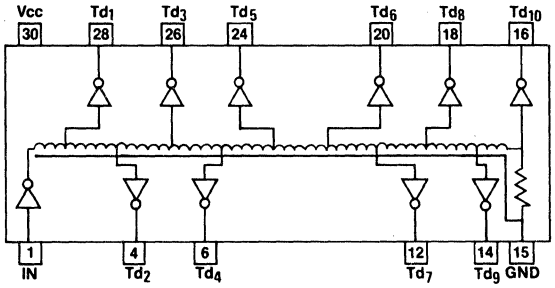
J01-36 10-Tap Delay



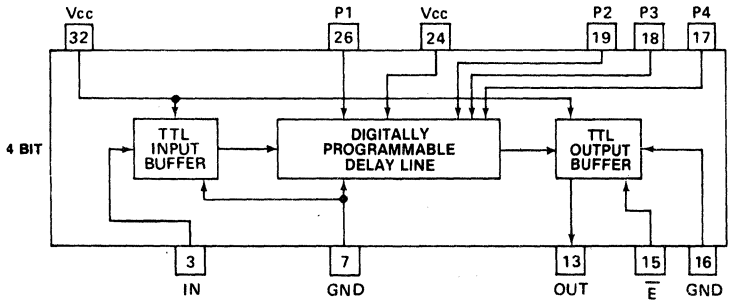
J01-37 10-Tap Delay



J01-38 10-Tap Delay

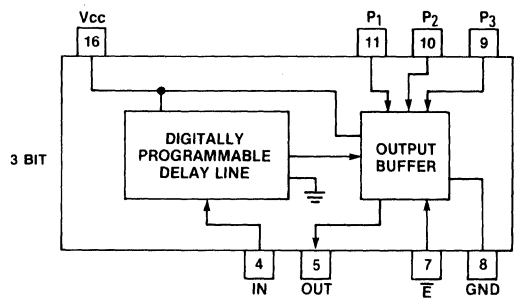


J01-39 4-Bit Programmable Logic Delay Module



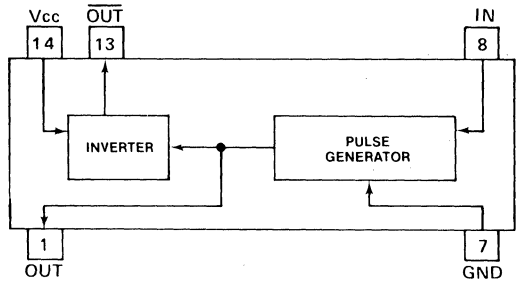
29. CIRCUIT DRAWINGS

J01-40 3-Bit Programmable Logic Delay Module

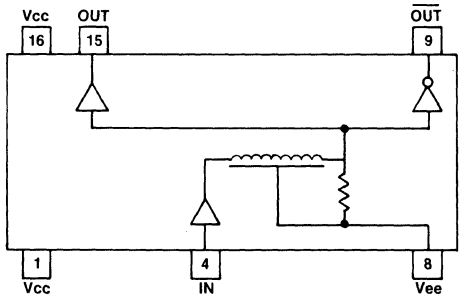


J01-41 Pulse Width Generator

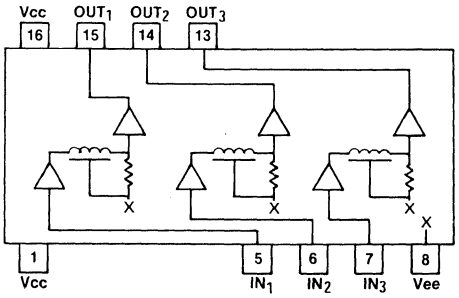
WHITE DOT (NOTCH) DENOTES PIN 1.



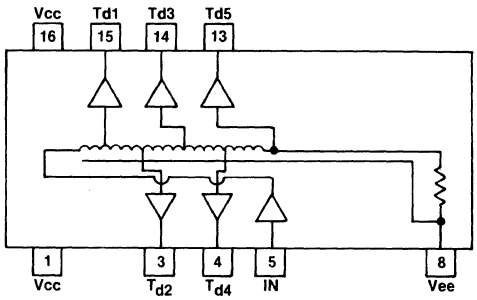
J01-42 Fixed Delay Module



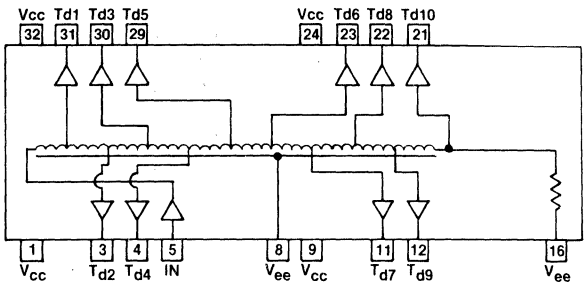
J01-43 Fixed Delay Modle, 3 Independent Lines



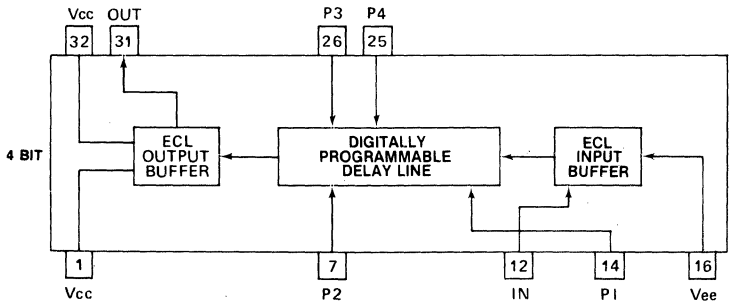
J01-44 5-Tap Delay



J01-45 10-Tap Delay

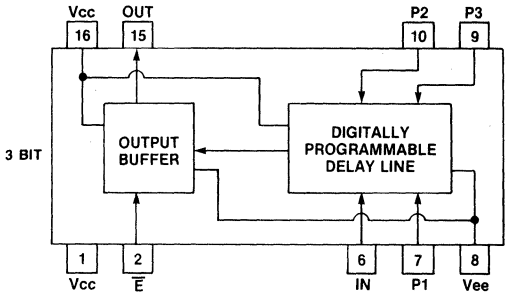


J01-46 4-Bit Programmable Delay Module

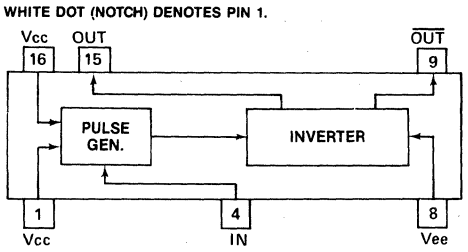


29. CIRCUIT DRAWINGS

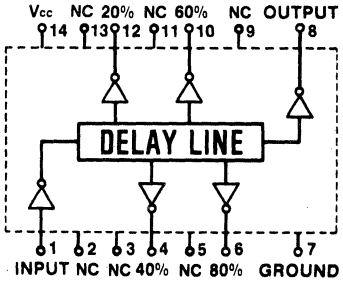
J01-47 3-Bit Programmable Module



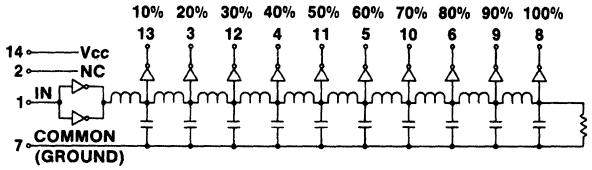
J01-48 Pulse Width Generator



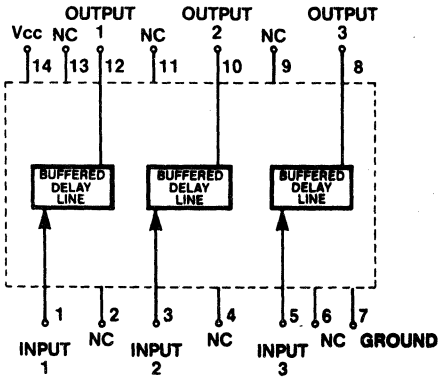
J01-49 5-Tap Digital Delay Line



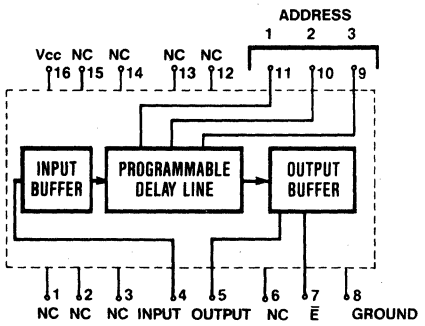
J01-50 10-Tap Digital Delay Line



J01-51 3-Input/3 Output Digital Delay Purposes

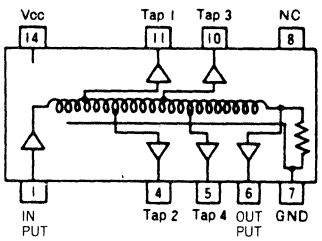


J01-52 3-Bit Programmable Delay Line

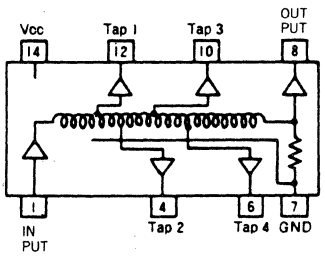


Specifications Subject to Change Without Notice

J01-53 5-Tap Buffered Delay Line

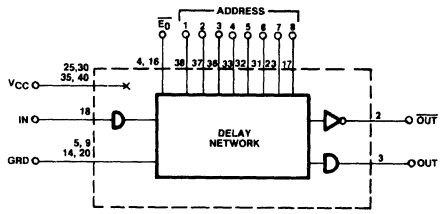


J01-54 5-Tap Buffered Delay Line



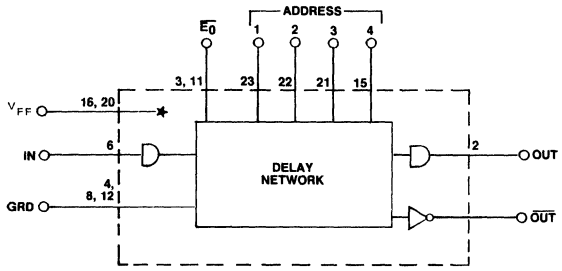
29. CIRCUIT DRAWINGS

J01-60 8-Bit Programmable Delay Line

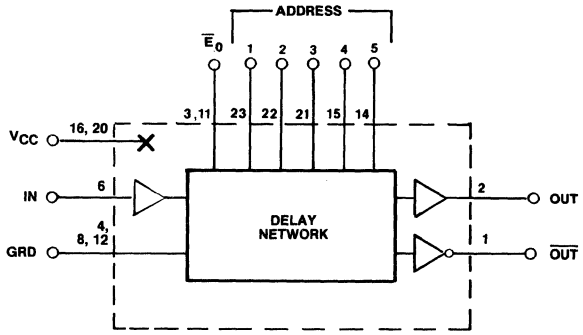


PART NUMBER	INCREMENTAL PULSE WIDTH PER STEP	TOTAL PROGRAMMED PULSE WIDTH
PPD-23-1	1 NS ± 4 NS	7 NS
PPD-23-2	2 NS ± 4 NS	14 NS
PPD-23-3	3 NS ± 5 NS	21NS
PPD-23-5	5 NS ± 6 NS	35 NS
PPD-23-10	10 NS ± 1.0 NS	70 NS
PPD-23-15	15 NS ± 1.3 NS	105 NS
PPD-23-20	20 NS ± 1.5 NS	140 NS
PPD-23-40	40 NS ± 2.0 NS	280 NS
PPD-23-50	50 NS ± 2.5 NS	350 NS

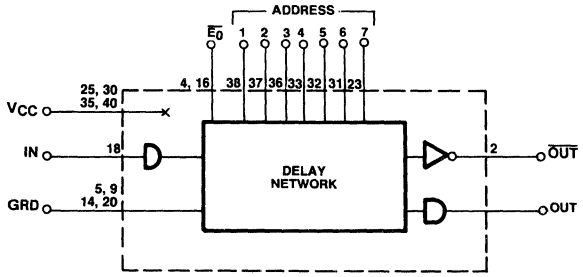
J01-56 4-Bit Programmable Delay Line



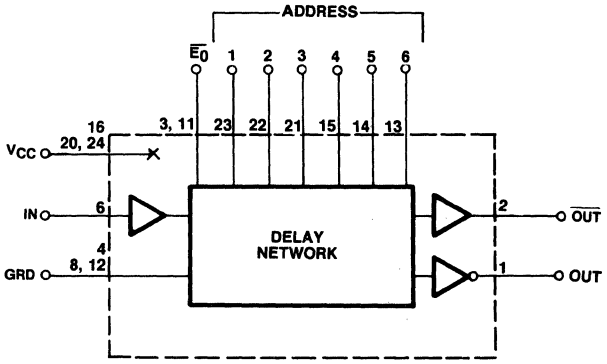
J01-57 5-Bit Programmable Delay Line



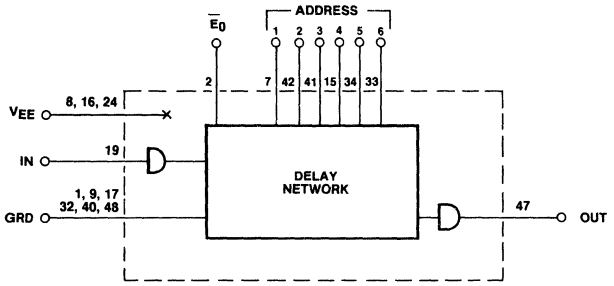
J01-58 6-Bit Programmable Delay Line



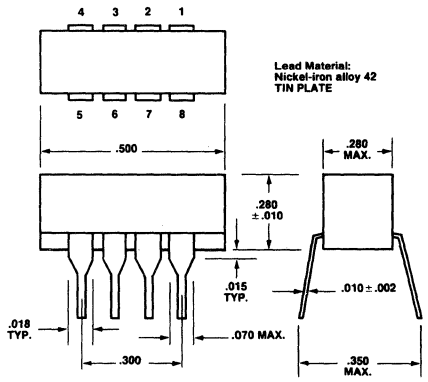
7-Bit Programmable Delay Line

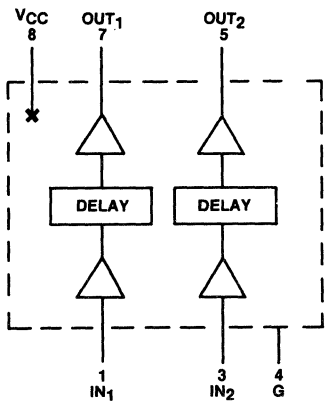


J01-61 6-Bit Programmable Delay Line



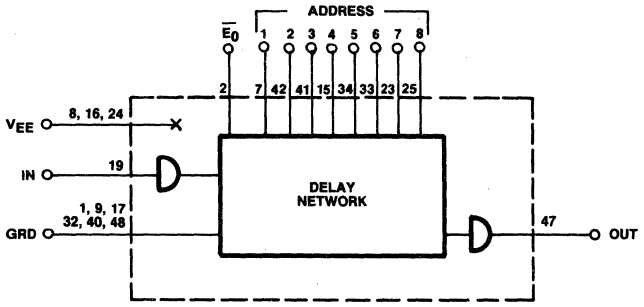
J01-55 Dual Digital Delay Line



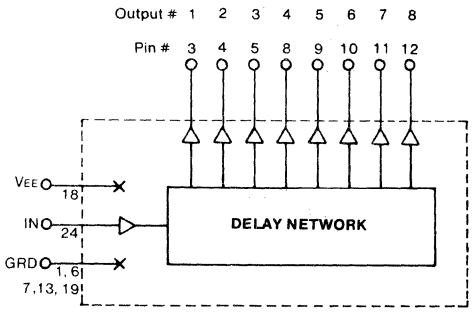


29. CIRCUIT DRAWINGS

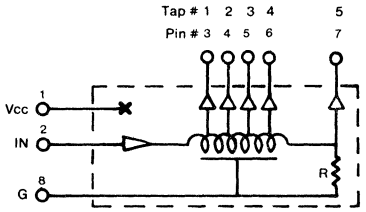
J01-62 8-Bit Programmable Delay Line



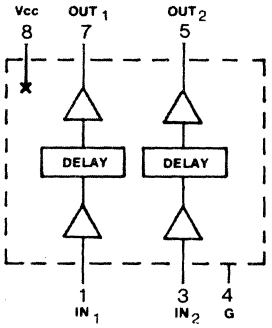
J01-63 8-Tap Digital Delay Line



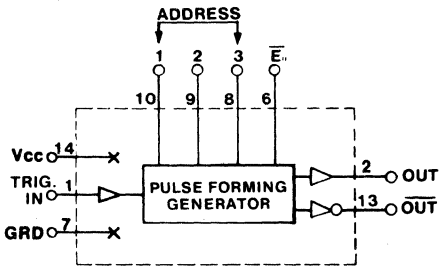
J01-64 5-Tap Digital Delay Line



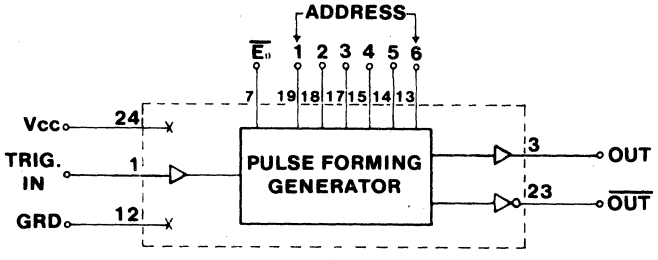
J01-65 Dual Digital Delay Line



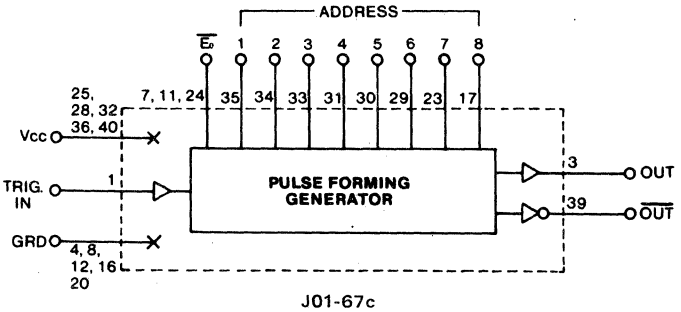
J01-67 Active Pulse Width Generator



J01-67a



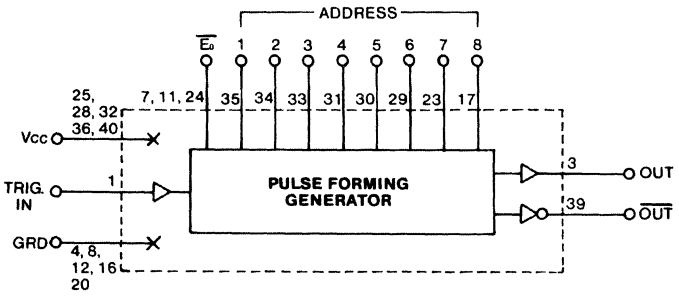
J01-67b



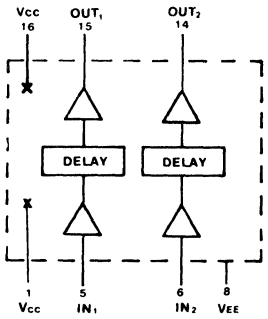
J01-67c

29. CIRCUIT DRAWINGS

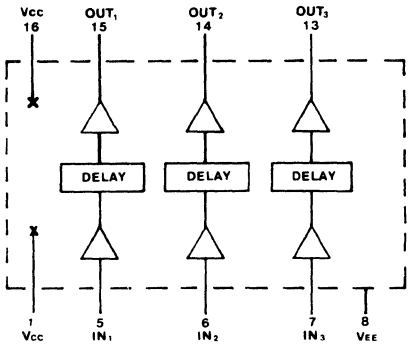
J01-66 Programmable Pulse Generator



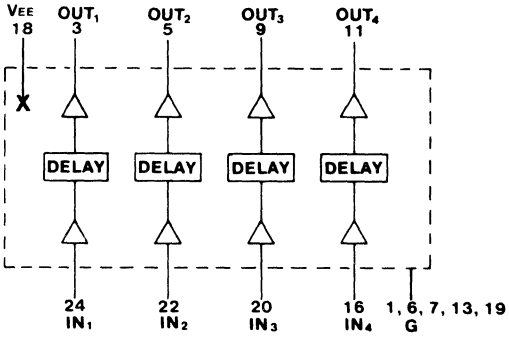
J01-68 Dual Delay Line



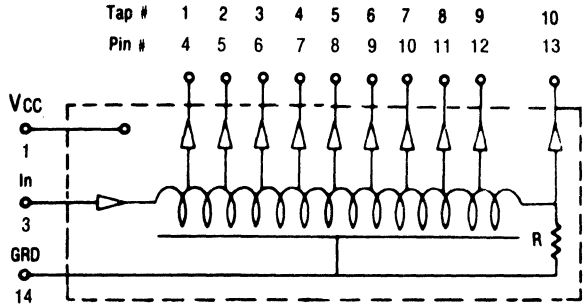
J01-69 Triple Delay Line



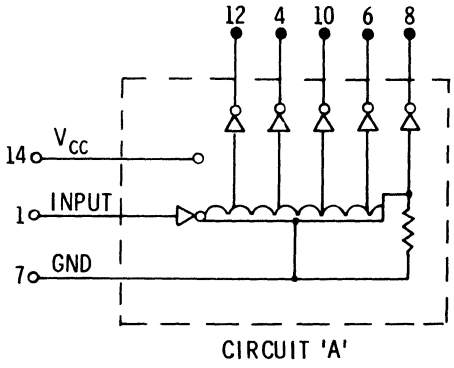
J01-70 Quad Delay line



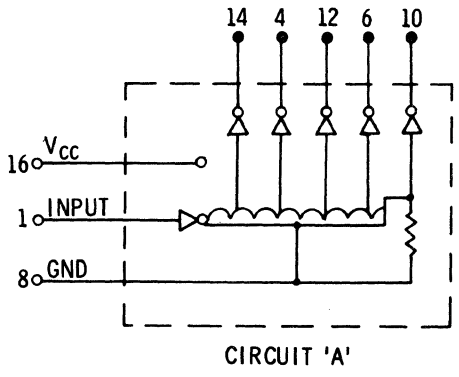
J01-71 10-Tap Delay



J02-1 Time Slot Assigner Circuit

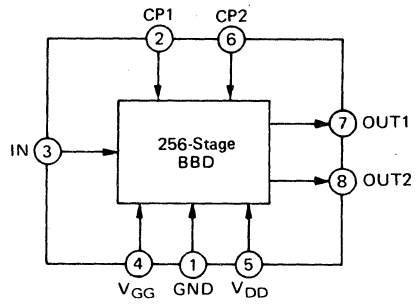


J02-2 Time Slot Assigner Circuit

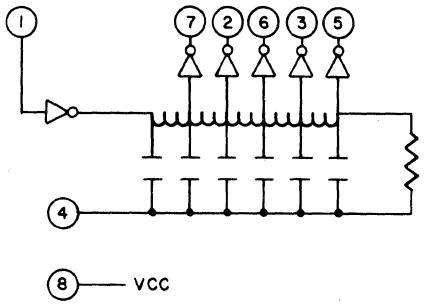


29. CIRCUIT DRAWINGS

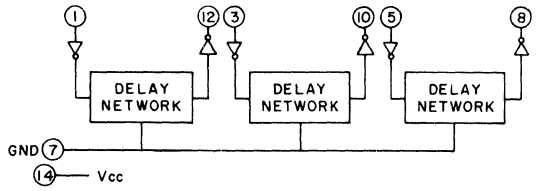
J03-14



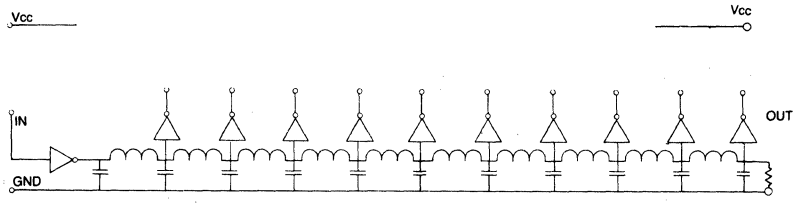
J02-6 Mini 5-Tap Delay



J02-7 3 Equal Independent Delays



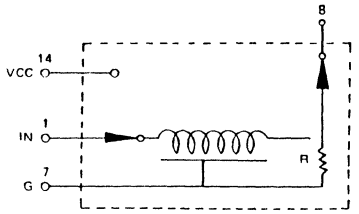
J02-8 Single-Delay Output – 14-Pin



Device	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
J02-8	13	3	12	4	11	5	10	6	9	8	14	1	7	NP	NP	
J02-8a	13	3	12	4	11	5	10	6	9	8	14	1	7	NP	NP	Dyn RAM Timing Precision; 14 Pins
J02-8b	2	3	4	5	6	11	12	13	14	15	16	1	8	NP	NP	Dyn RAM Timing Precision; 16 Pins
J02-8c	28	4	26	6	24	20	12	18	14	16	22	1	7	30	15	Dyn RAM Timing Precision; 30 Pins

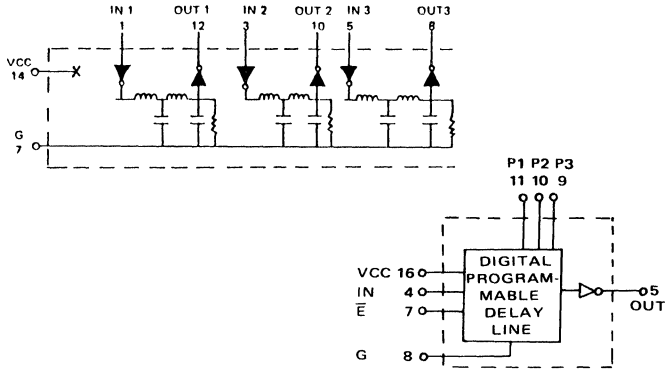
29. CIRCUIT DRAWINGS

J02-10 Single-Delay Output-14-Pin

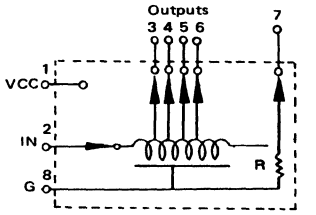


Schematic Diagram For Single Delay Output

J02-11

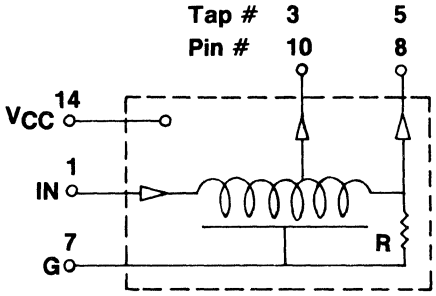


J02-12

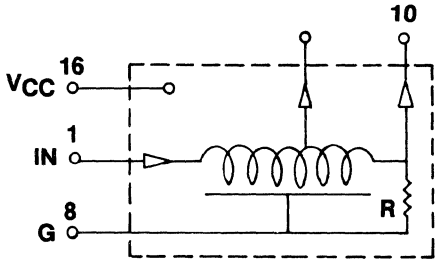


Schematic Diagram for 5 Delays Output

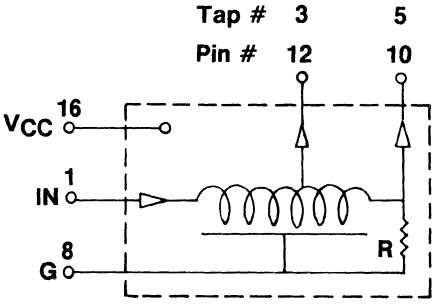
J02-13 2-Tap Delay



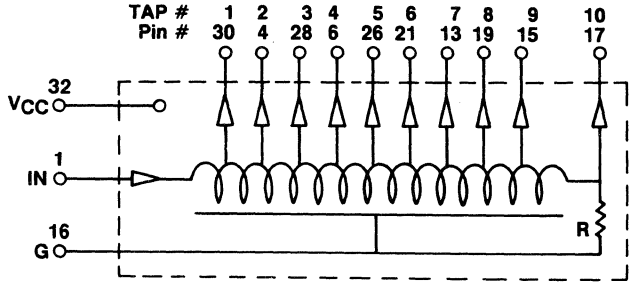
J02-14 Single-Delay Output – 16-Pin



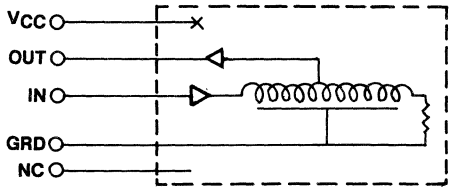
J02-15 2-Tap Delay



J02-16 10-Tap Delay

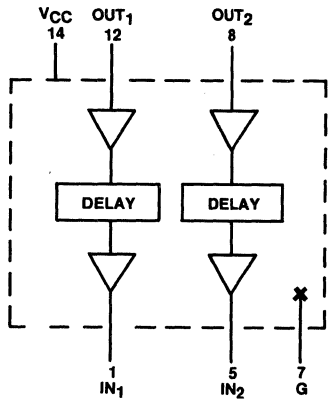


J02-17 Continuously Variable Delay

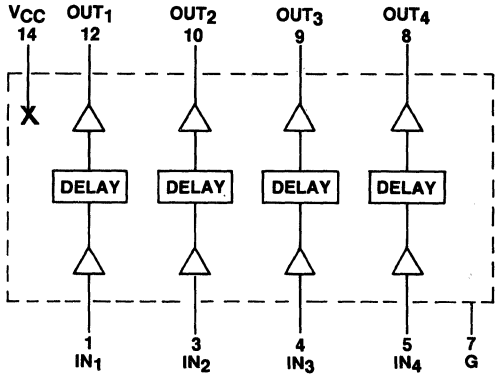


29. CIRCUIT DRAWINGS

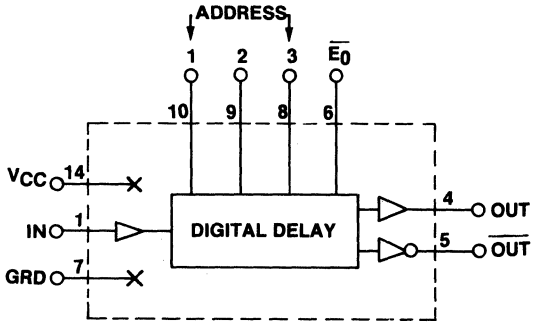
J02-18 Dual Fixed Delay



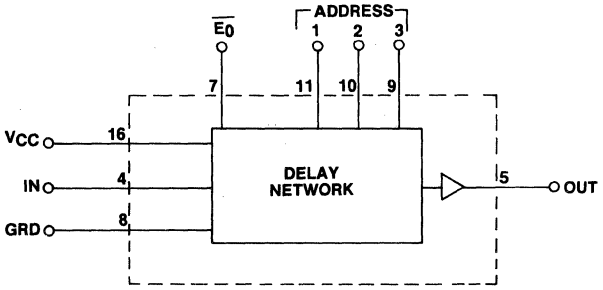
J02-19 Fixed Delay; Quad-Pack



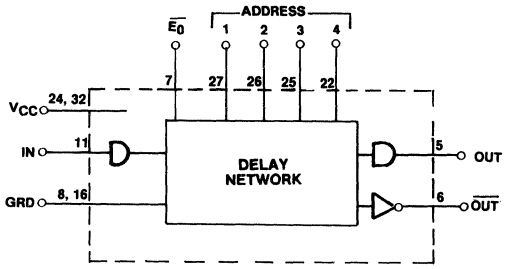
J02-21 3-Bit Programmable Delay Unit; Complementary Outputs



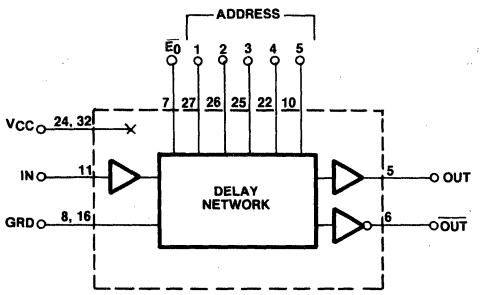
J02-20 3-Bit Programmable Delay Unit



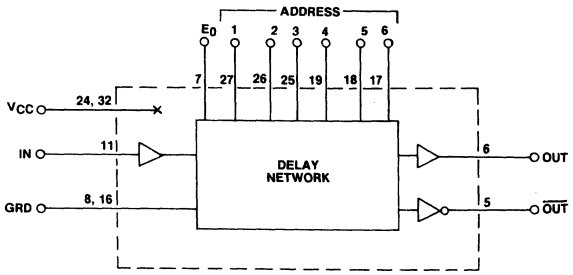
J02-22 4-Bit Programmable Delay Unit; Complementary Outputs



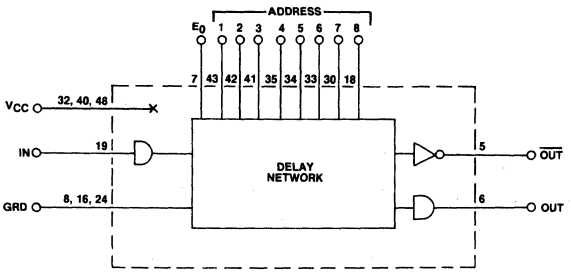
J02-23 5-Bit Programmable Delay Unit; Complementary Outputs



J02-24 6-Bit Programmable Delay Unit; Complementary Outputs

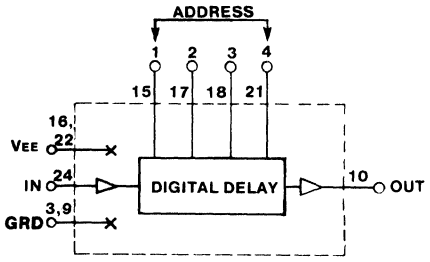


J02-25 8-Bit Programmable Delay Unit; Complementary Outputs

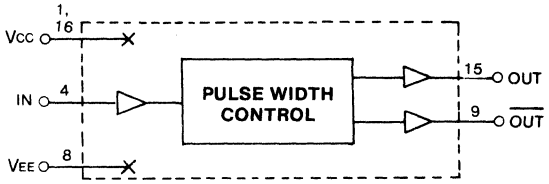


29. CIRCUIT DRAWINGS

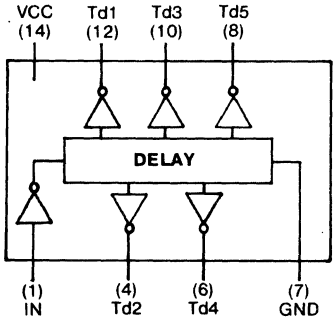
J02-31 4-Bit Programmable Delay Unit



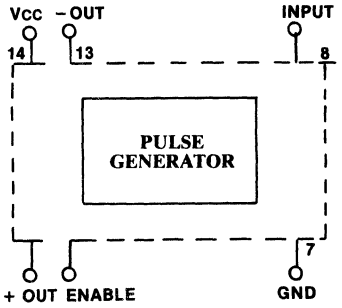
J02-32 Pulse Width Controller



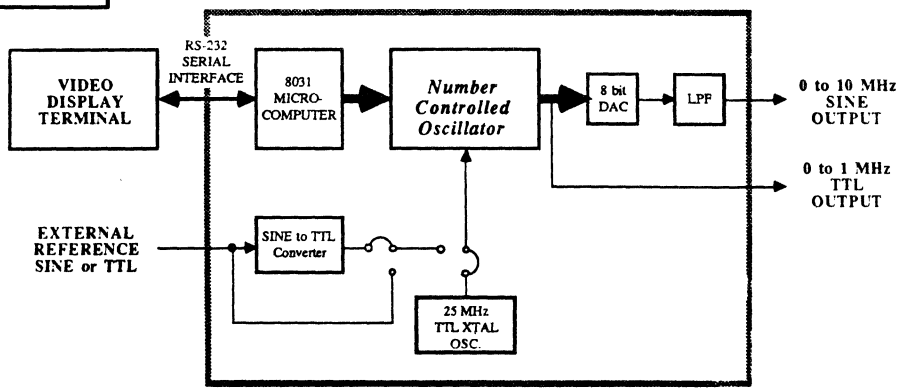
J02-33 Surface Mounted Delay Line



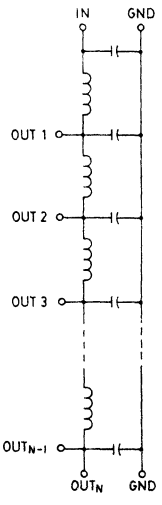
J02-34 Pulse Generator



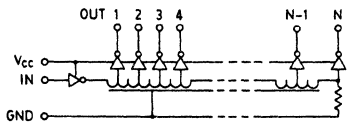
J02-35



J02-36 Tapped Delay Lines

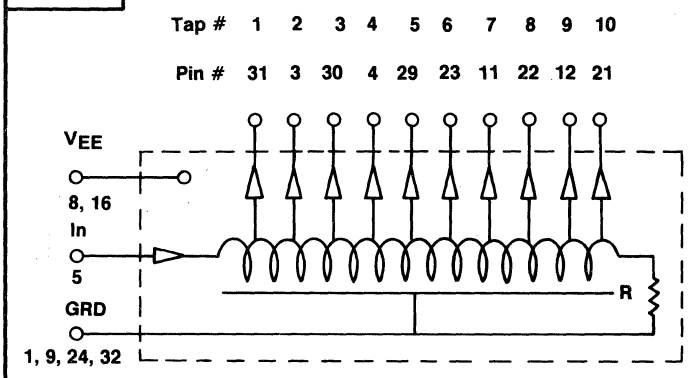


J02-37 Tapped Delay Lines



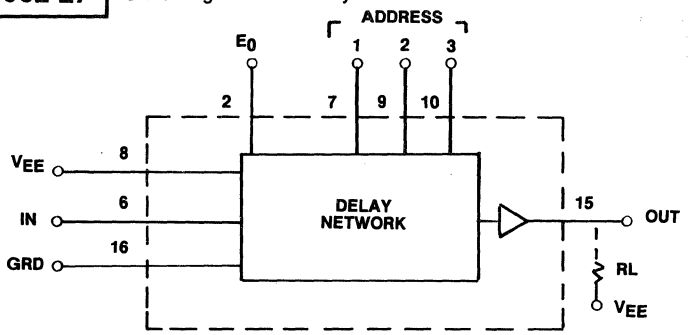
29. CIRCUIT DRAWINGS

J02-26 10-Tap Delay



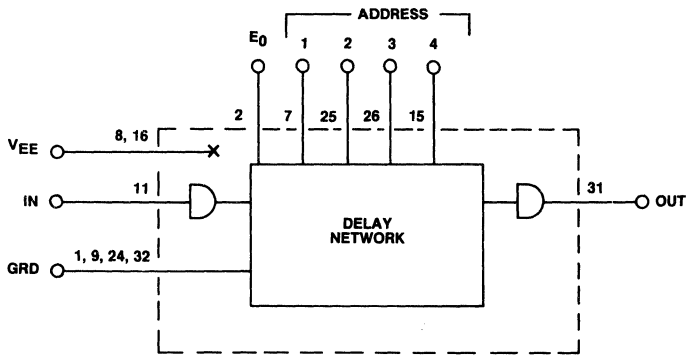
Pull-down resistor on output taps not provided inside the unit.

J02-27 3-Bit Programmable Delay Unit

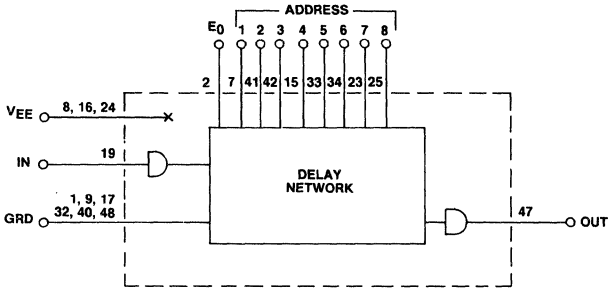


$R_L \geq 50\ \Omega$
(Not included inside the module)

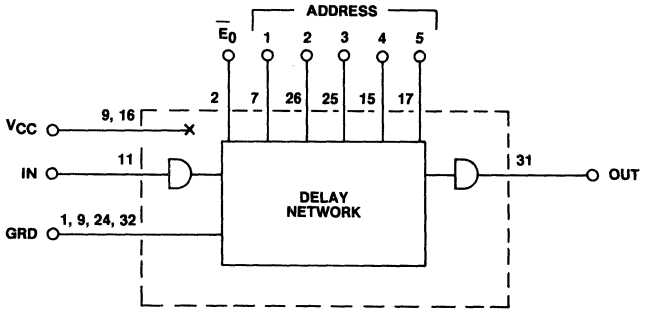
J02-28 4-Bit Programmable Delay Unit



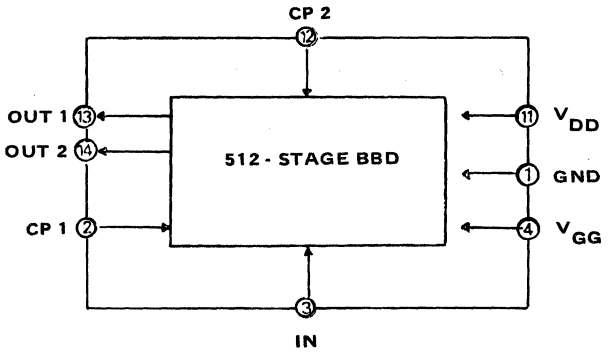
J02-29 8-Bit Programmable Delay Unit



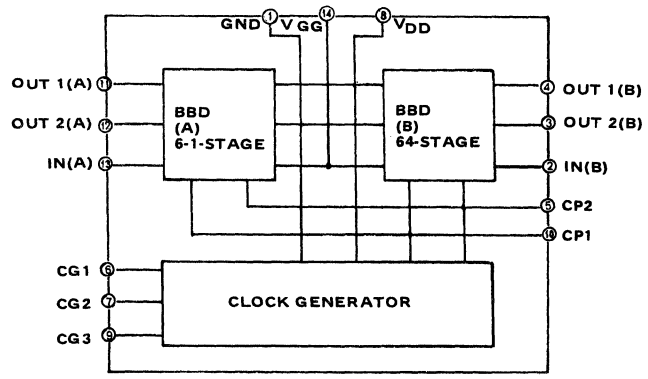
J02-30 5-Bit Programmable Delay Unit



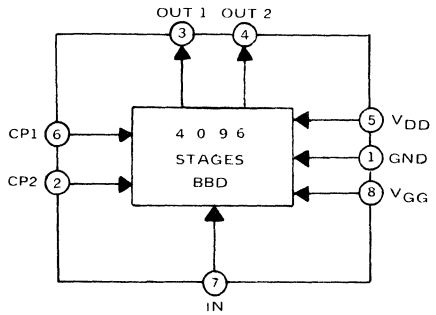
J03-5



J03-4

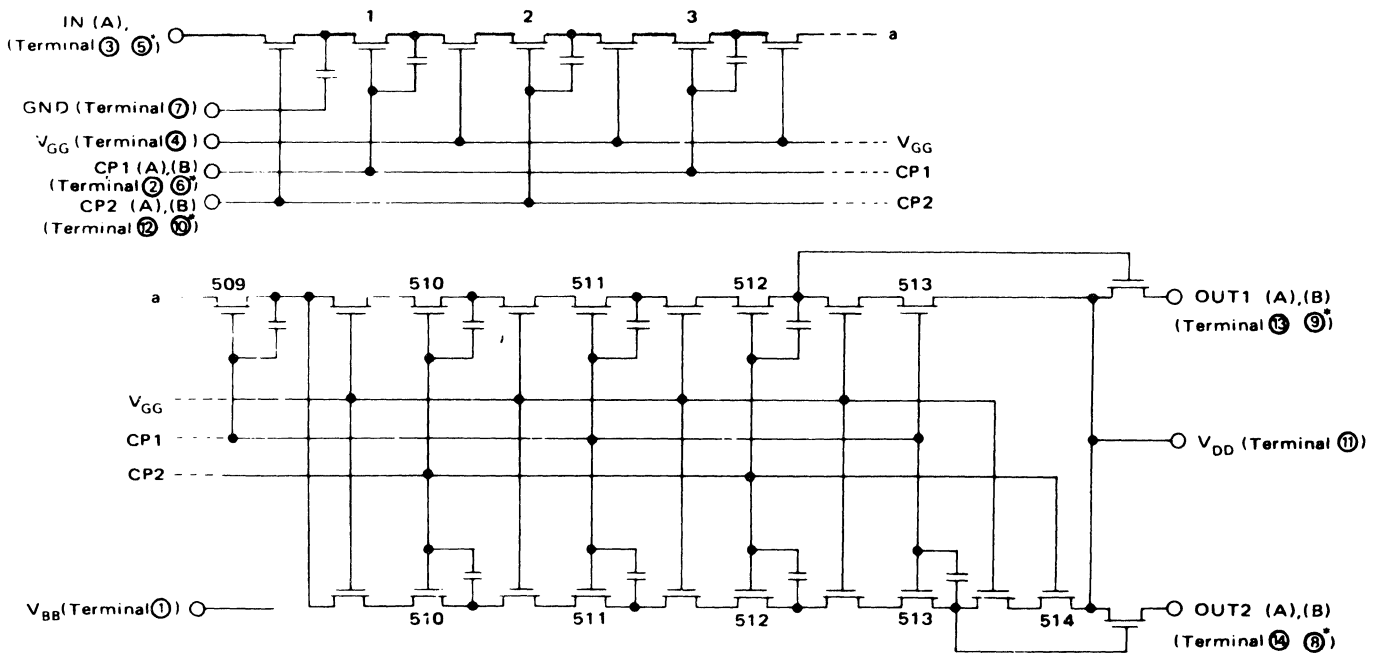


J03-6



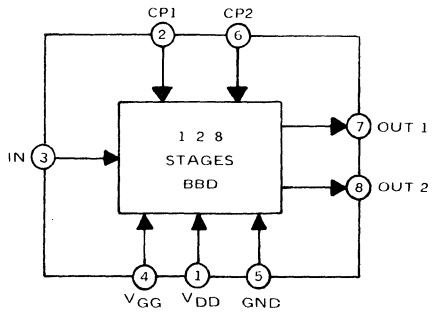
29. CIRCUIT DRAWINGS

J03-3

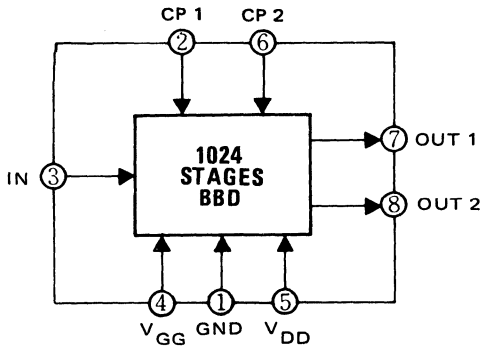


* NOT APPLICABLE FOR J03-3a.

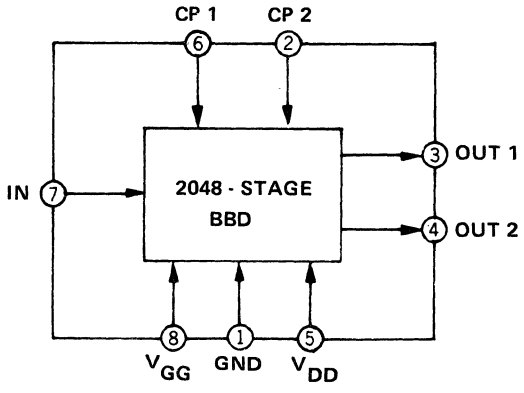
J03-7

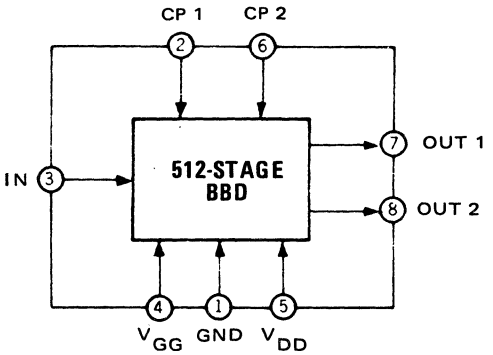


J03-8



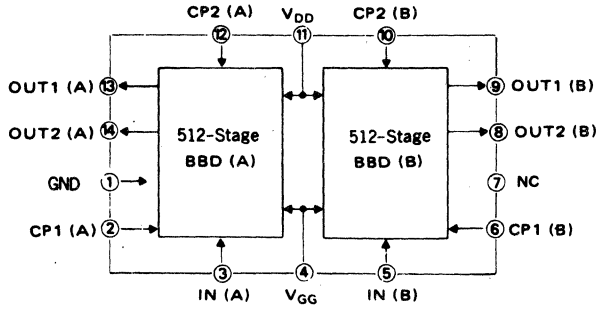
J03-9





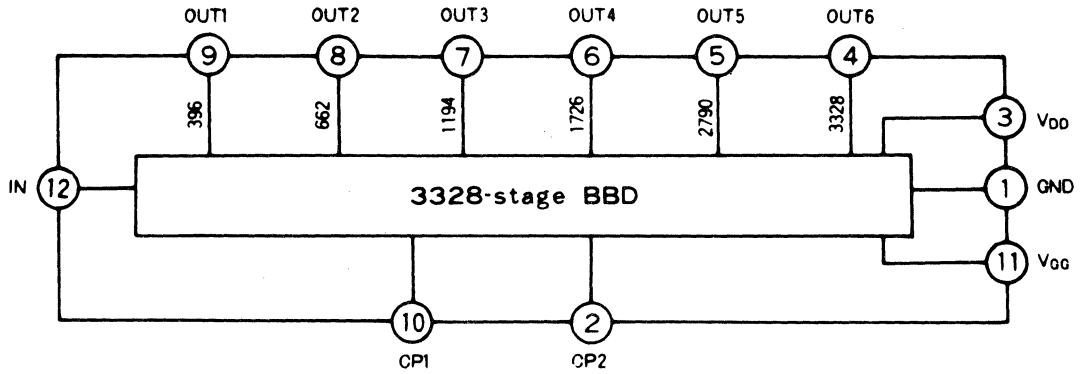
29. CIRCUIT DRAWINGS

J03-10

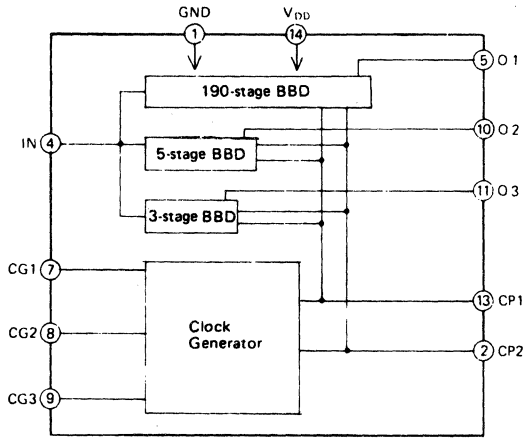


J03-11

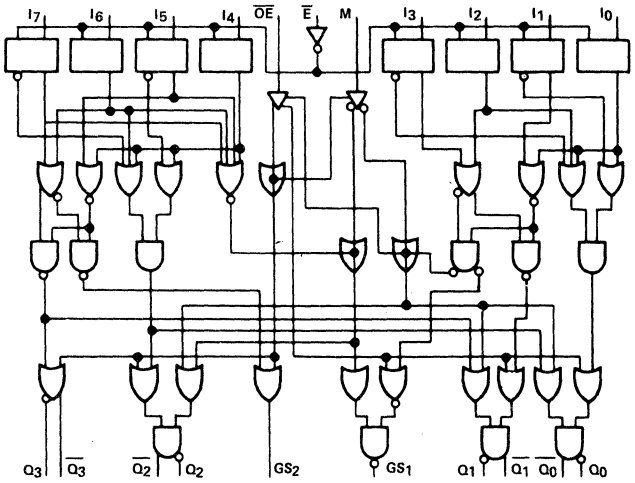
3328-Stage BBD



J03-12

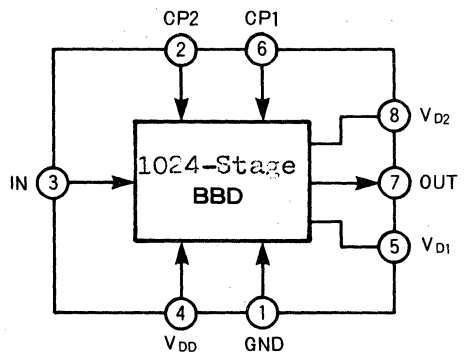


J03-15



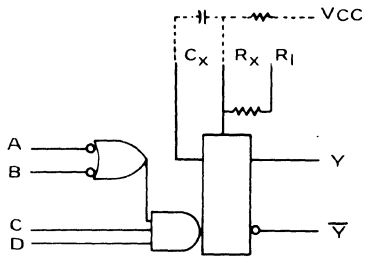
J03-16

1024 Stage Backed Brigade Device

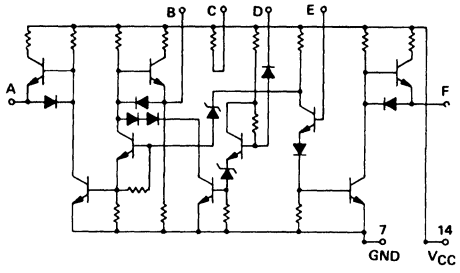


29. CIRCUIT DRAWINGS

J04-38 Retriggerable Monostable Multivibrator

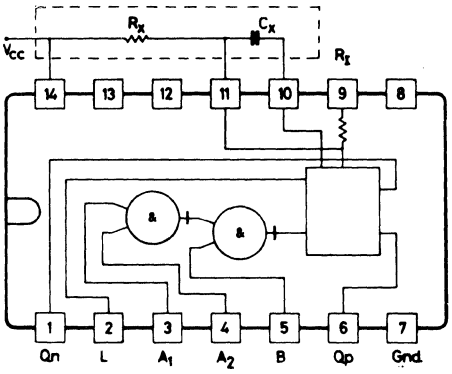


J04-40

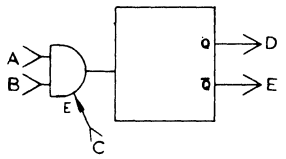


CKT.NO.	A	B	C	D	E	F
1	6	5	4	1	3	2
2	8	9	10	13	11	12

J04-42 Monostable

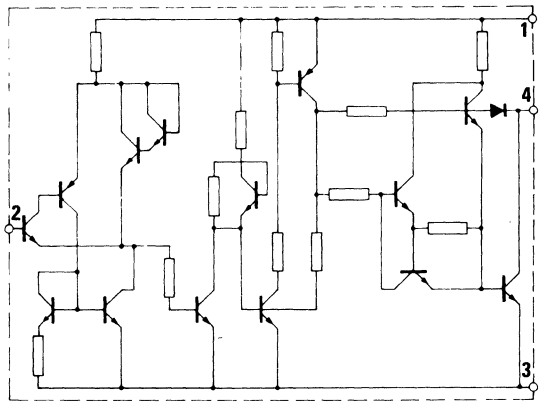


J05-45

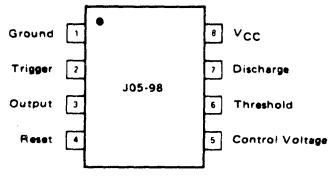


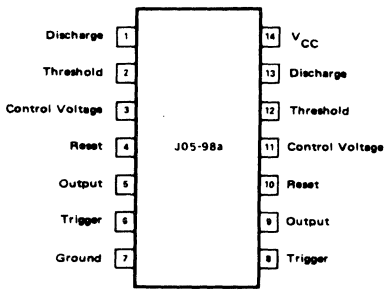
	CKT NO.	A	B	C	D	E	F	G	H	J	VCC	COM	PKG.
J05-45	1		3	4	2	1	6	11	10	9	5	14	7	MP FP
J05-45A	1		9		8	7	10	4	3	2		6	1	CN

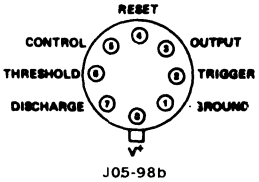
J05-109

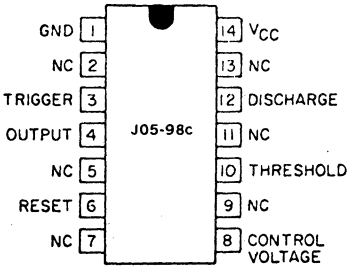


J05-98 Timer



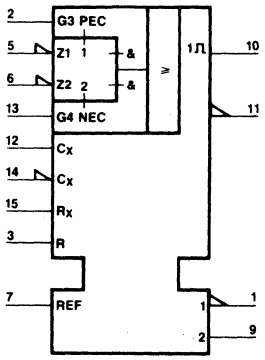




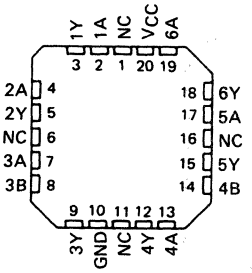


29. CIRCUIT DRAWINGS

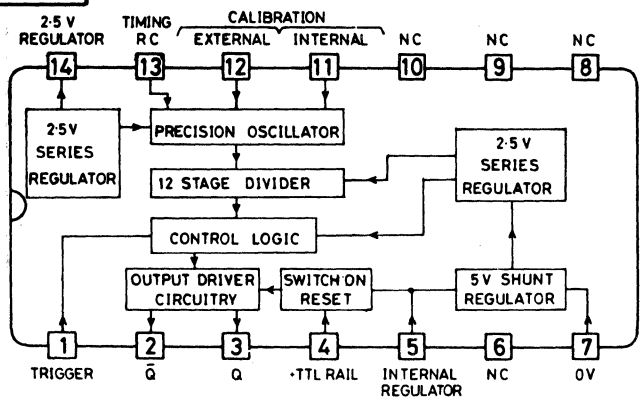
J05-121 Bidirectional One-Shot



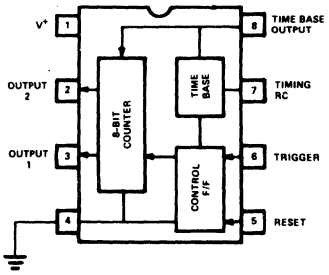
J05-122 Delay Element



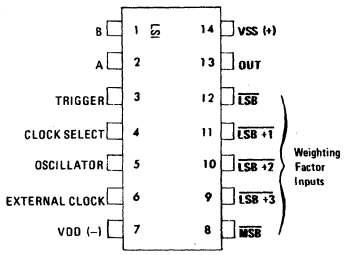
J06-07 Precision Counter Timer



J06-08 Long Range Timer

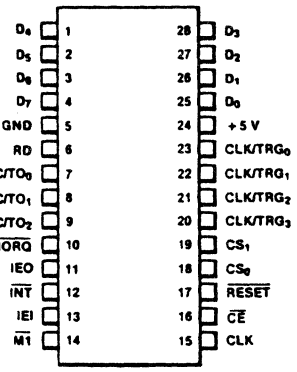


J06-14



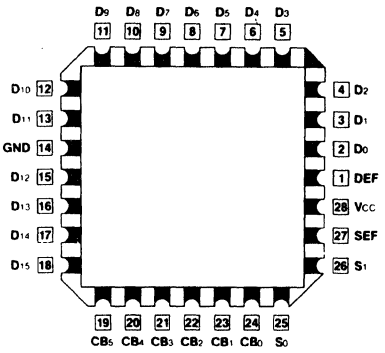
Note: All Inputs are CMOS, PMOS and TTL Compatible

J07-05

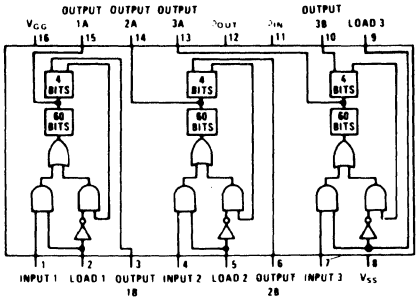


29. CIRCUIT DRAWINGS

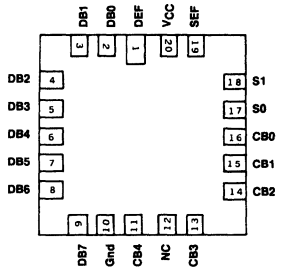
K03-29 16-Bit Error Detection and Correction Circuit with 3-State Outputs



K01-2 Triple 60+4 Bit Accumulator/ Register

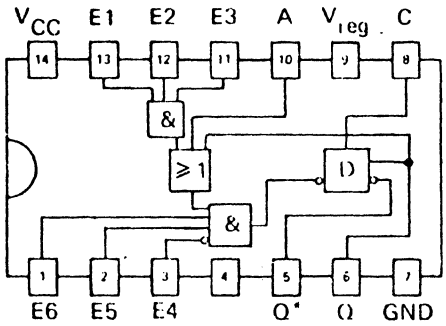


K03-31 8-Bit Parallel Error Detection/Correction Circuit

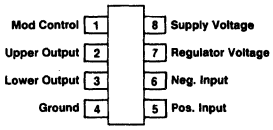


K03-31

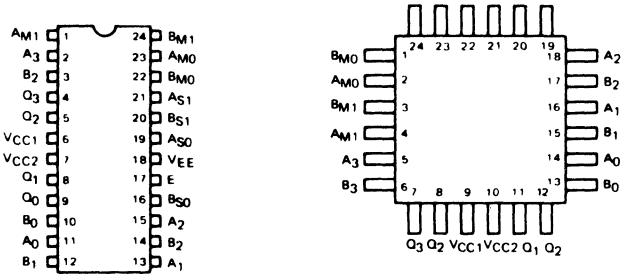
K01-3 Phase Cell



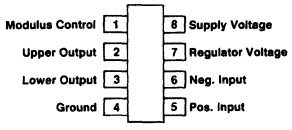
K06-155 20/21 Dual Modulus Prescaler



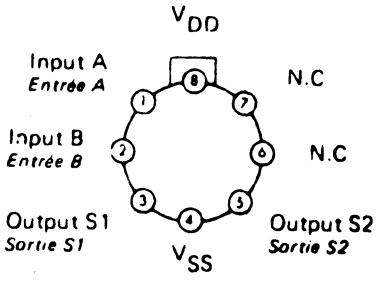
K01-6



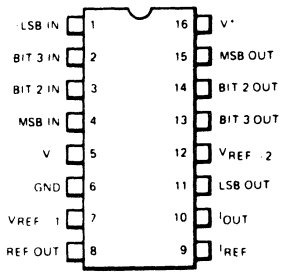
K06-158 64/65 Dual Modulus Prescaler



K02-3

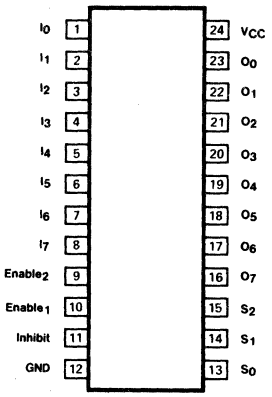


K02-5

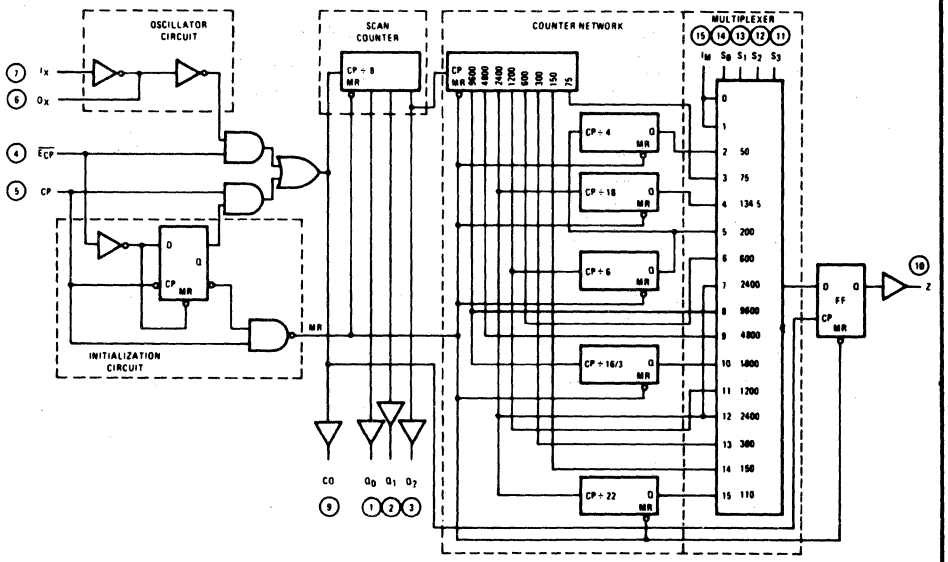


29. CIRCUIT DRAWINGS

K06-7

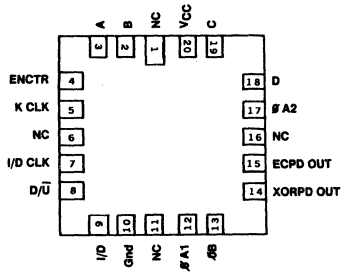


K02-28

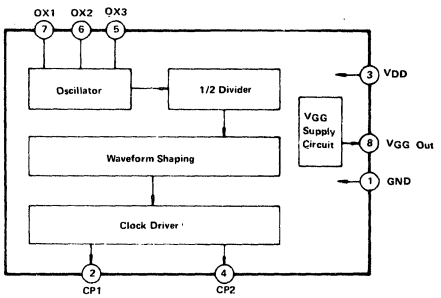


V_{DD} = Pin 16
V_{SS} = Pin 8
○ = Pin Number

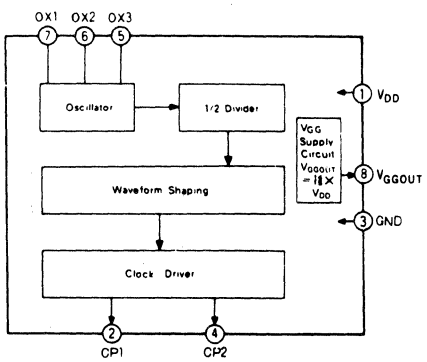
K07-38 Digital PLL Filter



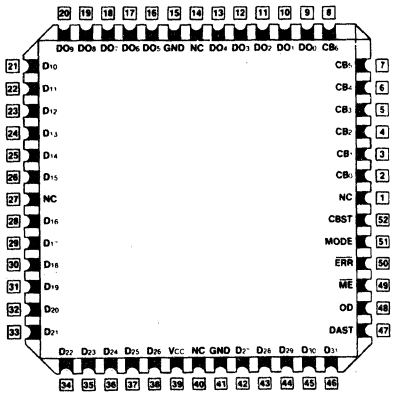
K02-40 Clock Generator/Driver



K02-41

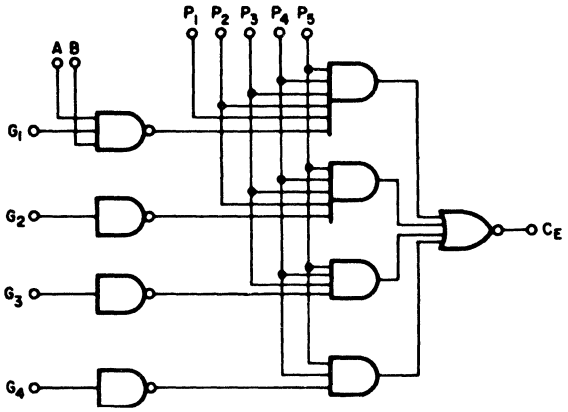


K03-25 32-Bit Memory Error Detection and Correction Circuit



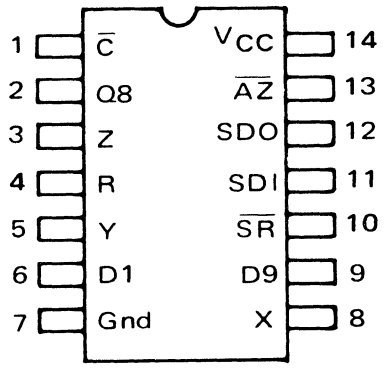
29. CIRCUIT DRAWINGS

K04-10

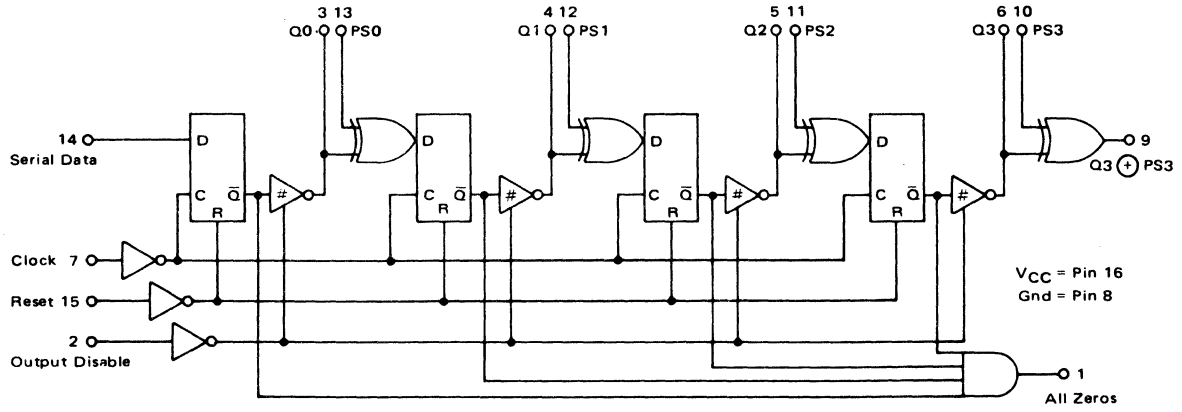


	PKG	G_2	P_2	G_3	P_3	G_4	P_4	C_E	P_5	B	G_1	A	P_1	VCC	GND
K04-10	P	1	2	3	4	5	6	8	9	10	11	12	13	14	7
	P	5	6	7	8	9	10	12	13	14	1	2	3	4	11

K02-43 Universal Polynomial Generator

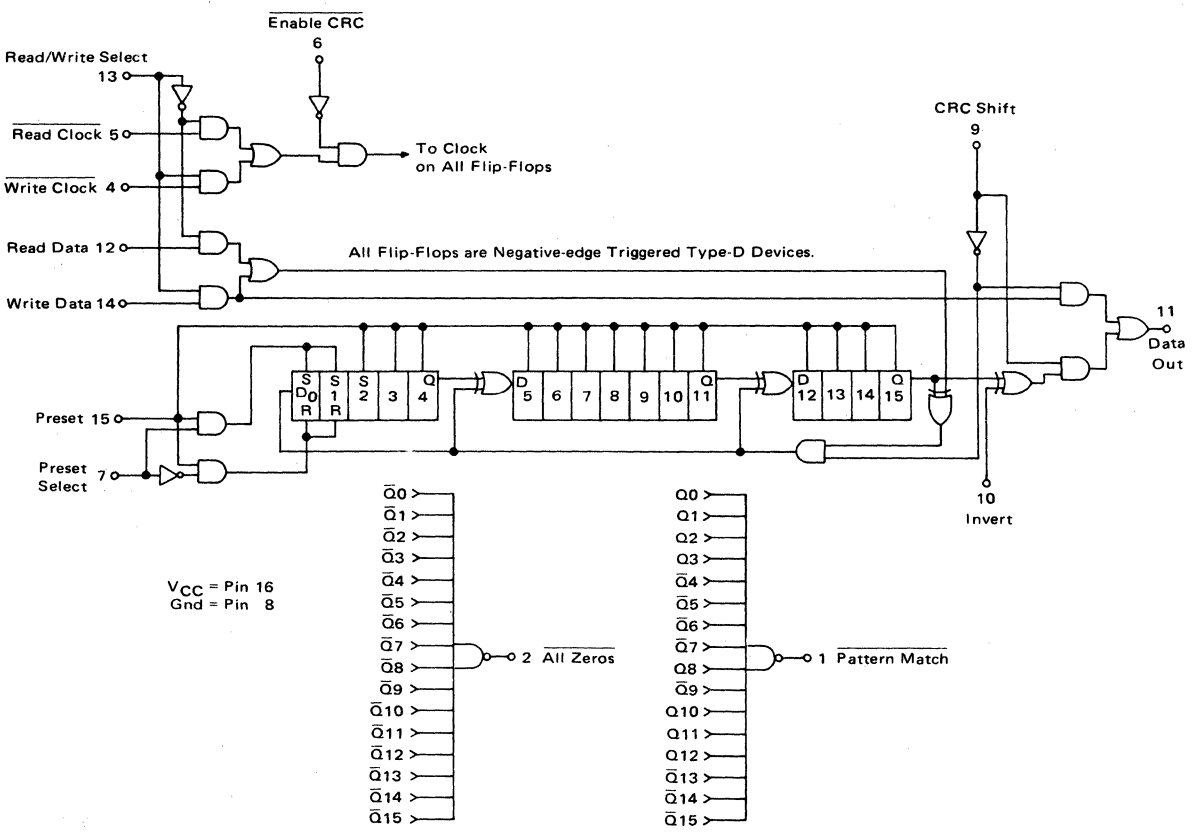


K02-44 Universal Presettable Polynomial Generator

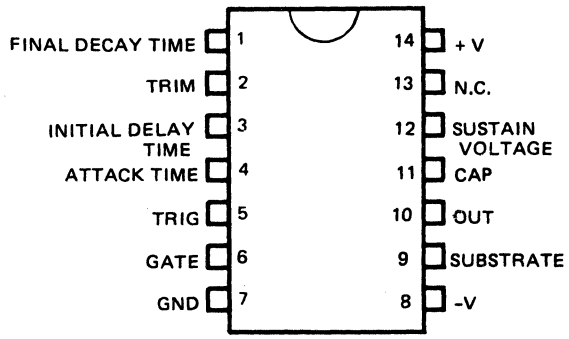


29. CIRCUIT DRAWINGS

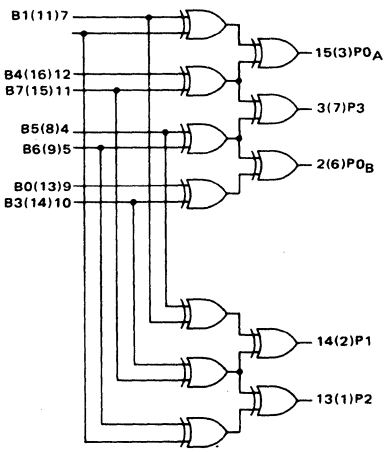
K02-45 Polynomial Generator



K02-46



K03-2 Error Detection-Correction Circuit



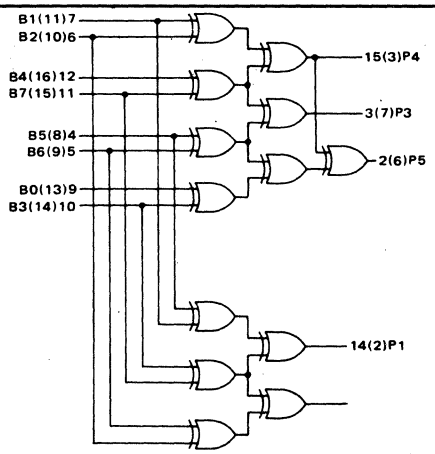
IBM CODE

$P0_A$ = B1, B2, B4, B7
$P0_B$ = B0, B3, B5, B6
P1 = B1, B3, B5, B7
P2 = B2, B3, B6, B7
P3 = B4, B5, B6, B7

K03-3 Error Detection-Correction Circuit

MOTOROLA CODE

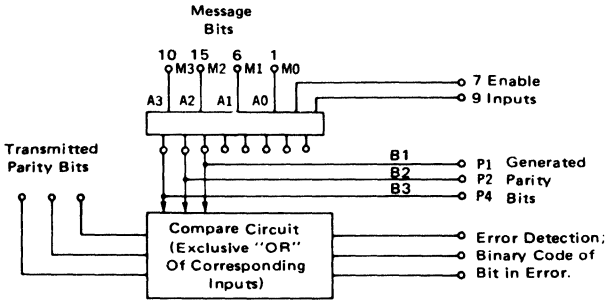
P1 = B1, B3, B5, B7
P2 = B2, B3, B6, B7
P3 = B4, B5, B6, B7
P4 = B1, B2, B4, B7
P5 = Byte (B0, 1, 2, 3, 4, 5, 6, 7)



V_{CC1} = Pin 1(5)
V_{CC2} = Pin 16(4)
V_{EE} = Pin 8(12)
( ) = FLAT PACK

29. CIRCUIT DRAWINGS

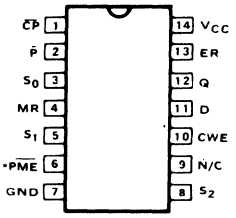
K03-5



Output Bit	B0	B1	B2	B3	B4	B5	B6	B7
Pin No.	13	14	12	11	5	4	2	3

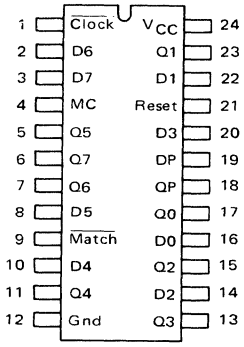
V_{CC} = Pin 16
GND = Pin 8

K03-20

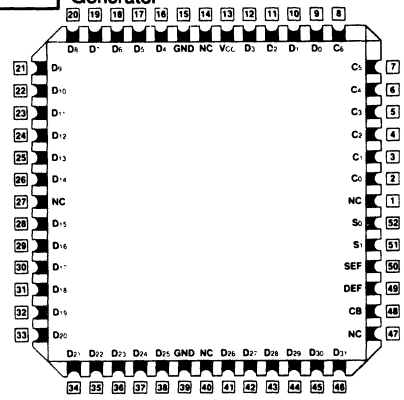


*KO3-20 only; for KO3-20a, pin 6 is not connected (N/C)

K03-21

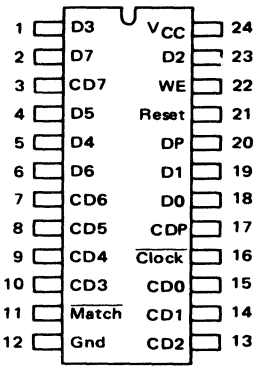


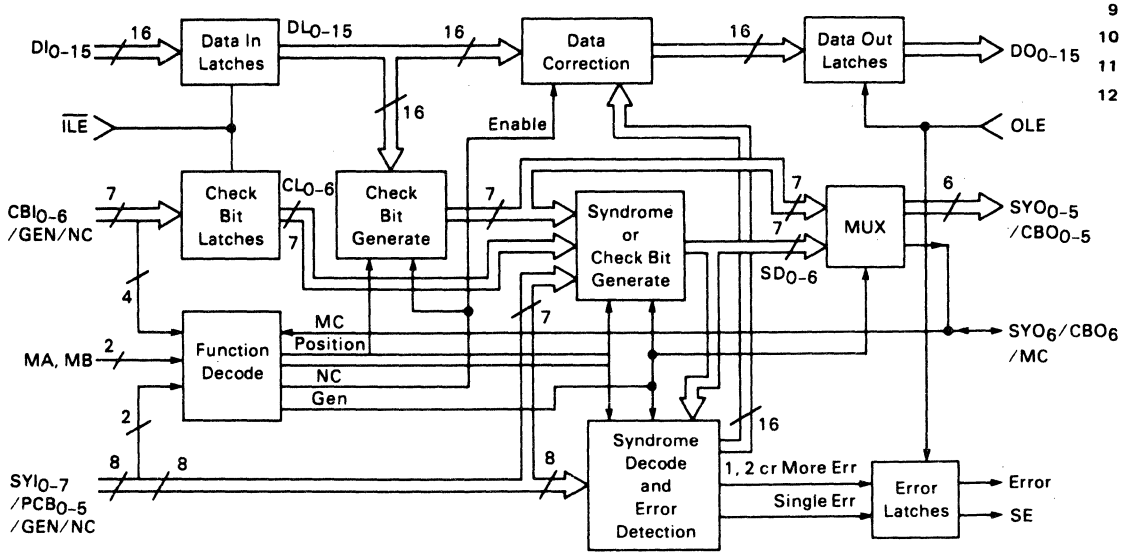
K03-27 Parallel Check Bit/Syndrome Bit Generator



K03-22

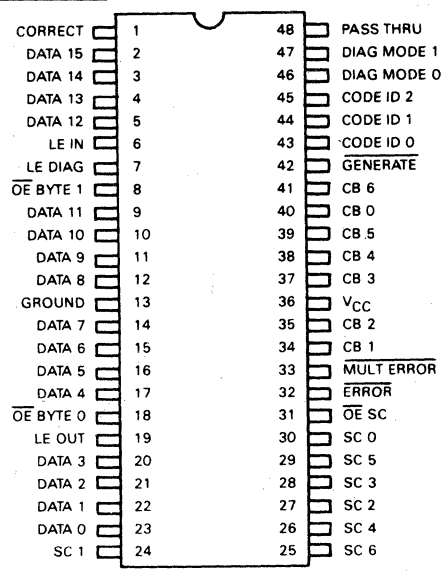
Cyclic Redundancy Check Character Generator

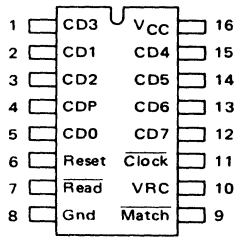




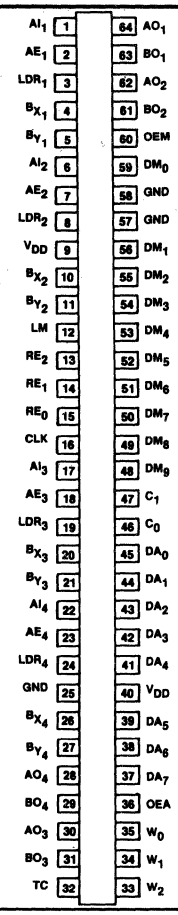
29. CIRCUIT DRAWINGS

K03-23 Error Pattern Register



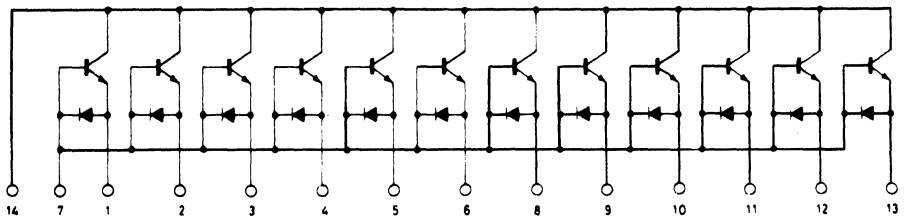


K03-44 Digital Correlator



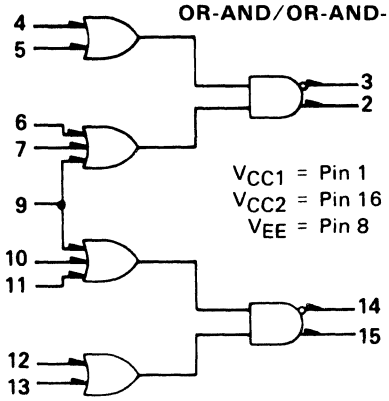
29. CIRCUIT DRAWINGS

K04-17 12-Input Gate for Electronic Organ

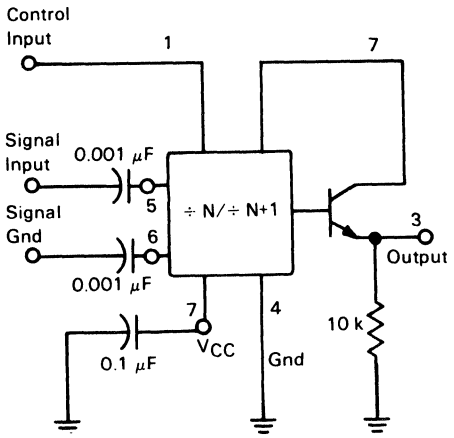


V_{DD}=Pin 16 V_{SS}@Pin 8

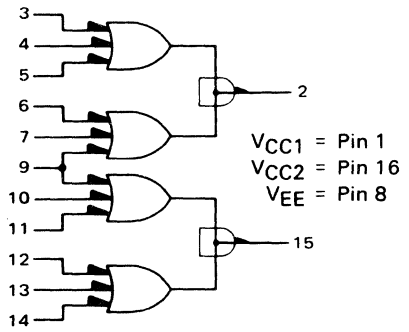
K04-25 Dual 2-Wide 2-3 Input OR-AND/OR-AND-Inverter Gate



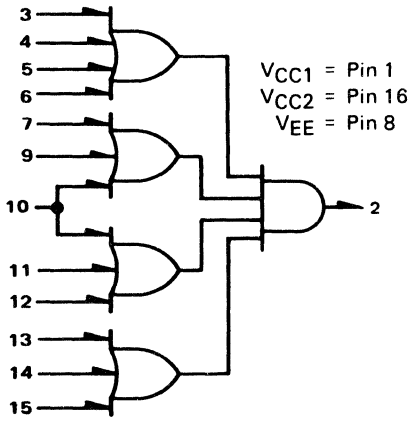
K06-163 Divide by 20/21 Two-Modulus Prescaler



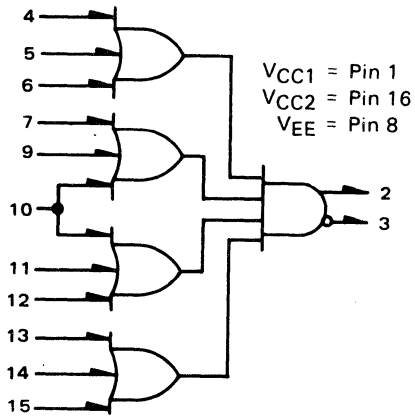
K04-26 Dual 2-Wide 3-Input OR-AND Gate



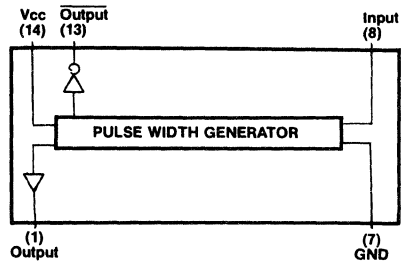
K04-27 4-Wide 4-3-3-3 Input OR-AND Gate



K04-28 4-Wide OR-AND/OR-AND Gate

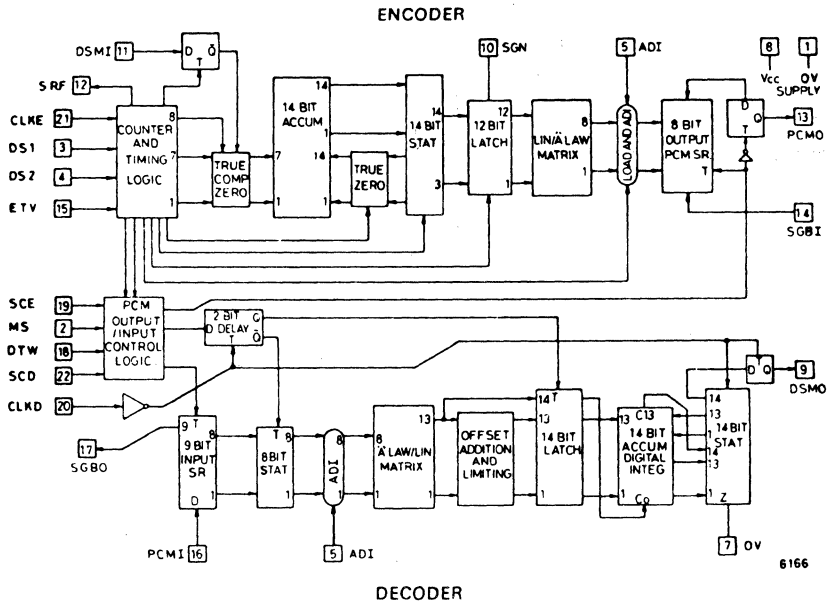


K07-42 Pulse Width Regulator

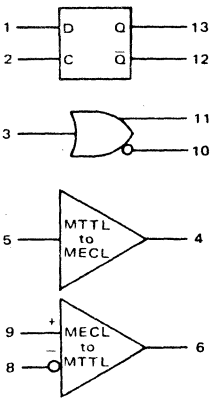


29. CIRCUIT DRAWINGS

K07-6

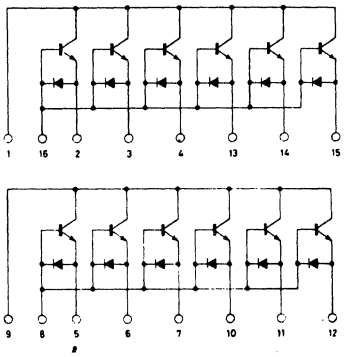


K04-11



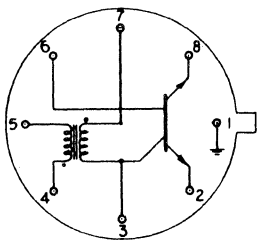
K04-16

Dual 6-Input Gate for Electronic Organ



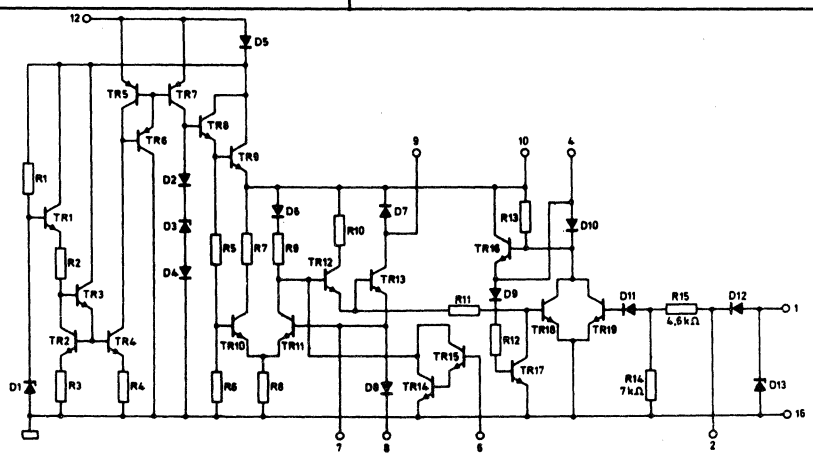
K05-19

Transformer Isolated Microchopper



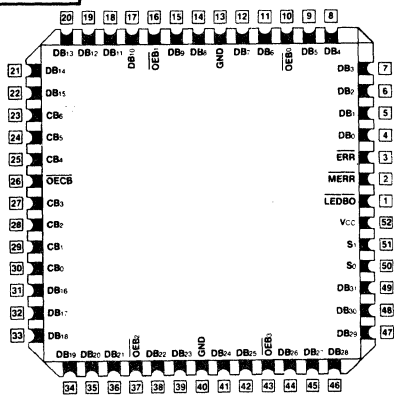
K05-21

Revolution Counter



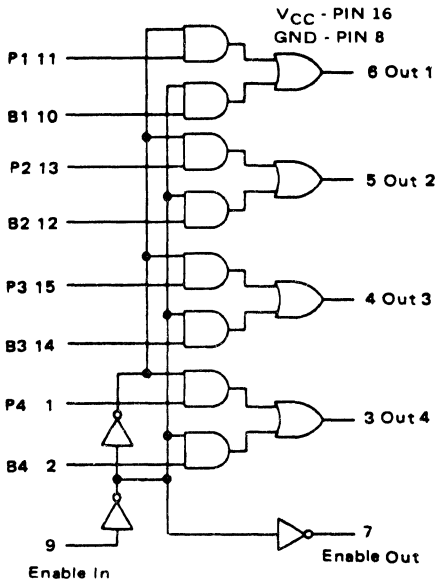
K03-30

32-Bit Parallel EDAC Circuit

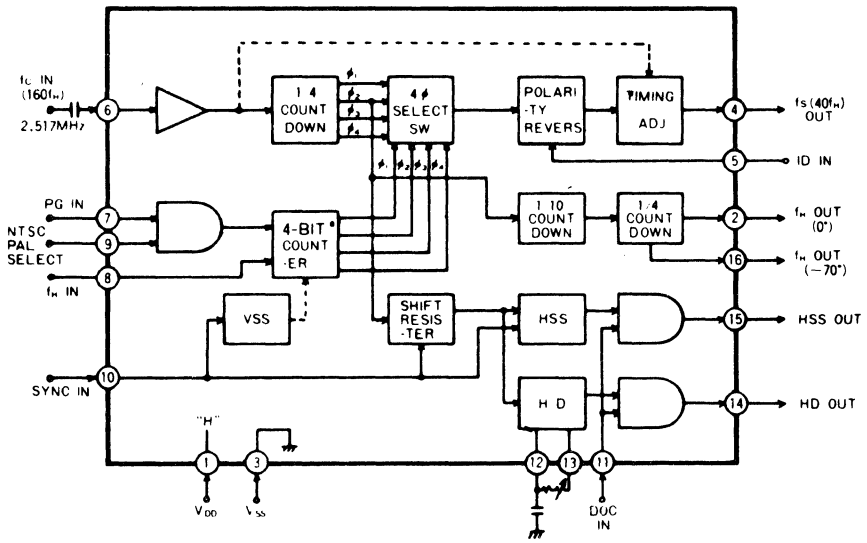


29. CIRCUIT DRAWINGS

K05-24



K05-27

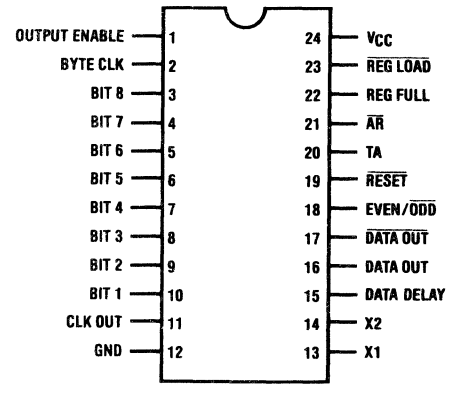


$f_C = 2.517482\,MHz\ (160f_H)$

$f_S = 629.37055\,kHz\ (40f_H)$

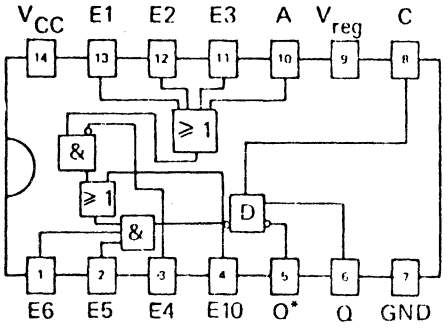
$f_H = 15.734264\,kHz$

K07-32



K05-29 Control Gate

Top view

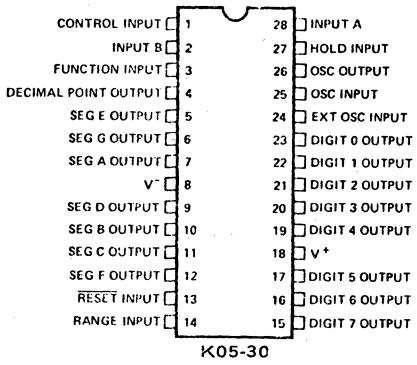


29. CIRCUIT DRAWINGS

K05-30

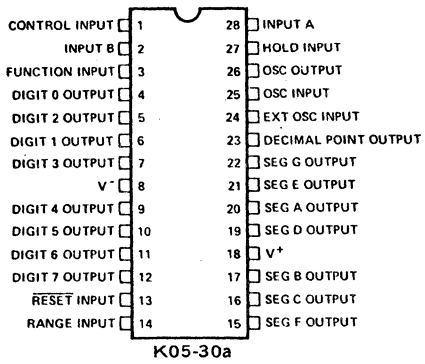
10 MHz Counters

K05-30: Universal



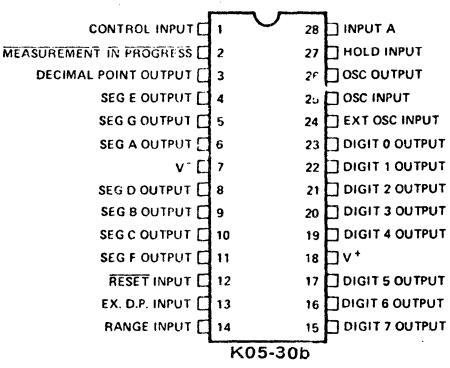
K05-30

K05-30a: Universal



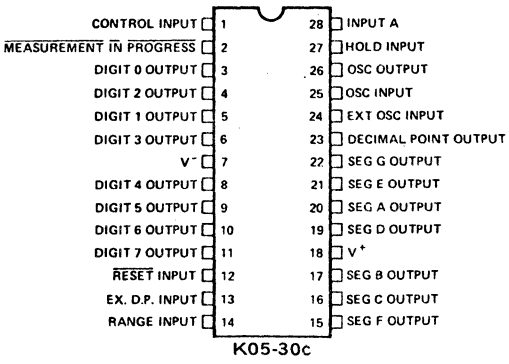
K05-30a

K05-30b: Frequency



K05-30b

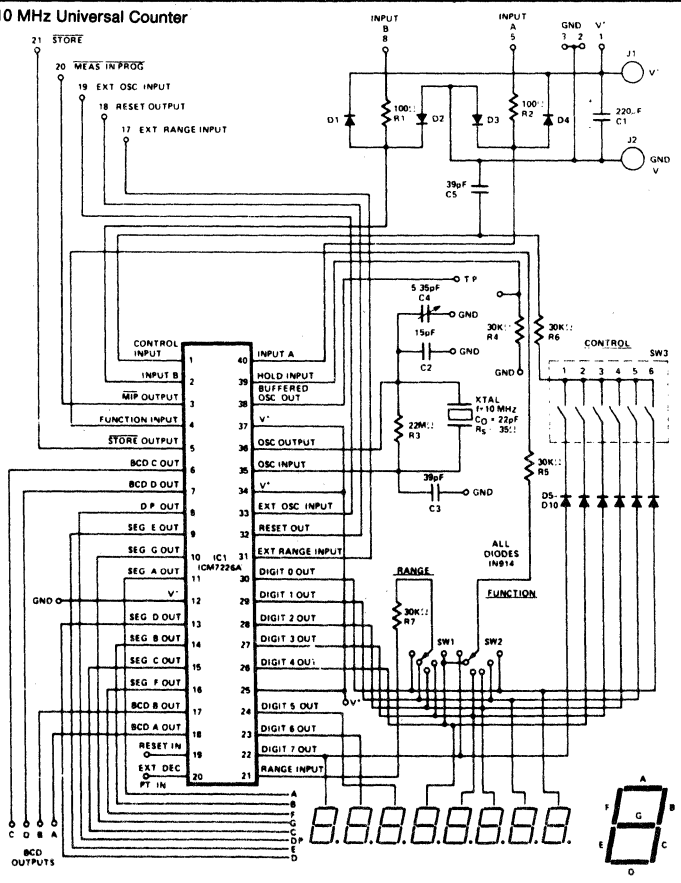
K05-30c: Frequency



K05-30c

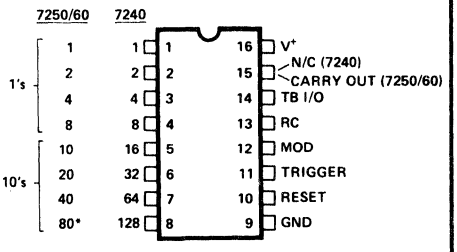
K05-33

10 MHz Universal Counter



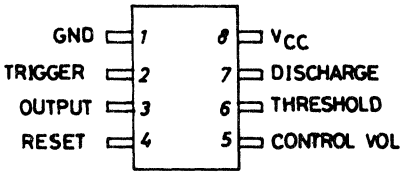
K05-34

Programmable Timer/Counter



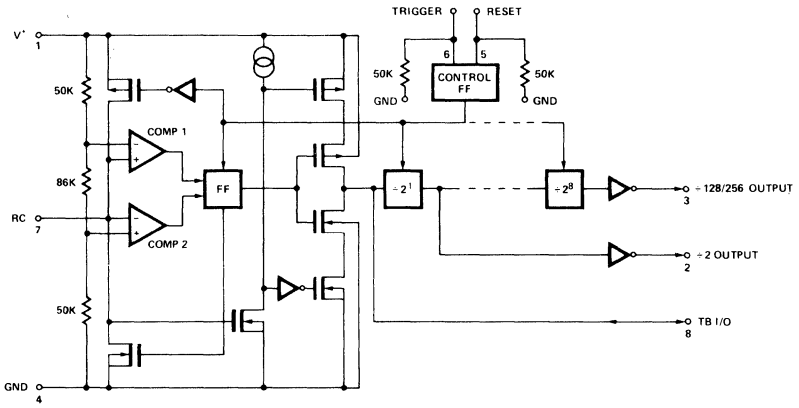
K05-40

General Purpose Timer

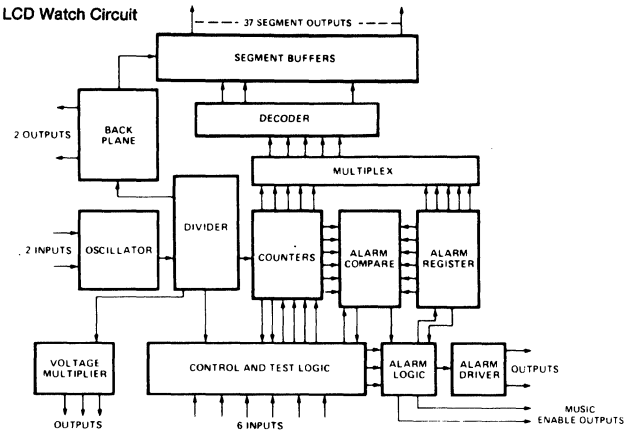


29. CIRCUIT DRAWINGS

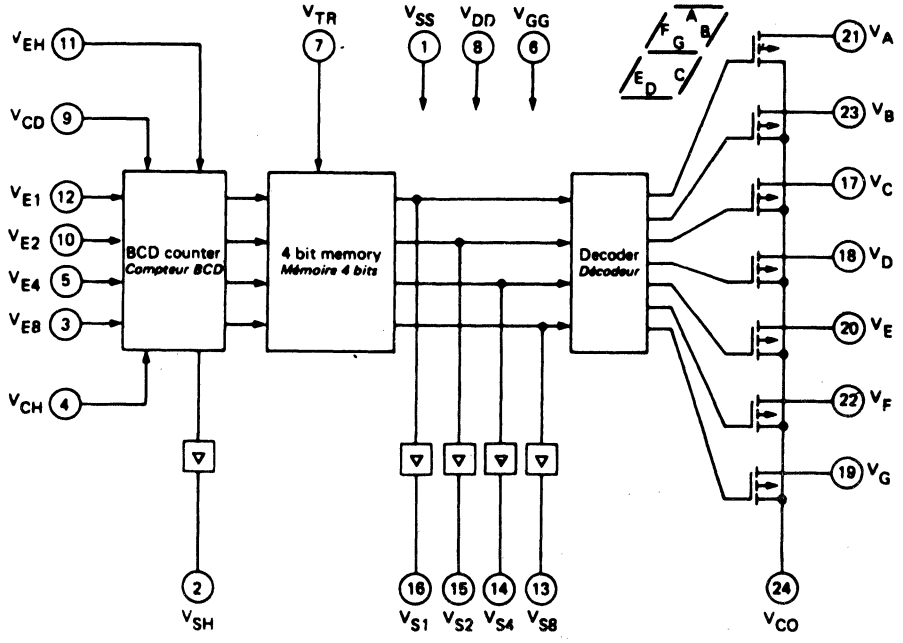
K05-35 Long Range Fixed Timer/ Counter



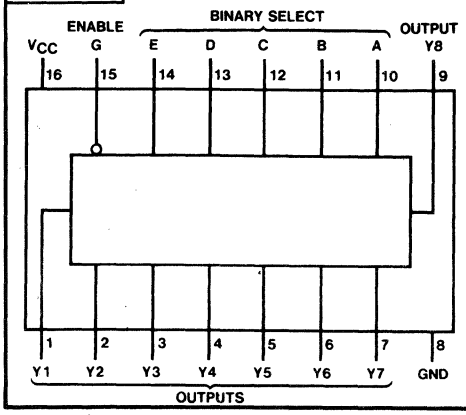
K05-36 4-Digit LCD Watch Circuit



K06-1 Decimal Counter/7-Segment Display Driver

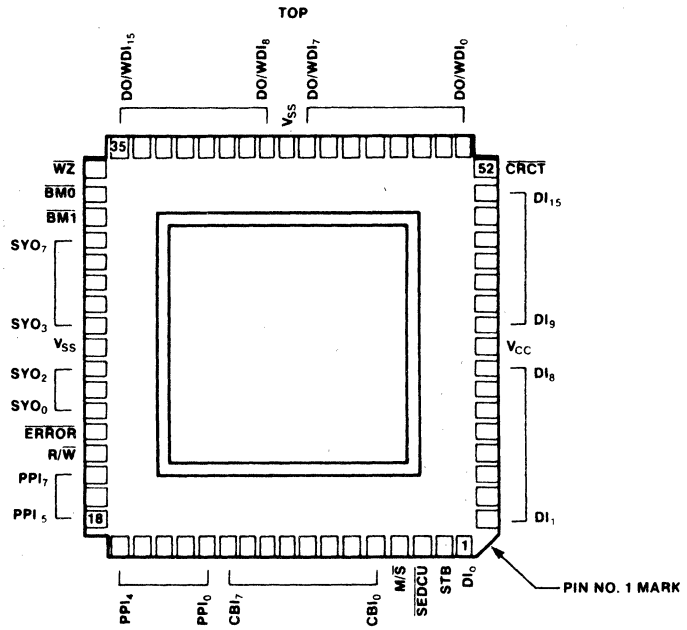


K05-39

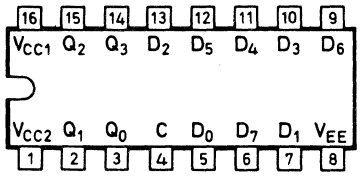


29. CIRCUIT DRAWINGS

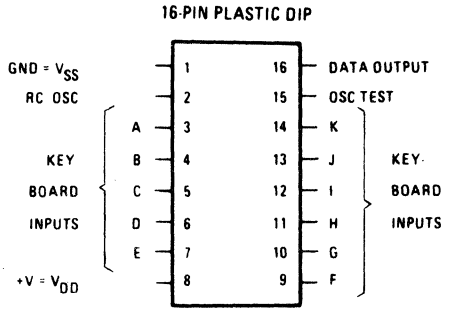
K03-24 Continued



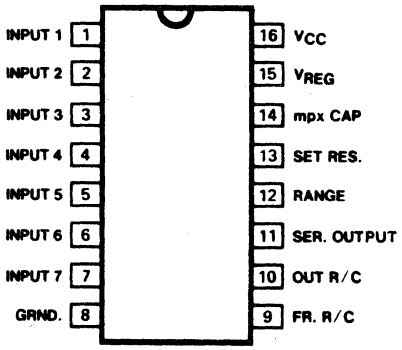
K07-11



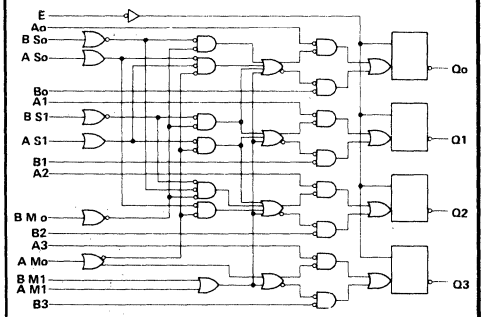
K07-13



K07-17

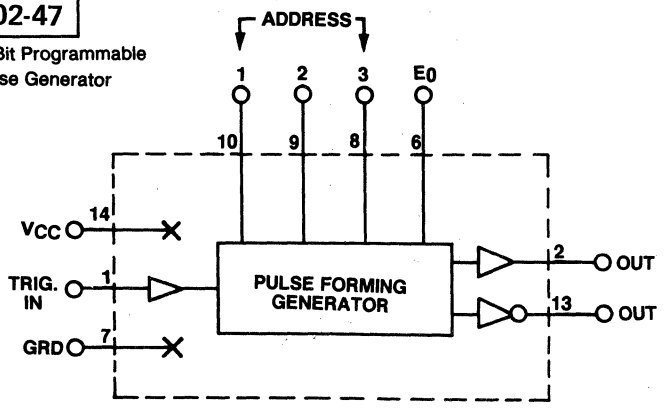


K07-18



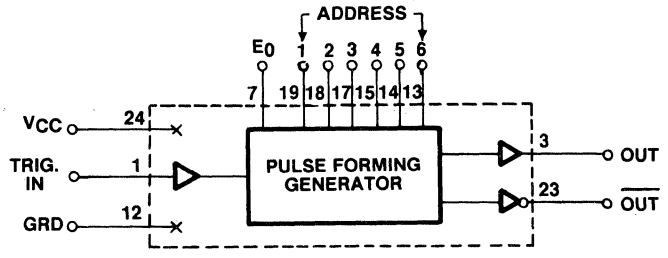
K02-47

3-Bit Programmable Pulse Generator



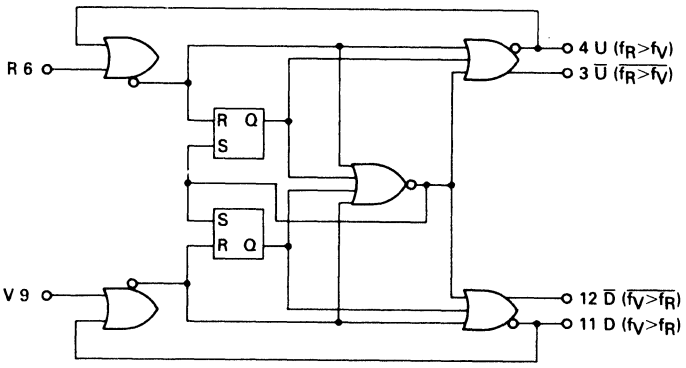
K02-48

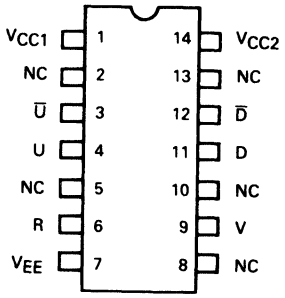
6-Bit Programmable Pulse Generator



29. CIRCUIT DRAWINGS

K07-4 Phase-Frequency Detector

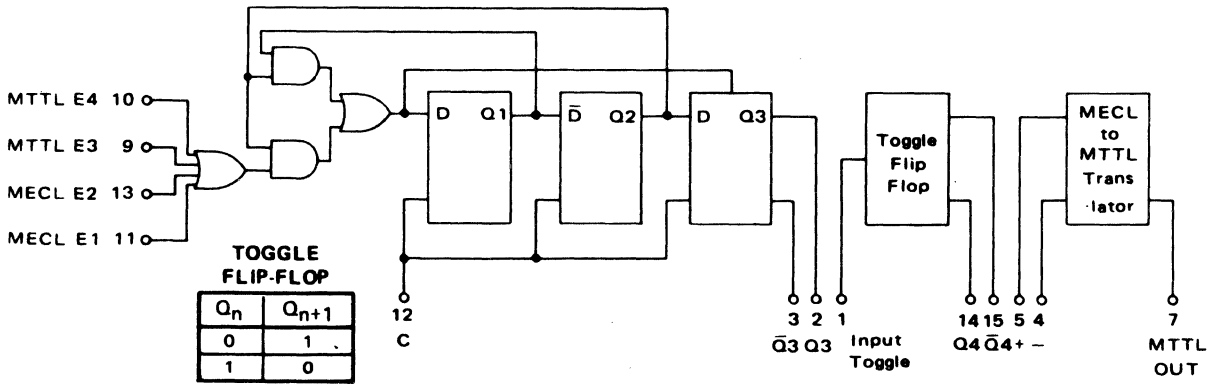




INPUT		OUTPUT			
R	V	U	D	$\overline{U}$	$\overline{D}$
0	0	X	X	X	X
0	1	X	X	X	X
1	1	X	X	X	X
0	1	X	X	X	X
1	1	1	0	0	1
0	1	1	0	0	1
1	1	1	0	0	1
1	0	1	0	0	1
1	1	0	0	1	1
1	0	0	0	1	1
1	1	0	1	1	0
1	0	0	1	1	0
1	1	0	1	1	0
0	1	0	1	1	0
1	1	0	0	1	1

X = Don't Care

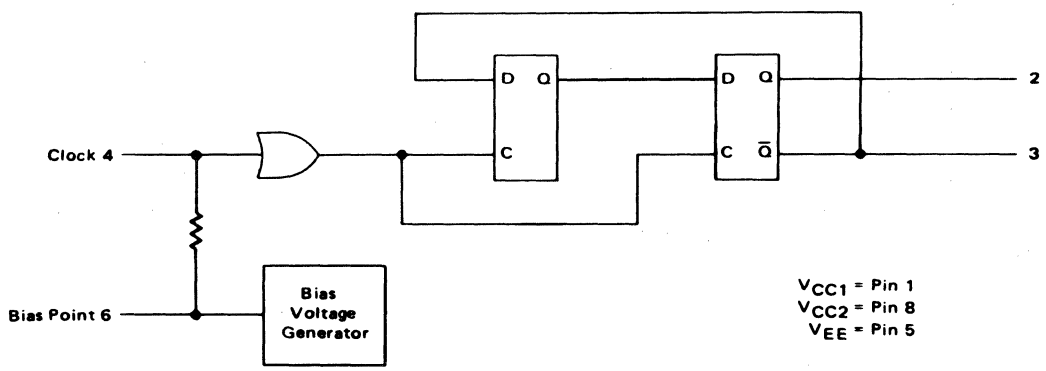
K06-4



TOGGLE FLIP-FLOP

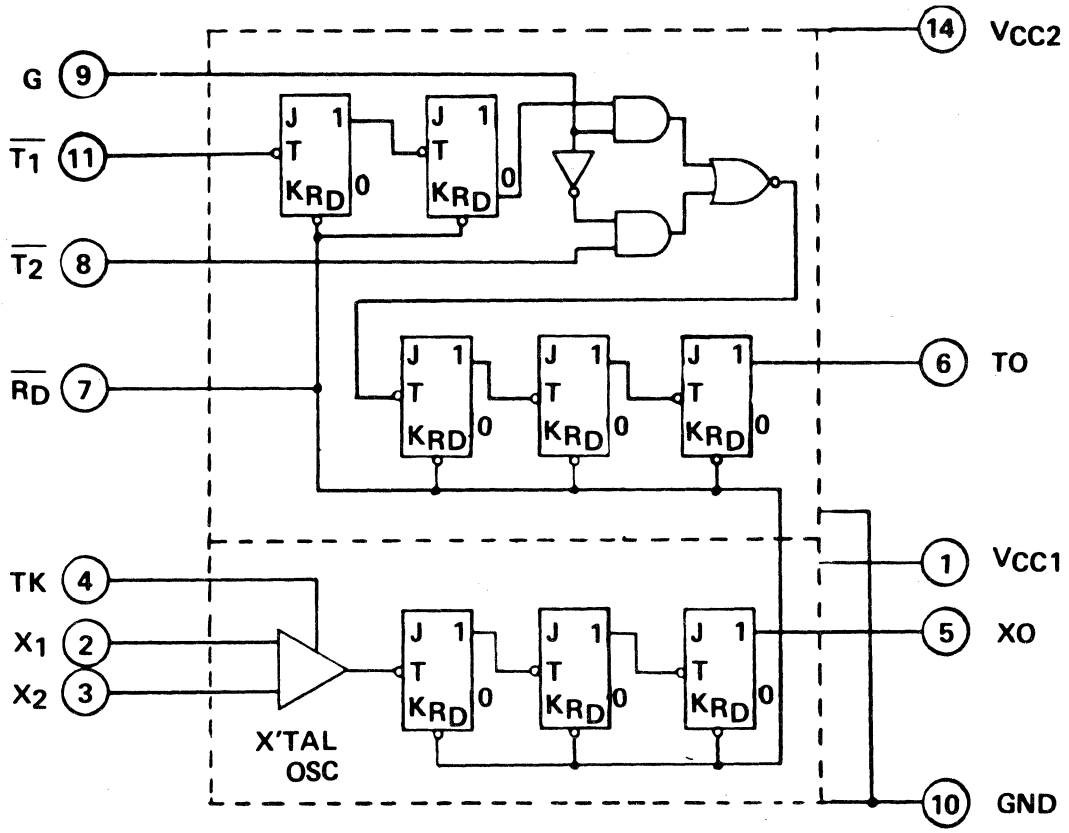
Q_n	Q_{n+1}
0	1
1	0

K06-5 1-GHZ Divide-by-Four Prescaler



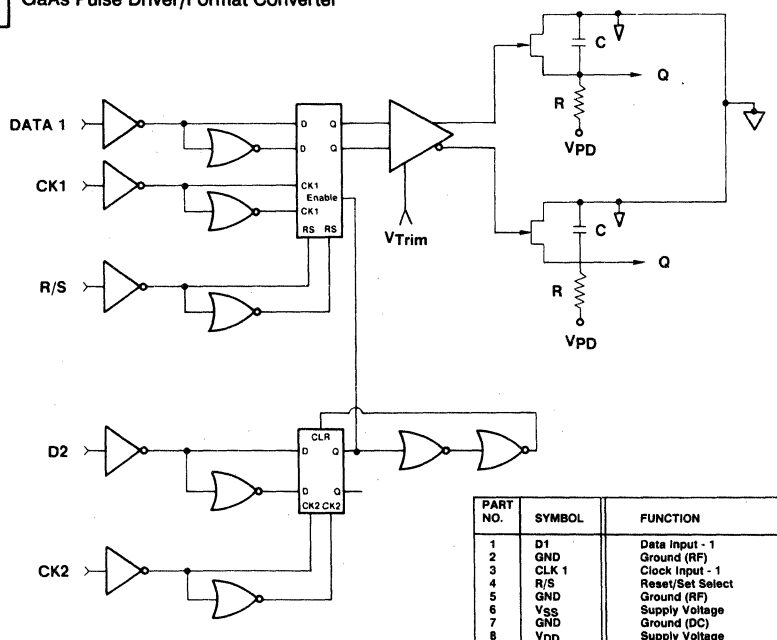
29. CIRCUIT DRAWINGS

K06-12



K07-3

GaAs Pulse Driver/Format Converter

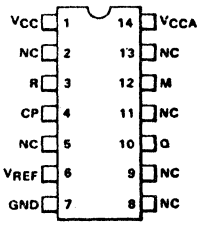


PART NO.	SYMBOL	FUNCTION
1	D1	Data Input - 1
2	GND	Ground (RF)
3	CLK 1	Clock Input - 1
4	R/S	Reset/Set Select
5	GND	Ground (RF)
6	V_{SS}	Supply Voltage
7	GND	Ground (DC)
8	V_{DD}	Supply Voltage
9	V_{Trim}	V_{Trim} (Default Function)
10	Q	Q Output
11	Q_{DC}	Output, drain connection
12	Q	Q Output
13	GND	Ground (RF)
14	CK2	Clock Input - 2
15	GND	Ground (RF)
16	D2	Data Input - 2

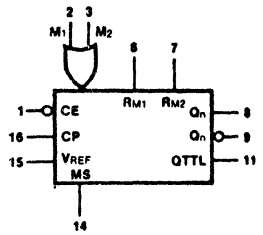
*Connect the common output connection to GND for ECL Level Outputs.

**The Mode control Pins 12 and 13 are bonded together on the IC chip.

K06-13



K06-14

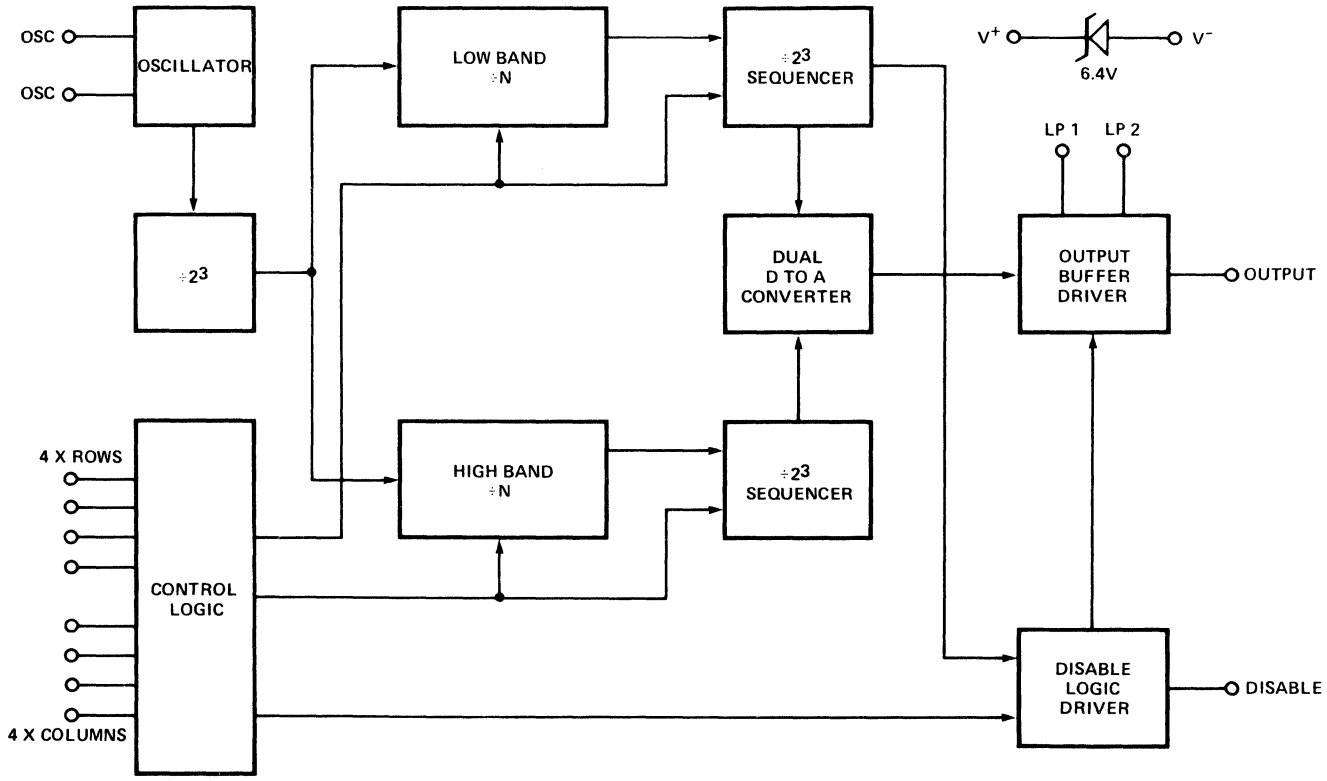


K06-14 Q_n = Pin 4
K06-14a Q_n = Pin 3

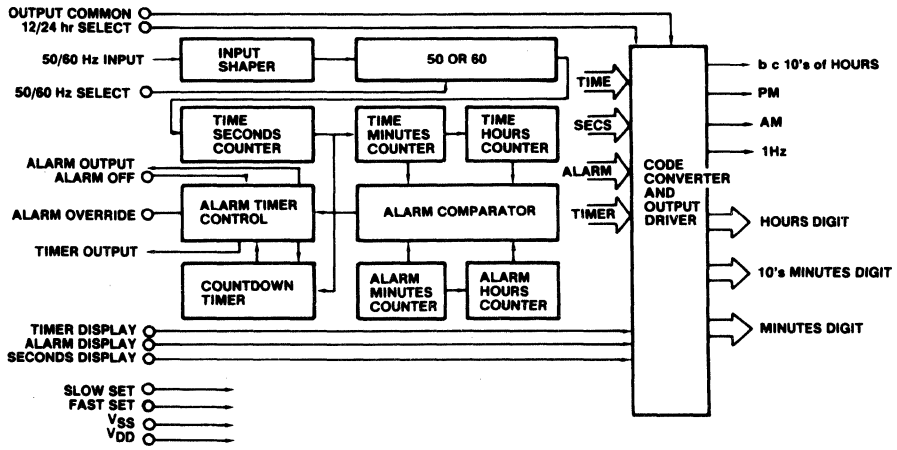
V_{CC} = Pin 4
V_{CCA} = Pin 5
V_{EE} = Pin 12
V_{EE} (TTL) = Pin 13

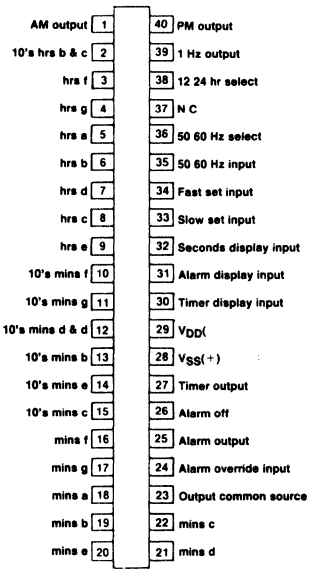
29. CIRCUIT DRAWINGS

K06-15



K07-37 Digital Clock Timer I.C.





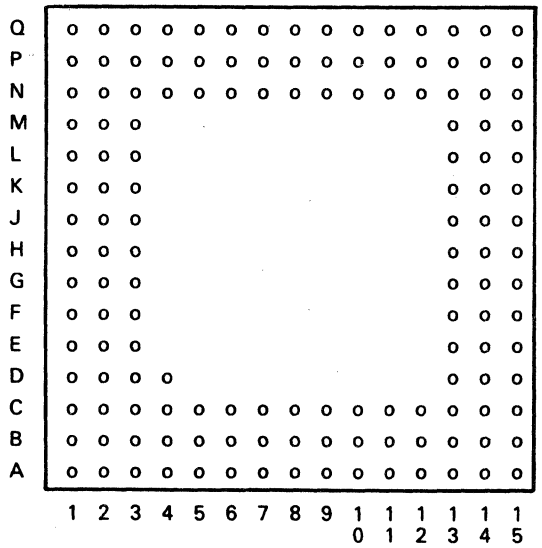
29. CIRCUIT DRAWINGS

K03-39 Bit-Slice Correlator

Pin	I/O	Description
		DATA SEQUENCE
XI3 - XI0	I	Data x(k) [$\overline{x(k)}$ if BSX = 1]
$\overline{XO3}$ - $\overline{XO0}$	O	Data $\overline{x(k-65)}$
$\overline{OEX}$	I	Tristate enable XO3 - XO0
BSX	I	Skew input data (0 = skew)
TCX	I	2's complement data (1 = magnitude)
		REFERENCE COEFFICIENT
$\overline{AI}$	I	Reference a(k)
$\overline{AO}$	O	Reference a(k−65)
$\overline{AOD}$	O	Reference a(k−1)
TCA	I	2's complement reference (1 = msb)
$\overline{ALDI}$	I	Load bit e(k)
$\overline{ALDO}$	O	Load bit e(k−1)
		CORRELATION RESULT
YI15 - YI0	I	Data y(k−70)
YO15 - YO0	O	Data y(k−71) = v(k−70) + y(k−70)
$\overline{OEY}$	I	Tristate enable YO15 - YO0
YCLR	I	Initialize y(k−71) : = 0
SHY3 - SHY0	I	Shift v(k) right (*2^SHY)
		THRESHOLD DETECTION
TI	I	Threshold data h(k)
TO	O	Threshold data h(k−15)
TCLR	I	Initialize h(k:k−15) : = 0
TCLK	I	Clock for holding register
TLD	I	Load threshold register h(k:k−15)
$\overline{TEQL}$	O	Threshold = correlation result
$\overline{TGTR}$	O	Correlation result > threshold
		EXPANSION REGISTER
ZI15 - ZI0	I	Data z(k)
ZO15 - ZO0	O	Data z(k−1)
$\overline{OEZ}$	I	Tristate enable ZO15 - ZO0
		SYSTEM CONTROL
CLK	I	TTL compatible clock 10 MHz
VDD, VSS	PS	Power supplies (5V, 0V)
		TEST PINS
SI1, $\overline{SI0}$	I	Scanpath inputs
SO1, SO0	O	Scanpath outputs
SCK1 - SCK0	I	Scanpath clocks
Test	I	

Pin Functions

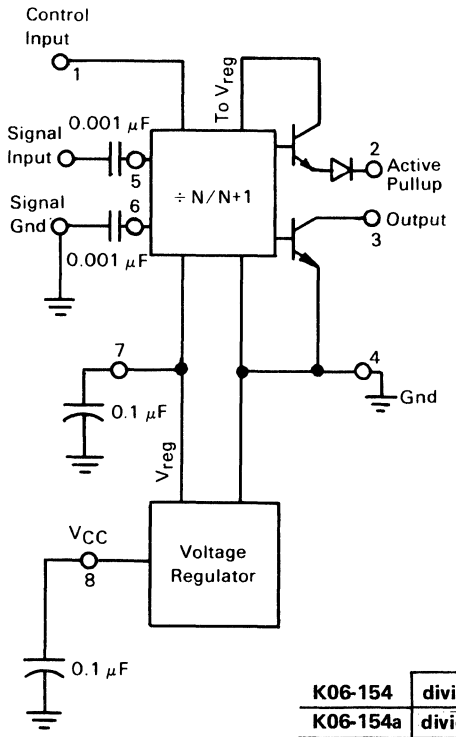
Note: Normal operation: SCK1, SCK0, SI1, $\overline{SI0}$ and TEST = 0



Pin	No.	Pin	No.	Pin	No.	Pin	No.	Pin	No.
XI3	H13	YI12	P 9	YO6	M 3	ZI13	C10	ZO7	A 7
XI2	F14	YI11	P10	YO5	N 3	ZI12	A11	ZO6	B 7
XI1	F13	YI10	N10	YO4	P 2	ZI11	C 9	ZO5	C 6
XI0	E15	YI9	Q11	YO3	P 5	ZI10	A 9	ZO4	B 5
$\overline{XO3}$	F 3	YI8	P11	YO2	Q 4	ZI9	A 8	ZO3	A 3
$\overline{XO2}$	F 2	YI7	Q12	YO1	N 6	ZI8	C 7	ZO2	C 5
$\overline{XO1}$	E 1	YI6	Q13	YO0	P 6	ZI7	A 6	ZO1	A 2
$\overline{XO0}$	G 2	YI5	P12	$\overline{OEY}$	N 2	ZI6	B 6	ZO0	C 3
$\overline{OEX}$	G 3	YI4	N11	YCLR	K 2	ZI5	A 5	$\overline{OEZ}$	E 2
XSIG	E13	YI3	P13	SHY3	N15	ZI4	A 4	CLK	C13
BSX	H15	YI2	Q14	SHY2	L14	ZI3	B 4	VDD	C12
TCX	E14	YI1	N12	SHY1	M15	ZI2	B 3	VSS	D 3
$\overline{AI}$	J14	YI0	N13	SHY0	K13	ZI1	C 4	SI1	D15
$\overline{AO}$	D 1	YO15	Q 5	TI	M 1	ZI0	B 2	$\overline{SI0}$	P14
$\overline{AOD}$	L15	YO14	P 7	TO	K 3	ZO15	B12	SO1	D13
TEST	H 2	YO13	N 7	TCLR	M 2	ZO14	A13	SO0	H 3
TCA	K14	YO12	Q 6	TCLK	L 3	ZO13	A12	SCK1	B15
$\overline{ALDI}$	D14	YO11	Q 7	TLD	N 1	ZO12	B10	SCK0	L 2
$\overline{ALDO}$	C15	YO10	P 8	$\overline{TEQL}$	L 1	ZO11	B 9		
YI15	N 9	YO9	Q 8	$\overline{TGTR}$	H 1	ZO10	A10		
YI14	Q 9	YO8	N 8	ZI15	C11	ZO9	B 8		
YI13	Q10	YO7	P 1	ZI14	B11	ZO8	C 8		

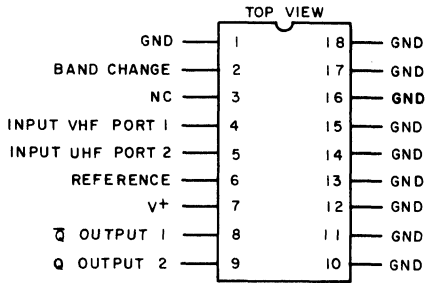
29. CIRCUIT DRAWINGS

K06-154 Two-Modulus Prescaler

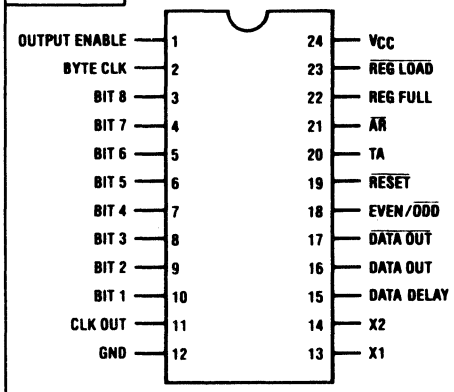


K06-154	divide by 32 and 33
K06-154a	divide by 40 and 41
K06-154b	divide by 64 and 65

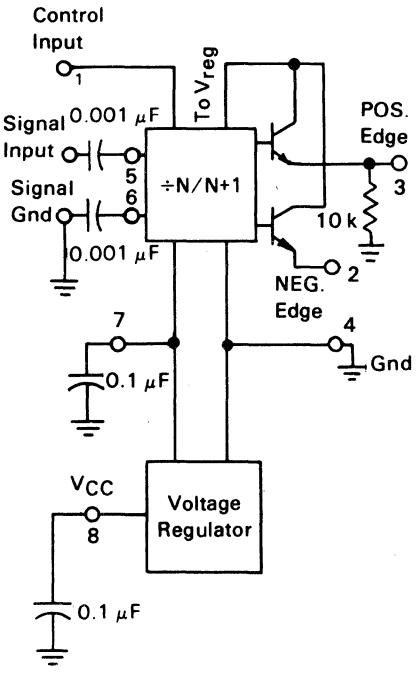
K06-159 VHF/UHF Prescaler



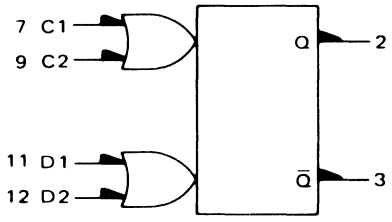
K07-32



K06-160 Divide by 128/129 Two-Modulus Prescaler



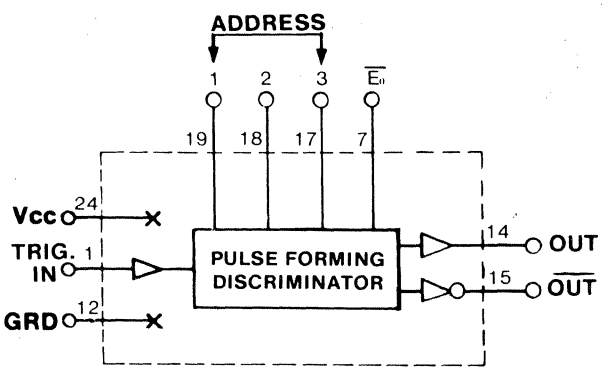
K06-162 Master/Slave Flip-Flop, High Speed Prescaler



V_{CC1} = Pin 1
V_{CC2} = Pin 16
V_{EE} = Pin 8

29. CIRCUIT DRAWINGS

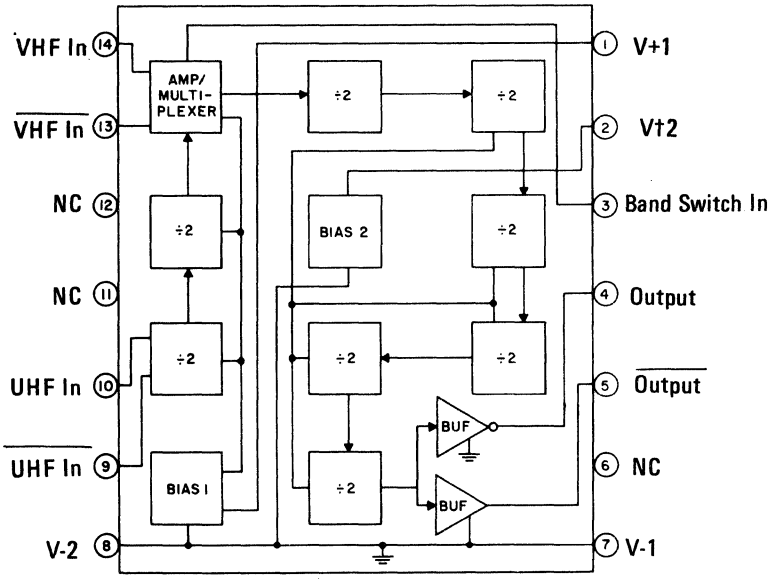
K07-45 Programmable Pulse Discriminator



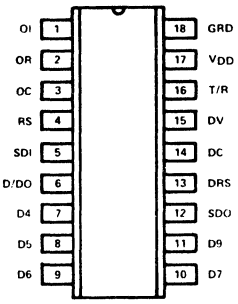
PART NUMBER	INCREMENTAL PULSE WIDTH PER STEP	TOTAL PROGRAMMED PULSE WIDTH
PPD-23-1	1 NS ± 4 NS	7 NS
PPD-23-2	2 NS ± 4 NS	14 NS
PPD-23-3	3 NS ± 5 NS	21NS
PPD-23-5	5 NS ± 6 NS	35 NS
PPD-23-10	10 NS ± 1.0 NS	70 NS
PPD-23-15	15 NS ± 1.3 NS	105 NS
PPD-23-20	20 NS ± 1.5 NS	140 NS
PPD-23-40	40 NS ± 2.0 NS	280 NS
PPD-23-50	50 NS ± 2.5 NS	350 NS

29. CIRCUIT DRAWINGS

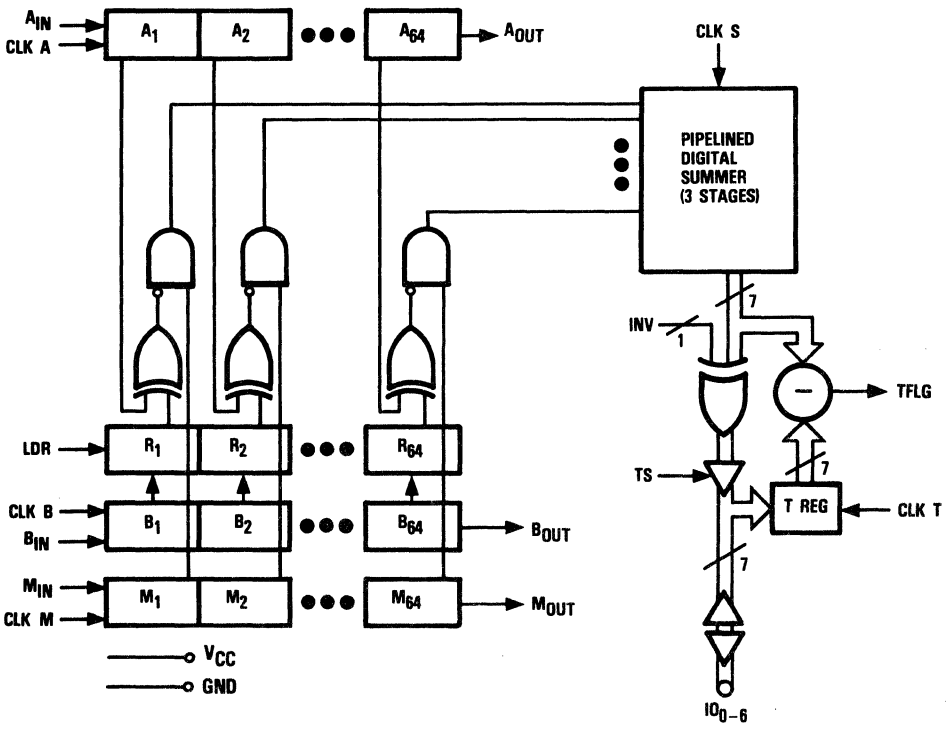
K06-164 1.25 GHz Prescaler

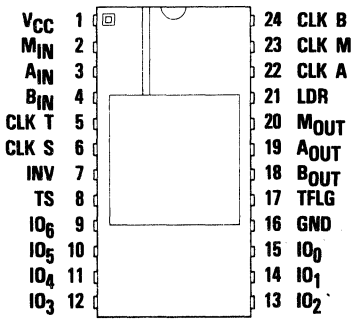


K07-9b Programmable Encoder/Decoder



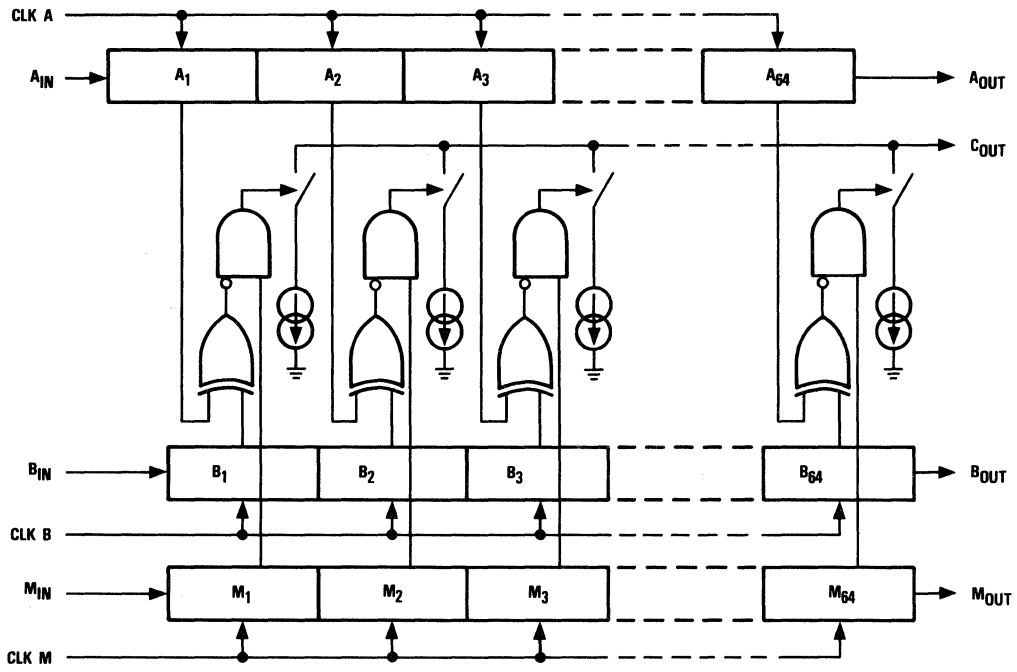
K01-7 64-Bit Digital Output Circulator

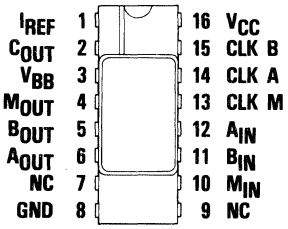




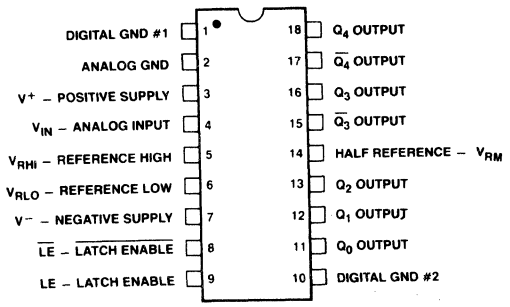
29. CIRCUIT DRAWINGS

K05-41 64-Bit Digital Correlator



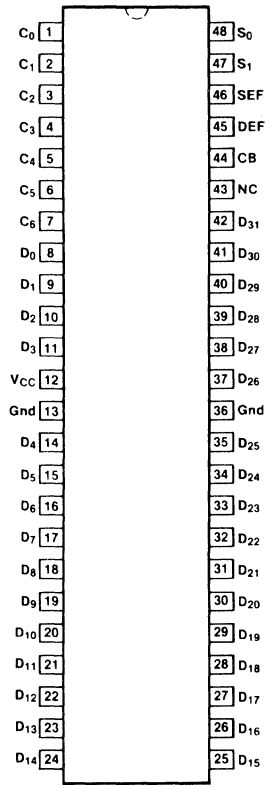


K08-1

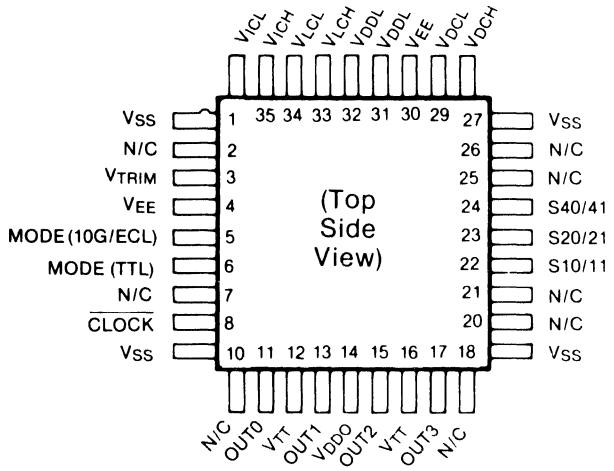


29. CIRCUIT DRAWINGS

K03-28 Parallel Check Bit/Syndrome Bit Generator



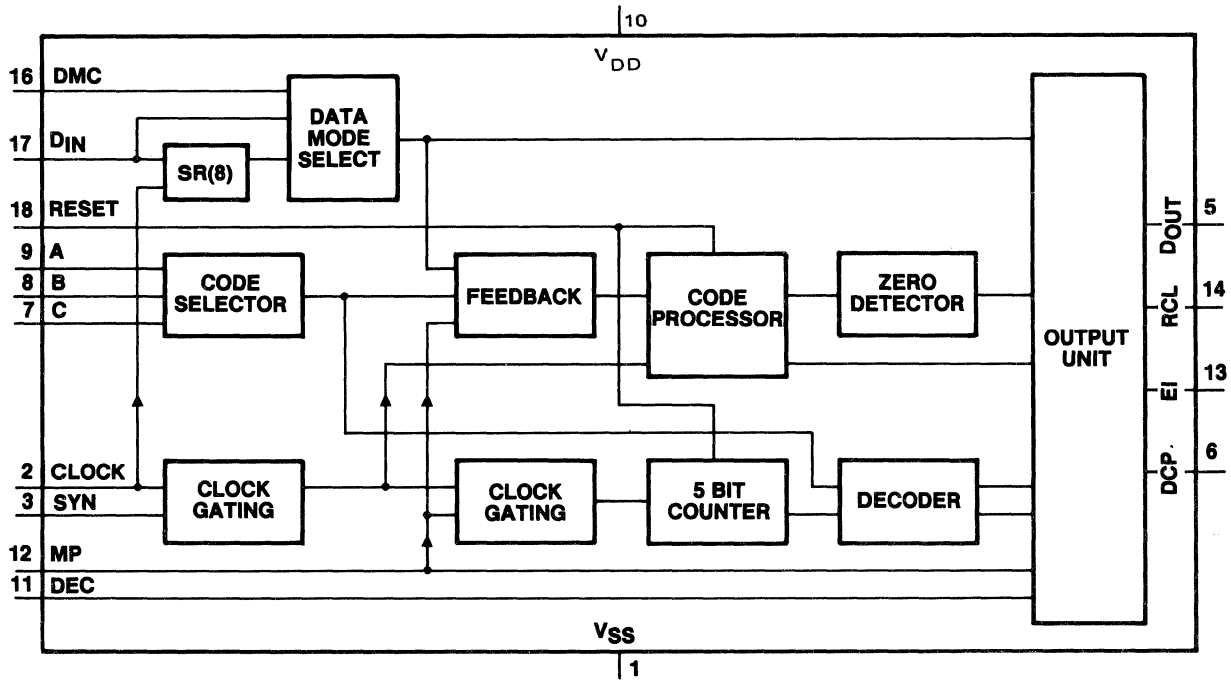
K06-167 Variable Modulus Prescaler



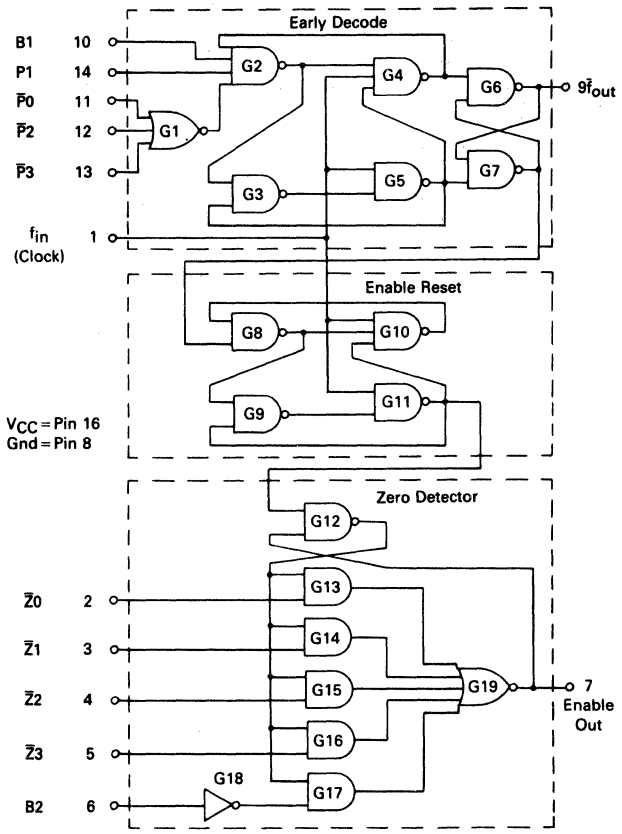
N/C = No Connection

NOTES: Pin 1 is marked for orientation. The package lid and bottom surfaces are at V_{SS} potential.

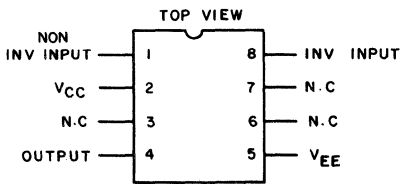
K07-2 Encoder and Decoder for Error Detection



K05-43 Counter Control Logic

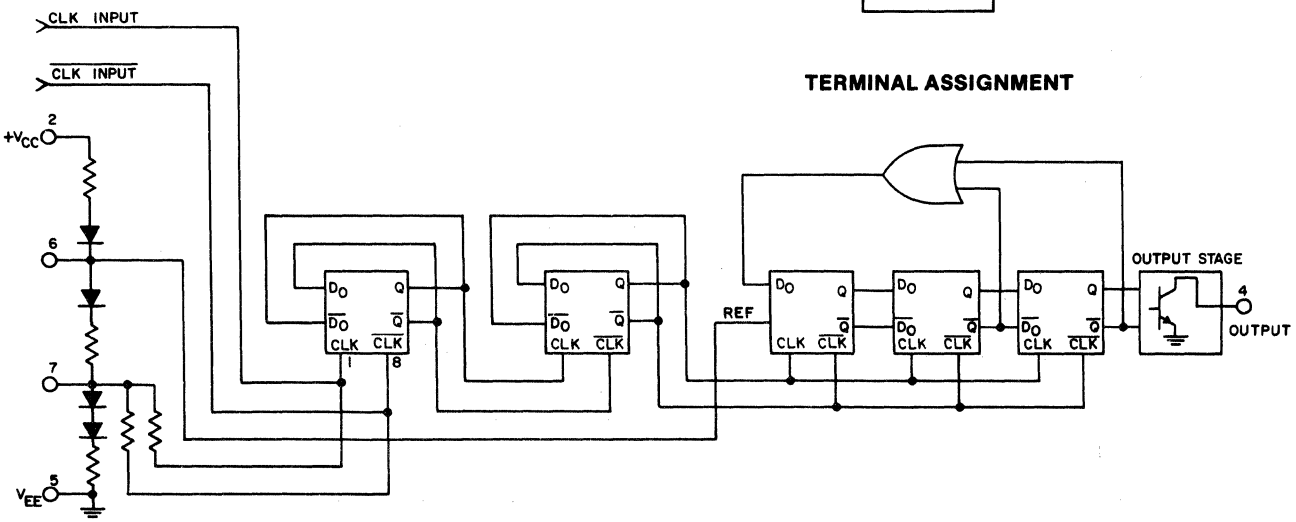


K06-165 Divide-by-20 Prescaler



TERMINAL ASSIGNMENT

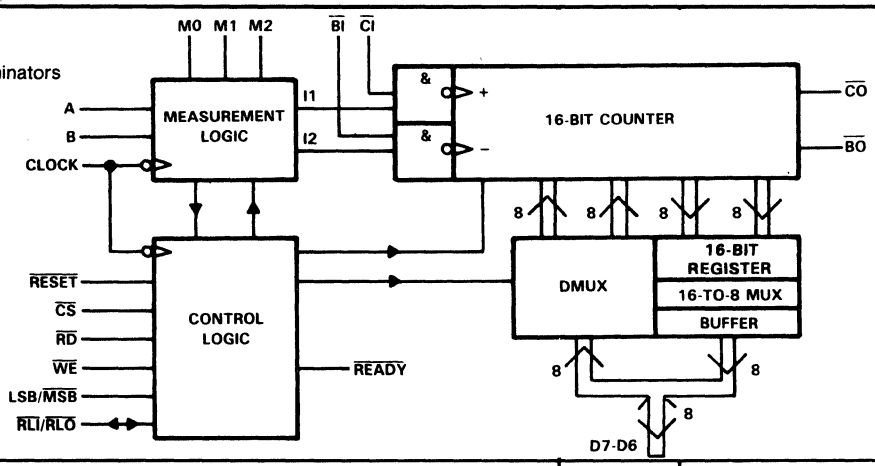
collector stage.

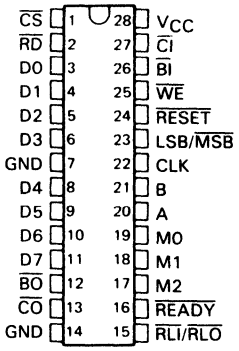


29. CIRCUIT DRAWINGS

K09-61

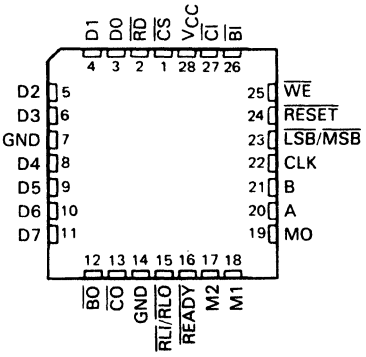
Direction Discriminators





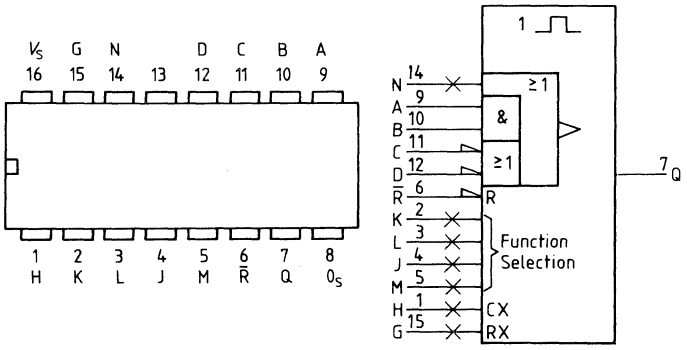
K09-61a

Direction Discriminators



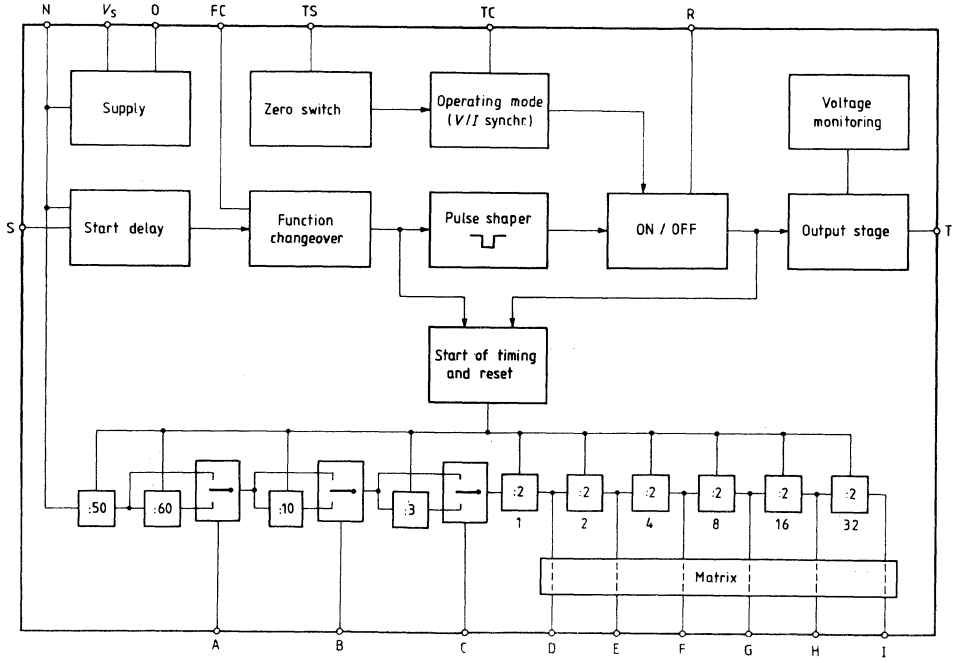
K09-59

Timer Circuit w/N Input



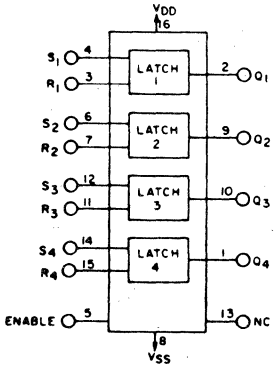
K07-46

Programmable Digital Timer

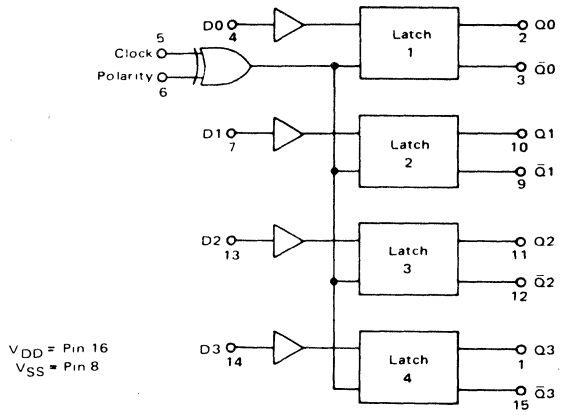


29. CIRCUIT DRAWINGS

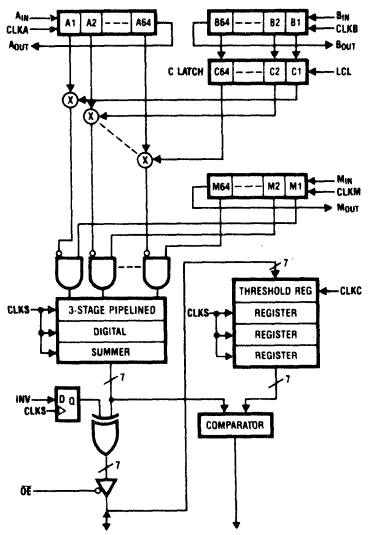
L00-1



L00-3

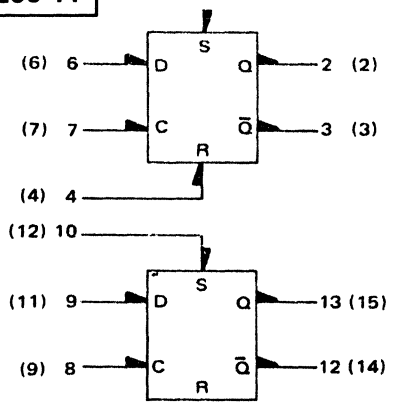


K01-7a 64-Bit Digital Correlator

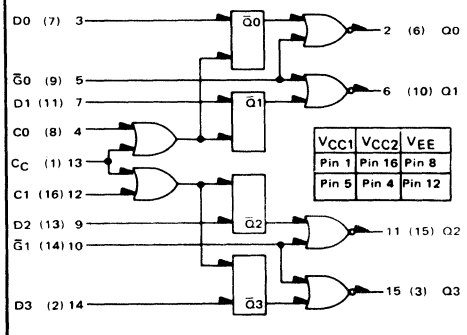


PIN	FUNCTION	PIN	FUNCTION
1	V_{CC}	24	CLKB
2	M_{IN}	23	CLKM
3	A_{IN}	22	CLKA
4	B_{IN}	21	LCL
5	CLKC	20	M_{OUT}
6	CLKS	19	A_{OUT}
7	INV	18	B_{OUT}
8	$\overline{OE}$	17	CFL
9	R6	16	GND
10	R5	15	R0
11	R4	14	R1
12	R3	13	R2

L00-11

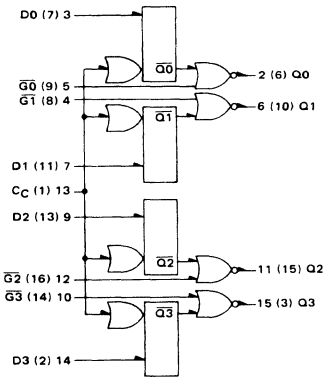


L00-12 Quad D-Type Latch



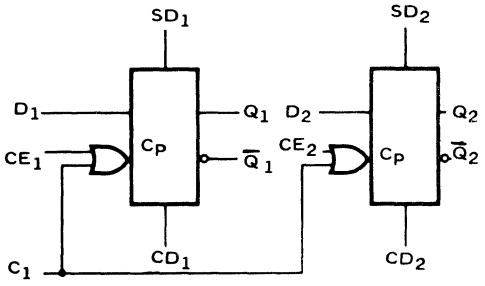
29. CIRCUIT DRAWINGS

L00-13 Quad D-Type Latch



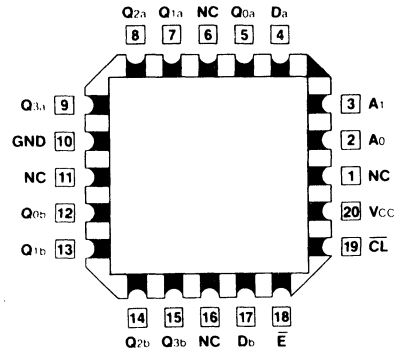
V_{CC1} = Pin 1 (5)
V_{CC2} = Pin 16 (4)
V_{EE} = Pin 8 (12)
( ) = FLAT PACK

L00-14

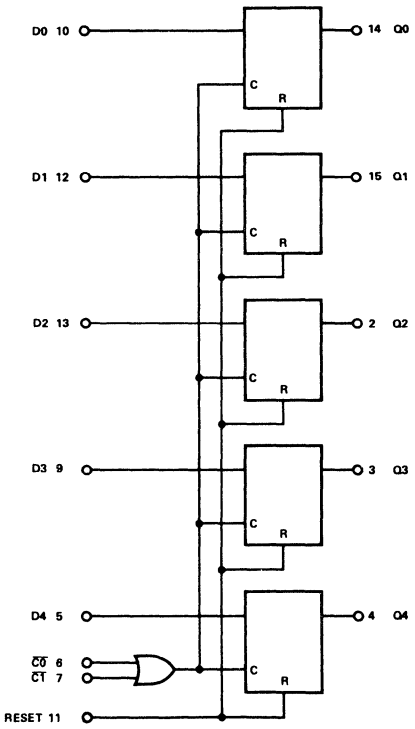


	SD1	D1	CE1	CD1	Q1	$\overline{Q}_1$	C	SD2	D2	CE2	CD2	Q2	$\overline{Q}_2$	VCC	COM	VEE
L00-14	16	14	15	1	3	2	13	9	11	10	8	6	7	4	5	12

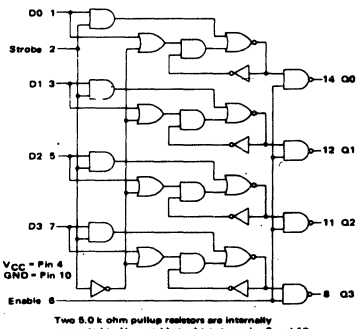
L00-164 Dual 4-Bit Addressable Latch



L00-15 Quint D-Type Latch



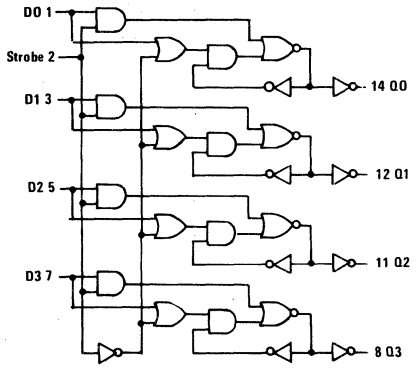
L00-22



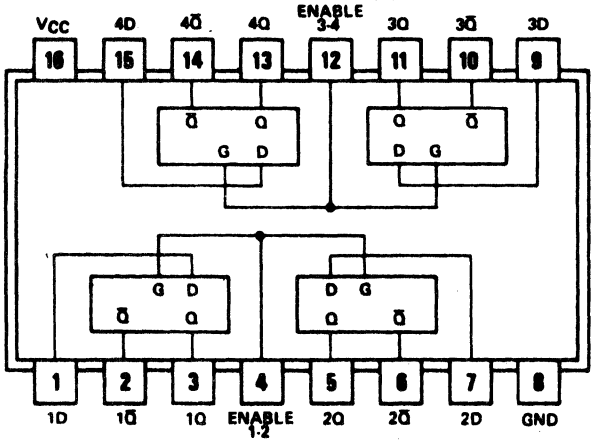
Two 5.0 k ohm pullup resistors are internally connected to V_{CC} and brought out on pins 9 and 13.

29. CIRCUIT DRAWINGS

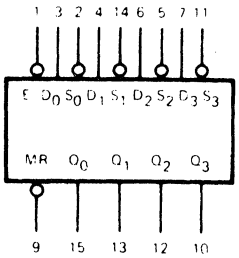
L00-23



L00-29

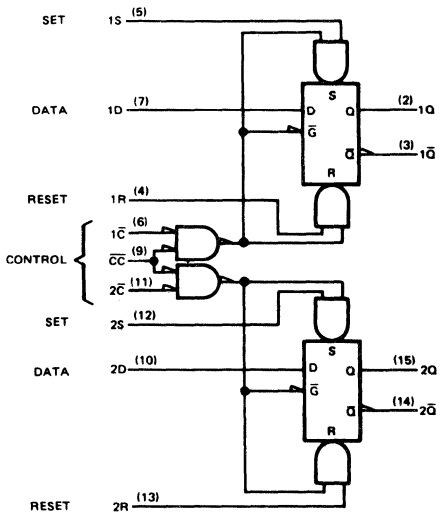


L00-33

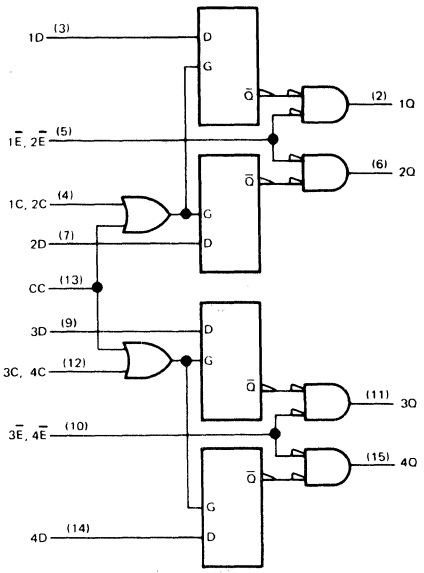


V_{CC} = Pin 16
GND = Pin 8

L00-36

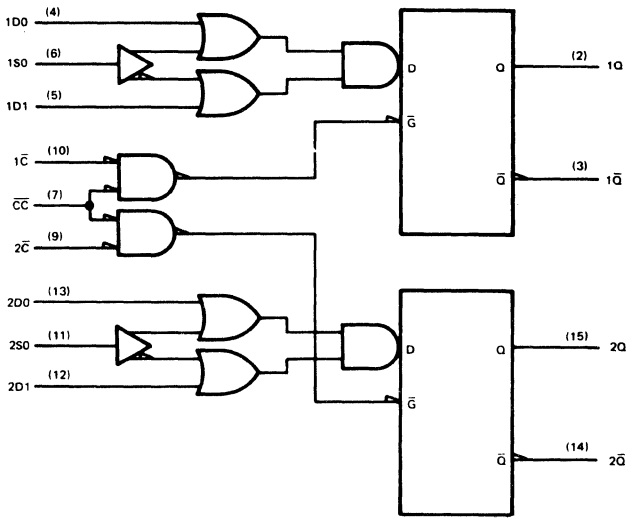


L00-37

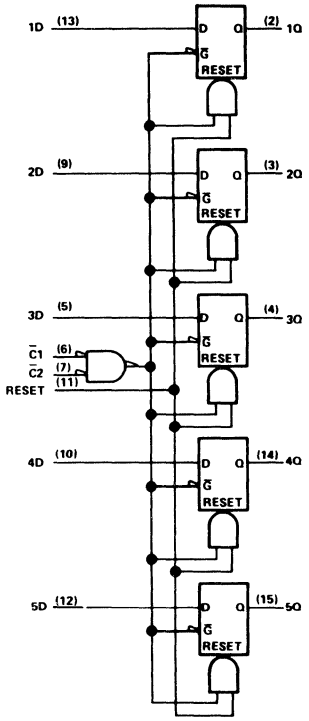


29. CIRCUIT DRAWINGS

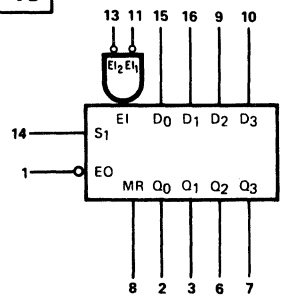
L00-38



L00-39

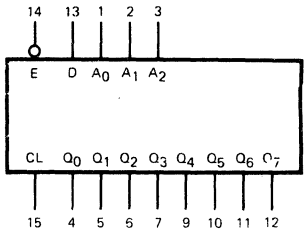


L00-48



V_{CC} = Pin 4
V_{CCA} = Pin 5
V_{EE} = Pin 12

L00-46

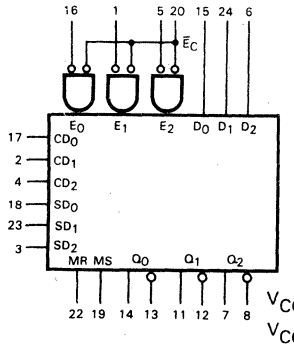


V_{DD} = Pin 16
V_{SS} = Pin 8

Numbers at end of terminals are pin numbers for L package
Numbers in parenthesis denotes pin numbers for F package

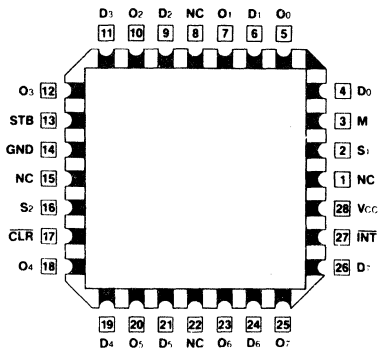
29. CIRCUIT DRAWINGS

L00-50

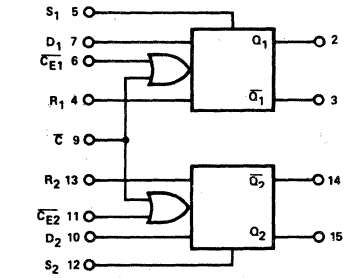


V_{CC} = Pin 9
V_{CCA} = Pin 10
V_{EE} = Pin 21

L00-166 Multimode Buffered Latch with 3-State Outputs



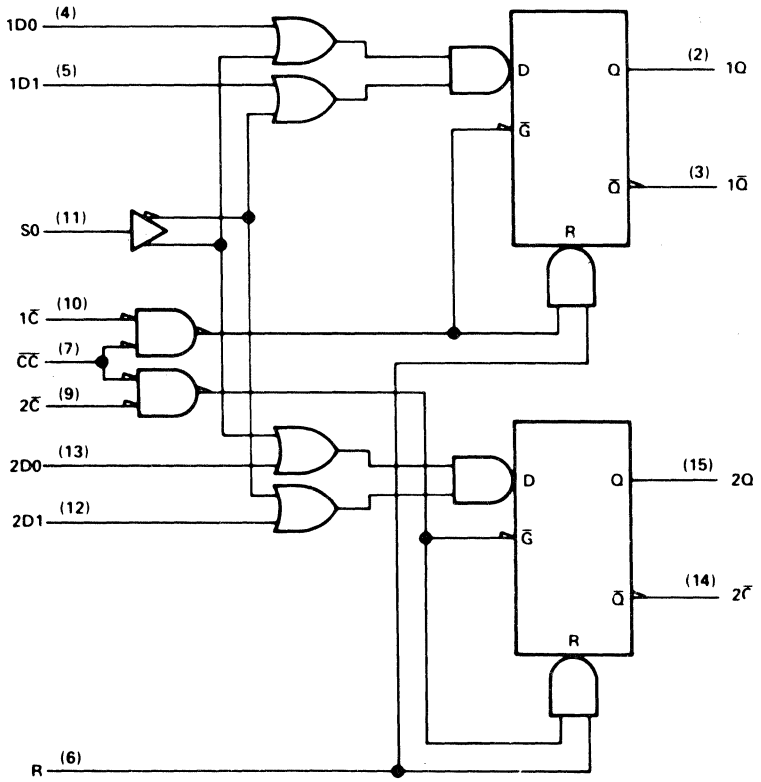
L00-55 Dual Latch



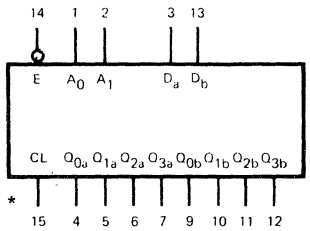
V_{CC1} = 1, V_{CC2} = 16, V_{EE} = 8
Positive logic: high level = "1"

L00-55a — Pin No. 9 is high activated.

L00-56

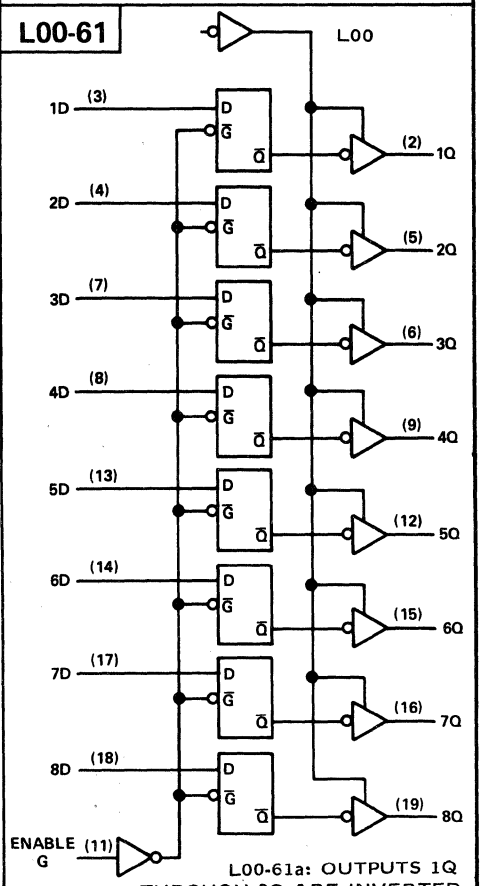


L00-47



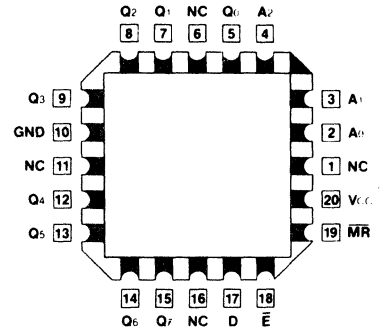
V_{CC} OR V_{DD} = PIN 16
GND OR V_{SS} = PIN 8
* L00-47a IS CLEAR (ACTIVE LOW) INPUT, $\overline{CLR}$

L00-61



L00-61a: OUTPUTS 1Q THROUGH 8Q ARE INVERTED.

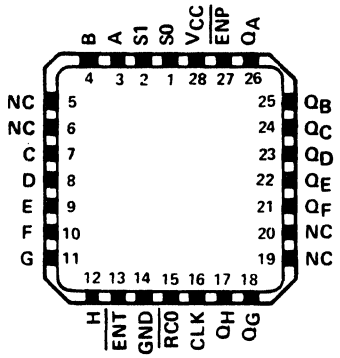
L00-165 8-Bit Addressable Latch



29. CIRCUIT DRAWINGS

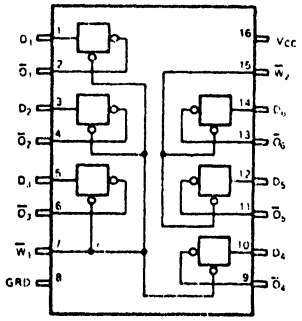
K05-38

Synchronous 8-Bit Up/Down Counter

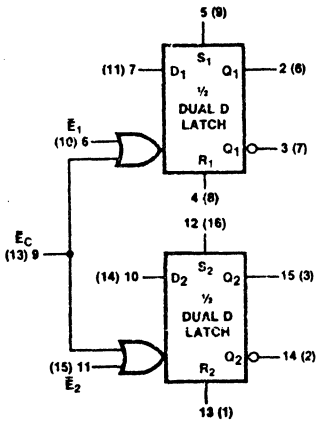


NC – No internal connection

L00-73

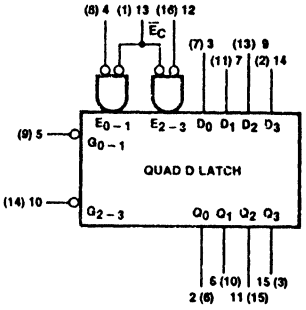


L00-75



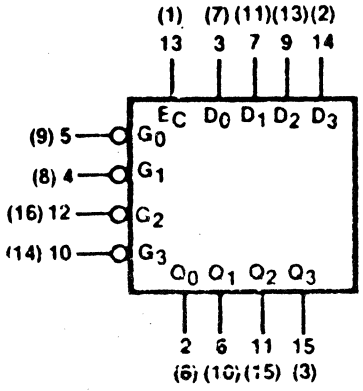
V_{CC1} = 1 (5)
V_{CC2} = 16 (4)
V_{EE} = 8 (12)
( ) = Flatpak

L00-76



V_{CC} = Pins 1, 16 (5, 4)
V_{EE} = Pins 8 (12)
( ) = Flatpak

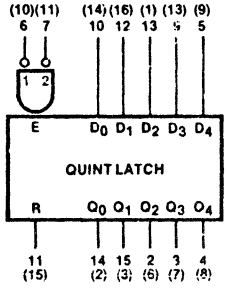
L00-77



V_{CC1} = Pin 1 (5)
V_{CC2} = Pin 16 (4)
V_{EE} = Pin 8 (12)
( ) = Flatpak

L00-78

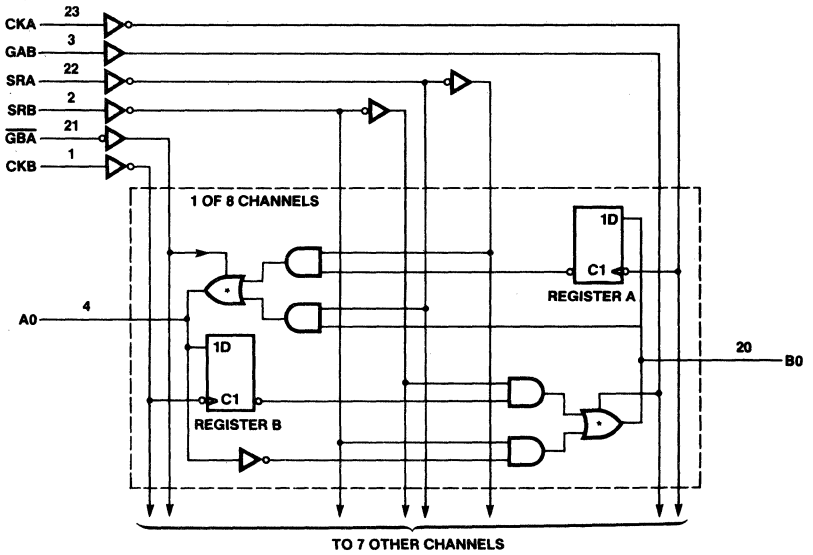
Quint D-Type Latch



V_{CC1} = 1 (5)
V_{CC2} = 16 (4)
V_{EE} = 8 (12)
( ) = Flatpak

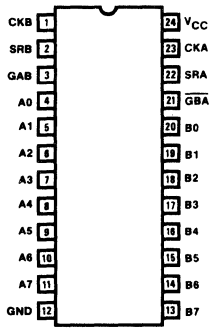
L00-169
L00-170

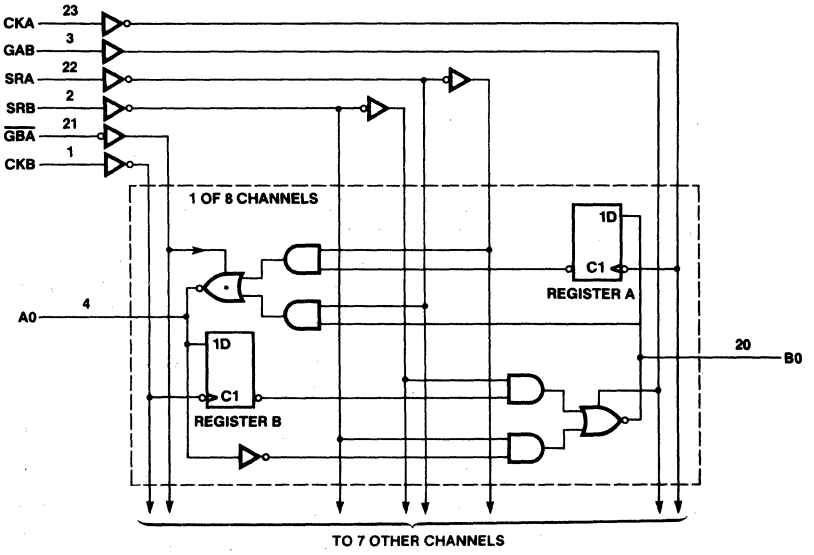
8-Bit Bus Front-Loading-Latch



L00-169

* For the 'LS651 devices, the A bus outputs are 3-state.
For the 'LS653 devices, the A bus outputs are open-collector.
The B bus outputs are 3-state for both devices.



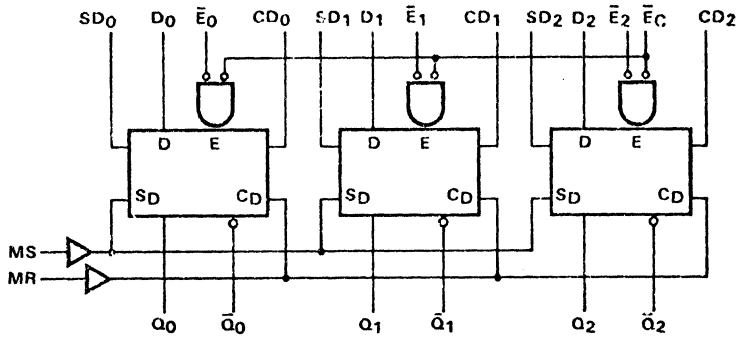


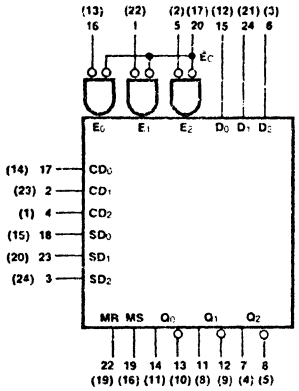
L00-170

* For the 'LS652 devices, the A bus outputs are 3-state.
For the 'LS654 devices, the A bus outputs are open-collector.
The B bus outputs are 3-state for both devices.

29. CIRCUIT DRAWINGS

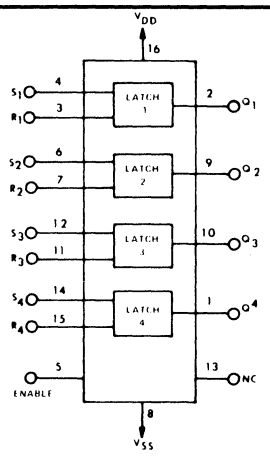
L00-79



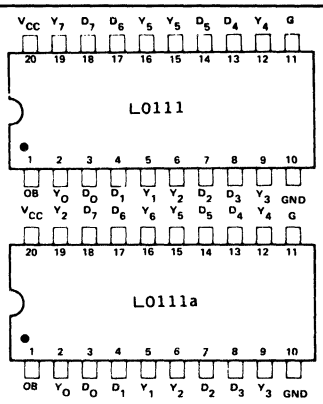


VCC = Pin 9 (6)
VCCA = Pin 10 (7)
VEE = Pin 21 (18)
( ) = DIP

L00-106

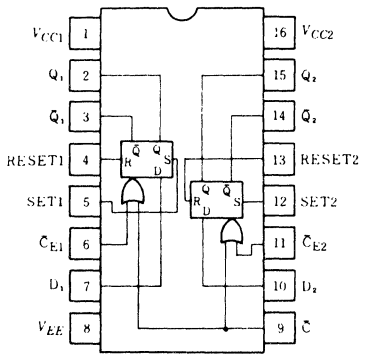


L00-111

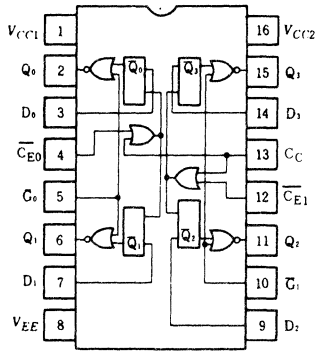


Note Pin 1 is marked for orientation
L0111a = Inputs D_0 through D_7 are Inverted.

L00-117

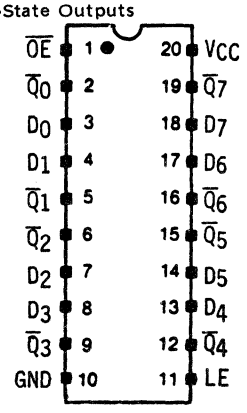


L00-118

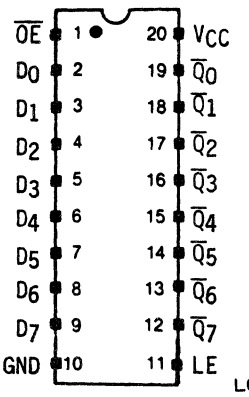


L00-120

Octal D-Type Transparent Latch with 3-State Outputs



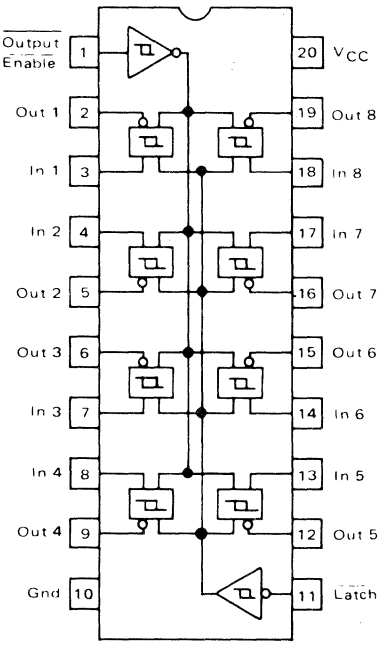
L00-120



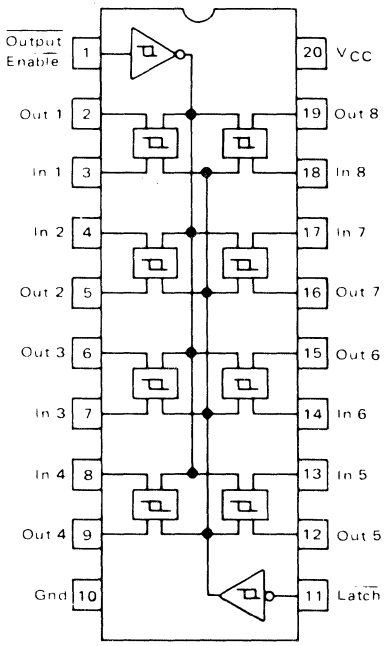
L00-120a

29. CIRCUIT DRAWINGS

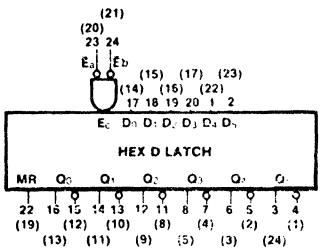
L00-127 Octal D-Type Buffer/Latch with 3-State Outputs



L00-128 Octal D-Type Buffer/Latch with 3-State Outputs

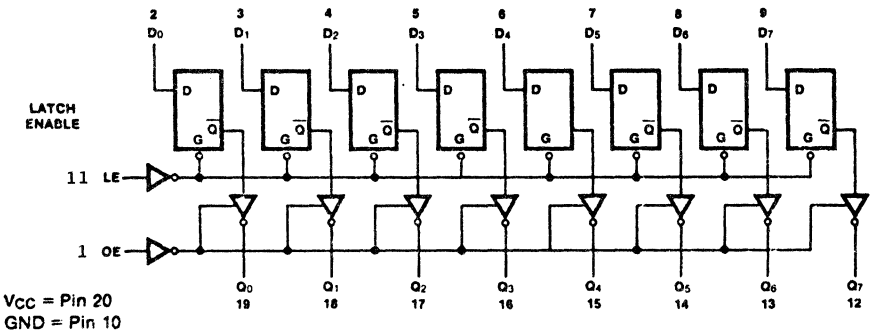


L00-80



VCC = Pin 9 (6)
VCCA = Pin 10 (7)
VEE = Pin 21 (18)
( ) = DIP

L00-69

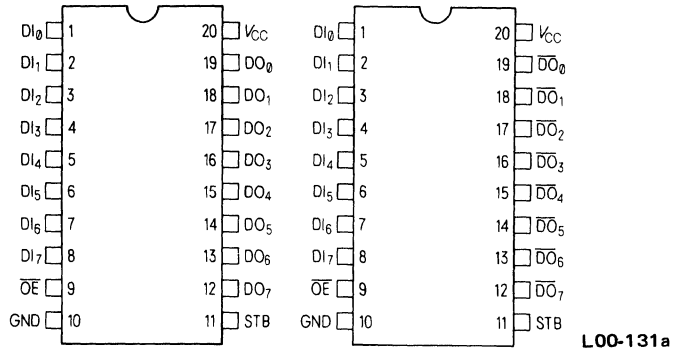


VCC = Pin 20
GND = Pin 10

L00-69a — Outputs are inverted.

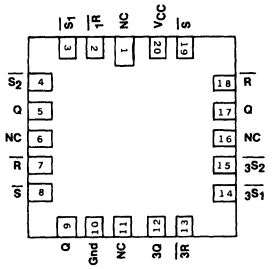
29. CIRCUIT DRAWINGS

L00-131 8-Bit Octal Latch

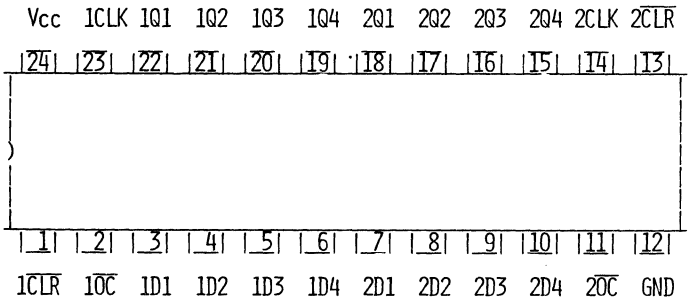


L00-131 L00-131a

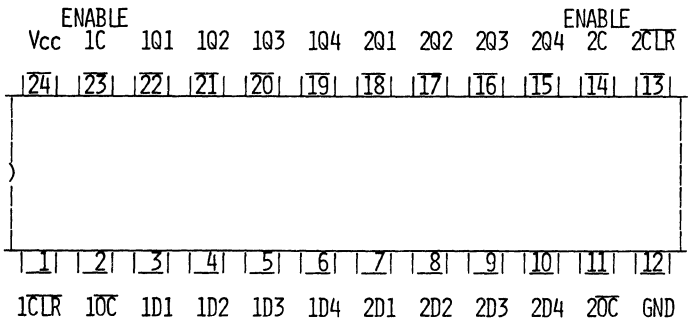
L00-167 Quad S • R Latch



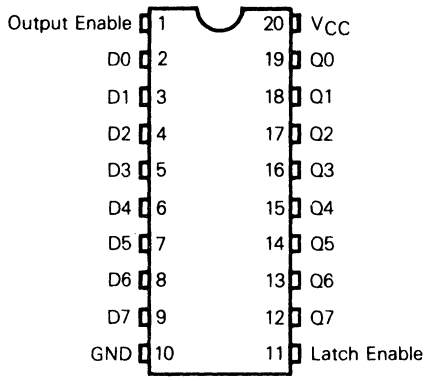
L00-132



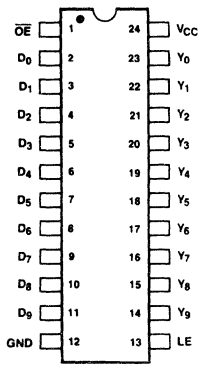
L00-133

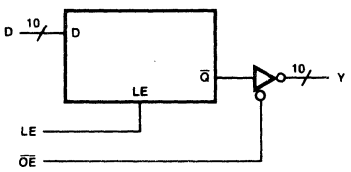


L00-163B Octal 3-State Noninverting Transparent Latch

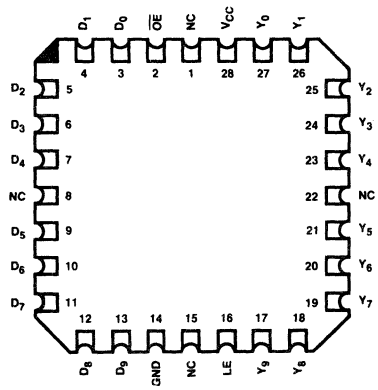


L00-137 Ten Bit Bus Interface Latch



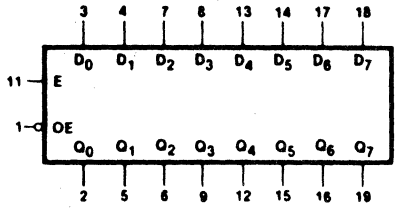


L00-137 Non-inverting Outputs
L00-137a Inverting Outputs



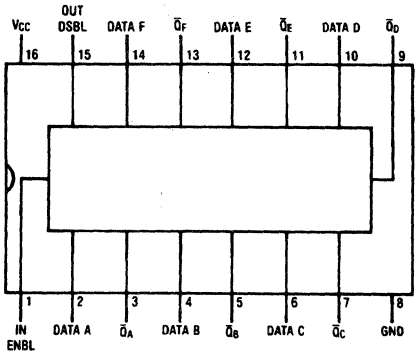
29. CIRCUIT DRAWINGS

L00-140 Octal Transparent Latch w/3-State Outputs

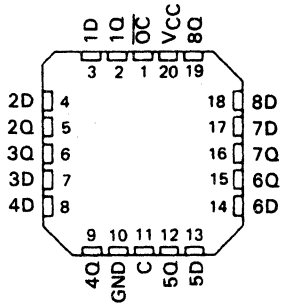


V_{CC} = Pin 20
GND = Pin 10

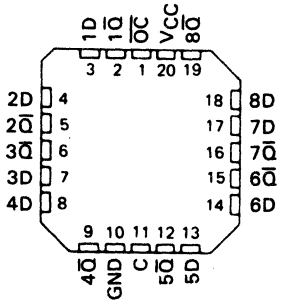
L00-141 Hex Tri-State Latch



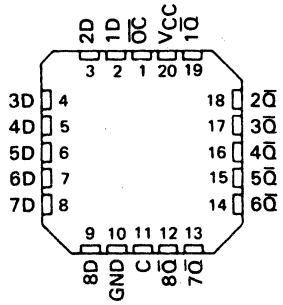
L00-142 8 Bit Addressable Latch



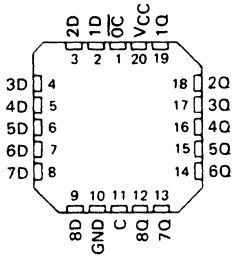
L00-143 Octal D-type Transparent Latch with 3-State Outputs



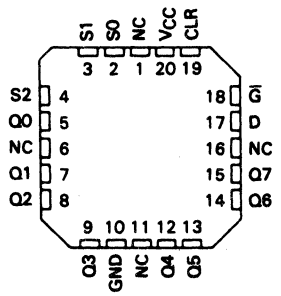
L00-144 Octal D Transparent Latch with 3-State Output



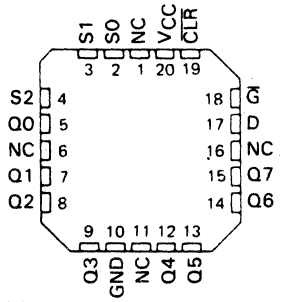
L00-145 Octal D Transparent Latch with 3-State Outputs



L00-146 Octal D Transparent Latch with 3-State Outputs



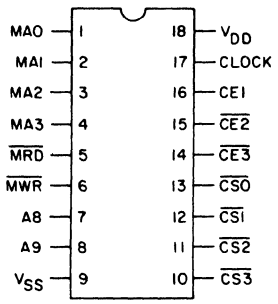
L00-147 8-Bit Addressable Latch



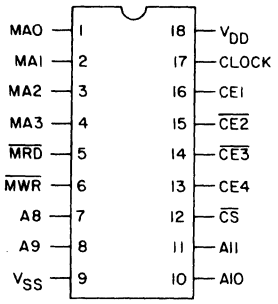
NC — No internal connection

29. CIRCUIT DRAWINGS

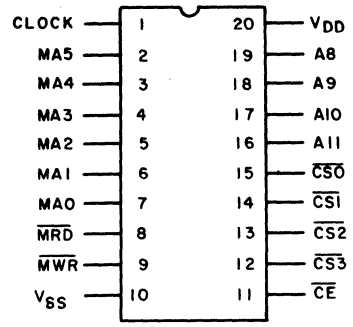
L00-149 4-Bit Latch and Decoder



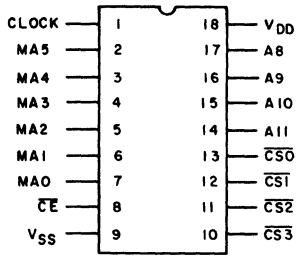
L00-150 4-Bit Latch and Decoder



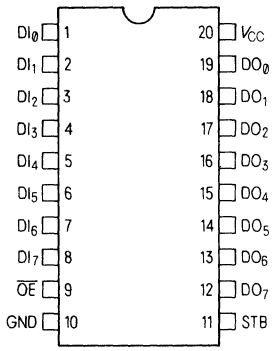
L00-151 6- Bit Latch and Decoder



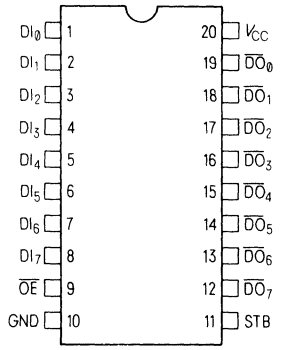
L00-151a 6-Bit Latch and Decoder



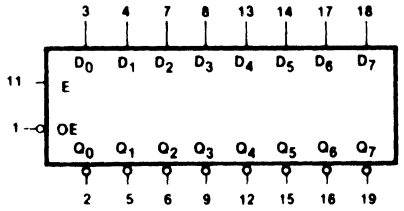
L00-152 Octal Latch with 3- State Outputs



L00-152a

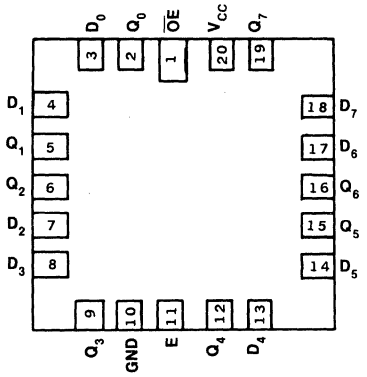


L00-154 Octal Transparent Latch (3-State)

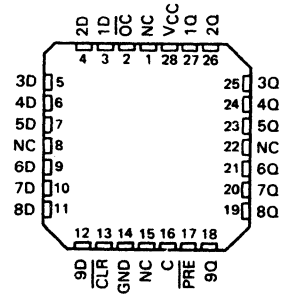


V_{CC} = Pin 20
GND = Pin 10

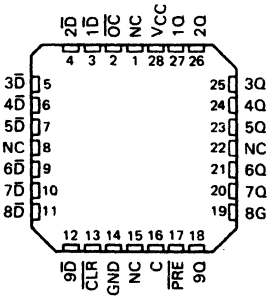
L00-155 Octal Transparent Latch (3-State)



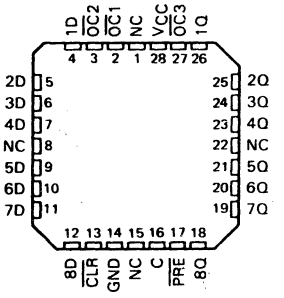
L00-156 9-Bit Bus Interface D-Type Latch with 3-State Outputs



L00-157 9-Bit Bus Interface D-Type Latch with 3-State Outputs and Inverting Inputs

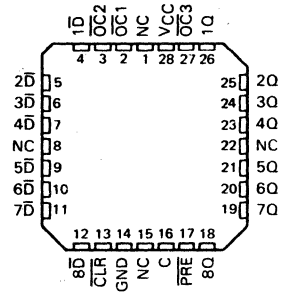


L00-158 8-Bit Bus Interface D-Type Latch with 3-State Outputs



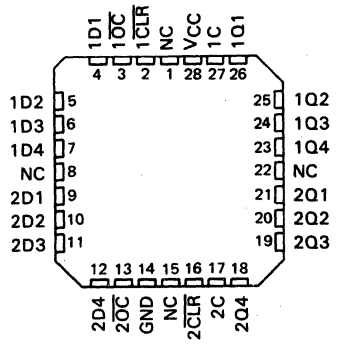
29. CIRCUIT DRAWINGS

L00-159 8-Bit Bus Interface D-Type Latch with 3-State Outputs and Inverting Inputs



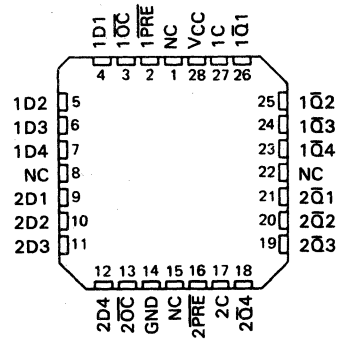
NC—No internal connection

L00-160 Dual 4-Bit D-Type Latch with 3-State Outputs



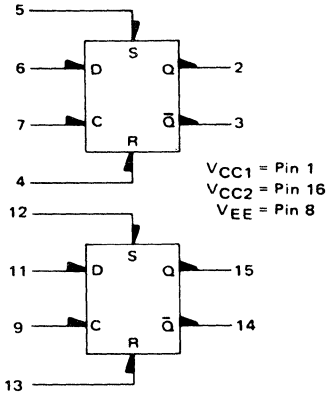
NC — No internal connection

L00-161 Dual 4-Bit D-Type Latch with 3-State Outputs

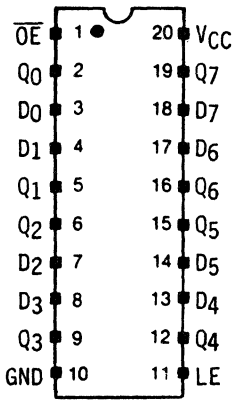


NC—No internal connection

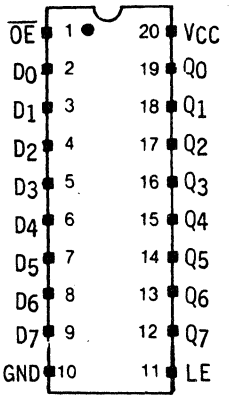
L00-162 Dual Clocked Latch



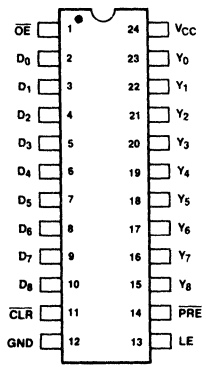
L00-163 Octal D-Type Transparent Latch

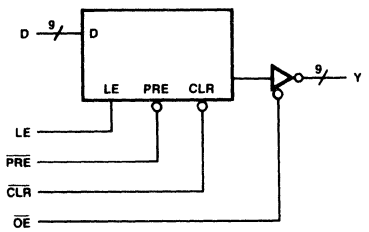


L00-163a Octal D-Type Transparent Latch

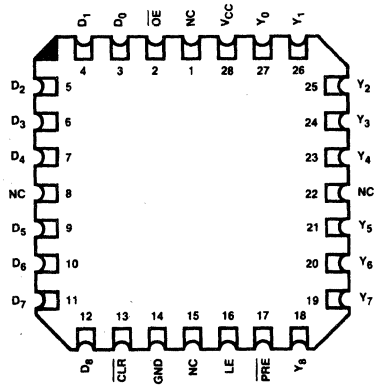


L00-138 Nine/Bit Bus Interface Latch

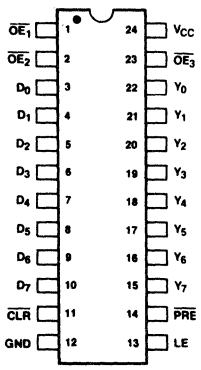


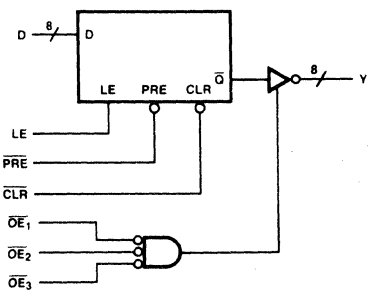


L00-138 Non-Inverting Outputs
L00-138a Inverting Outputs

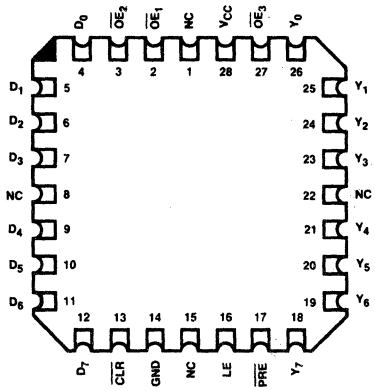


L00-139



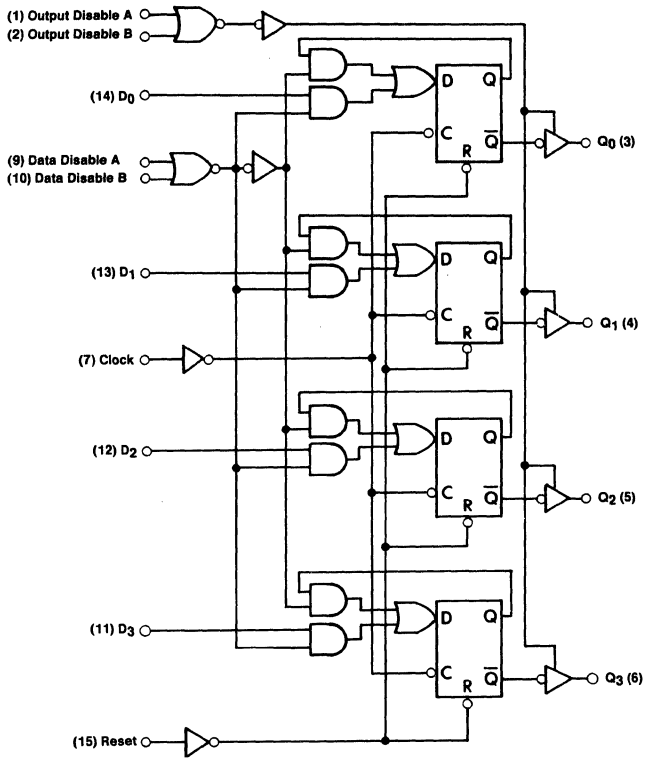


L00-139 Non-Inverting Outputs
L00-139a Inverting Outputs

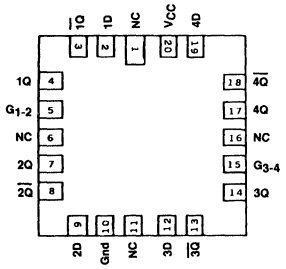


29. CIRCUIT DRAWINGS

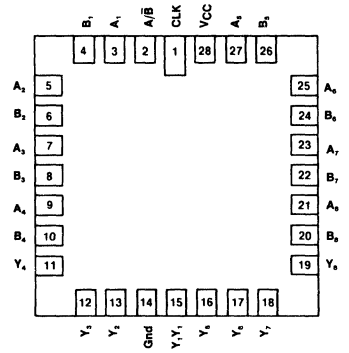
L00-121 4-Bit D-Type Register



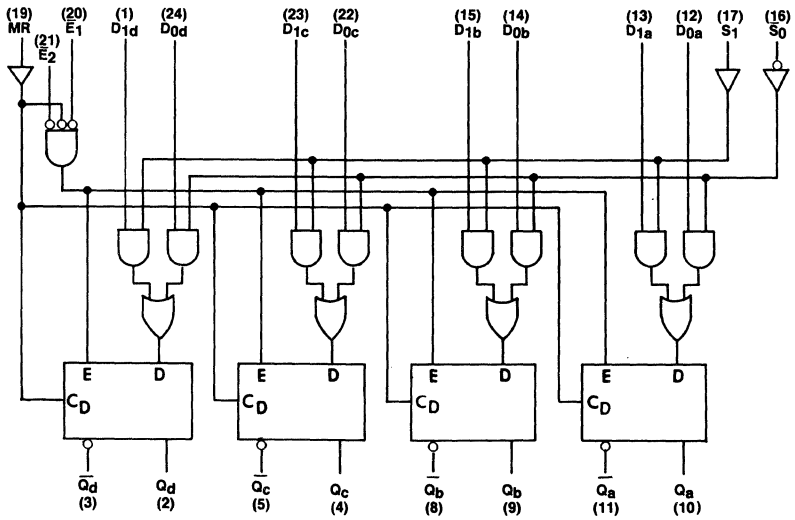
L00-168 4-Bit Bistable Latch



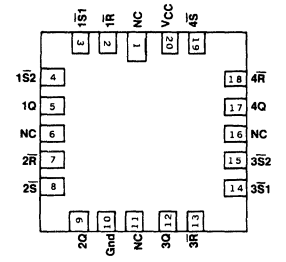
L00-173 Octal 2-Input Multiplexed Latch



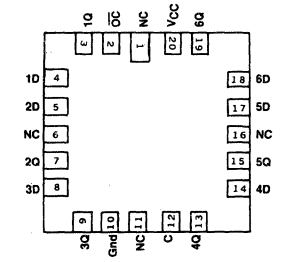
L00-123 Quad Multiplexer/Latch



L00-172 Quad S – R Latch

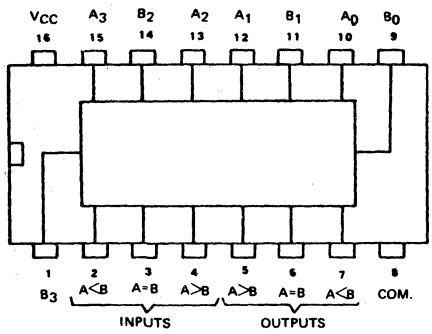


L00-171 Hex D-Type Latches

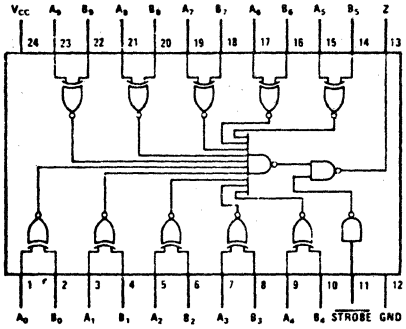


29. CIRCUIT DRAWINGS

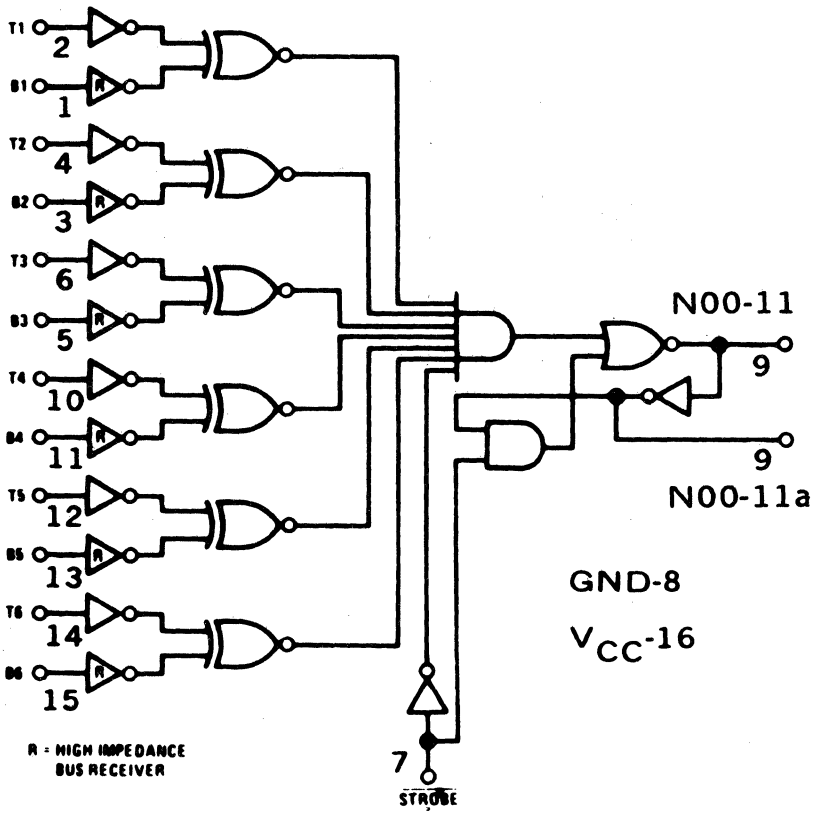
N00-9



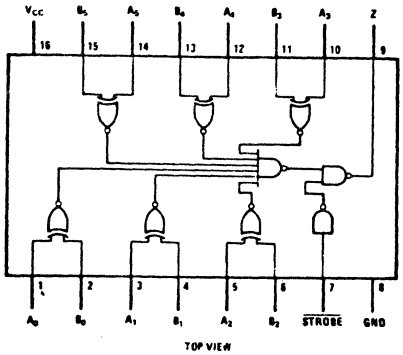
N00-10



N00-11

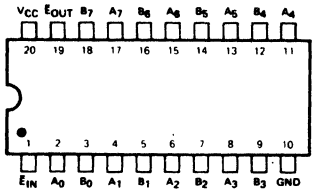


N00-12

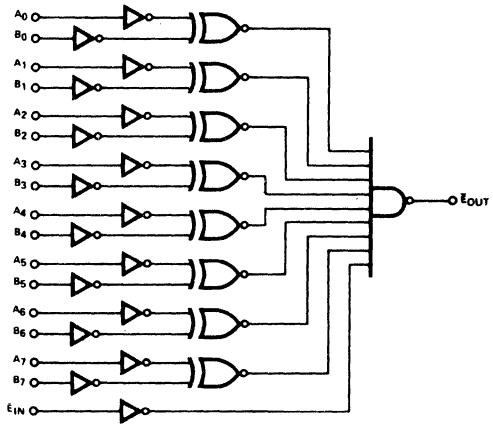


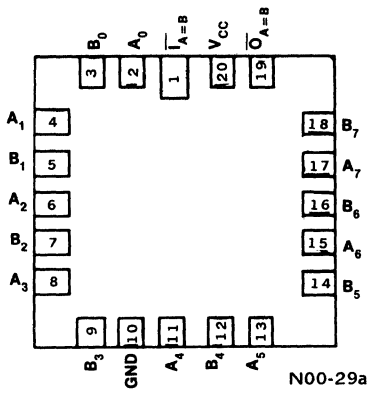
29. CIRCUIT DRAWINGS

N00-29 8-Bit Identity Comparator



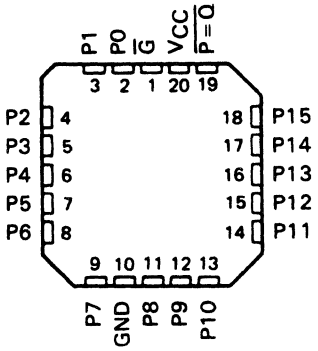
Note: Pin 1 is marked for orientation



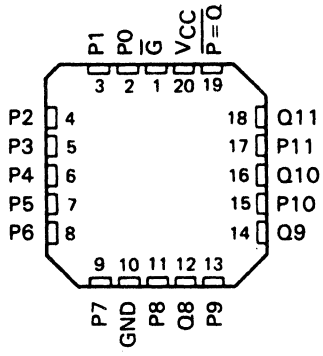


N00-29a

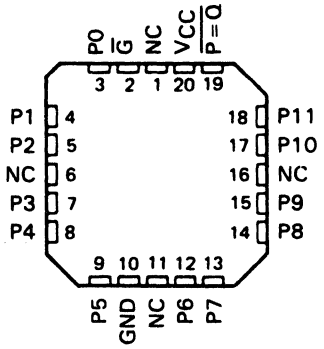
N00-48 Fuse Programable 16-Bit Identity Comparator



N00-49 Fuse Programable 8-Bit Identity Comparator and 4-Bit Comparator

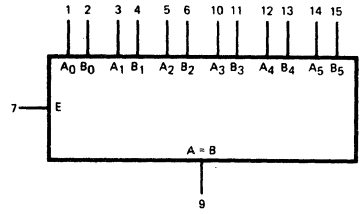


N00-50 Fuse Programable 12-Bit Identity Comparator



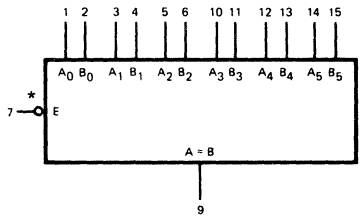
NC—No internal connection

N00-2



V_{CC} = Pin 16
GND = Pin 8

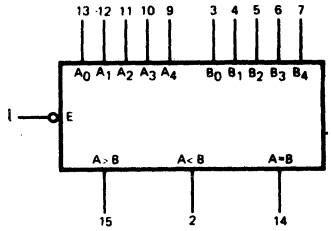
N00-3



V_{CC} = Pin 16
GND = Pin 8

* AVAILABLE IN BOTH INVERTING AND NON-INVERTING ENABLE INPUT.

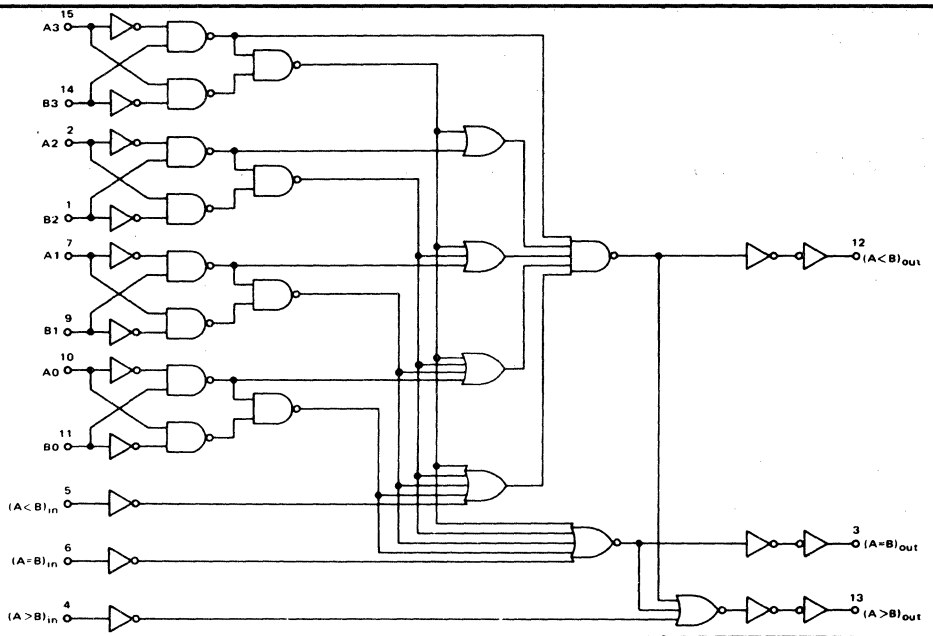
N00-4



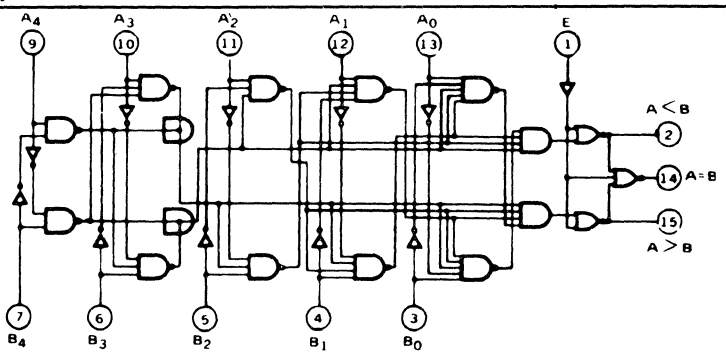
V_{CC} = Pin 16
GND = Pin 8

29. CIRCUIT DRAWINGS

N00-5

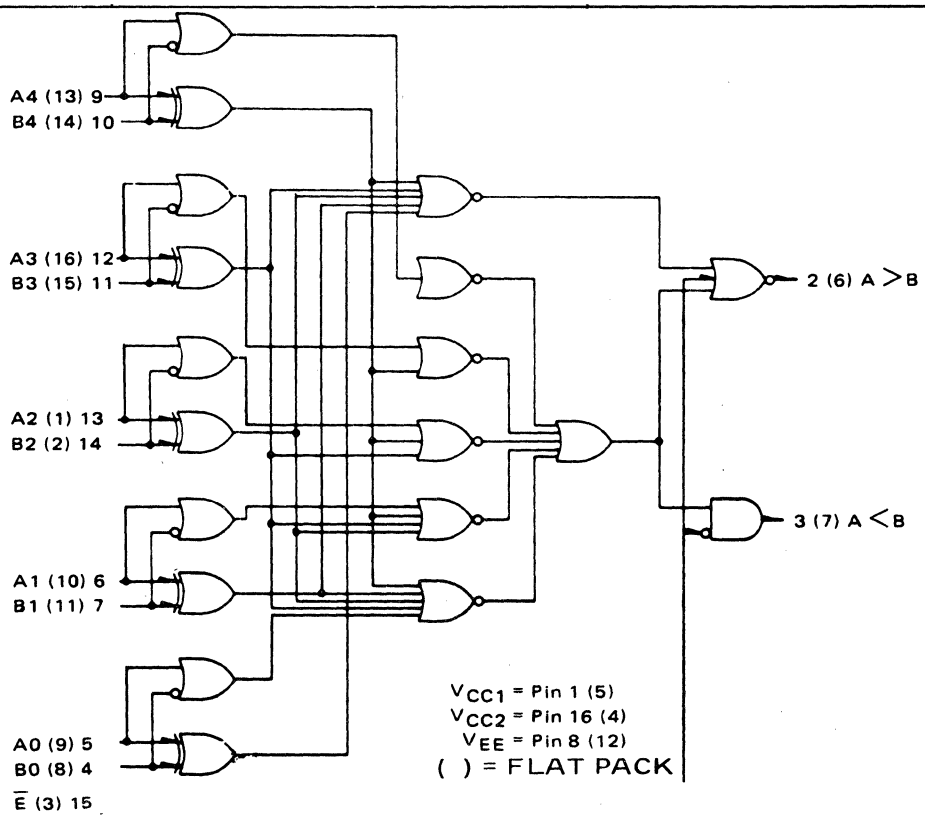


N00-7



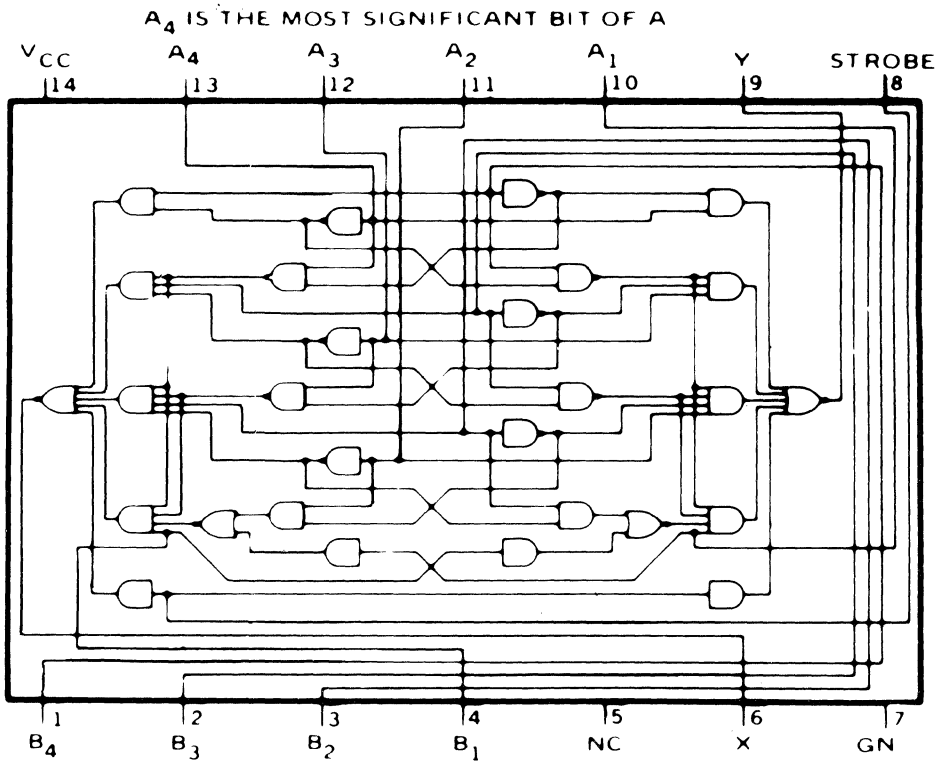
N00-8

5-Bit Magnitude Comparator

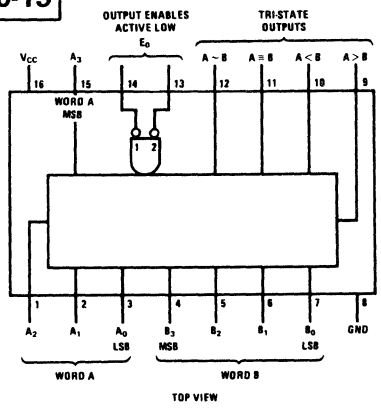


29. CIRCUIT DRAWINGS

N00-13

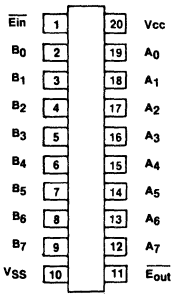


N00-15

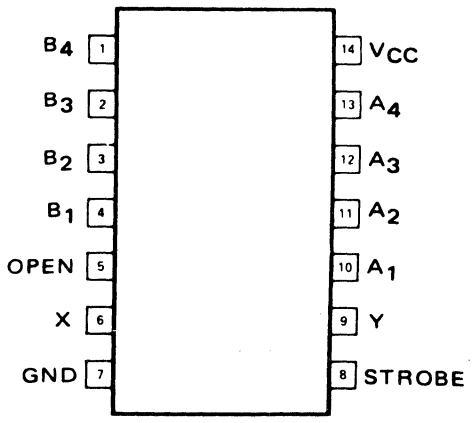


N00-60

8-Bit Address Comparator

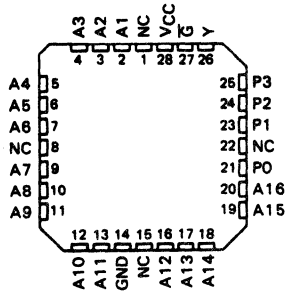


N00-20



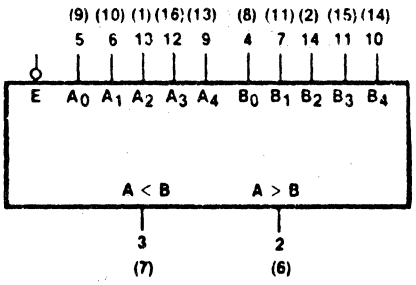
N00-51

16-Bit to 4-Bit Address Comparator with Enable



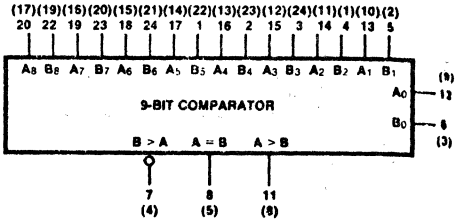
29. CIRCUIT DRAWINGS

N00-23



V_{CC1} = Pin 1 (5) V_{EE} = Pin 8 (12)
V_{CC2} = Pin 16 (4) ( ) = Flatpak

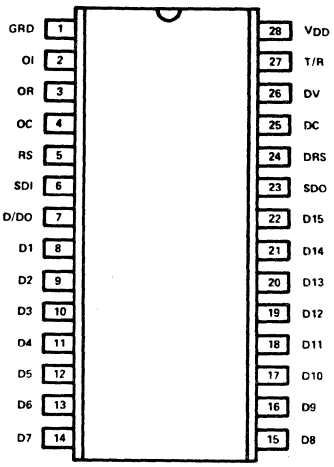
N00-24



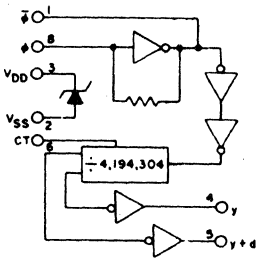
V_{CC} = 9 (6)
V_{CCA} = 10 (7)
V_{EE} = 21 (18)
( ) = DIP

K07-9

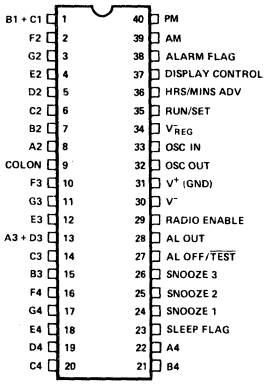
Programmable Encoder/Decoder



K09-51

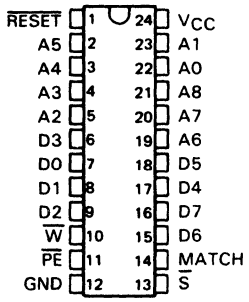


K09-58

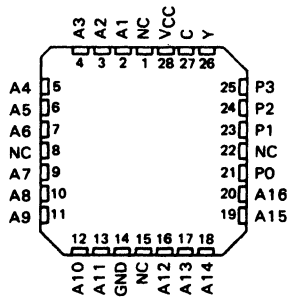


29. CIRCUIT DRAWINGS

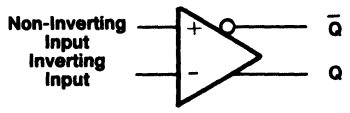
N00-61 Cache Address Comparator



N00-52 16-Bit to 4-Bit Address Comparator with Latch



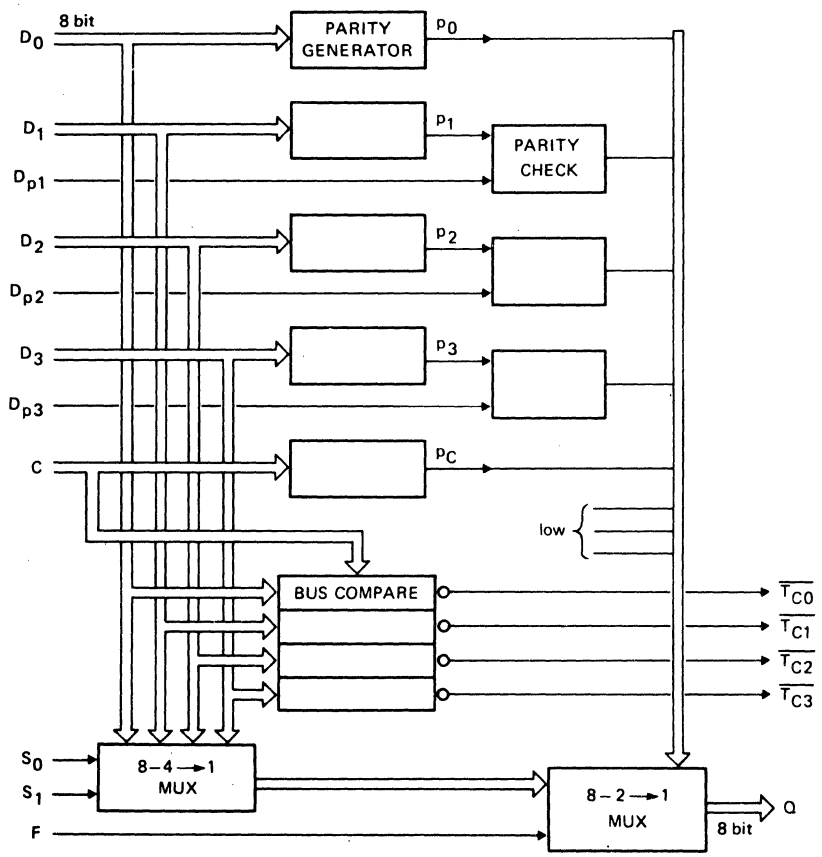
N00-56 GaAs Comparator



PIN NO.	SYMBOL	FUNCTION
1	NC	No Connection
2	Analog 1	Analog Input 1
3	Analog 2	Analog Input 2
4	NC	No Connection
5	V_{SS}	Supply Voltage
6	GND	Ground (DC)
7	V_{DD}	Supply Voltage
8	NC	No Connection
9	Q_1	Output 1
10	COMM	Common Output Connection**
11	Q_2	Output 2
12	NC	No Connection
13	NC	No Connection
14	Latch	Latch Enable
15	NC	No Connection
16	NC	No Connection

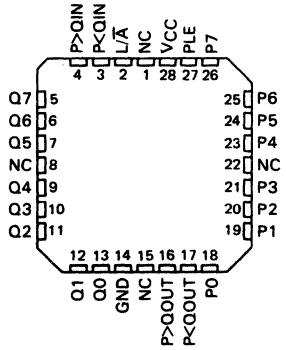
**Connect the common output connection to ground for ECL level outputs.

N00-41

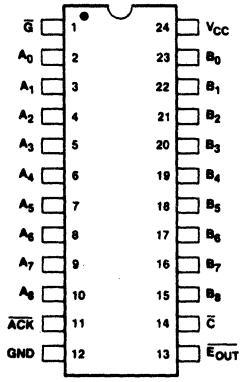


4-BYTE Comparator/Multiplexer

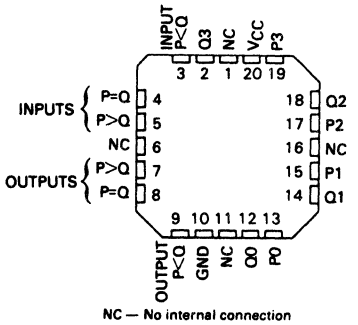
N00-53 8-Bit Magnitude Comparator



N00-42

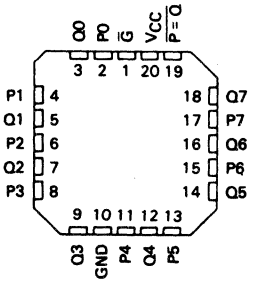


N00-43 4- Bit Magnitude Comparators



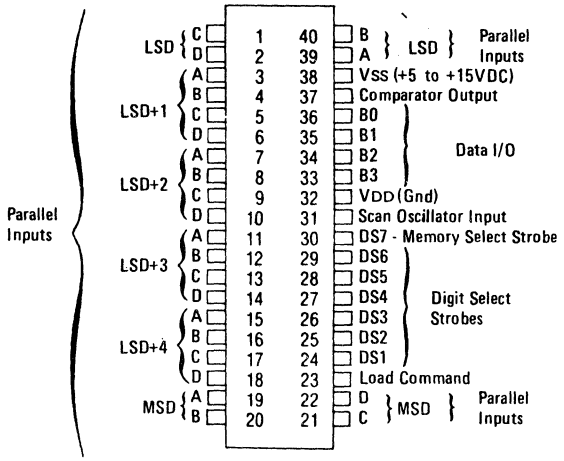
NC — No internal connection

N00-44 8- Bit Identity Comparator

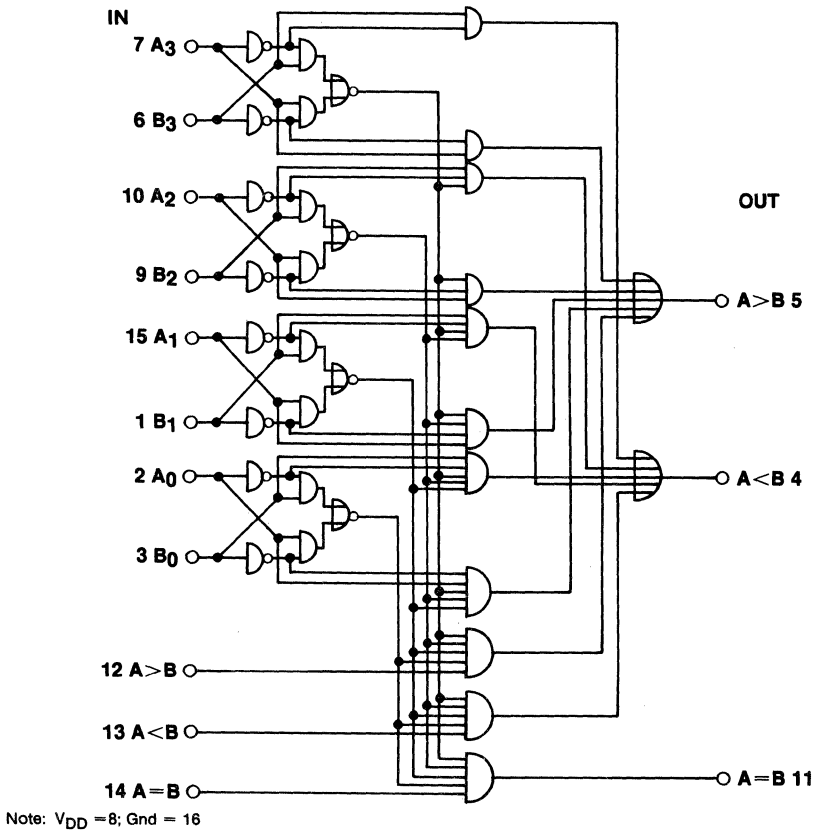


29. CIRCUIT DRAWINGS

N00-30 6 Decade, 7 Level Comparator

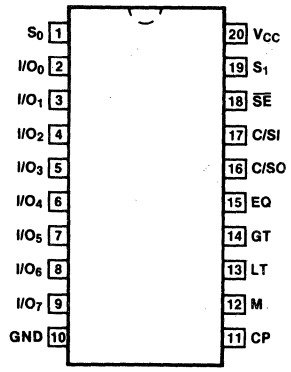


N00-31 4-Bit Magnitude Comparator

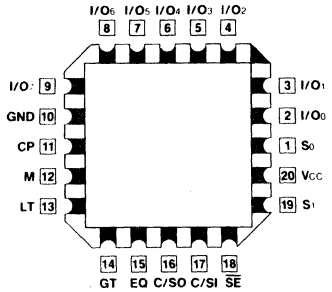


Note: V_{DD} =8; Gnd = 16

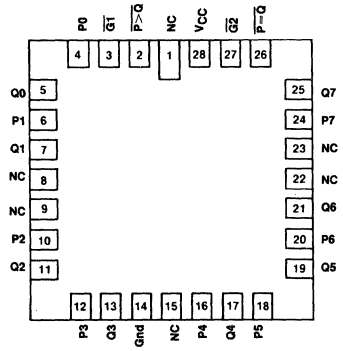
N00-54 8-Bit Registered Comparator



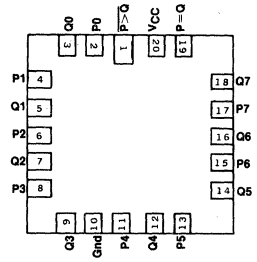
N00-55 8-Bit Registered Comparator



N00-58 8-Bit Magnitude/Identity Comparator

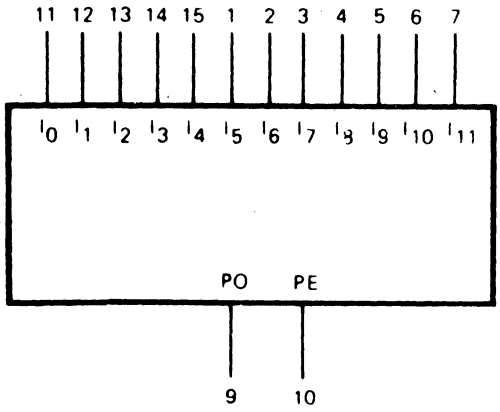


N00-57 8-Bit Magnitude/Identity Comparator



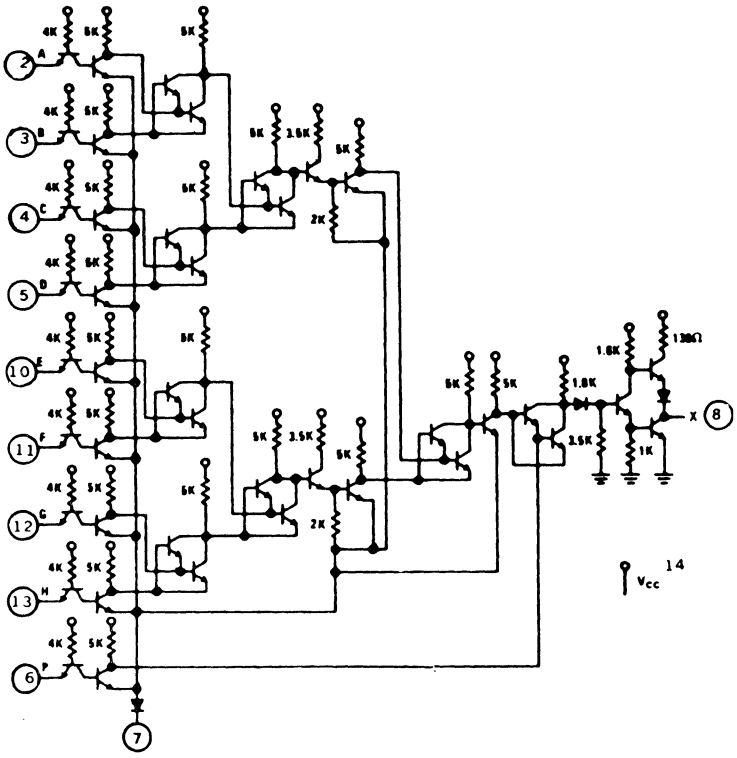
29. CIRCUIT DRAWINGS

P00-13

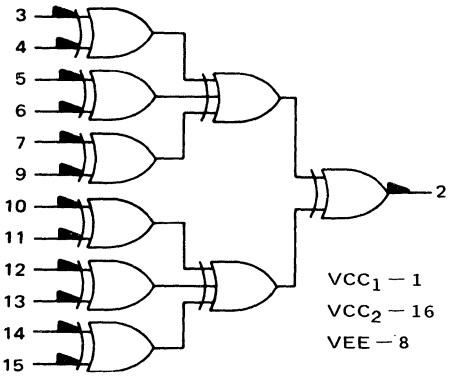


V_{CC} = Pin 16
GND = Pin 8

P00-5

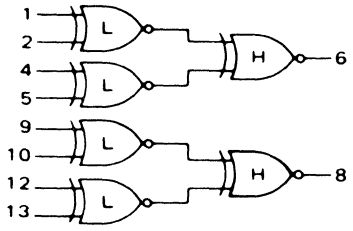


P00-7 12-Bit Parity Generator-Checker



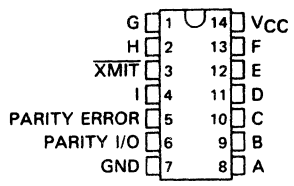
VCC_1 — 1
VCC_2 — 16
VEE — 8

P00-8

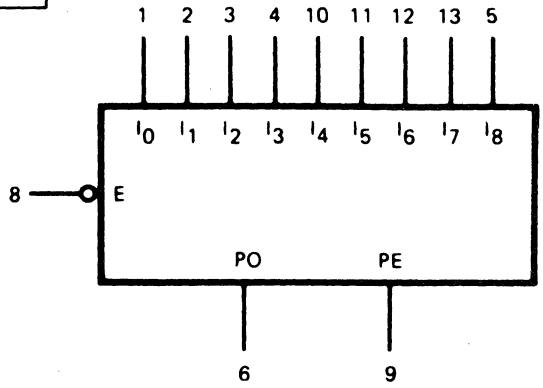


V_{CC} = PIN 14
GND = PIN 7

P00-31 9-Bit Parity Generator/Checker with Bus Driver Parity I/O Part



P00-14

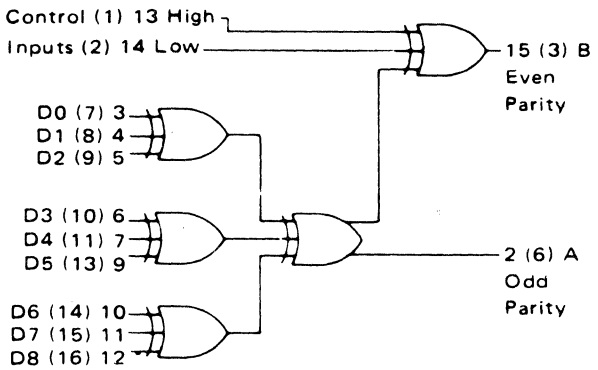


V_{CC} = Pin 14
GND = Pin 7

29. CIRCUIT DRAWINGS

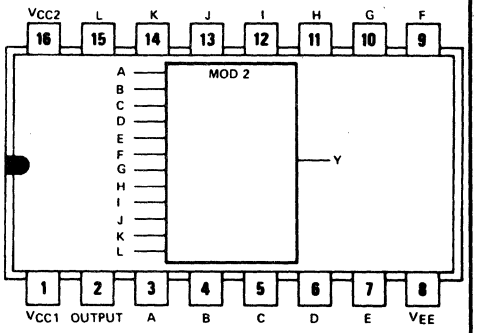
P00-11

9 + 2-Bit Parity Generator-Checker

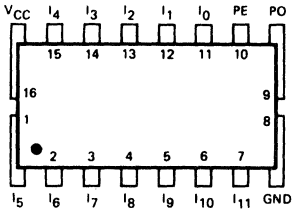


V_{CC1} Pin 1 (5)
V_{CC2} Pin 16 (4)
V_{EE} Pin 8 (12)
( ) = FLAT PACK

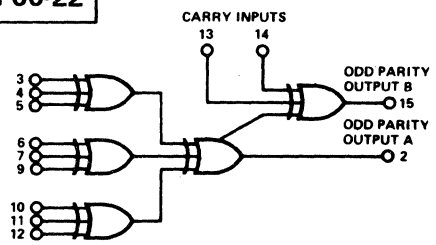
P00-16



P00-19

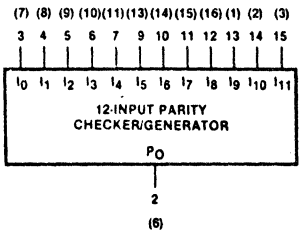


P00-22



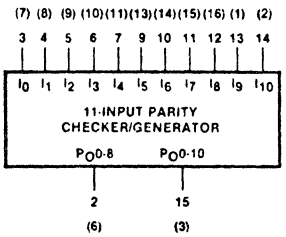
V_{CC1} = 1, V_{CC2} = 16, V_{EE} = 8

P00-23



V_{CC1} = 1 (5)
V_{CC2} = 16 (4)
V_{EE} = 8 (12)
( ) = Flatpak

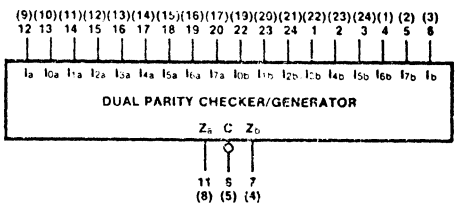
P00-24



V_{CC1} = 1 (5)
V_{CC2} = 16 (4)
V_{EE} = 8 (12)
( ) = Flatpak

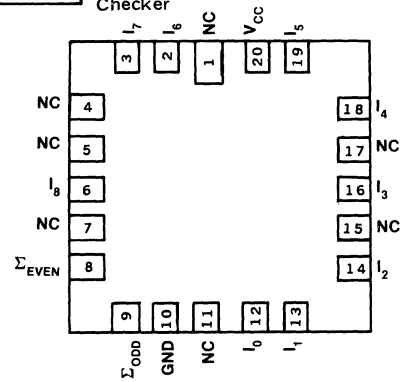
29. CIRCUIT DRAWINGS

P00-25



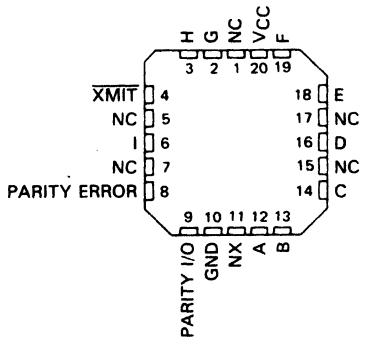
V_{CC} = Pin 9 (6)
V_{CCA} = Pin 10 (7)
V_{EE} = Pin 21 (18)
( ) = DIP

P00-30 9-Bit Odd/Even Parity Generator/Checker



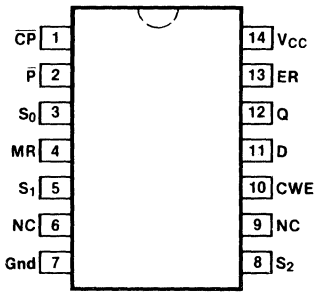
NC—No internal connection

P00-32 9-Bit Parity Generator/Checker with Bus Driver Parity I/O Part

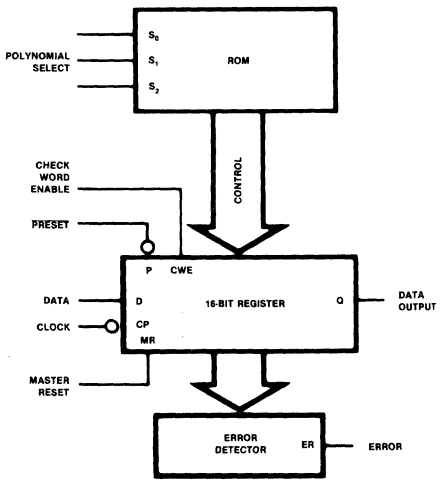


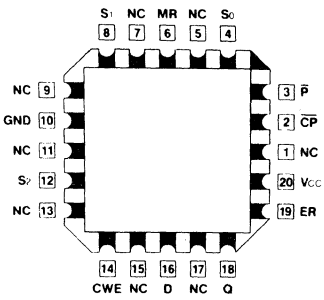
NC—No Internal Connection

P00-33 CRC Generator/Checker



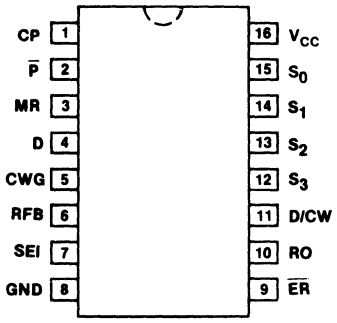
P00-33a



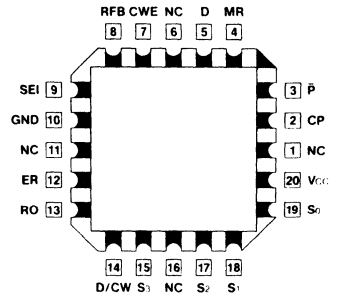


P00-33b

P00-34 Serial Data Polynomial Generator/Checker

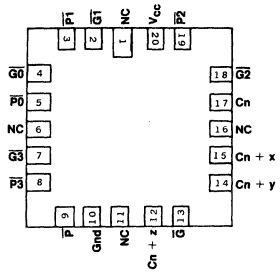


P00-34a

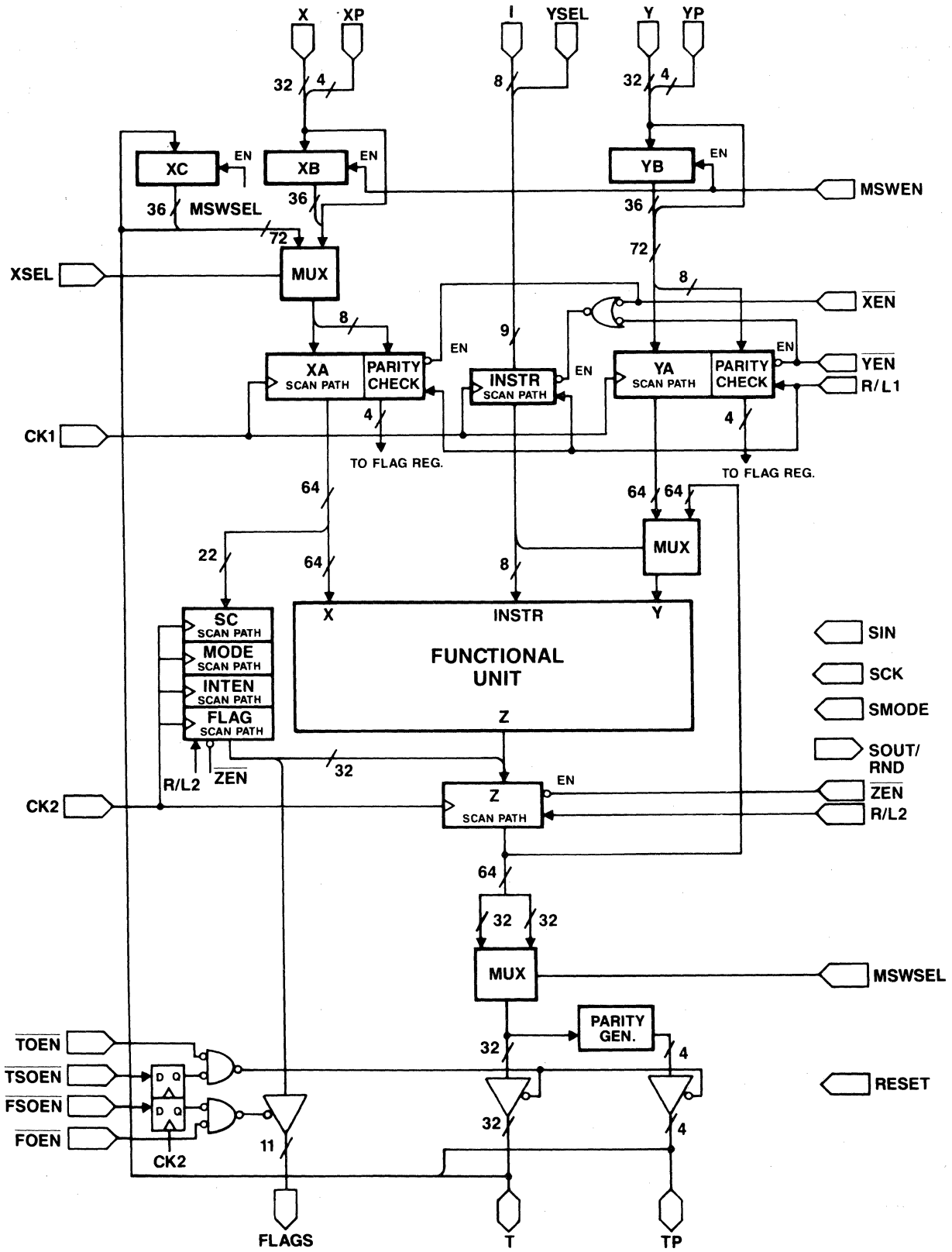


P00-34b

S00-15 Look-Ahead Carry Generator

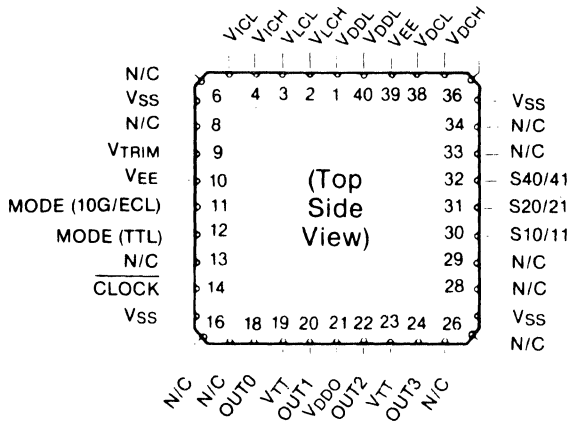


X00-32 32-Bit Floating Point Multiplier



29. CIRCUIT DRAWINGS

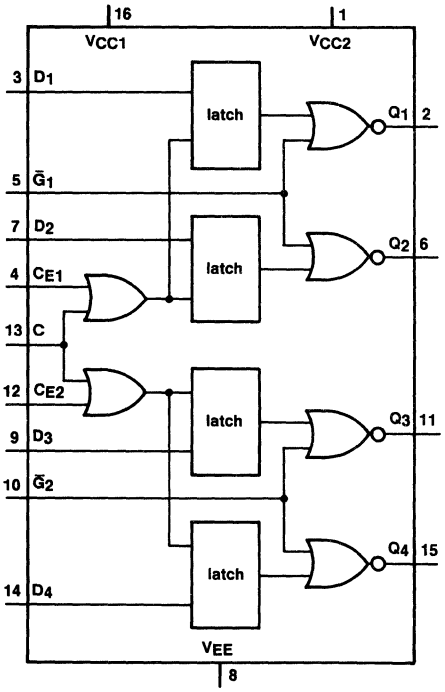
K06-166 Variable Modulus Prescaler



N/C = No Connection

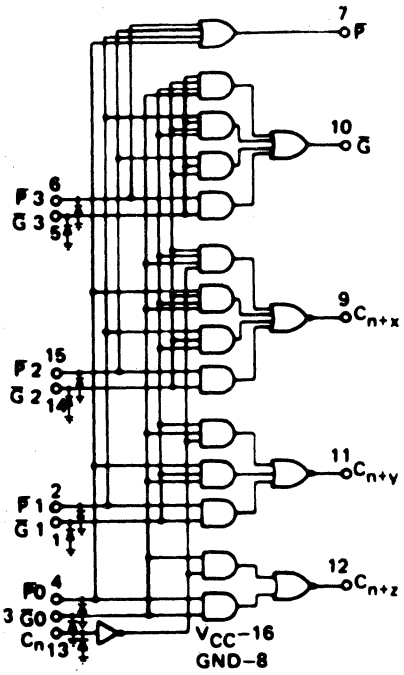
NOTES: Pin 1 is marked for orientation. The package lid, bottom heat vias and 4 N/C corner pins (6, 16, 26, 36) are at V_{SS} potential.

L00-37z Quadruple D-Type Latch

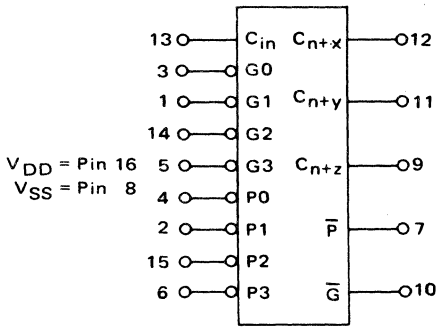


29. CIRCUIT DRAWINGS

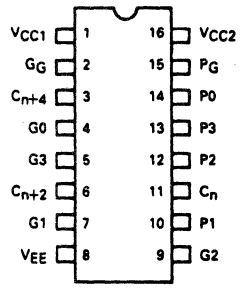
S00-2



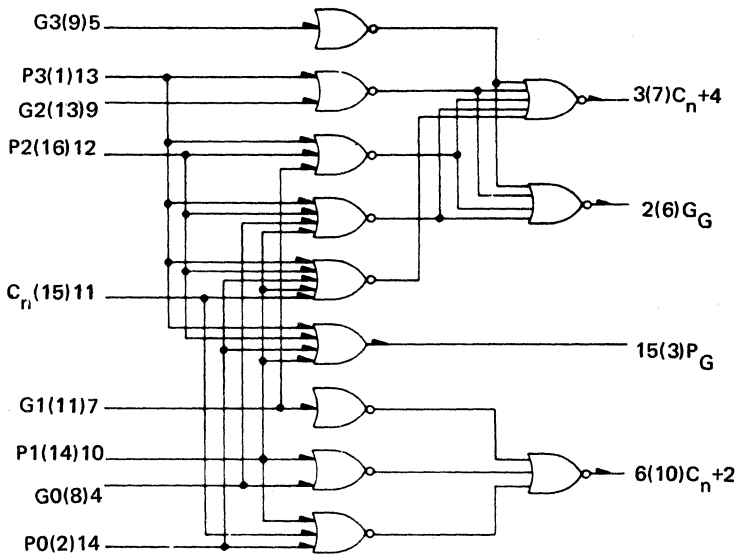
S00-3



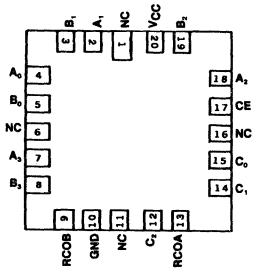
S00-7 Look-Ahead Carry Block



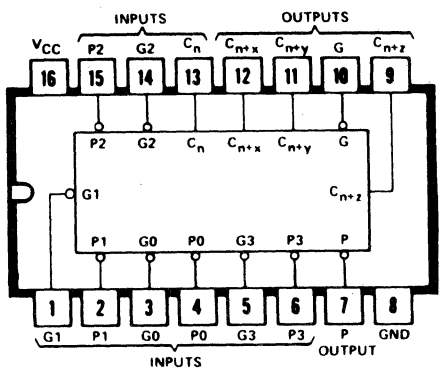
S00-4 Look-Ahead Carry Block



S00-2a Look-Ahead Carry Generators for Counters

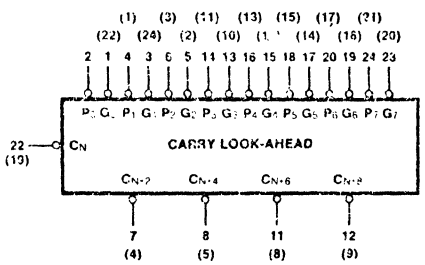


S00-9 2-Bit Arithmetic Logic Unit/ Function Generator



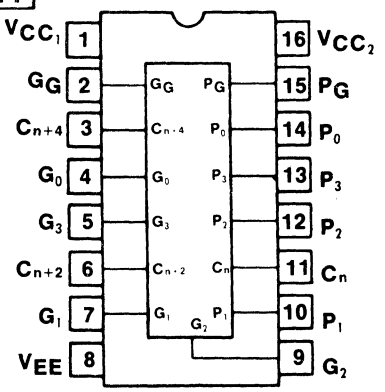
29. CIRCUIT DRAWINGS

S00-10

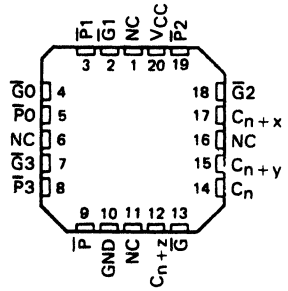


V_{CC} = Pin 9 (6)
V_{CCA} = Pin 10 (7)
V_{EE} = Pin 21 (18)
( ) = DIP

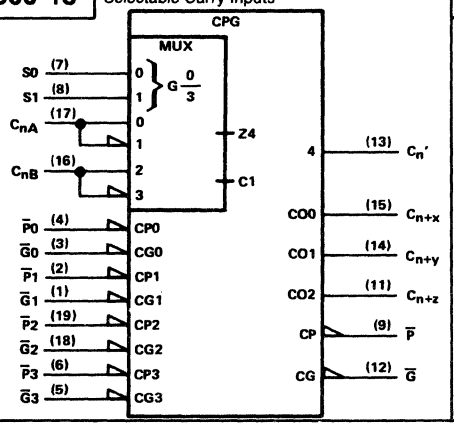
S00-11



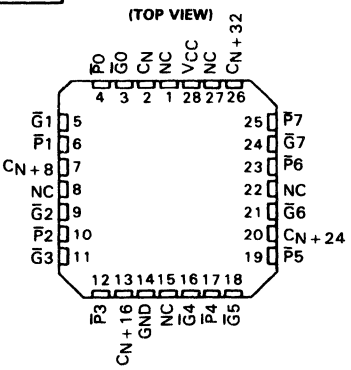
S00-12 Look-Ahead Carry Generator



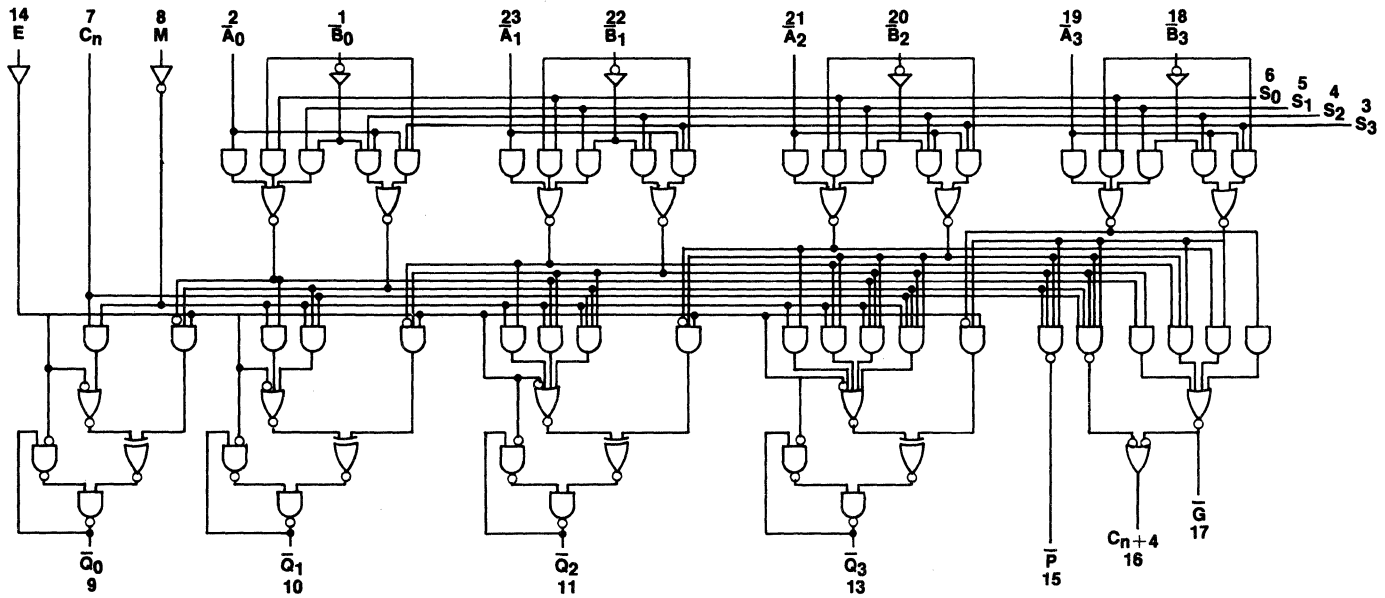
S00-13 Look-Ahead Carry Generator with Selectable Carry Inputs



S00-14 32-Bit Look-Ahead Carry Generator

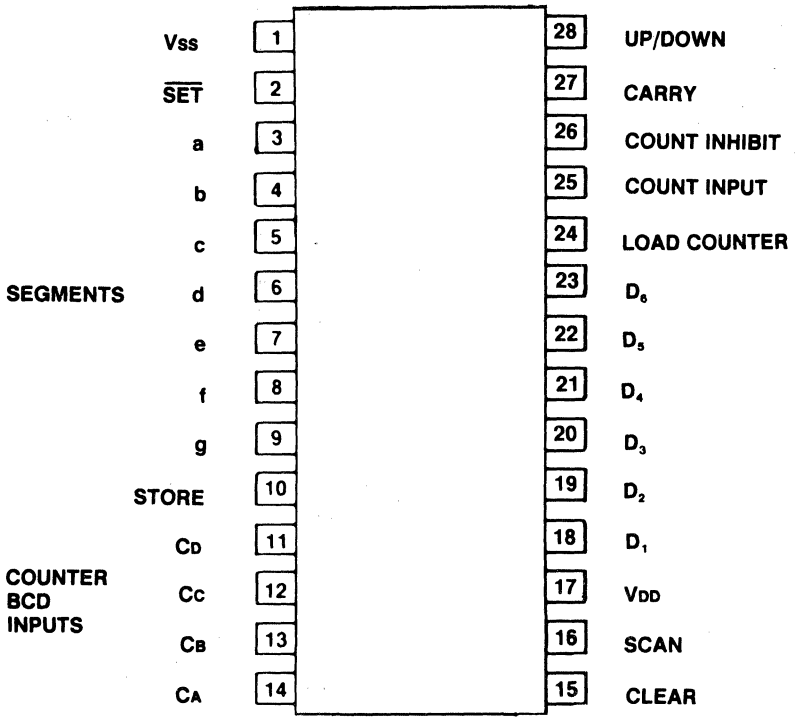


U00-16 4-Bit ALU/Function Generator w/Output Latch

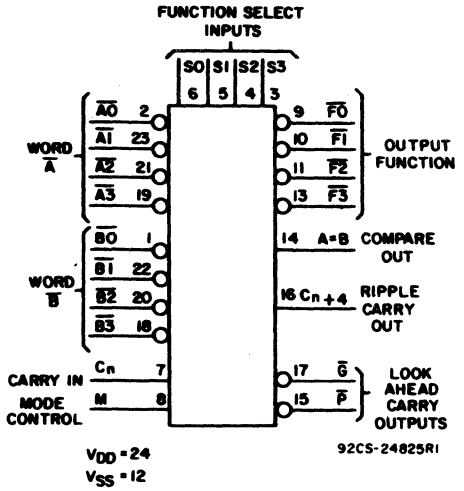


29. CIRCUIT DRAWINGS

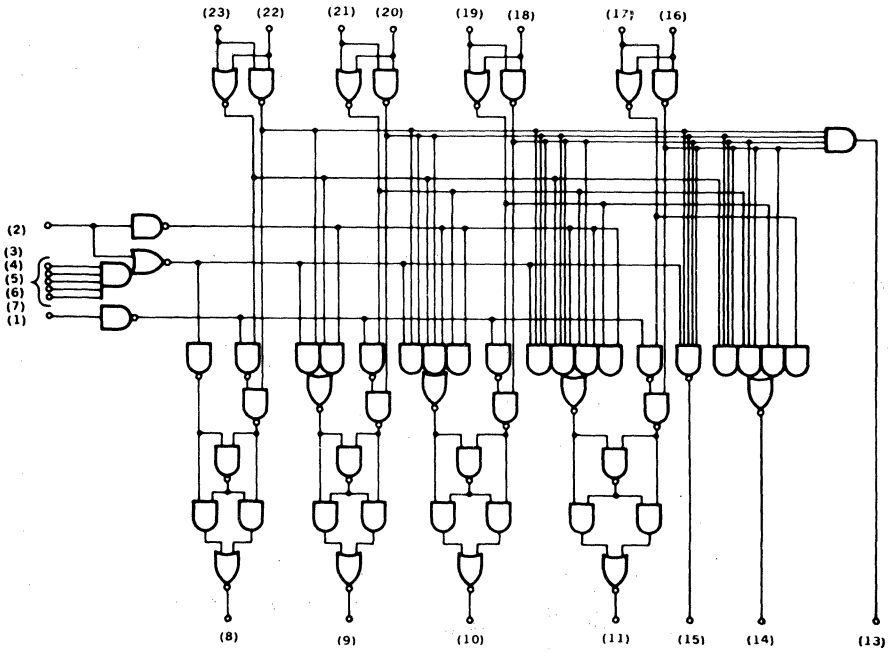
E04-03 6-Decade Counter/Display Decoder



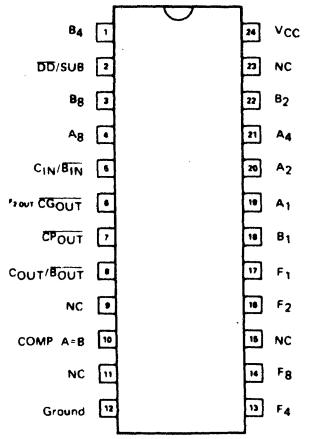
U00-1



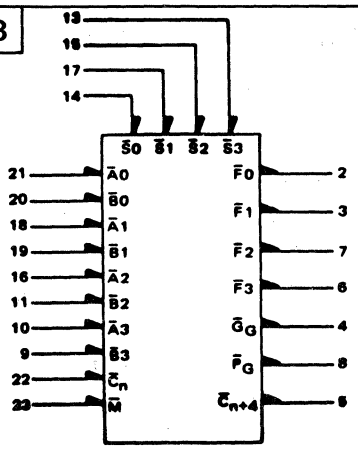
U00-5



U00-7

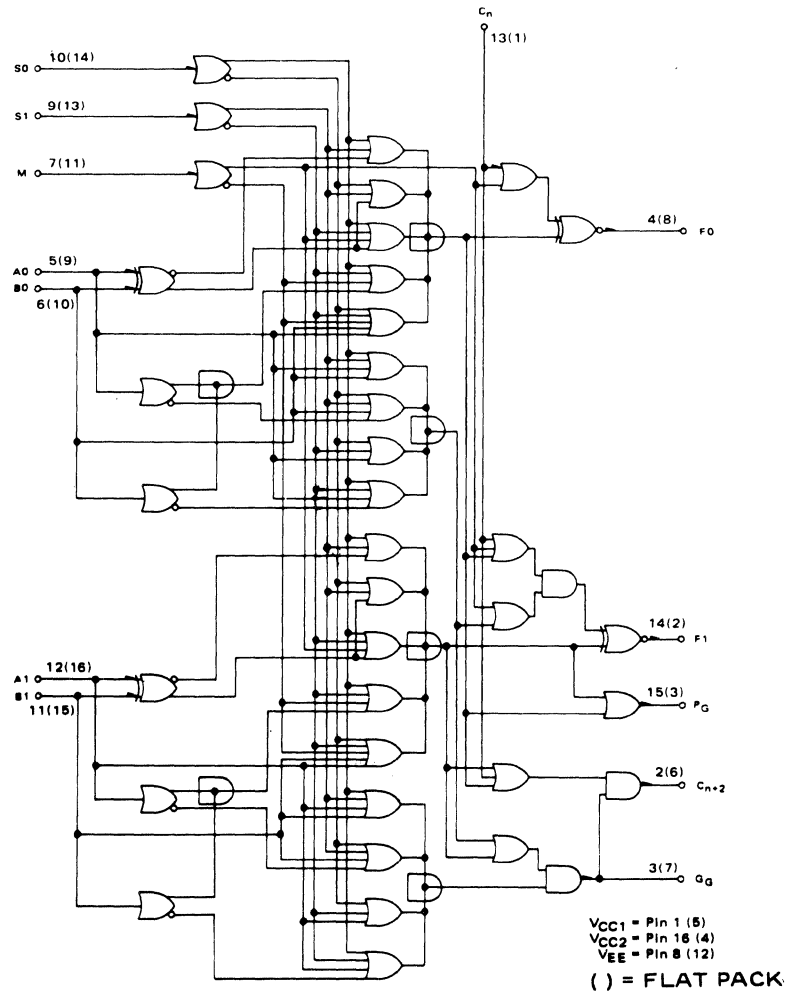


U00-8

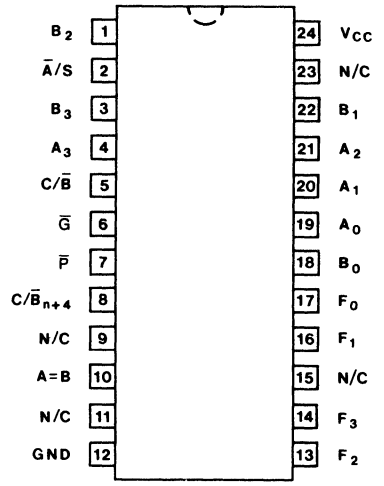


29. CIRCUIT DRAWINGS

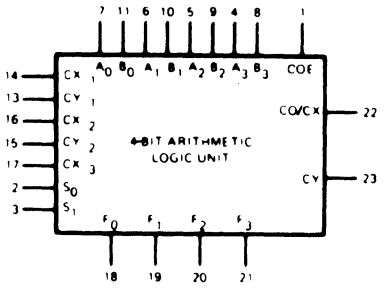
U00-9 2-Bit Arithmetic Logic Unit/Function Generator



U00-37 4-Bit BCD Arithmetic Logic Unit

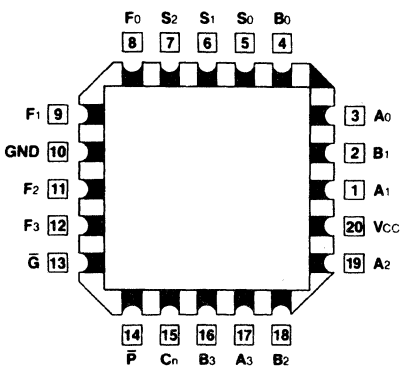


U00-13

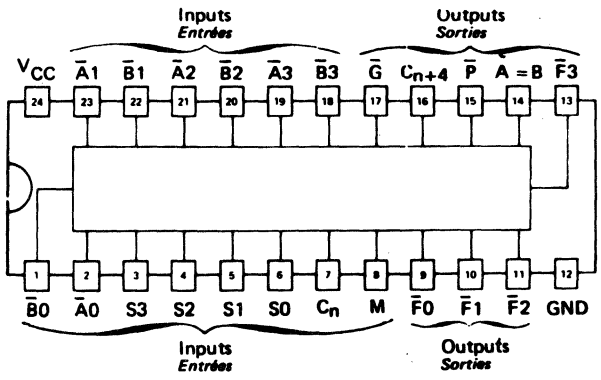


V_{CC} = PIN 24
GND = PIN 12

U00-35 4-Bit Arithmetic Logic Unit

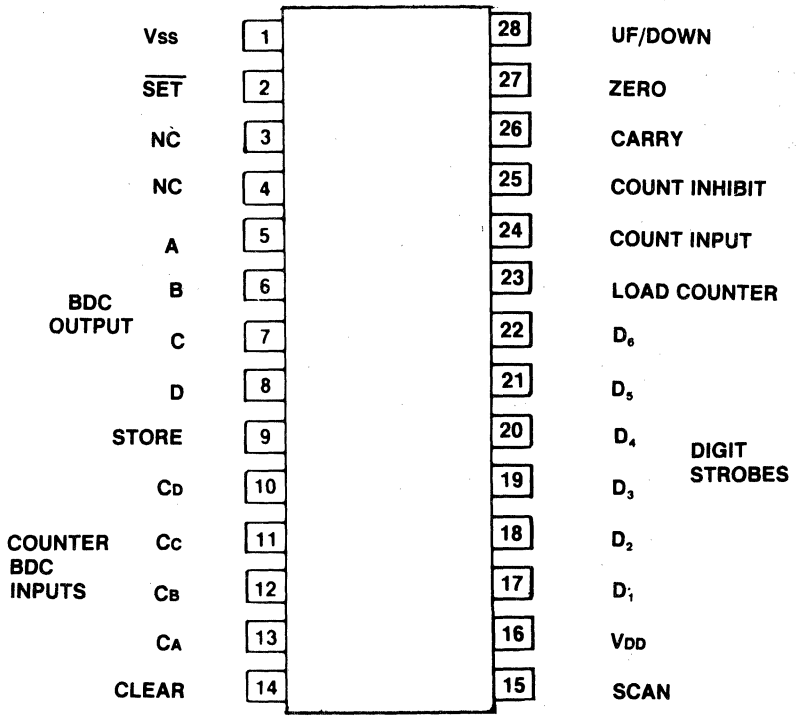


U00-2

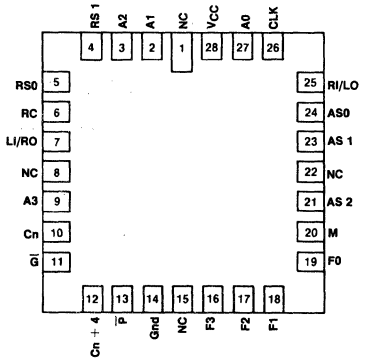


29. CIRCUIT DRAWINGS

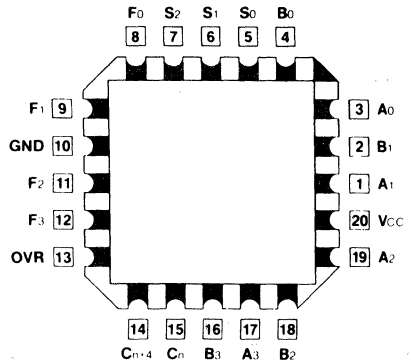
E03-113 Six Decade Counter/Display Decoder



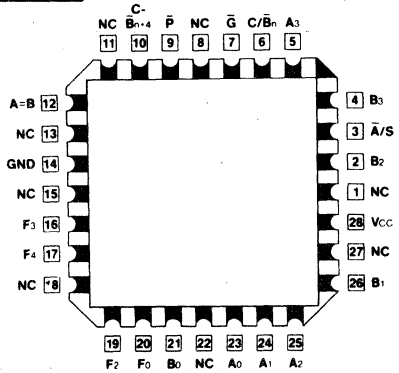
U00-39 4-Bit Binary Accumulator



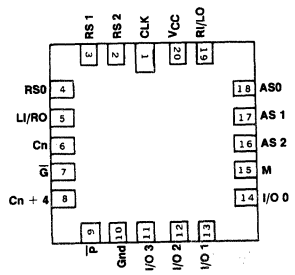
U00-36 4-Bit Arithmetic Logic Unit



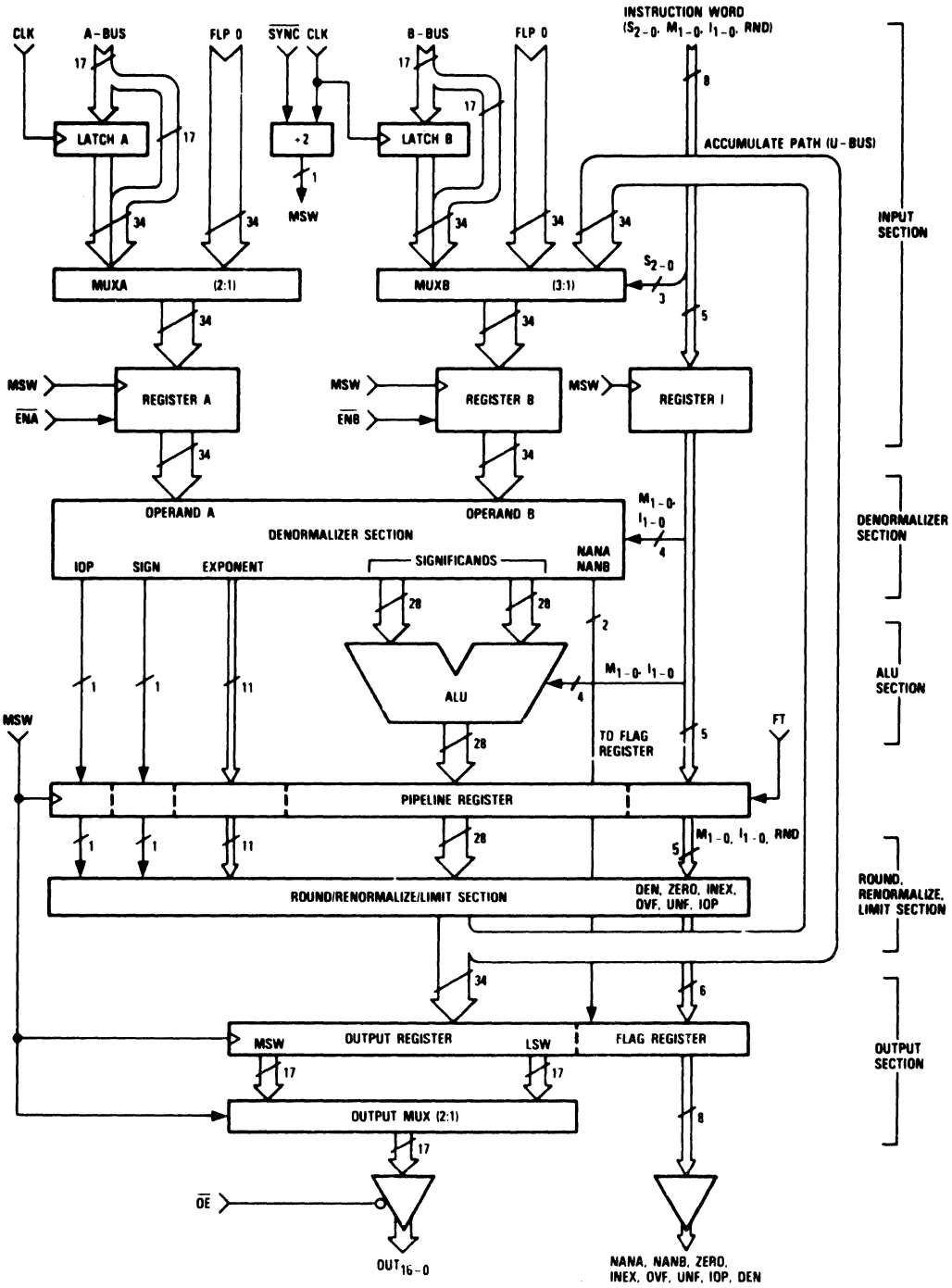
U00-38 4-Bit BCD Arithmetic Logic Unit



U00-40 4-Bit Parallel Binary Accumulator

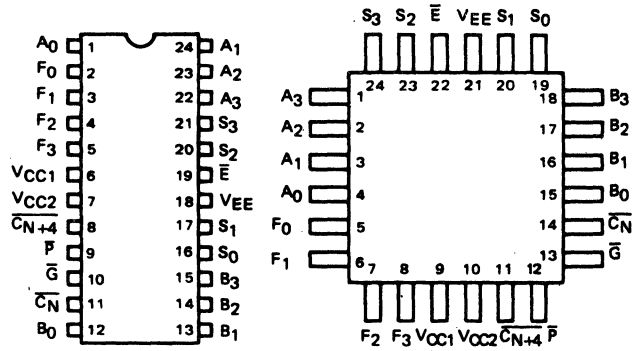


U00-41 Floating Point Arithmetic Unit 32/34 bit

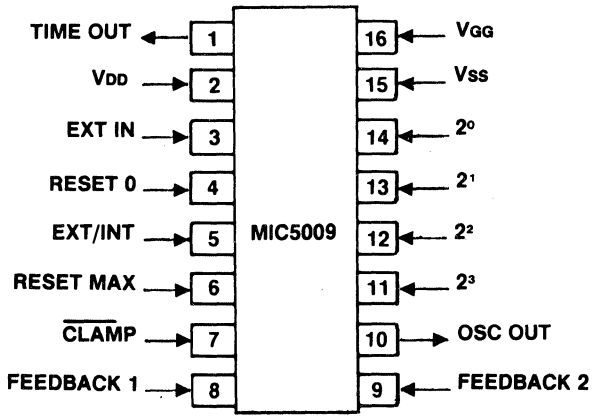


29. CIRCUIT DRAWINGS

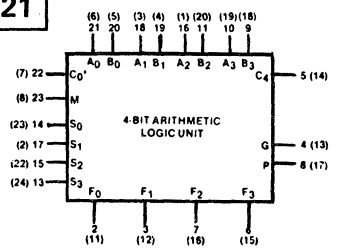
U00-26



C04-65 Counter Time-Base Circuit



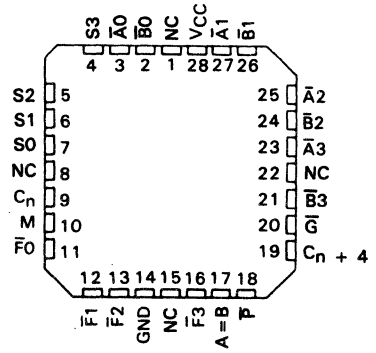
U00-21



V_{CC1} = Pin 1 (10)
V_{CC2} = Pin 24 (9)
V_{EE} = Pin 12 (21)
( ) = Flatpak

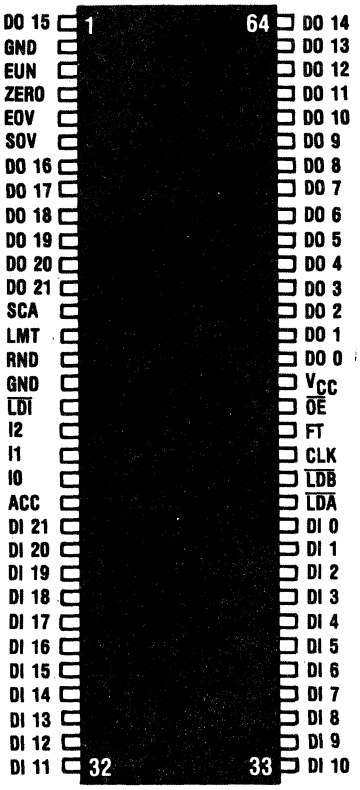
U00-34 Arithmetic Logic Unit/Function Generator

(TOP VIEW)

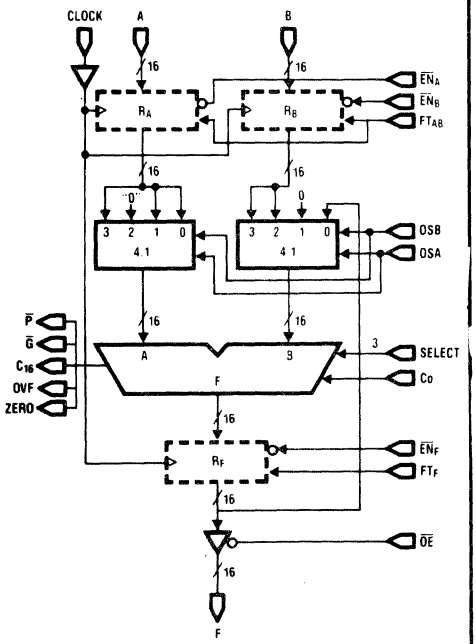


NC – no internal connection

U00-28 Floating Point Arithmetic Unit

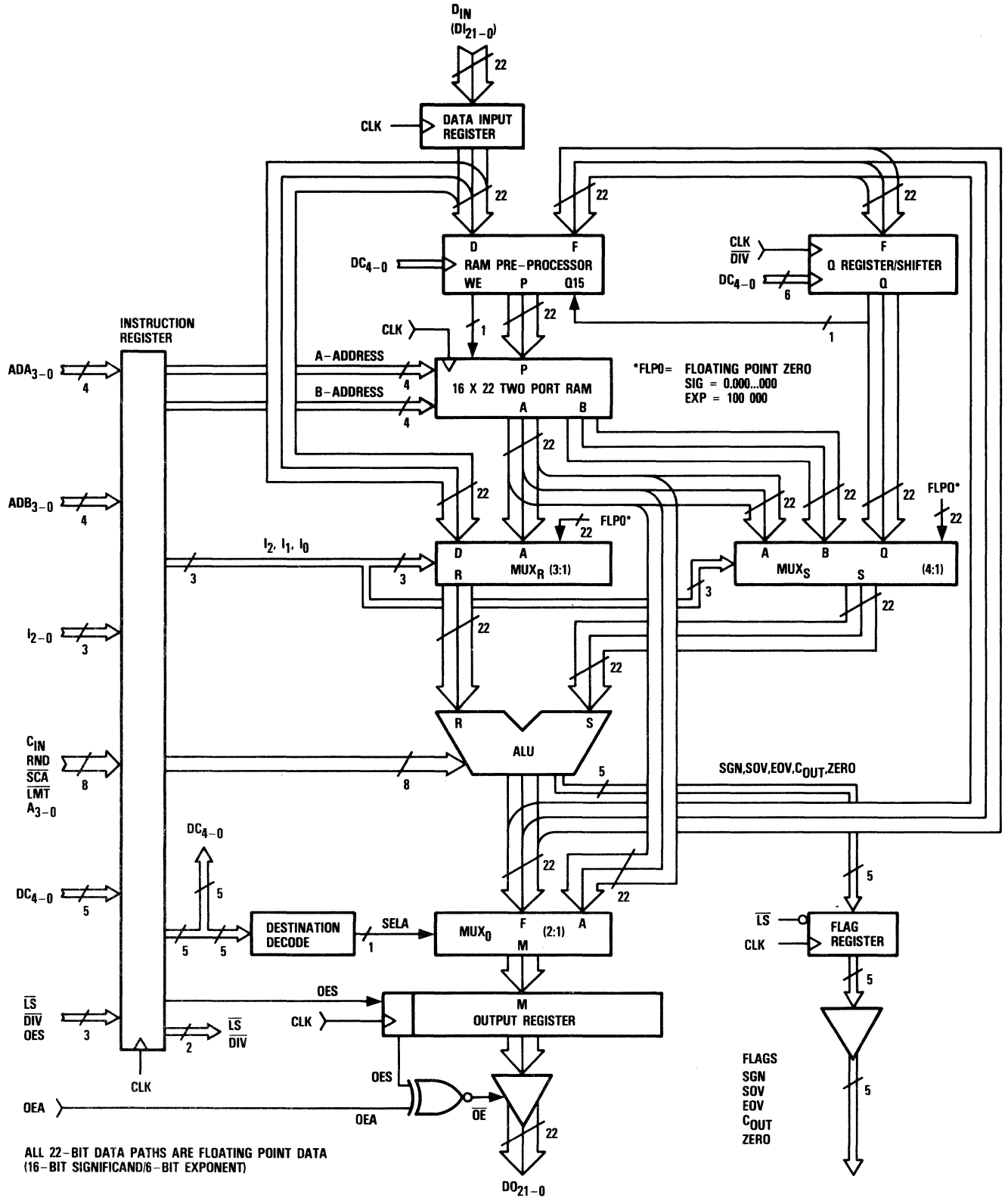


U00-44 16-Bit Cascadable Arithmetic/Logic Unit



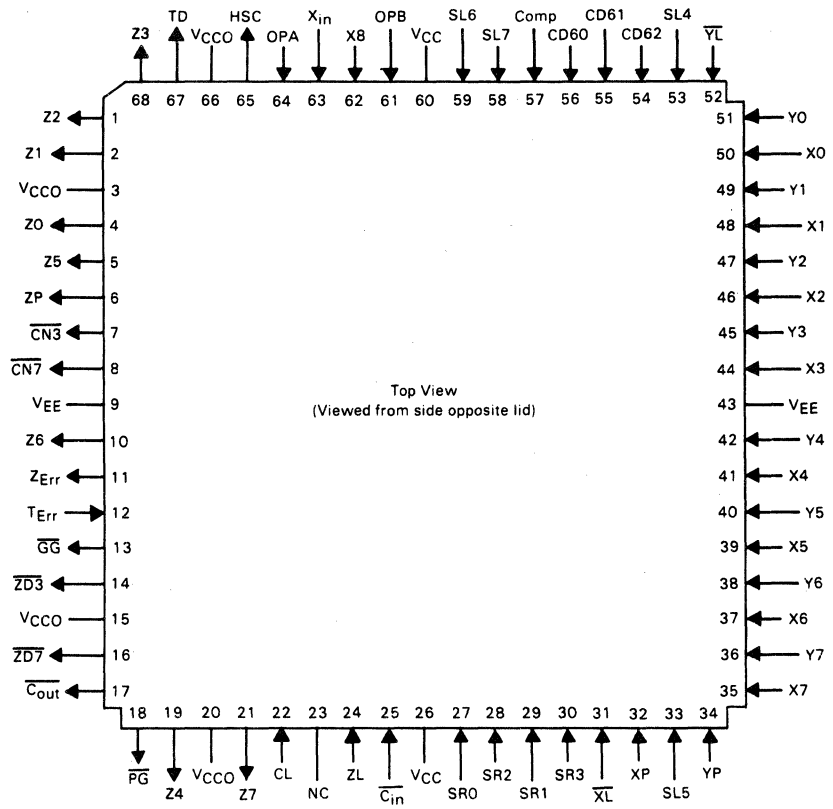
29. CIRCUIT DRAWINGS

U00-31 Floating/Fixed Point Registered Arithmetic Logic Unit

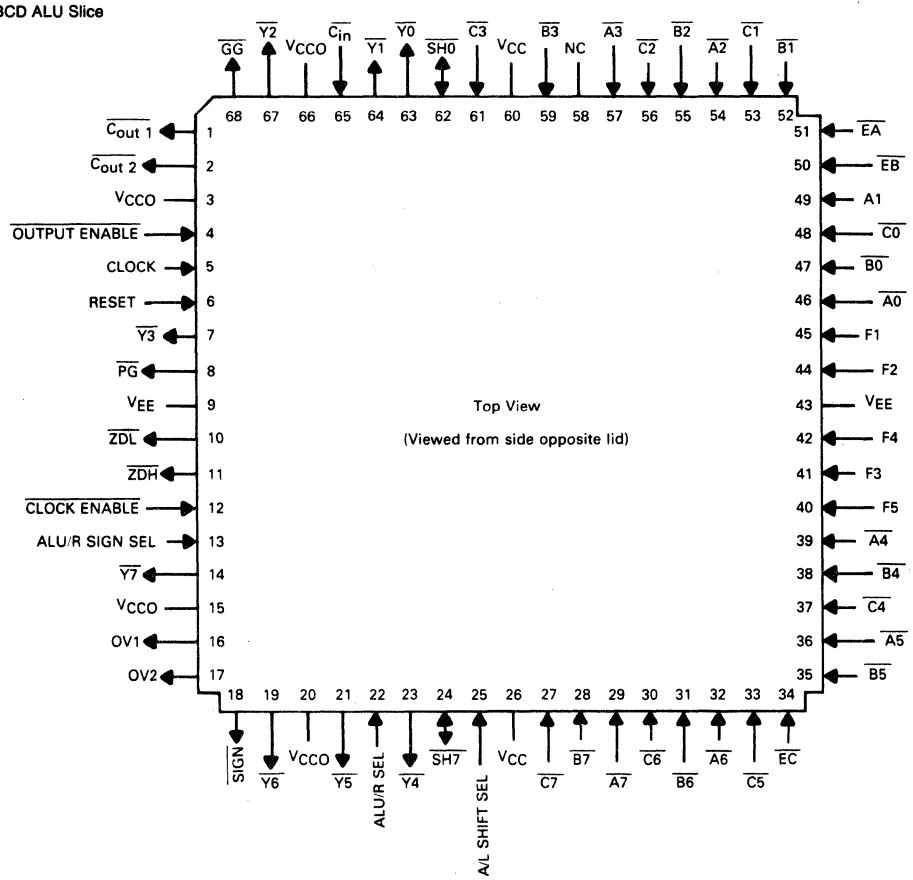


29. CIRCUIT DRAWINGS

U00-32 8-Bit Parity ALU Slice

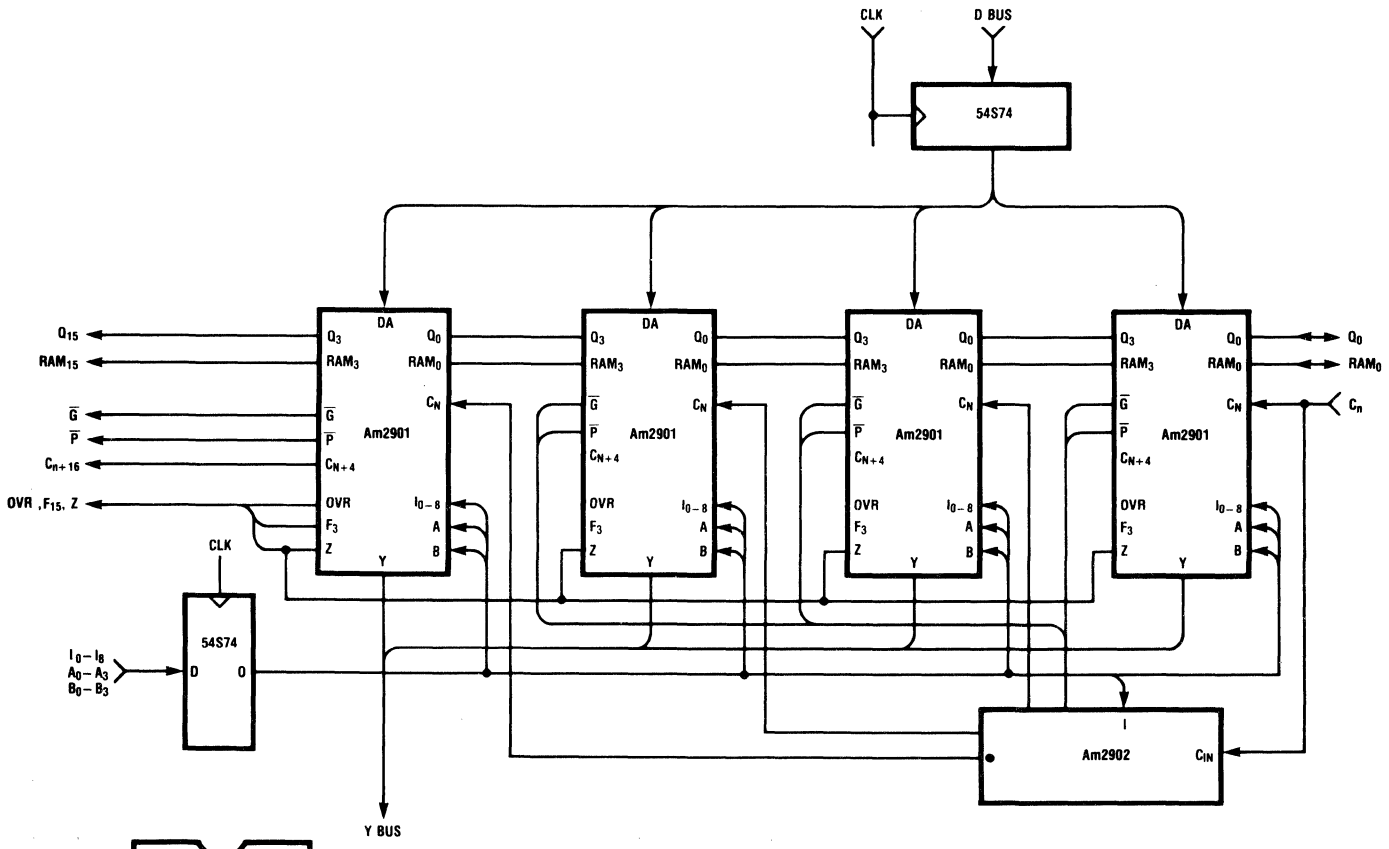


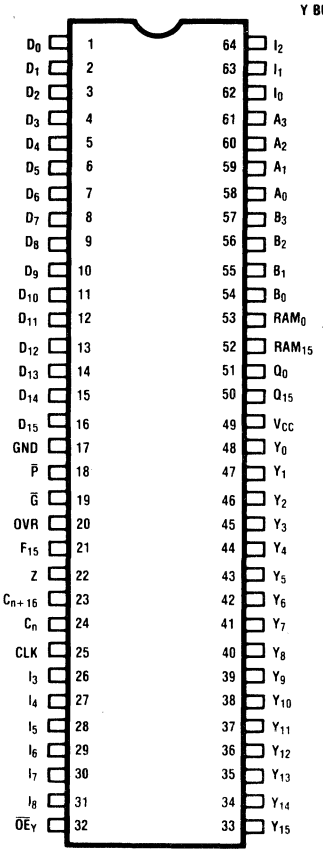
U00-33 8-Bit Binary/BCD ALU Slice



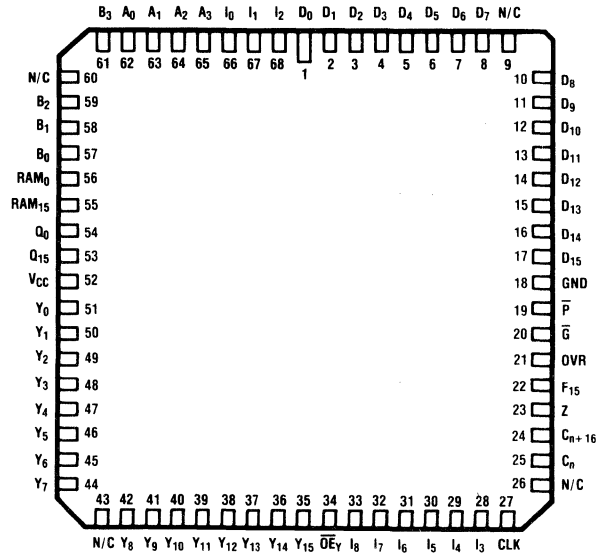
29. CIRCUIT DRAWINGS

U00-45 16-Bit Arithmetic Logic Unit



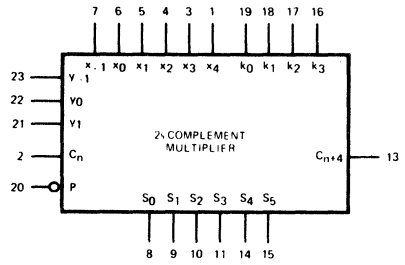


NOTE: PIN 1 IS MARKED FOR IDENTIFICATION.



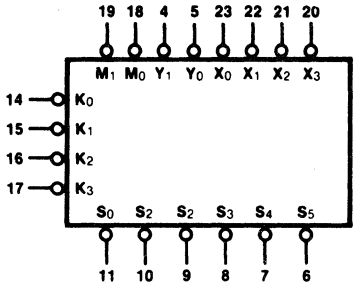
29. CIRCUIT DRAWINGS

X00-1



V_{CC} = Pin 24
GND = Pin 12

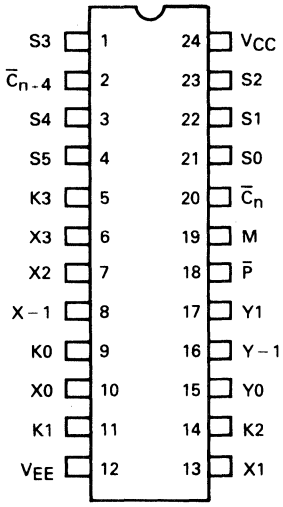
X00-2



V_{CC} = Pin 24
GND = Pin 12
NC = Pin 1, 2, 3, 13

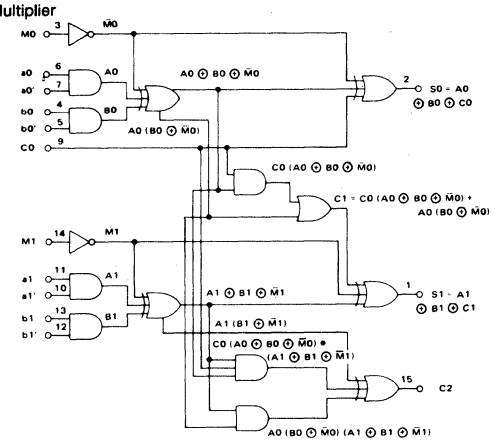
X00-4

4 x 2 Multiplier

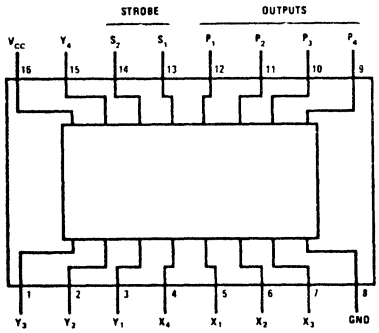


X00-5

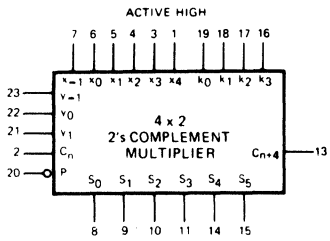
2 x 1 Bit Array Multiplier Block



X00-6

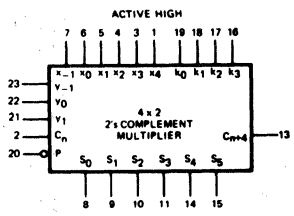


X00-10



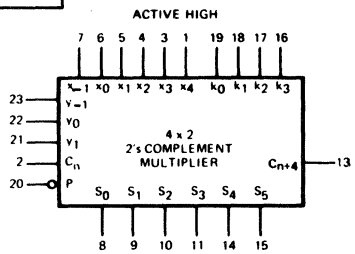
V_{CC} = Pin 24
GND = Pin 12

X00-11

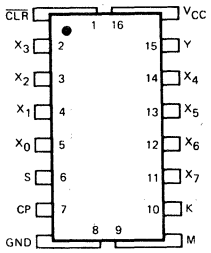


V_{CC} = PIN 24
GND = PIN 12

X00-12

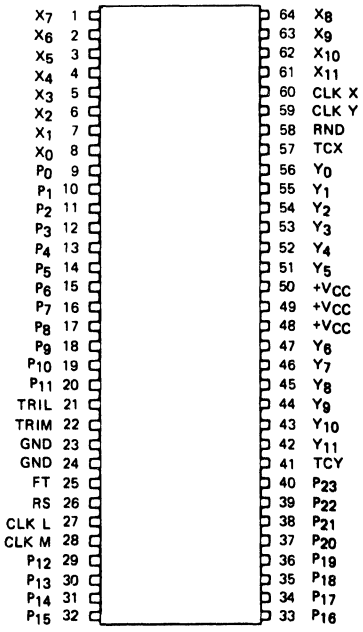


X00-13

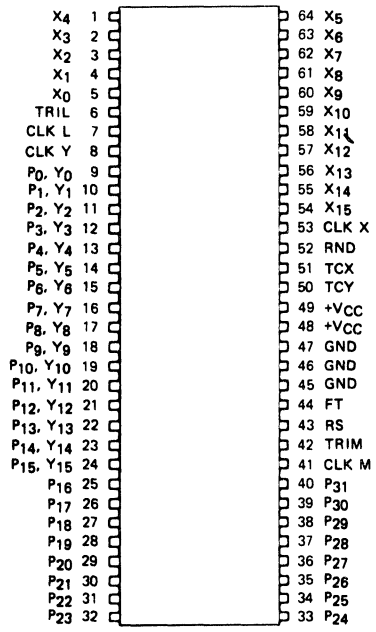


29. CIRCUIT DRAWINGS

X00-17

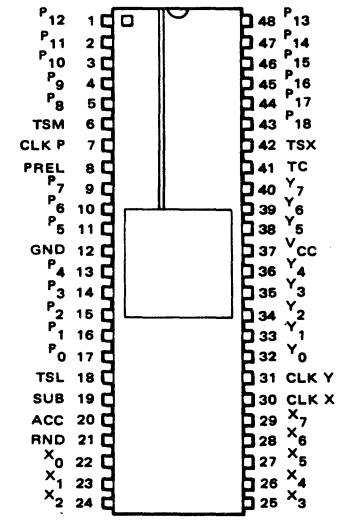


X00-17



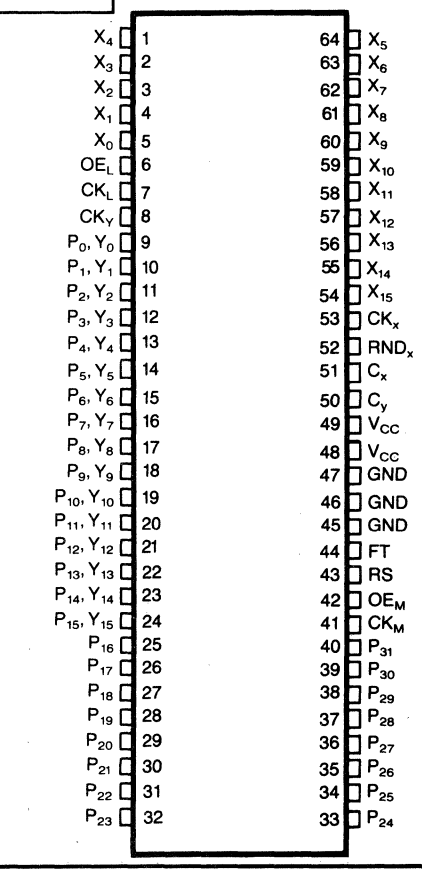
X00-17a

X00-19



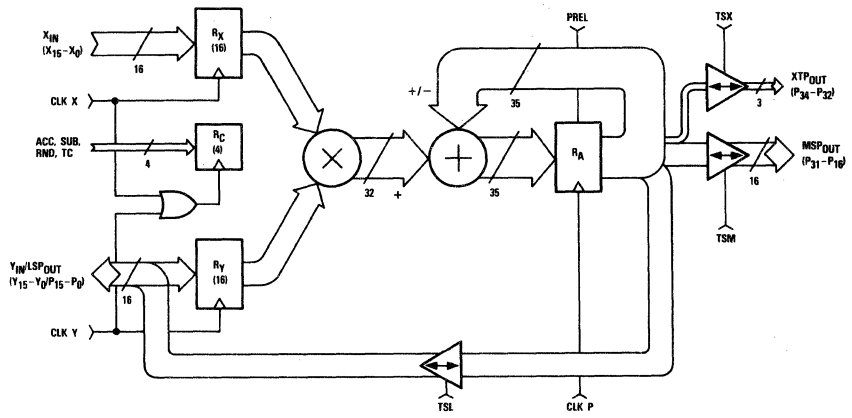
Top View

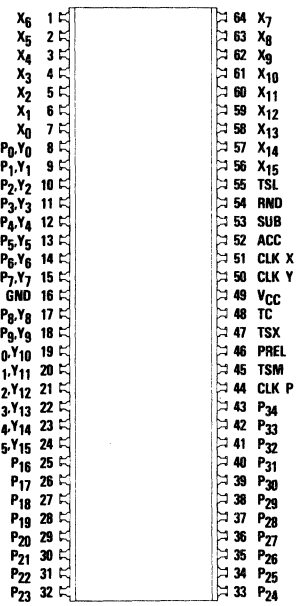
X00-54



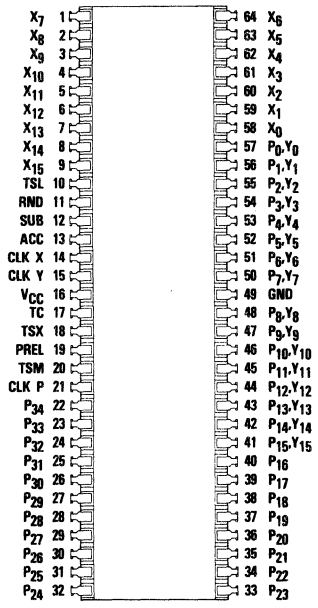
29. CIRCUIT DRAWINGS

X00-21 — 16 x 16 VLSI Multiplier–Accumulator

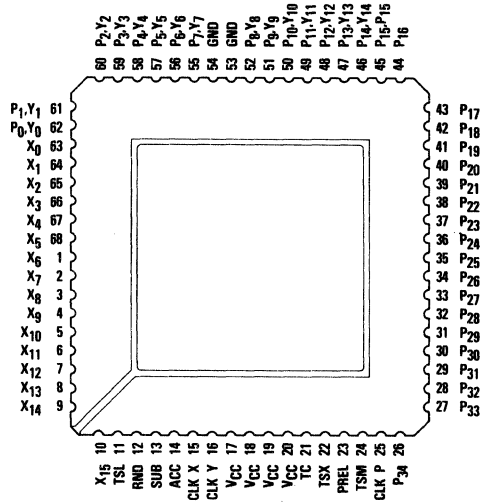




X00-21

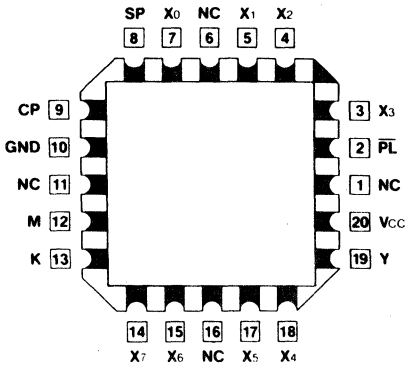


X00-21a

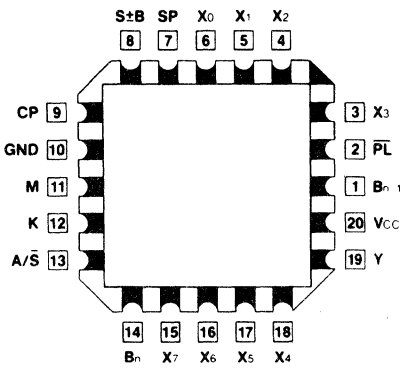


X00-21b

X00-68 — 8-Bit Serial/Parallel Twos Complement Multiplier

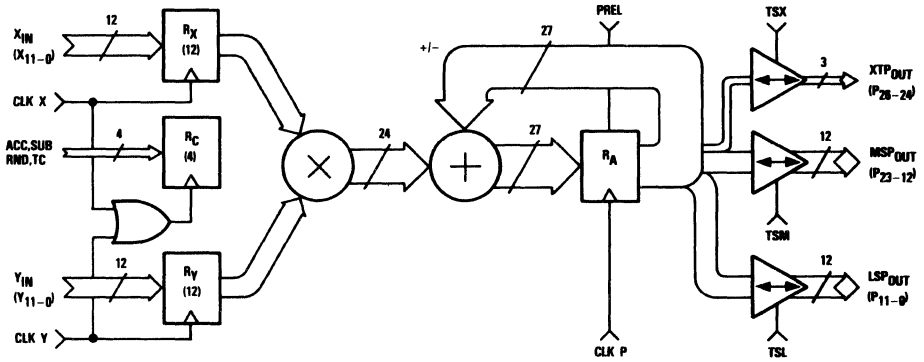


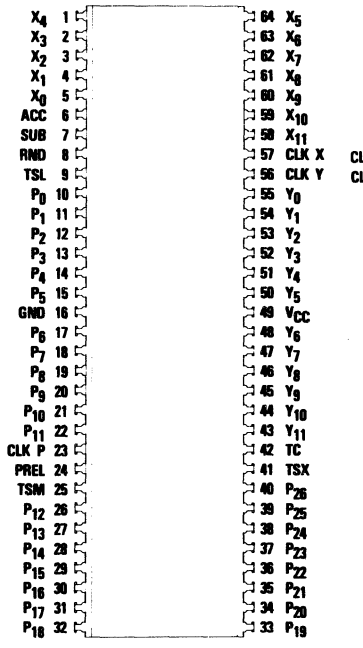
X00-72 — 8-Bit Serial/Parallel Multiplier with Adder/Subtractor



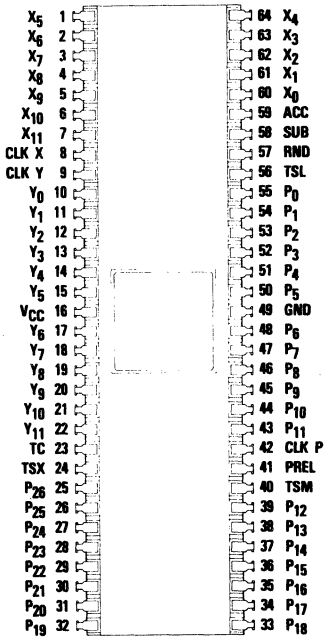
29. CIRCUIT DRAWINGS

X00-23 12 x 12 Bit VLSI Multiplier-Accumulator

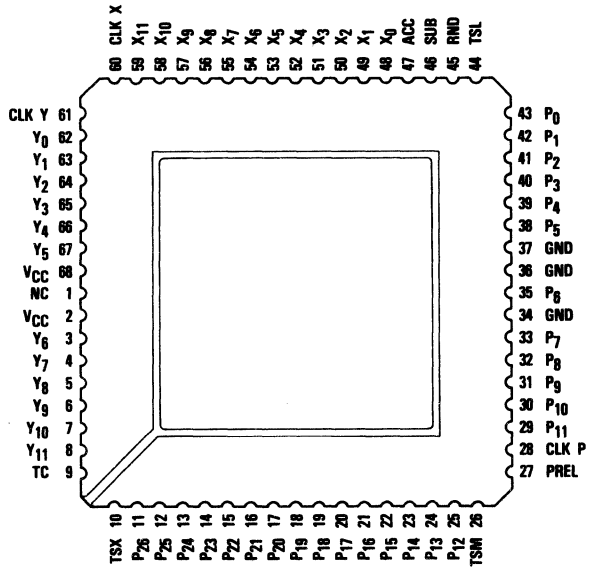




X00-23



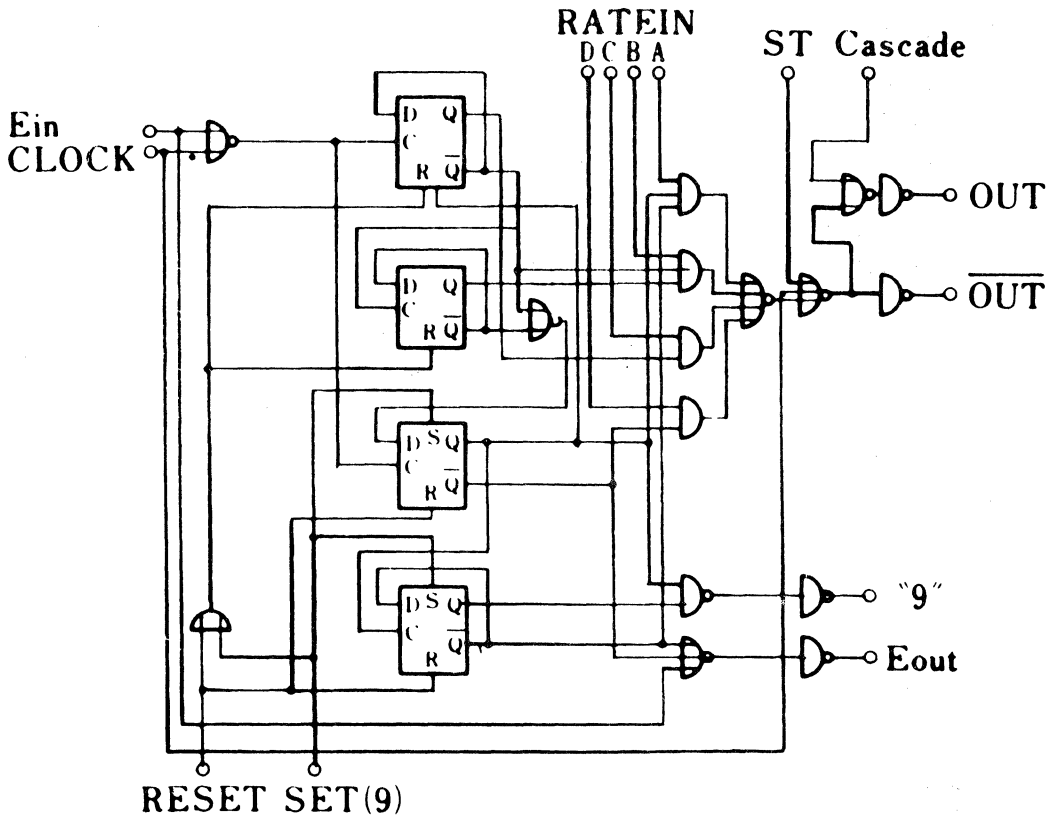
X00-23a



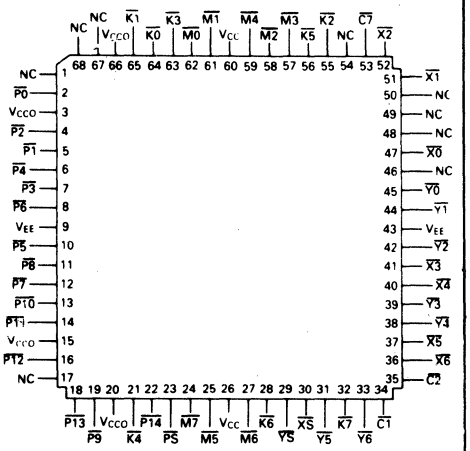
X00-23b

29. CIRCUIT DRAWINGS

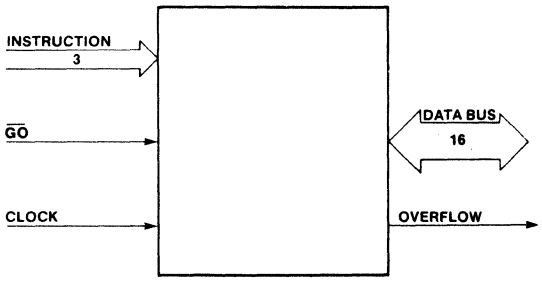
X00-43 BCD Rate Multiplier

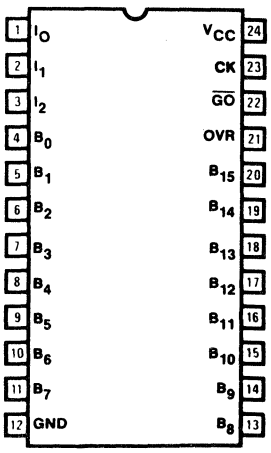


X00-42 8 x 8 Bit Expandable Multiplier



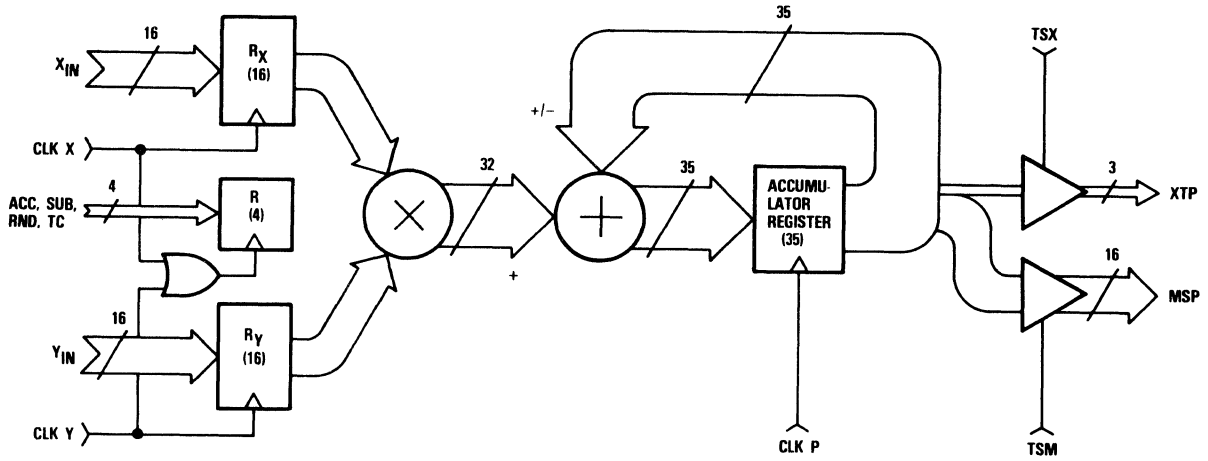
X00-80 16x16 Multiplier/Divider

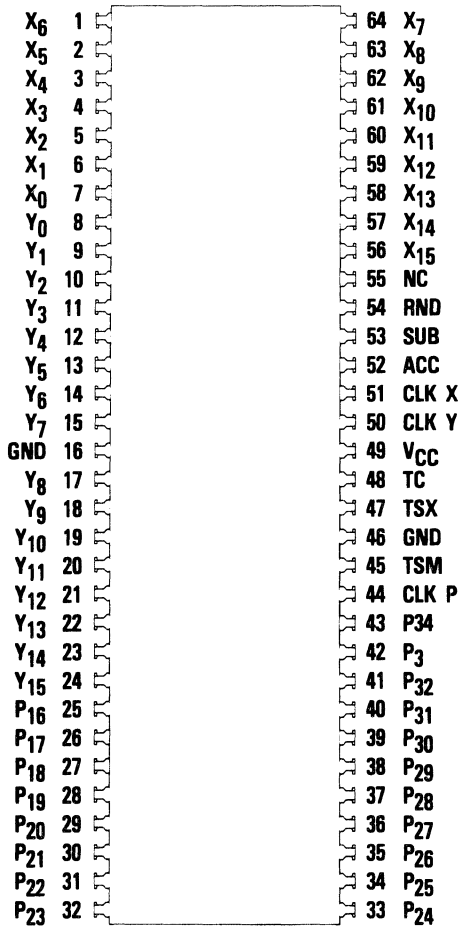




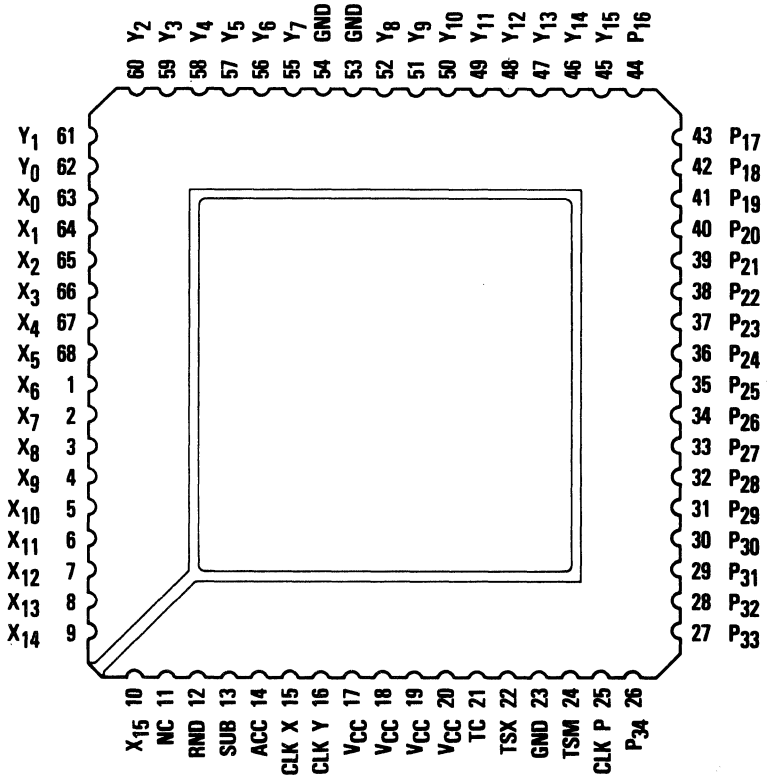
29. CIRCUIT DRAWINGS

X00-48 16 x 16 Bit Multiplier-Accumulator





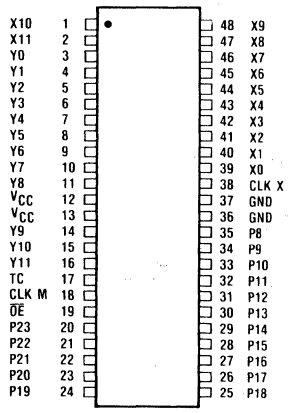
X00-48



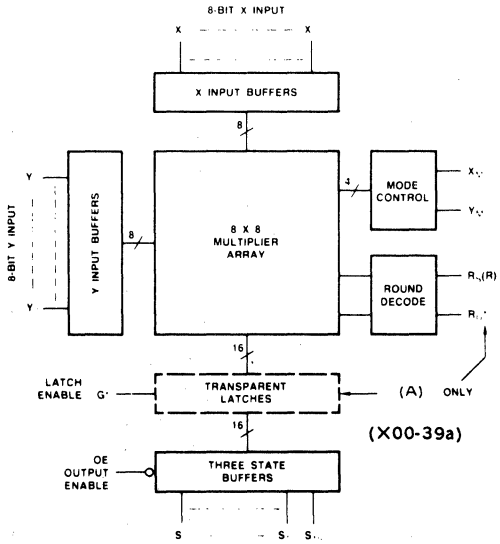
X00-48a

29. CIRCUIT DRAWINGS

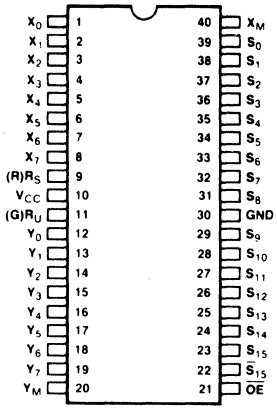
X00-44



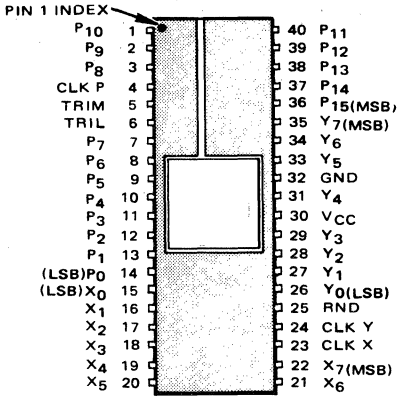
X00-39



(X00-39a)

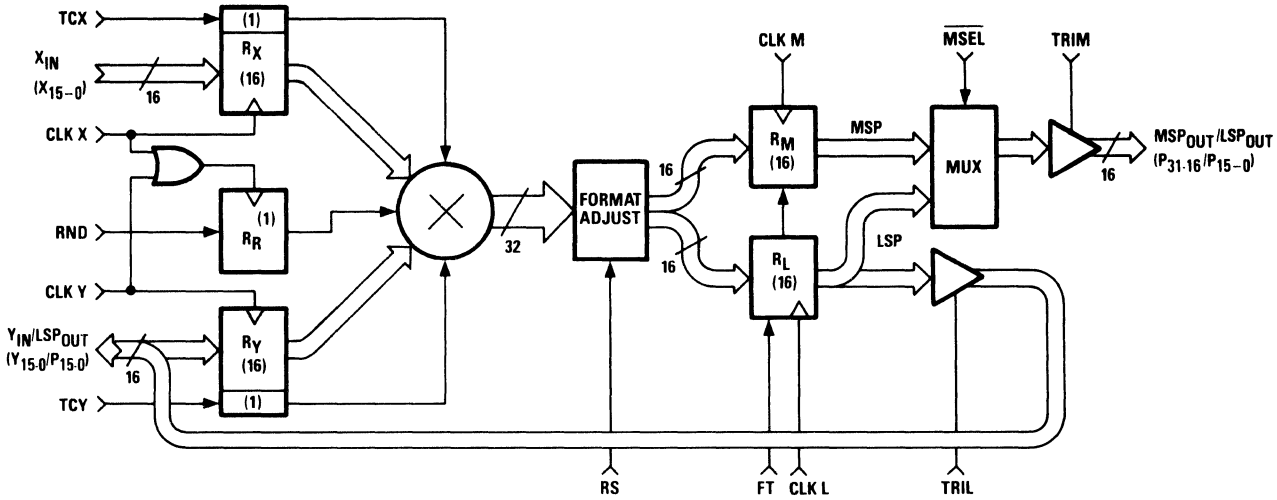


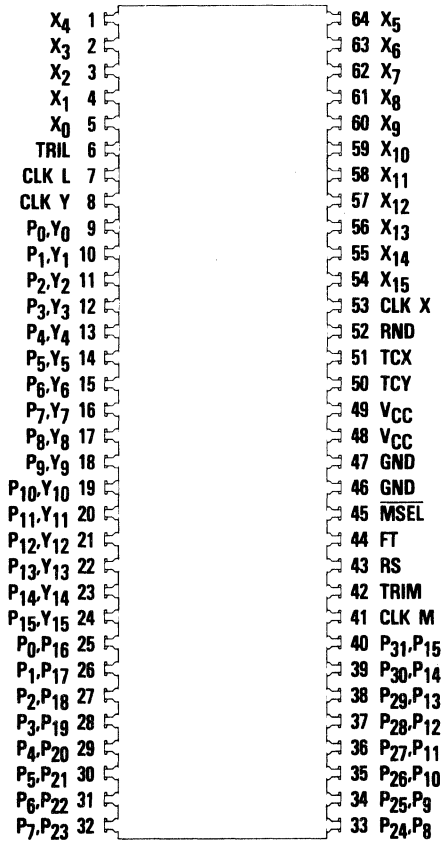
X00-50 LSI Multiplier



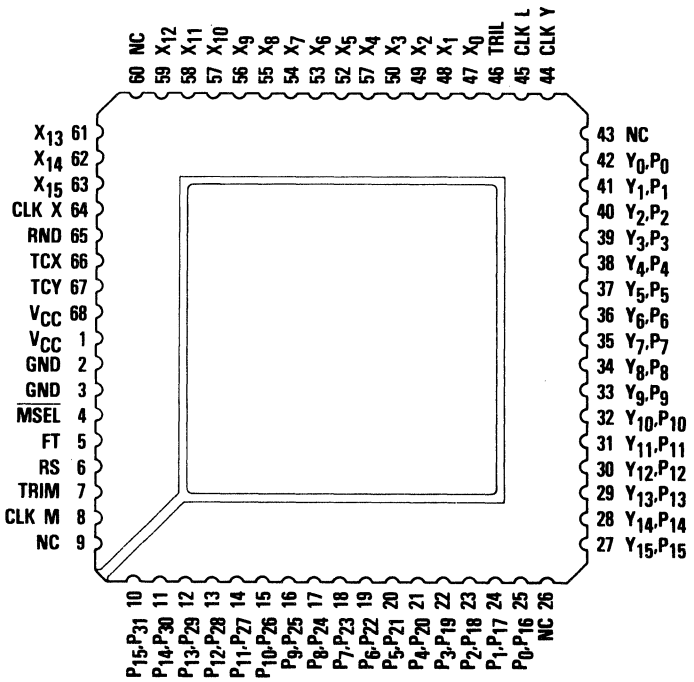
29. CIRCUIT DRAWINGS

X00-49 16 x 16 Bit VLSI Multiplier





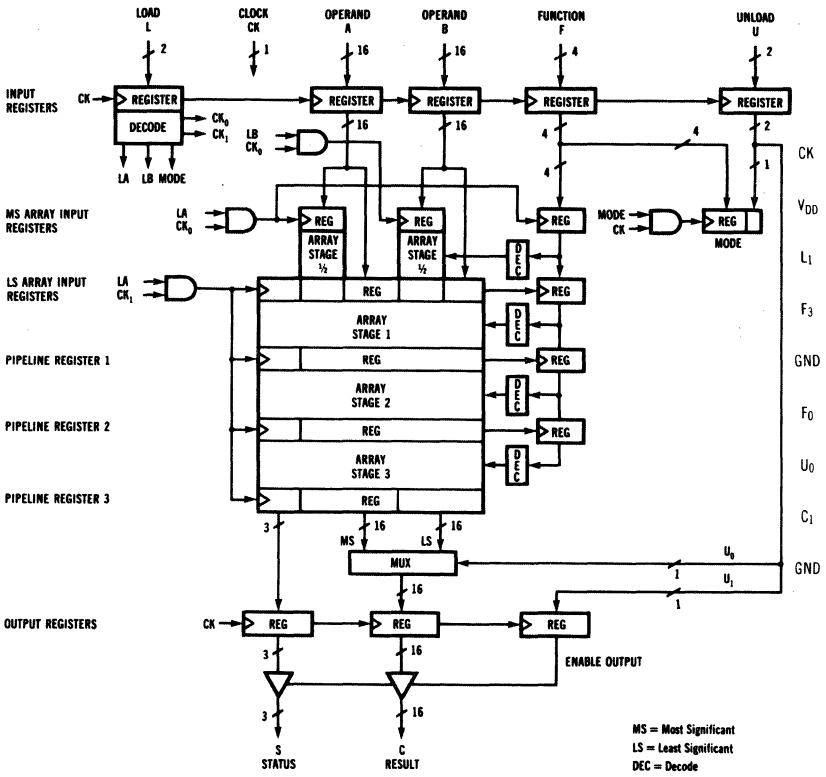
X00-49

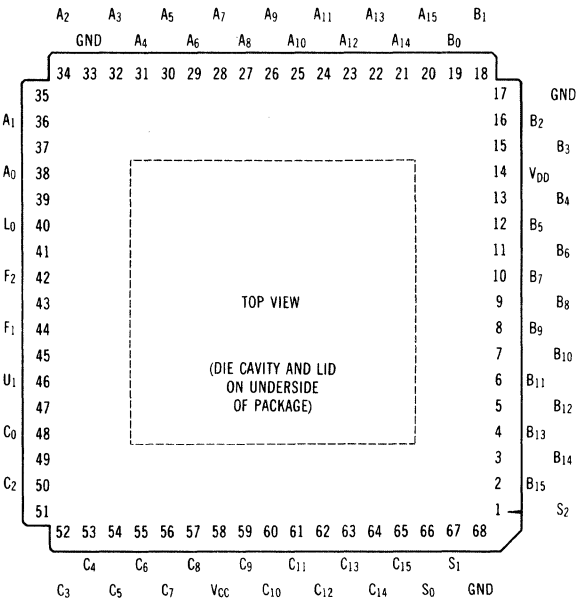


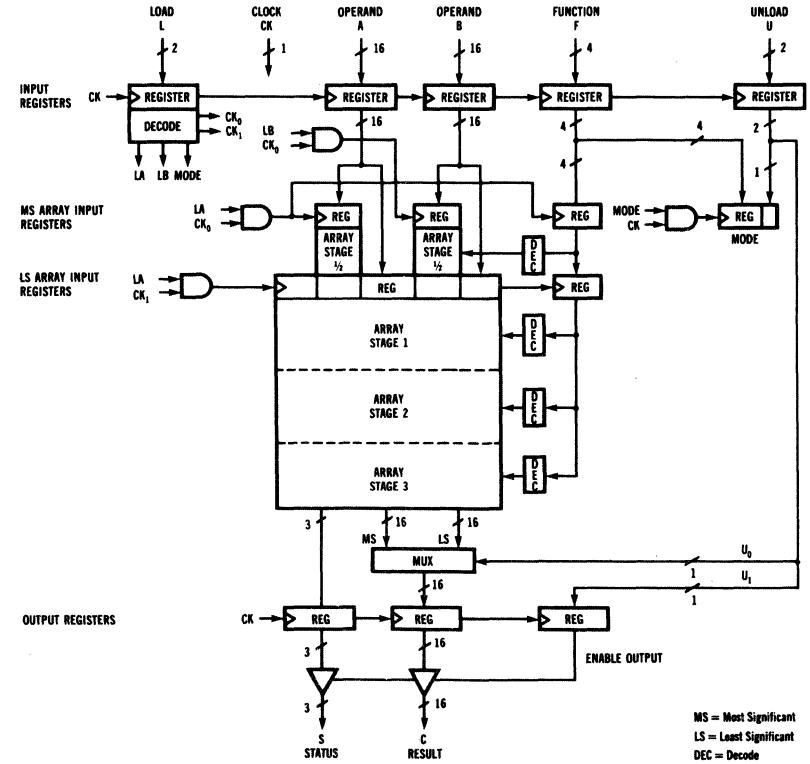
X00-49a

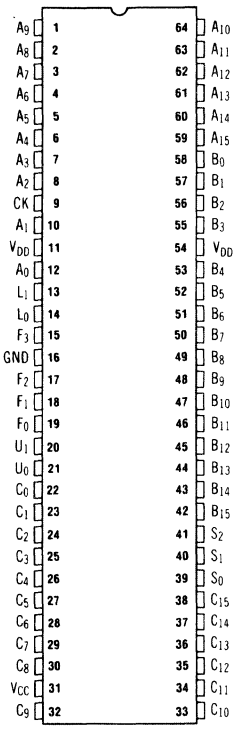
29. CIRCUIT DRAWINGS

X00-51 32-Bit IEEE Floating Point Multiplier/ALU



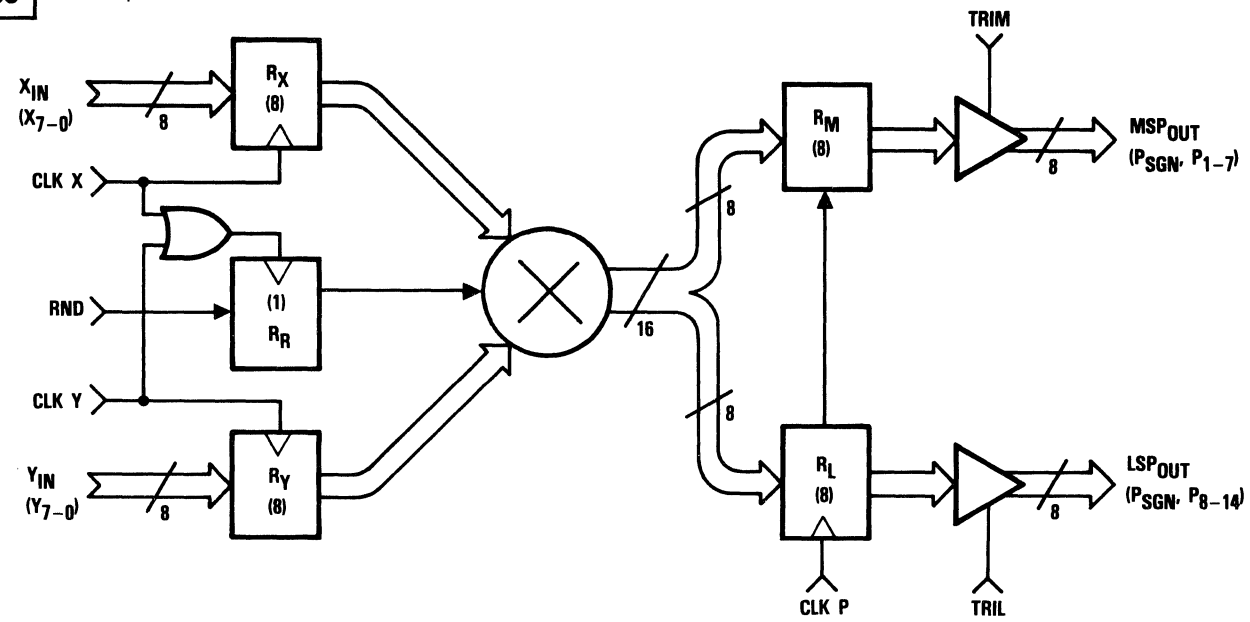


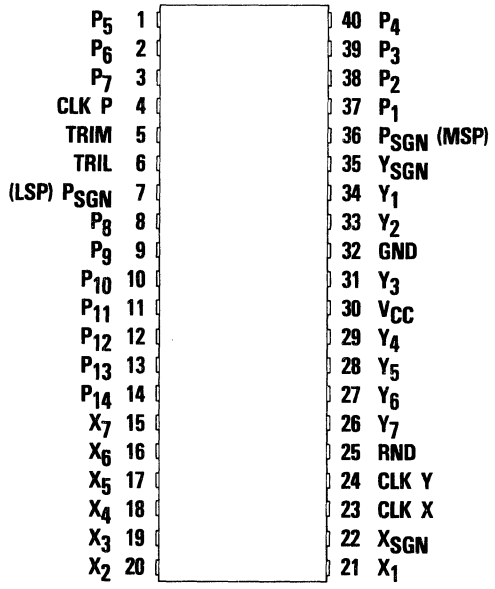


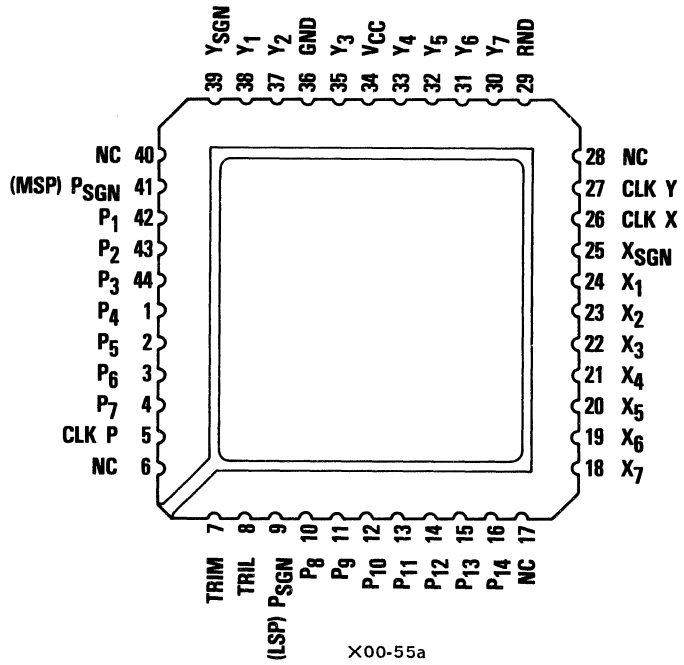


29. CIRCUIT DRAWINGS

X00-55 8 x 8 Multiplier

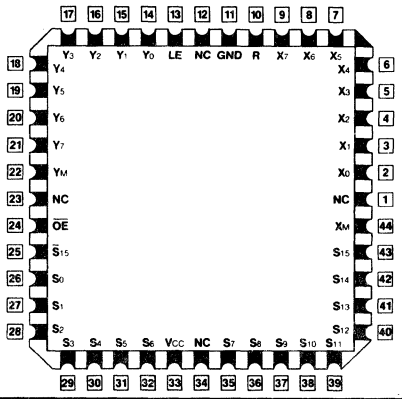




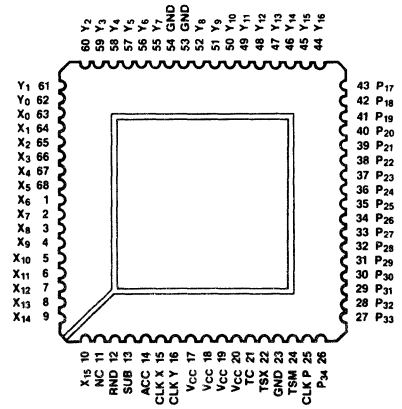


X00-55a

X00-71 8-Bit By 8-Bit Multipliers with 3-State Outputs

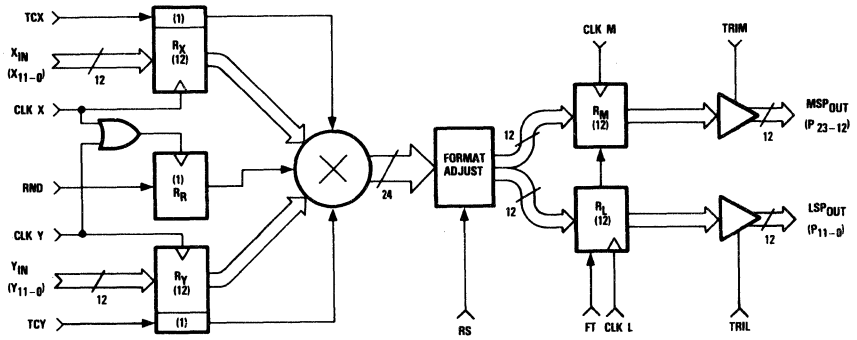


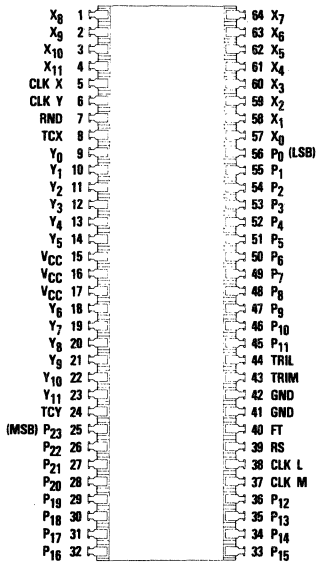
X00-78a 16 x 16 Bit Parallel Multiplier

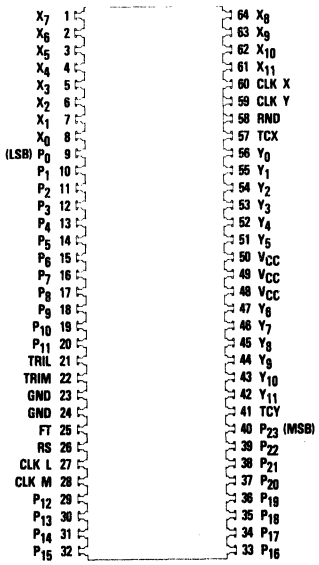


29. CIRCUIT DRAWINGS

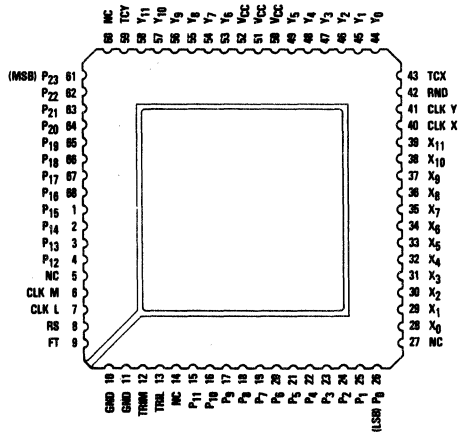
X00-56 | 16 x 16 Parallel Multiplier



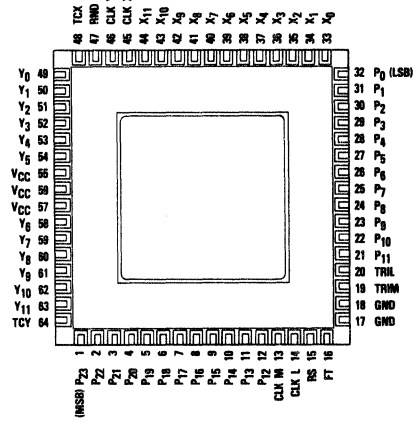




X00-56a



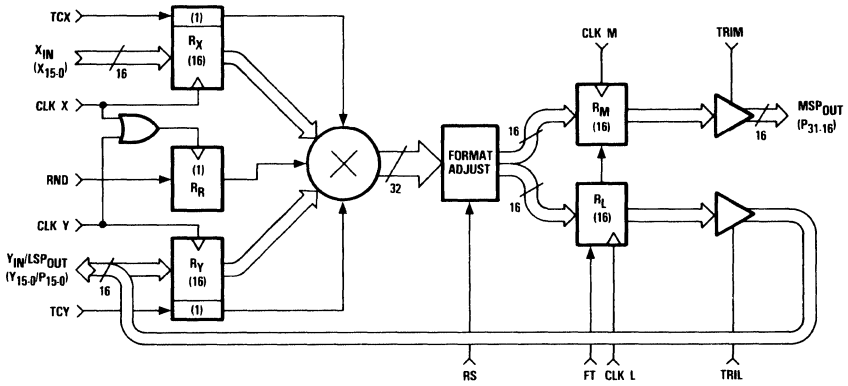
X00-56b

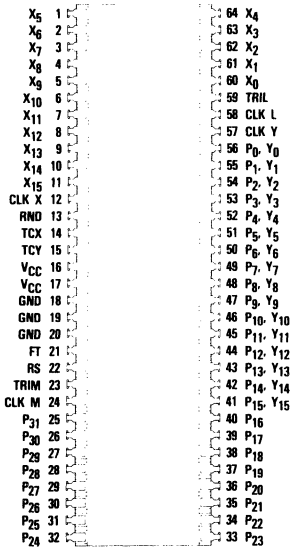


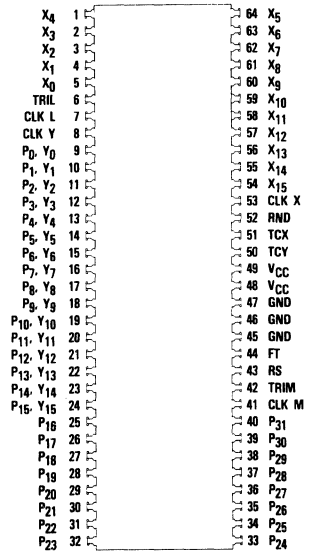
X00-56c

29. CIRCUIT DRAWINGS

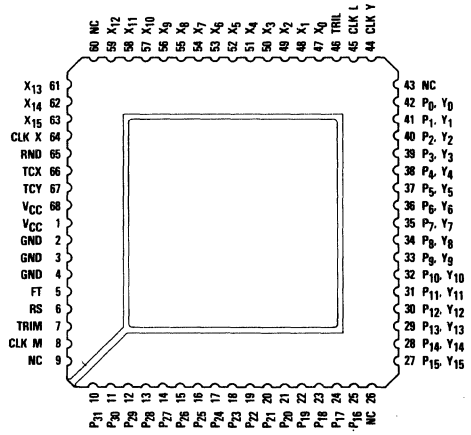
X00-57 16 x 16 Bit Multiplier



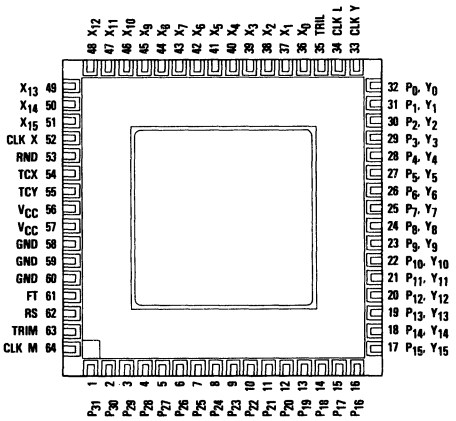




X00-57a



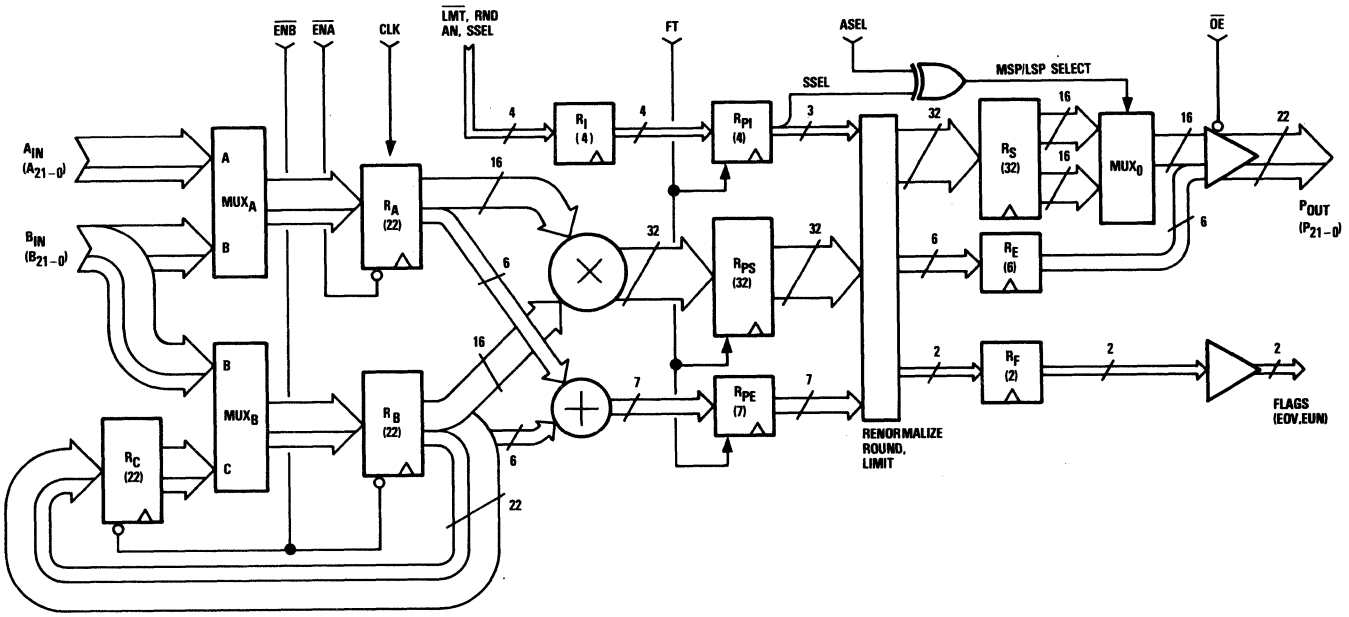
X00-57b



X00-57c

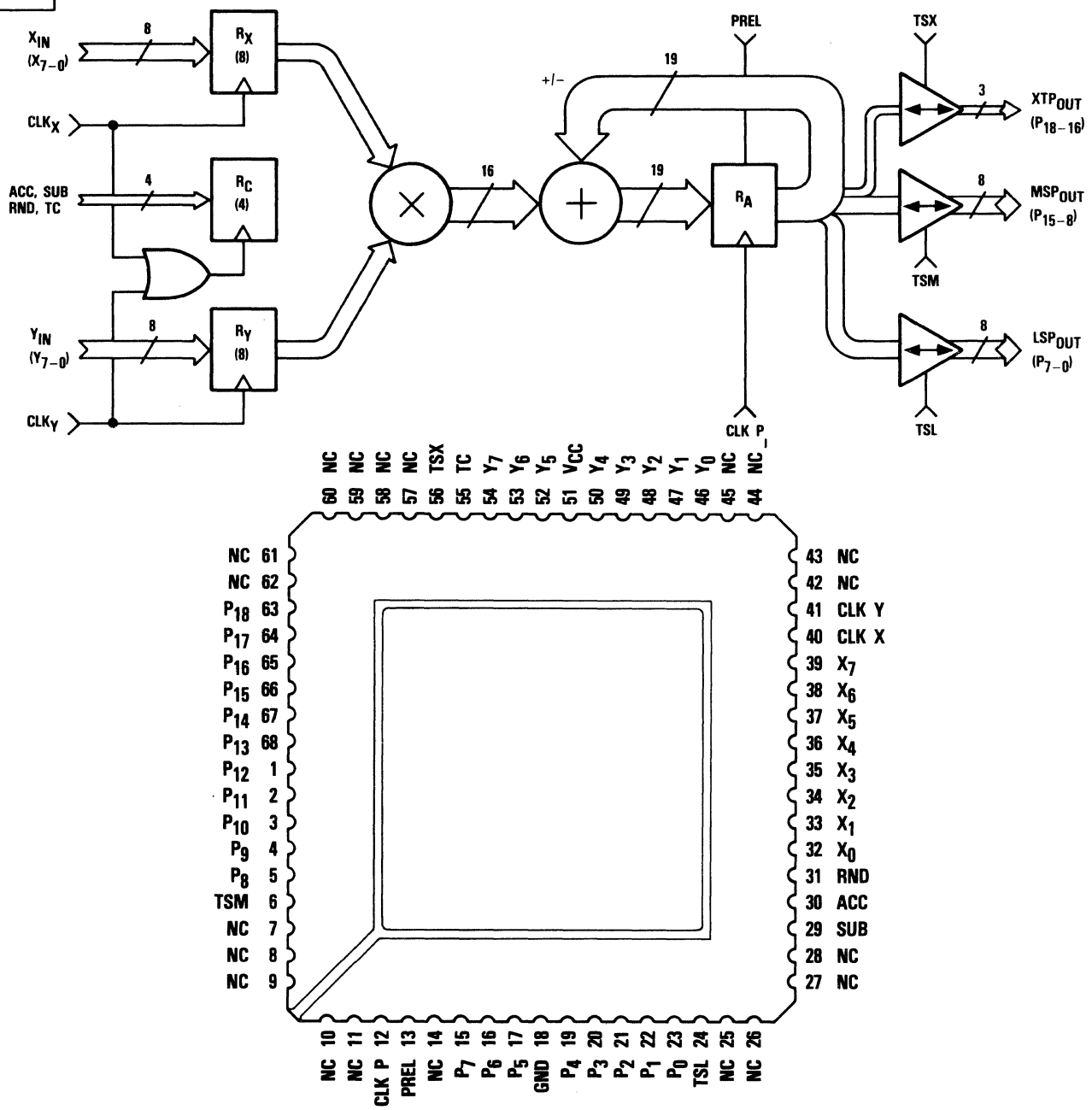
29. CIRCUIT DRAWINGS

X00-58 Floating Point Multiplier



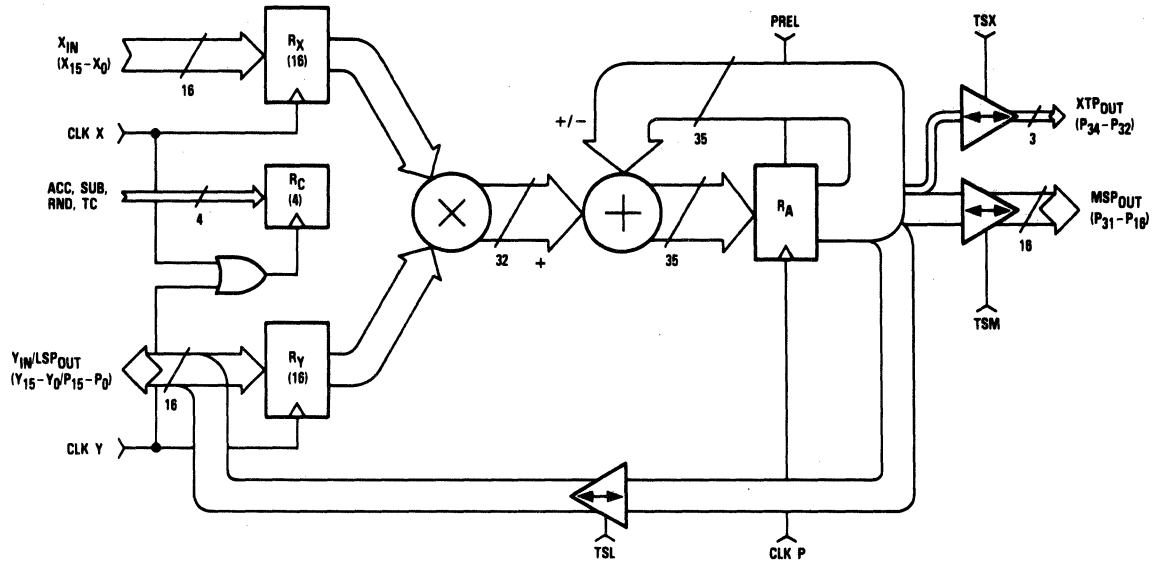
29. CIRCUIT DRAWINGS

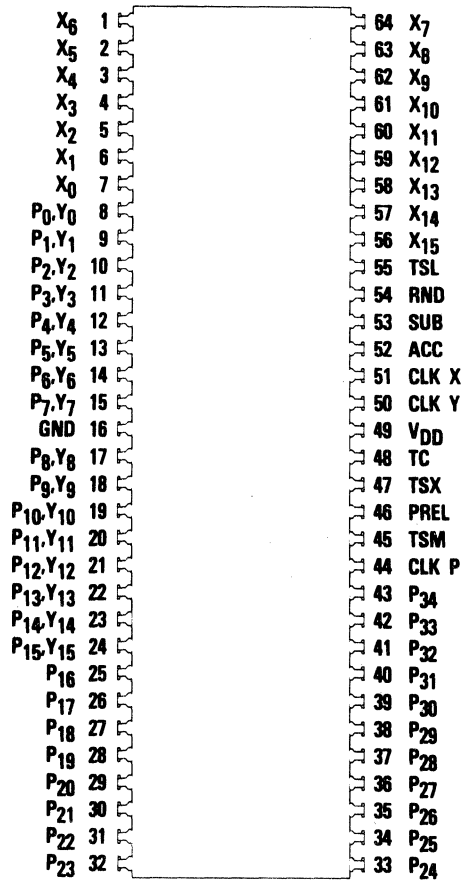
X00-59 8 x 8 Bit VLSI Multiplier-Accumulator

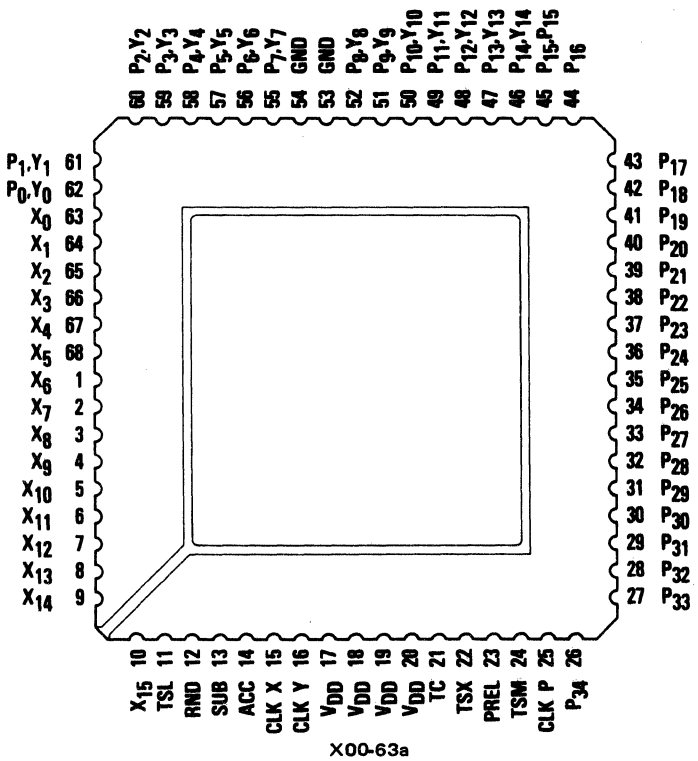


29. CIRCUIT DRAWINGS

X00-63 16 x 16 Bit CMOS Multiplier-Accumulator







X00-63a

29. CIRCUIT DRAWINGS

X00-64 12 x 12 Bit CMOS Multiplier

PIN	FUNCTION	PIN	FUNCTION
1	X7	33	P16
2	X6	34	P17
3	X5	35	P18
4	X4	36	P19
5	X3	37	P20
6	X2	38	P21
7	X1	39	P22
8	X0	40	P23
9	P0	41	TCY
10	P1	42	Y11
11	P2	43	Y10
12	P3	44	Y9
13	P4	45	Y8
14	P5	46	Y7
15	P6	47	Y6
16	P7	48	$+V_{DD}$
17	P8	49	$+V_{DD}$
18	P9	50	$+V_{DD}$
19	P10	51	Y5
20	P11	52	Y4
21	TRIL	53	Y3
22	TRIM	54	Y2
23	GND	55	Y1
24	GND	56	Y0
25	FT	57	TCX
26	FA	58	RND
27	CLK L	59	CLK Y
28	CLK M	60	CLK X
29	P12	61	X11
30	P13	62	X10
31	P14	63	X9
32	P15	64	X8

X00-64

PIN	FUNCTION	PIN	FUNCTION
1	X7	35	P16
2	X6	36	P17
3	X5	37	P18
4	X4	38	P19
5	X3	39	P20
6	X2	40	P21
7	X1	41	P22
8	X0	42	P23
9	N/C	43	N/C
10	P0	44	TCY
11	P1	45	Y11
12	P2	46	Y10
13	P3	47	Y9
14	P4	48	Y8
15	P5	49	Y7
16	P6	50	Y6
17	P7	51	$+V_{DD}$
18	P8	52	$+V_{DD}$
19	P9	53	$+V_{DD}$
20	P10	54	Y5
21	P11	55	Y4
22	TRIL	56	Y3
23	TRIM	57	Y2
24	GND	58	Y1
25	GND	59	Y0
26	N/C	60	N/C
27	FT	61	TCX
28	FA	62	RND
29	CLK L	63	CLK Y
30	CLK M	64	CLK X
31	P12	65	X11
32	P13	66	X10
33	P14	67	X9
34	P15	68	X8

X00-64a

PIN	FUNCTION	PIN	FUNCTION
1	P0	35	TCY
2	P1	36	Y11
3	P2	37	Y10
4	P3	38	Y9
5	P4	39	Y8
6	P5	40	Y7
7	P6	41	Y6
8	P7	42	V_{DD}
9	P8	43	V_{DD}
10	P9	44	V_{DD}
11	P10	45	Y5
12	P11	46	Y4
13	TRIL	47	Y3
14	TRIM	48	Y2
15	GND	49	Y1
16	GND	50	Y0
17	N/C	51	N/C
18	FT	52	TCX
19	FA	53	RND
20	CLK L	54	CLK Y
21	CLK M	55	CLK X
22	P12	56	X11
23	P13	57	X10
24	P14	58	X9
25	P15	59	X8
26	P16	60	X7
27	P17	61	X6
28	P18	62	X5
29	P19	63	X4
30	P20	64	X3
31	P21	65	X2
32	P22	66	X1
33	P23	67	X0
34	N/C	68	N/C

X00-64b

X00-67 12 x 12 Bit Multiplier

PIN	FUNCTION	PIN	FUNCTION
1	X4	35	P19
2	X3	36	P20
3	X2	37	P21
4	X1	38	P22
5	X0	39	P23
6	ACC	40	P24
7	SUB	41	P25
8	RND	42	P26
9	N/C	43	N/C
10	TSL	44	TSX
11	P0	45	TC
12	P1	46	Y11
13	P2	47	Y10
14	P3	48	Y9
15	P4	49	Y8
16	P5	50	Y7
17	GND	51	Y6
18	P6	52	V_{DD}
19	P7	53	Y5
20	P8	54	Y4
21	P9	55	Y3
22	P10	56	Y2
23	P11	57	Y1
24	CLKP	58	Y0
25	PREL	59	CLKY
26	N/C	60	N/C
27	TSM	61	CLKX
28	P12	62	X11
29	P13	63	X10
30	P14	64	X9
31	P15	65	X8
32	P16	66	X7
33	P17	67	X6
34	P18	68	X5

X00-67

PIN	FUNCTION	PIN	FUNCTION
1	TSL	35	TSX
2	P0	36	TC
3	P1	37	Y11
4	P2	38	Y10
5	P3	39	Y9
6	P4	40	Y8
7	P5	41	Y7
8	GND	42	Y6
9	P6	43	V_{DD}
10	P7	44	Y5
11	P8	45	Y4
12	P9	46	Y3
13	P10	47	Y2
14	P11	48	Y1
15	CLK P	49	Y0
16	PREL	50	CLK Y
17	N/C	51	N/C
18	TSM	52	CLK X
19	P12	53	X11
20	P13	54	X10
21	P14	55	X9
22	P15	56	X8
23	P16	57	X7
24	P17	58	X6
25	P18	59	X5
26	P19	60	X4
27	P20	61	X3
28	P21	62	X2
29	P22	63	X1
30	P23	64	X0
31	P24	65	ACC
32	P25	66	SUB
33	P26	67	RND
34	N/C	68	N/C

X00-67a
Pin Grid Array

PIN	FUNCTION	PIN	FUNCTION
1	X4	33	P19
2	X3	34	P20
3	X2	35	P21
4	X1	36	P22
5	X0	37	P23
6	ACC	38	P24
7	SUB	39	P25
8	RND	40	P26
9	TSL	41	TSX
10	P0	42	TC
11	P1	43	Y11
12	P2	44	Y10
13	P3	45	Y9
14	P4	46	Y8
15	P5	47	Y7
16	GND	48	Y6
17	P6	49	V_{DD}
18	P7	50	Y5
19	P8	51	Y4
20	P9	52	Y3
21	P10	53	Y2
22	P11	54	Y1
23	CLKP	55	Y0
24	PREL	56	CLKY
25	TSM	57	CLKX
26	P12	58	X11
27	P13	59	X10
28	P14	60	X9
29	P15	61	X8
30	P16	62	X7
31	P17	63	X6
32	P18	64	X5

X00-67b
Leadless Chip

29. CIRCUIT DRAWINGS

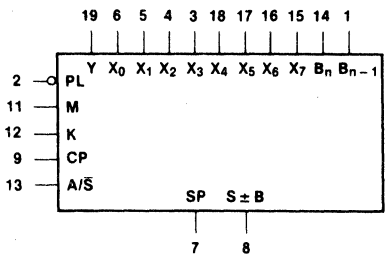
X00-65

16 x 16 CMOS Multiplier

		a	b	c			a	b	c
PIN NO.	← FUNCTION →				PIN NO.	← FUNCTION →			
	DIP	FLAT	LCC	PIN-GRID		DIP	FLAT	LCC	PIN-GRID
1	X4	X4	X4	P0, Y0	35	P26	P26	P24	CLK M
2	X3	X3	X3	P1, Y1	36	P27	P27	P25	TRIM
3	X2	X2	X2	P2, Y2	37	P28	P28	P26	FA
4	X1	X1	X1	P3, Y3	38	P29	P29	P27	FT
5	X0	X0	X0	P4, Y4	39	P30	P30	P28	GND
6	TRIL	TRIL	TRIL	P5, Y5	40	P31	P31	P29	GND
7	CLK L	CLK L	CLK L	P6, Y6	41	CLK M	CLK M	P30	GND
8	CLK Y	CLK Y	CLK Y	P7, Y7	42	TRIM	TRIM	P31	V_{DD}
9	P0, Y0	P0, Y0	N/C	P8, Y8	43	FA	FA	N/C	V_{DD}
10	P1, Y1	P1, Y1	P0, Y0	P9, Y9	44	FT	FT	CLK M	TCY
11	P2, Y2	P2, Y2	P1, Y1	P10, Y10	45	GND	GND	TRIM	TCX
12	P3, Y3	P3, Y3	P2, Y2	P11, Y11	46	GND	GND	FA	RND
13	P4, Y4	P4, Y4	P3, Y3	P12, Y12	47	GND	GND	FT	CLK X
14	P5, Y5	P5, Y5	P4, Y4	P13, Y13	48	V_{DD}	V_{DD}	GND	X15
15	P6, Y6	P6, Y6	P5, Y5	P14, Y14	49	V_{DD}	V_{DD}	GND	X14
16	P7, Y7	P7, Y7	P6, Y6	P15, Y15	50	TCY	TCY	GND	X13
17	P8, Y8	P8, Y8	P7, Y7	N/C	51	TCX	TCX	V_{DD}	N/C
18	P9, Y9	P9, Y9	P8, Y8	P16	52	RND	RND	V_{DD}	X12
19	P10, Y10	P10, Y10	P9, Y9	P17	53	CLK X	CLK X	TCY	X11
20	P11, Y11	P11, Y11	P10, Y10	P18	54	X15	X15	TCX	X10
21	P12, Y12	P12, Y12	P11, Y11	P19	55	X14	X14	RND	X9
22	P13, Y13	P13, Y13	P12, Y12	P20	56	X13	X13	CLK X	X8
23	P14, Y14	P14, Y14	P13, Y13	P21	57	X12	X12	X15	X7
24	P15, Y15	P15, Y15	P14, Y14	P22	58	X11	X11	X14	X6
25	P16	P16	P15, Y15	P23	59	X10	X10	X13	X5
26	P17	P17	N/C	P24	60	X9	X9	N/C	X4
27	P18	P18	P16	P25	61	X8	X8	X12	X3
28	P19	P19	P17	P26	62	X7	X7	X11	X2
29	P20	P20	P18	P27	63	X6	X6	X10	X1
30	P21	P21	P19	P28	64	X5	X5	X9	X0
31	P22	P22	P20	P29	65	N/A	N/A	X8	TRIL
32	P23	P23	P21	P30	66	N/A	N/A	X7	CLK L
33	P24	P24	P22	P31	67	N/A	N/A	X6	CLK Y
34	P25	P25	P23	N/C	68	N/A	N/A	X5	N/C

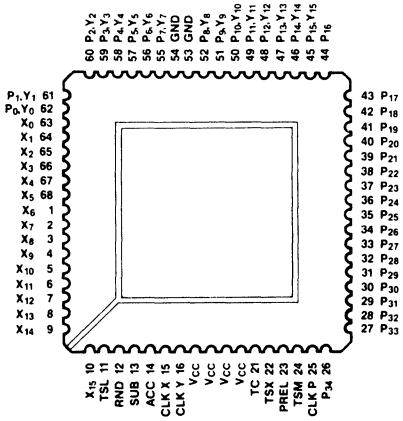
X00-66

8 Bit Serial/Parallel Multiplier (with Adder/Subtractor)

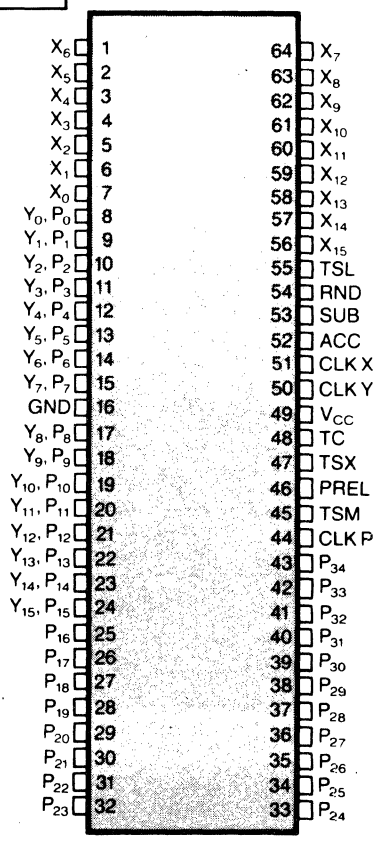


29. CIRCUIT DRAWINGS

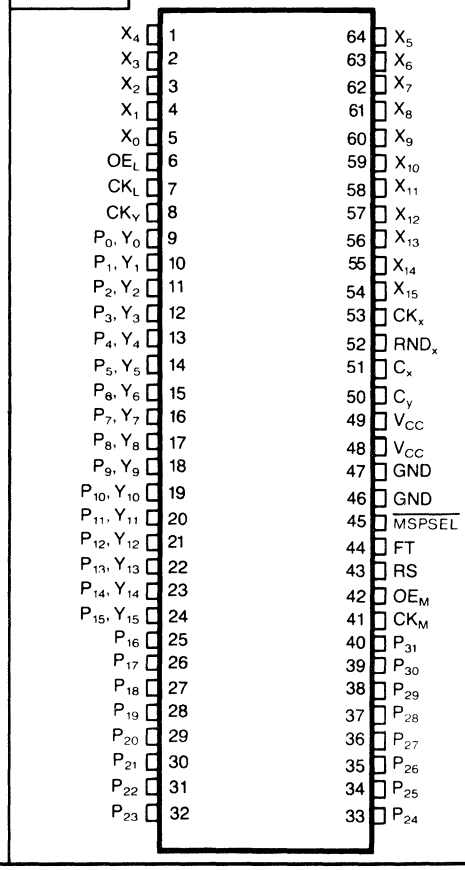
X00-53a 16 x 16 Bit Parallel Multiplier



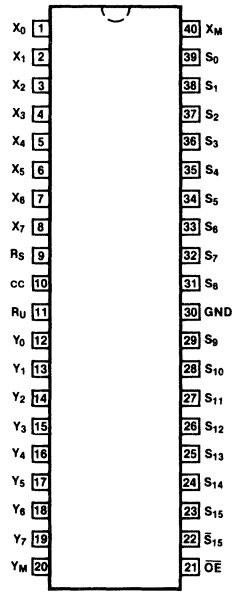
X00-53



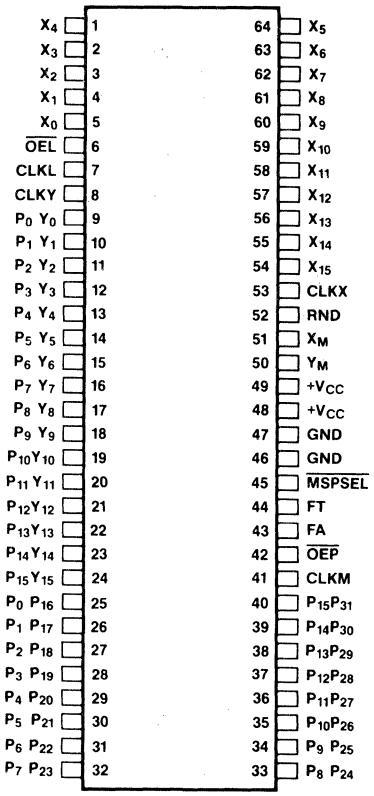
X00-52

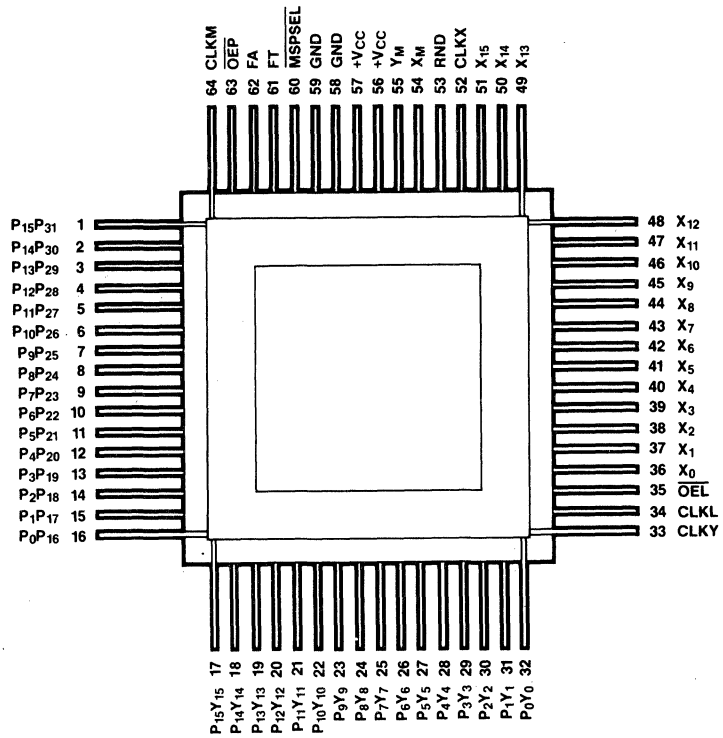


X00-69 8-Bit By 8-Bit Multipliers with 3-State Outputs

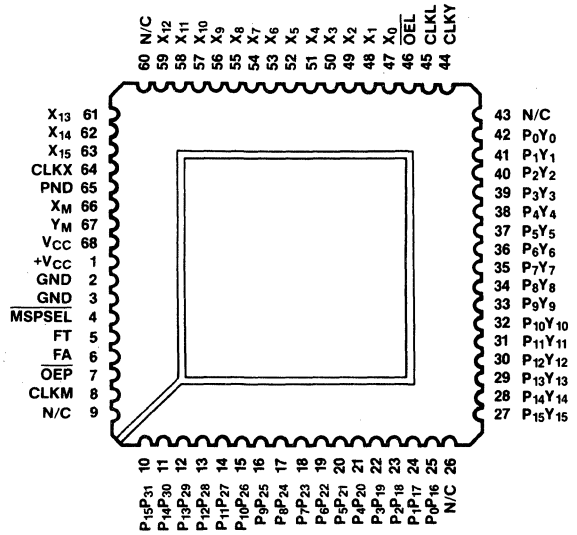


X00-74 16 x 16 Bit Parallel Multiplier





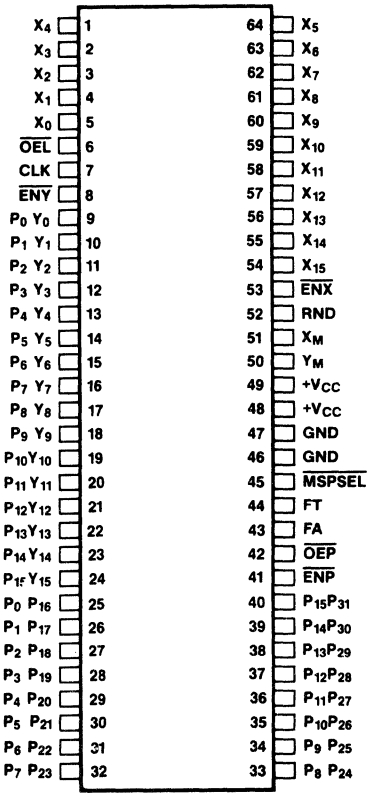
X00-74a

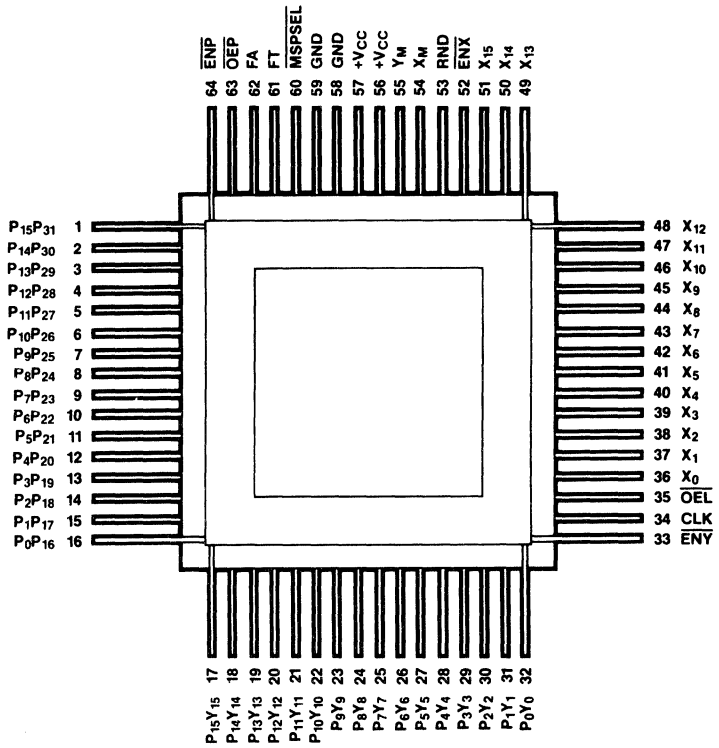


X00-74b

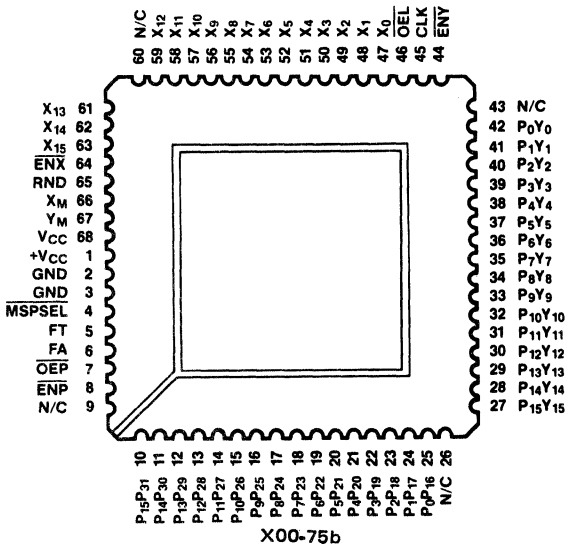
29. CIRCUIT DRAWINGS

X00-75 | 16 x 16 Bit Parallel Multiplier





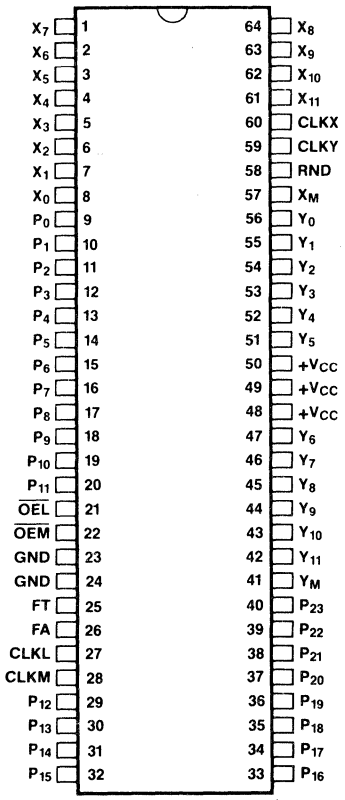
X00-75a

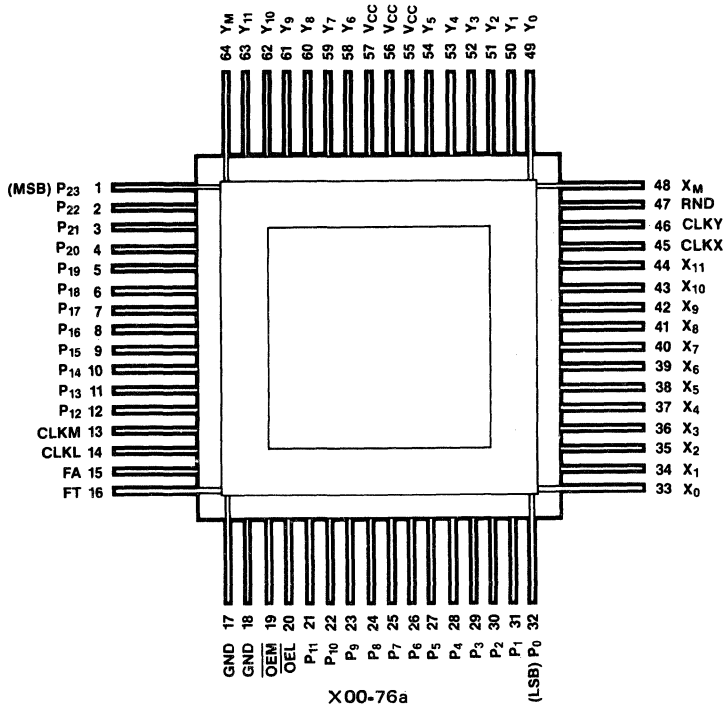


X00-75b

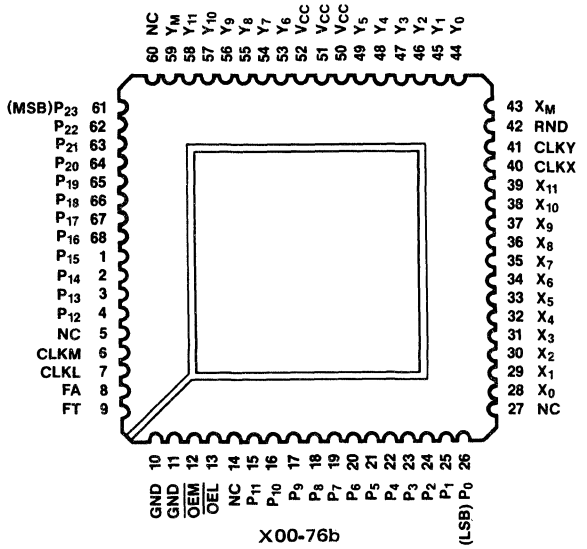
29. CIRCUIT DRAWINGS

X00-76 12 x 12 Bit Parallel Multiplier





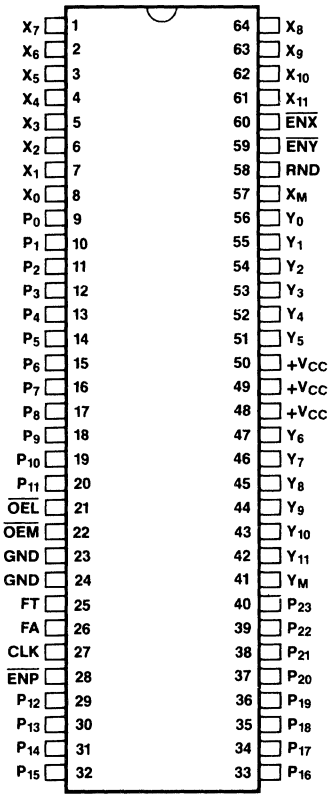
X00-76a

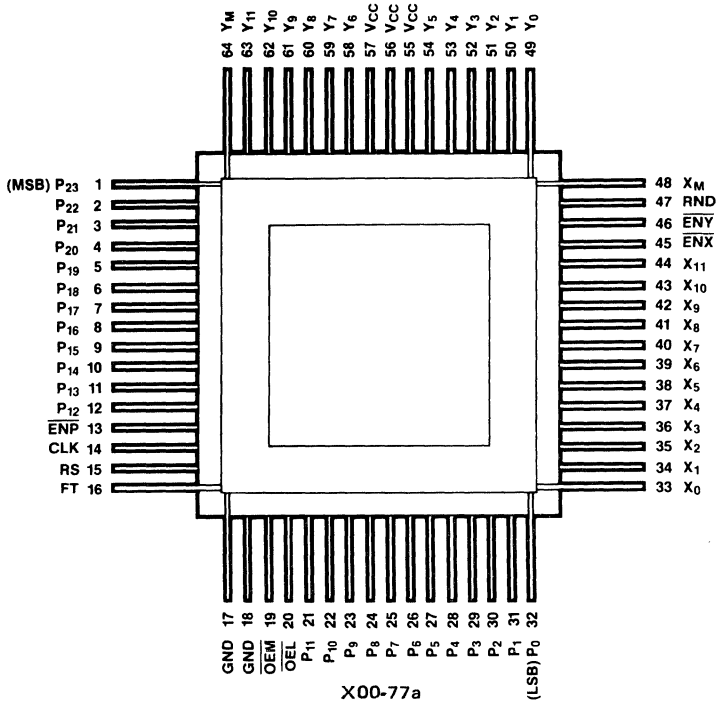


X00-76b

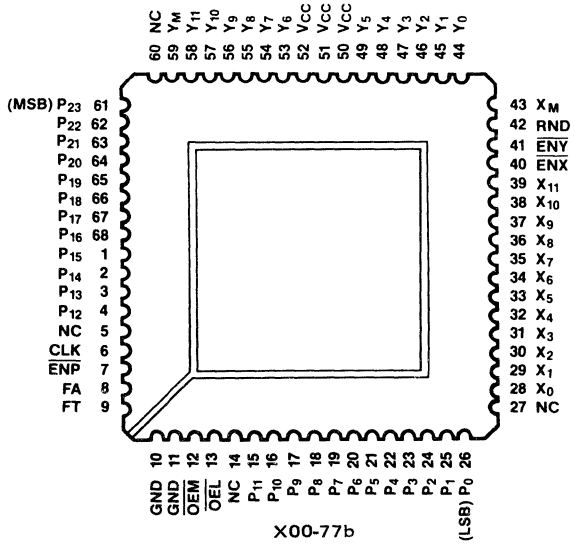
29. CIRCUIT DRAWINGS

X00-77 | 12 x 12 Bit Parallel Multiplier





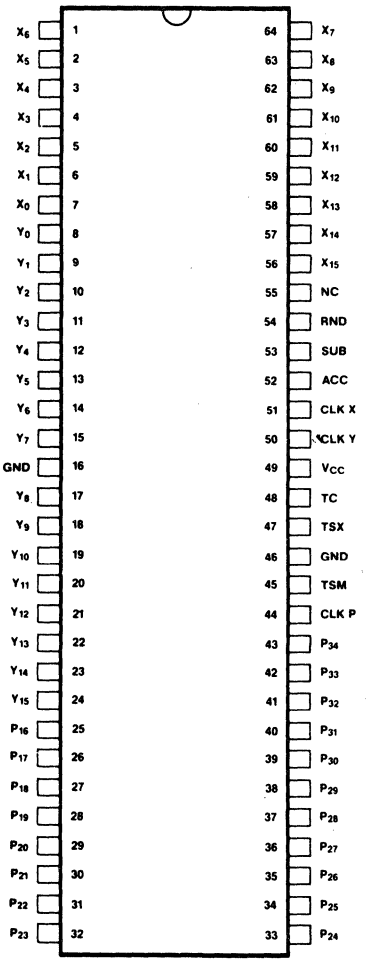
X00-77a



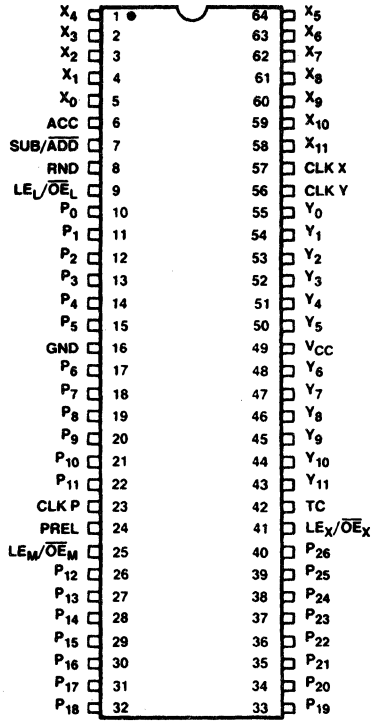
X00-77b

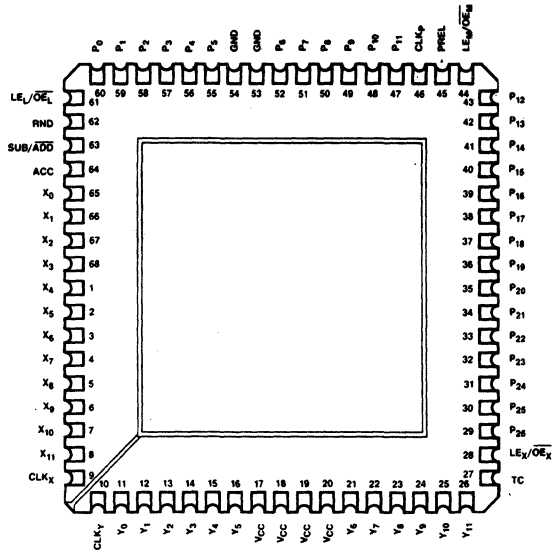
29. CIRCUIT DRAWINGS

X00-78 16 x 16 Bit Parallel Multiplier



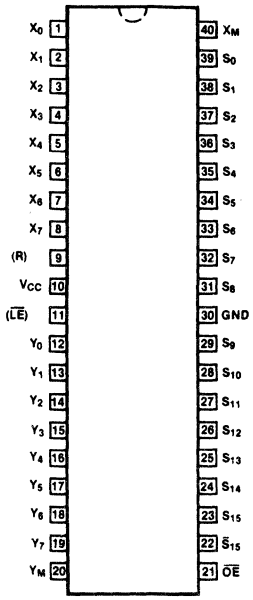
X00-73 12x12 Multiplier/Accumulator





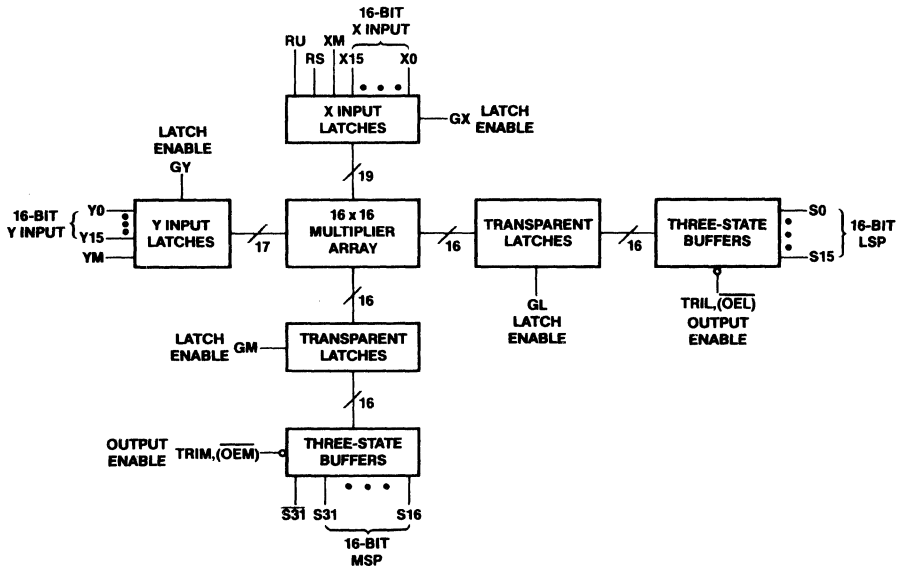
X00-73a

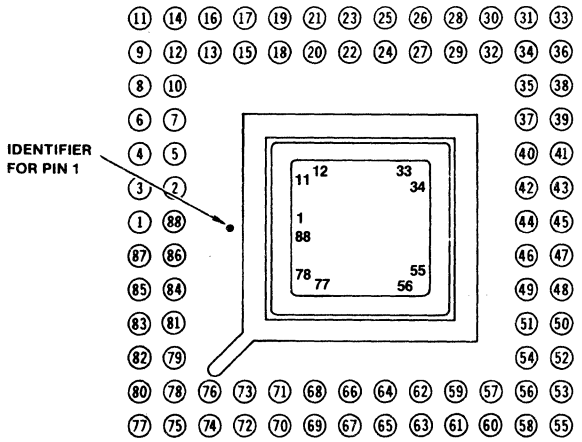
X00-70 8-Bit By 8-Bit Multipliers with 3-State Outputs



29. CIRCUIT DRAWINGS

X00-81 16x16 Flow-Thru Multiplier Slice





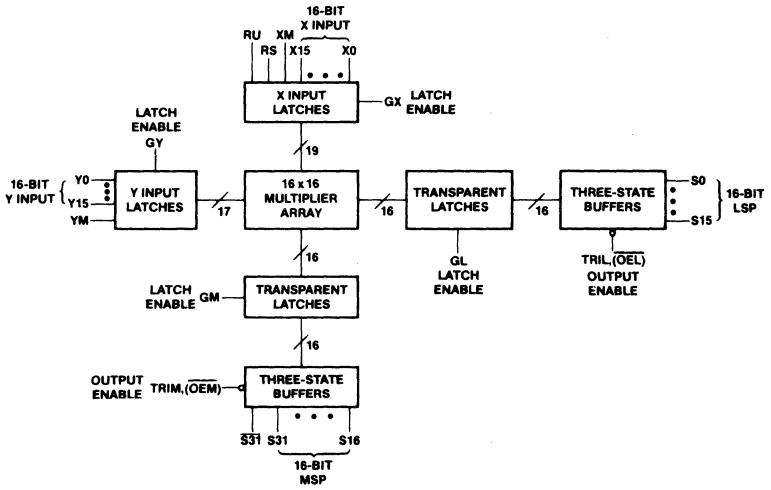
Pin-Guide For Pin Grid Array

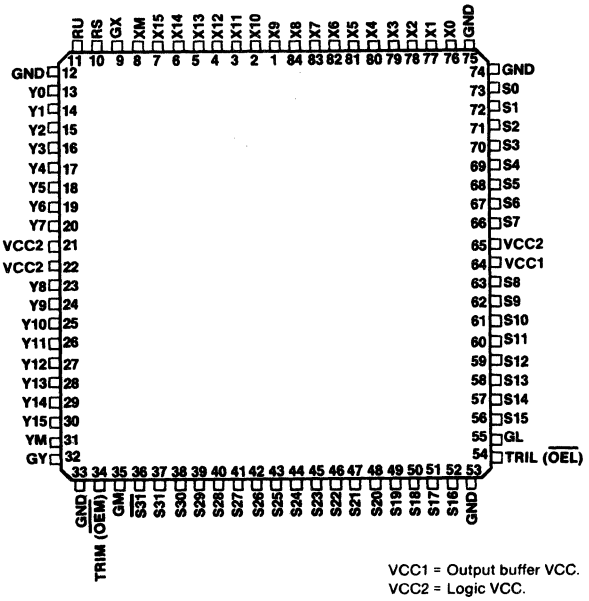
Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name
1	X9	23	N/C*	45	S25	67	VCC2†
2	X10	24	Y8	46	S24	68	N/C*
3	X11	25	Y9	47	S23	69	S7
4	X12	26	Y10	48	S22	70	S6
5	X13	27	Y11	49	S21	71	S5
6	X14	28	Y12	50	S20	72	S4
7	X15	29	Y13	51	S19	73	S3
8	XM	30	Y14	52	S18	74	S2
9	GX	31	Y15	53	S17	75	S1
10	RS	32	YM	54	S16	76	S0
11	RU	33	GY	55	GND	77	GND
12	GND	34	N/C*	56	TRIL ($\overline{OEL}$)	78	N/C*
13	Y0	35	GND	57	GL	79	GND
14	Y1	36	TRIM ($\overline{OEM}$)	58	S15	80	X0
15	Y2	37	GM	59	S14	81	X1
16	Y3	38	$\overline{S31}$	60	S13	82	X2
17	Y4	39	S31	61	S12	83	X3
18	Y5	40	S30	62	S11	84	X4
19	Y6	41	S29	63	S10	85	X5
20	Y7	42	S28	64	S9	86	X6
21	VCC2†	43	S27	65	S8	87	X7
22	VCC2†	44	S26	66	VCC1††	88	X8

* Not connected. † VCC2 = Logic VCC †† VCC1 = Output buffer VCC

29. CIRCUIT DRAWINGS

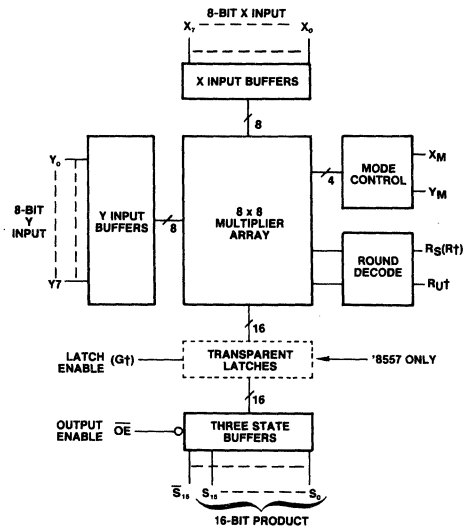
X00-82 16x16 Flow-Thru Multiplier Slice

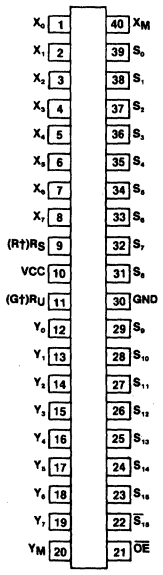




VCC1 = Output buffer VCC.
VCC2 = Logic VCC.

X00-83 8x8 Schottky Multiplier





29. CIRCUIT DRAWINGS

X00-84 16x16-Bit Multiplier/Accumulator

PIN	FUNCTION	PIN	FUNCTION
1	Y1,P1	35	P32
2	Y2,P2	36	P33
3	Y3,P3	37	P34
4	Y4,P4	38	CLK P
5	Y5,P5	39	TSM
6	Y6,P6	40	PREL
7	Y7,P7	41	TSX
8	GND	42	TC
9	Y8,P8	43	V_{DD}
10	Y9,P9	44	CLK Y
11	Y10,P10	45	CLK X
12	Y11,P11	46	ACC
13	Y12,P12	47	SUB
14	Y13,P13	48	RND
15	Y14,P14	49	TSL
16	Y15,P15	50	X15
17	N/C	51	N/C
18	P16	52	X14
19	P17	53	X13
20	P18	54	X12
21	P19	55	X11
22	P20	56	X10
23	P21	57	X9
24	P22	58	X8
25	P23	59	X7
26	P24	60	X6
27	P25	61	X5
28	P26	62	X4
29	P27	63	X3
30	P28	64	X2
31	P29	65	X1
32	P30	66	X0
33	P31	67	Y0,P0
34	N/C	68	N/C

X00-84a

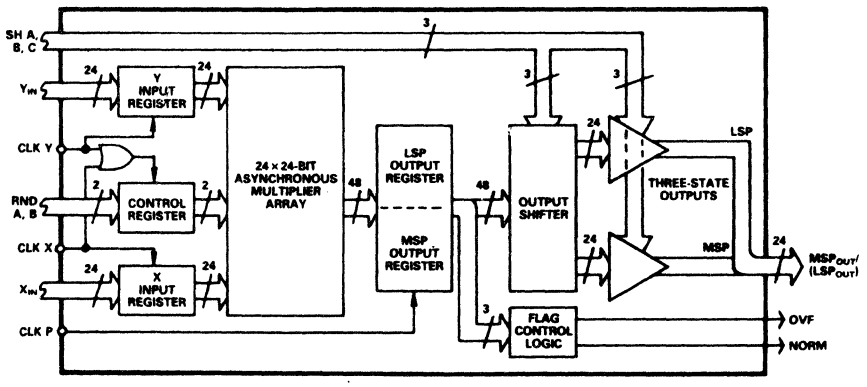
PIN	FUNCTION	PIN	FUNCTION
1	6	33	P24
2	X5	34	P25
3	X4	35	P26
4	X3	36	P27
5	X2	37	P28
6	X1	38	P29
7	X0	39	P30
8	Y0,P0	40	P31
9	Y1,P1	41	P32
10	Y2,P2	42	P33
11	Y3,P3	43	P34
12	Y4,P4	44	CLK P
13	Y5,P5	45	TSM
14	Y6,P6	46	PREL
15	Y7,P7	47	TSX
16	GND	48	TC
17	Y8,P8	49	V_{DD}
18	Y9,P9	50	CLK Y
19	Y10,P10	51	CLK X
20	Y11,P11	52	ACC
21	Y12,P12	53	SUB
22	Y13,P13	54	RND
23	Y14,P14	55	TSL
24	Y15,P15	56	X15
25	P16	57	X14
26	P17	58	X13
27	P18	59	X12
28	P19	60	X11
29	P20	61	X10
30	P21	62	X9
31	P22	63	X8
32	P23	64	X7

X00-84b

PIN	FUNCTION	PIN	FUNCTION
1	X6	35	P24
2	X5	36	P25
3	X4	37	P26
4	X3	38	P27
5	X2	39	P28
6	X1	40	P29
7	X0	41	P30
8	Y0,P0	42	P31
9	N/C	43	N/C
10	Y1,P1	44	P32
11	Y2,P2	45	P33
12	Y3,P3	46	P34
13	Y4,P4	47	CLK P
14	Y5,P5	48	TSM
15	Y6,P6	49	PREL
16	Y7,P7	50	TSX
17	GND	51	TC
18	Y8,P8	52	V_{DD}
19	Y9,P9	53	CLK Y
20	Y10,P10	54	CLK X
21	Y11,P11	55	ACC
22	Y12,P12	56	SUB
23	Y13,P13	57	RND
24	Y14,P14	58	TSL
25	Y15,P15	59	X15
26	N/C	60	N/C
27	P16	61	X14
28	P17	62	X13
29	P18	63	X12
30	P19	64	X11
31	P20	65	X10
32	P21	66	X9
33	P22	67	X8
34	P23	68	X7

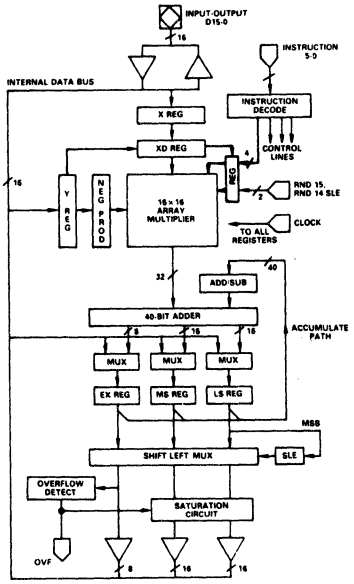
X00-84c

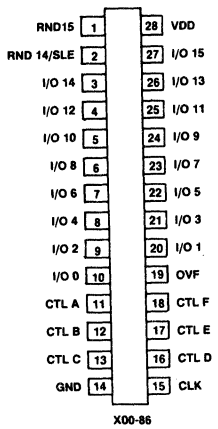
X00-85 24x24-Bit Multiplier



FUNCTION	PIN NO.	FUNCTION	PIN NO.
P16, P40	J6	X20	C6
P15, P39	L6	X21	C7
P14, P38	L5	X22	A7
P13, P37	K5	X23	B7
P12, P36	J5	CLKX	A6
P11, P35	L4	CLKY	A8
P10, P34	K4	RND2	B8
P9, P33	L3	RND1	A9
P8, P32	L2	Y0	A10
P7, P31	K3	Y1	B9
P6, P30	L1	Y2	A11
P5, P29	K2	Y3	B10
P4, P28	J2	Y4	C10
P3, P27	K1	Y5	B11
P2, P26	J1	Y6	C11
P1, P25	H2	Y7	D10
P0, P24	H1	Y8	D11
CTLA	G3	Y9	F10
CTLB	G2	Y10	E10
CTLC	G1	Y11	E11
CLKP	F2	V_{DD}	E9
GND	F3	Y12	F9
X0	E3	Y13	F11
X1	E1	Y14	G11
X2	E2	Y15	G10
X3	F1	Y16	G9
X4	D1	Y17	H11
X5	D2	Y18	H10
X6	C1	Y19	J11
X7	B1	Y20	K11
X8	C2	Y21	J10
X9	A1	Y22	L11
X10	B2	Y23	K10
X11	B3	OVR	K9
X12	A2	NOR	L10
X13	A3	P23, P47	L9
X14	B4	P22, P46	K8
X15	A4	P21, P45	L8
X16	C5	P20, P44	K6
X17	B5	P19, P43	K7
X18	A5	P18, P42	L7
X19	B6	P17, P41	J7

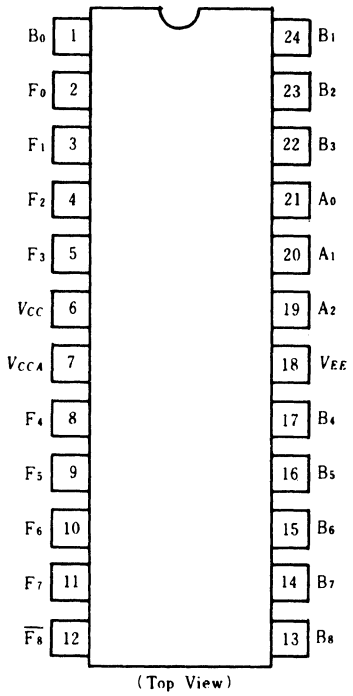
X00-86 16x16-Bit Single Port Multiplier/Accumulator

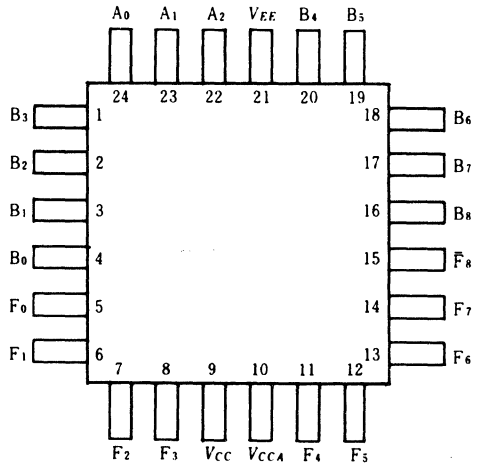


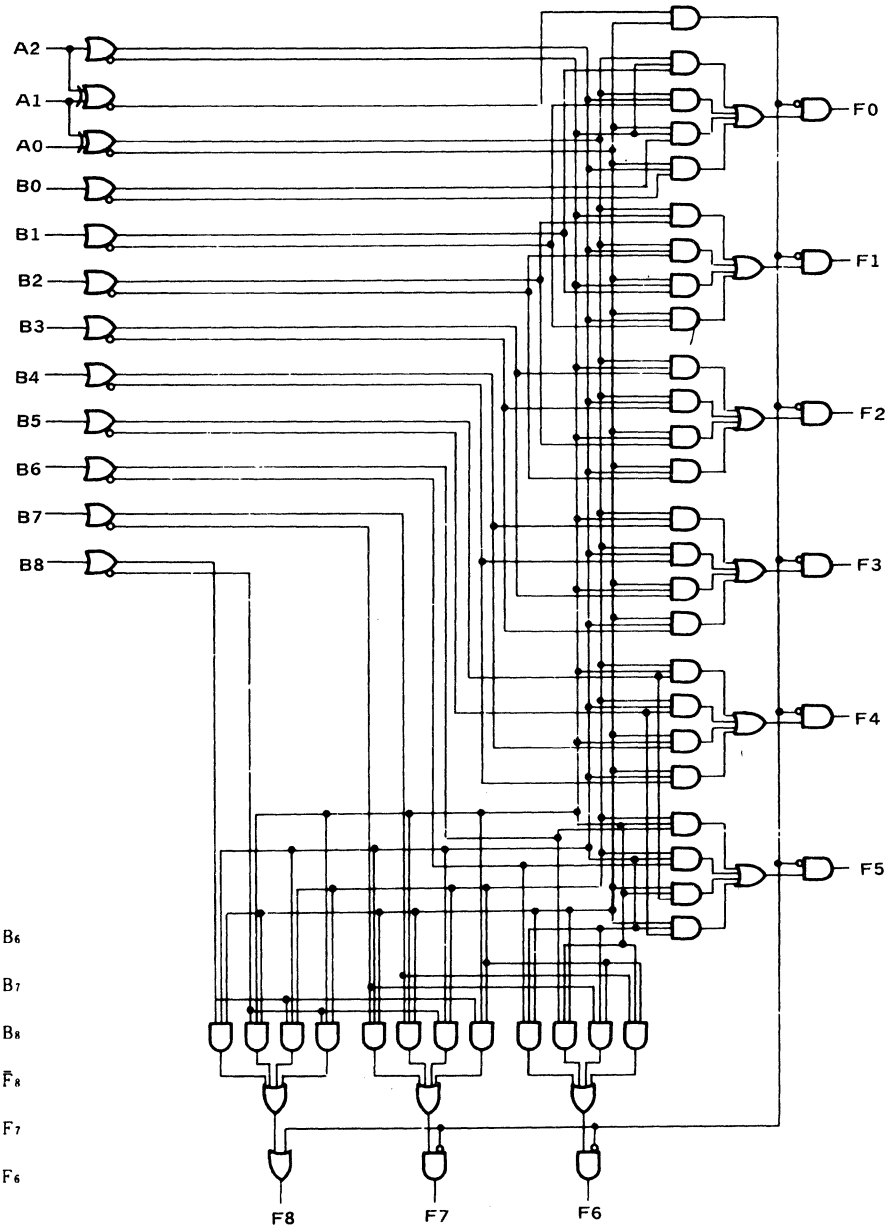


X00-86

X00-88 2x8 Recode Multiplier





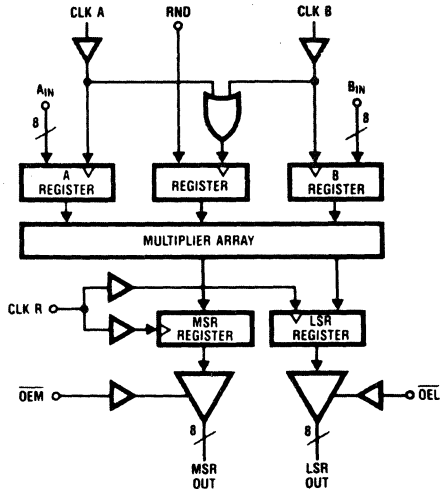


29. CIRCUIT DRAWINGS

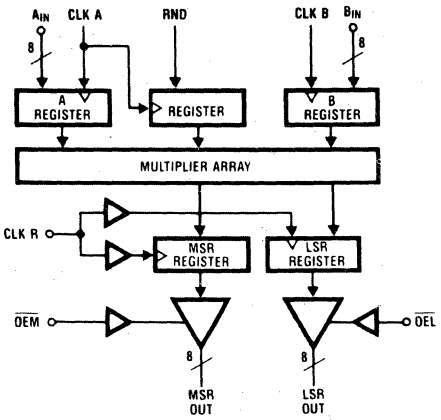
X00-85a 24 x 24 Bit Multiplier

FUNCTION	PIN NO.	FUNCTION	PIN NO.
X20	C6	P16, P40	J6
X21	C5	P15, P39	L6
X22	A5	P14, P38	L7
X23	B5	P13, P37	K7
CLKX	A6	P12, P36	J7
CLKY	A4	P11, P35	L8
RNDB	B4	P10, P34	K8
RNDA	A3	P9, P33	L9
Y0	A2	P8, P32	L10
Y1	B3	P7, P31	K9
Y2	A1	P6, P30	L11
Y3	B2	P5, P29	K10
Y4	C2	P4, P28	J10
Y5	B1	P3, P27	K11
Y6	C1	P2, P26	J11
Y7	D2	P1, P25	H10
Y8	D1	P0, P24	H11
Y9	F2	SHA	G9
Y10	E2	SHB	G10
Y11	E1	SHC	G11
V_{DD}	E3	CLKP	F10
Y12	F3	GND	F9
Y13	F1	X0	E9
Y14	G1	X1	E11
Y15	G2	X2	E10
Y16	G3	X3	F11
Y17	H1	X4	D11
Y18	H2	X5	D10
Y19	J1	X6	C11
Y20	K1	X7	B11
Y21	J2	X8	C10
Y22	L1	X9	A11
Y23	K2	X10	B10
OVF	K3	X11	B9
NORM	L2	X12	A10
P23, P47	L3	X13	A9
P22, P46	K4	X14	B8
P21, P45	L4	X15	A8
P20, P44	K6	X16	C7
P19, P43	K5	X17	B7
P18, P42	L5	X18	A7
P17, P41	J5	X19	B6

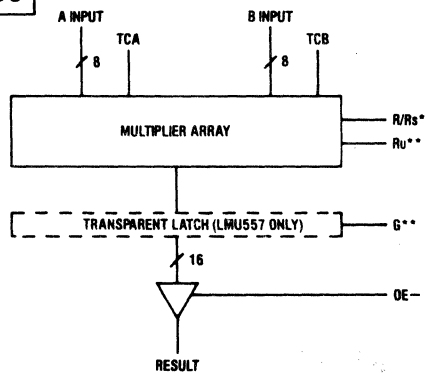
X00-91 8 x 8 Bit Parallel Multiplier



X00-92 8 x 8 Bit Parallel Multiplier

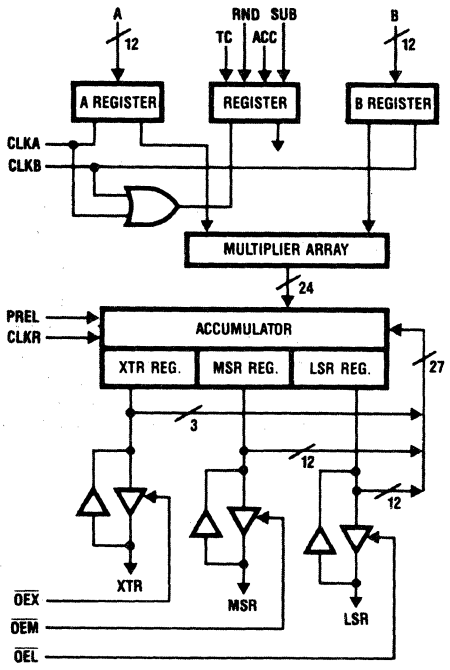


X00-90 8 x 8 Bit Parallel Multiplier



* Pin 9 is R for X00-90 and Rs for X00-90a
** Pin 11 is G for X00-90 and Ru for X00-90a

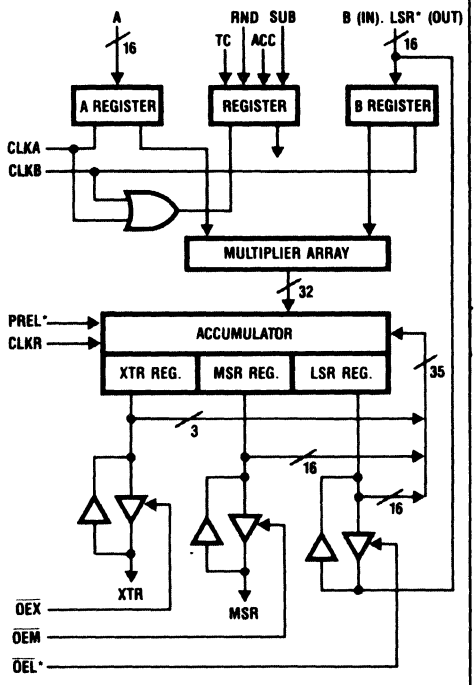
X00-93 12 x 12 Multiplier Accumulator



29. CIRCUIT DRAWINGS

X00-94 | X00-94a

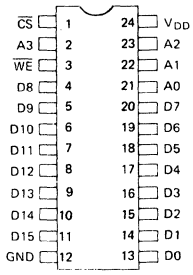
16 x 16 Multiplier Accumulator



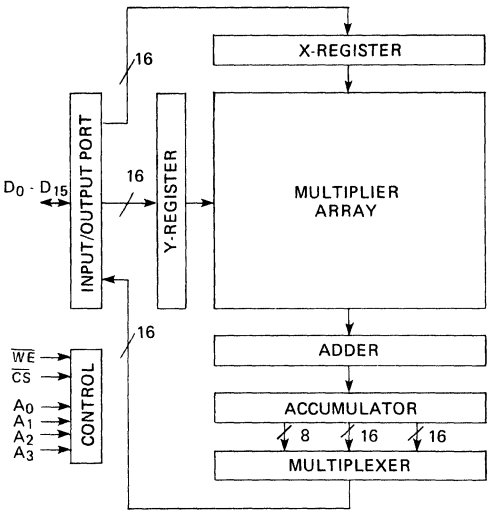
*X00-94a only.

X00-95

16 x 16 Bit Single Port Multiplier/Accumulator

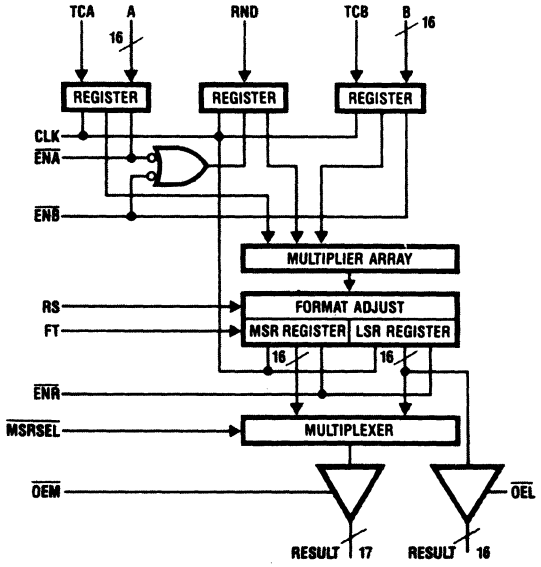


NCR45CM16-C
Ceramic DIP

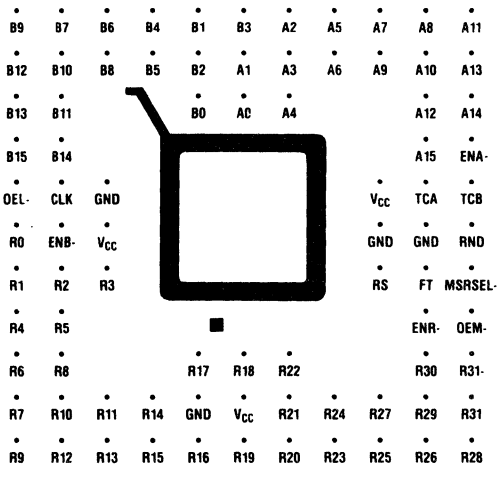


X00-97

16 x 16 Bit Parallel Multiplier



PIN CONFIGURATION
84-Pin PGA

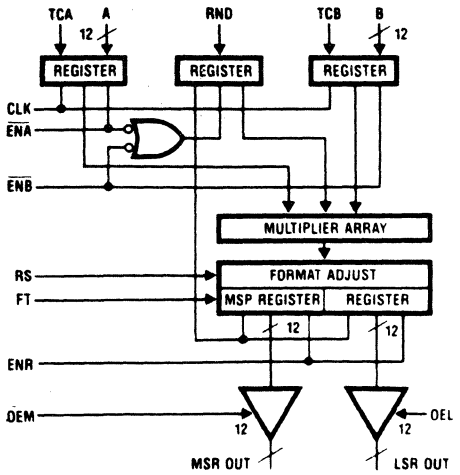


TOP VIEW

X00-99 12 x 12 Bit Parallel Microprogrammable Multiplier

PIN CONFIGURATION LMU12 (LMU13)

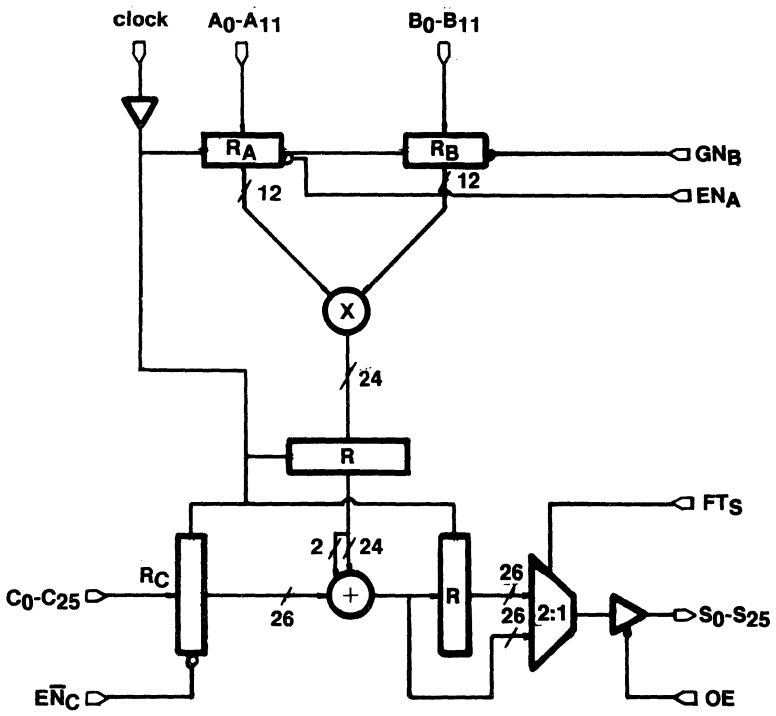
PIN	FUNCTION	PIN	FUNCTION
1	A7	64	A8
2	A6	63	A9
3	A5	62	A10
4	A4	61	A11
5	A3	60	CLKA (ENA–)
6	A2	59	CLKB (ENB–)
7	A1	58	RND
8	A0	57	TCA
9	R0	56	B0
10	R1	55	B1
11	R2	54	B2
12	R3	53	B3
13	R4	52	B4
14	R5	51	B5
15	R6	50	+ V_{CC}
16	R7	49	+ V_{CC}
17	R8	48	+ V_{CC}
18	R9	47	B6
19	R10	46	B7
20	R11	45	B8
21	OEL^-	44	B9
22	OEM^-	43	B10
23	GND	42	B11
24	GND	41	TCB
25	FT	40	R23
26	RS	39	R22
27	CLKL (CLK)	38	R21
28	CLKM (ENR–)	37	R20
29	R12	36	R19
30	R13	35	R18
31	R14	34	R17
32	R15	33	R16



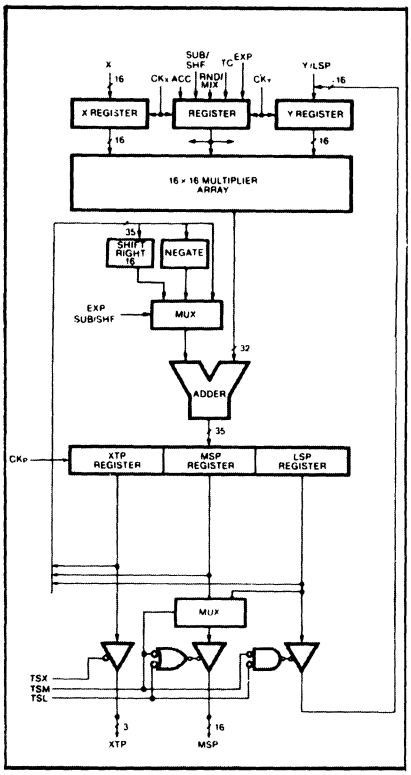
X00-99

29. CIRCUIT DRAWINGS

X00-102 12-Bit Cascadable Multiplier/Summer



X00-110 16x16 Multiplier/Accumulator



X00-103 TTL 16 x 16 Bit Fixed-Point Multiplier

VEE2	VCC2	VCC1	VCC2	TMS5	TMS7	VEE2	VCC1	VCC2	VCC1	OVFL	VCC2	M
VCC1	TLS14	TMS0	TMS2	TMS3	VCC1	TMS9	TMS10	TMS13	TMS14	NEG	VEE2	L
VEE1	TLS13	TLS15	TMS1	TMS4	TMS6	TMS8	TMS11	TMS12	TMS15	ZERO	X15	K
VCC1	TLS11	TLS12							XM	X14	X13	J
VCC2	TLS9	TLS10							X12	X11	X10	H
VEE2	TLS8	VCC1			BOTTOM VIEW				X9	VEE1	VCC1	G
VCC1	TLS7	TLS6							X6	X7	X8	F
VCC2	TLS5	TLS4							X3	X4	X5	E
VEE1	TSL3	TLS2							X0	X1	X2	D
VCC1	TLS1	VEE2	TSEL	$\overline{YEN}$	ROUND	Y2	Y6	Y9	Y12	VEE1	VCC1	C
TLS0	VCC1	$\overline{TLE}$	CK2	$\overline{XEN}$	LOAD	Y3	Y5	Y8	Y11	Y14	YM	B
VCC2	$\overline{TME}$	$\overline{WEN}$	$\overline{CK1}$	FA	Y0	Y1	Y4	Y7	Y10	Y13	Y15	A
1	2	3	4	5	6	7	8	9	10	11	12	

NOTES:
1) All VCC1 pins must be tied to all VCC2 pins.
2) All GND1 pins must be tied to all GND2 pins.

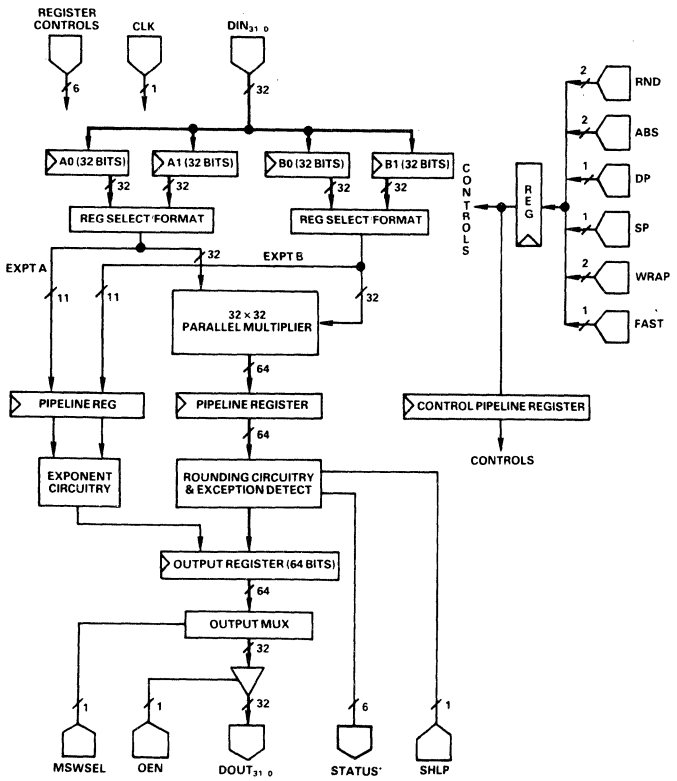
29. CIRCUIT DRAWINGS

X00-104

VCC1	VCC2	VCC1	VCC2	TMS5	TMS7	VEE	VCC1	VCC2	VCC1	$\overline{OVFL}$	VCC2	M
VCC1	TLS14	TMS0	TMS2	TMS3	VCC1	TMS9	TMS10	TMS13	TMS14	$\overline{NEG}$	VCC1	L
VEE	TLS13	TLS15	TMS1	TMS4	TMS6	TMS8	TMS11	TMS12	TMS15	$\overline{ZERO}$	X15	K
VCC1	TLS11	TLS12							XM	X14	X13	J
VCC2	TLS9	TLS10							X12	X11	X10	H
VEE	TLS8	VCC1							X9	VEE	VCC1	G
VCC1	TLS7	TLS6				BOTTOM VIEW			X6	X7	X8	F
VCC2	TLS5	TLS4							X3	X4	X5	E
VEE	TLS3	TLS2							X0	X1	X2	D
VCC1	TLS1	VCC1	$\overline{TEN}$	$\overline{YEN}$	ROUND	Y2	Y6	Y9	Y12	VEE	VCC1	C
TLS0	VCC1	TLE	CK2	$\overline{XEN}$	LOAD	Y3	Y5	Y8	Y11	Y14	YM	B
VCC2	$\overline{TME}$	$\overline{WEN}$	$\overline{CK1}$	FA	Y0	Y1	Y4	Y7	Y10	Y13	Y15	A
1	2	3	4	5	6	7	8	9	10	11	12	

NOTE: All VCCI pins must be tied to all VCC2 pins

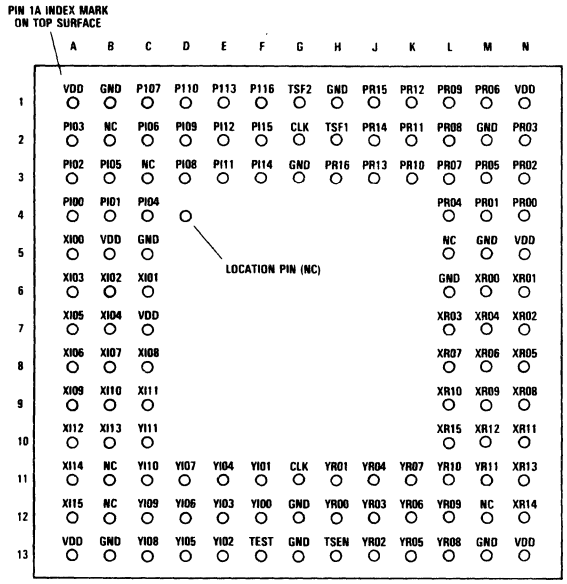
X00-96 Floating Point Multiplier



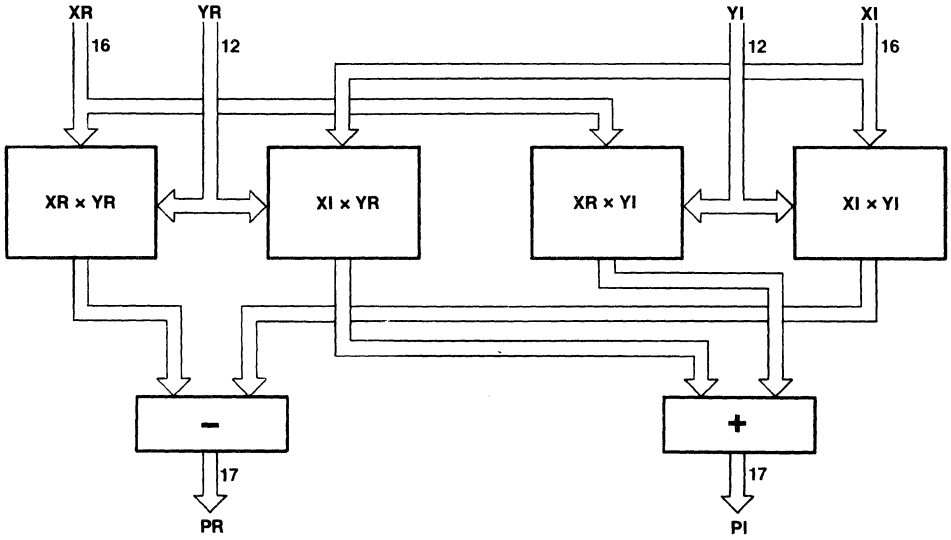
PIN	FUNCTION	PIN	FUNCTION
B2	DIN3	M12	DOUT28
B1	DIN2	M13	DOUT29
C2	DIN1	L12	DOUT30
C1	DIN0	L13	DOUT31
D2	WRAPB	K12	GND
D1	RDB0	K13	GND
E2	SELB0	J12	GND
E1	SELB1	J13	DENORM
F3	ABSB	H11	INVALOP
F2	DP	H12	OVRFLO
F1	SP	H13	UNDFLO
G2	CLK	G12	OEN
G3	RESET	G11	MSWSEL
G1	RND1	G13	SHLP
H1	RND0	F13	FAST
H2	RNDCARO	F12	ABSA
H3	VDD	F11	SELA1
J1	VDD	E13	SELA0
J2	VDD	E12	RDA0
K1	INEXO	D13	WRAPA
K2	DOUT0	D12	DIN31
L1	DOUT1	C13	DIN30
M1	DOUT2	B13	DIN29
L2	DOUT3	C12	DIN28
N1	N/C	A13	N/C
M2	DOUT4	B12	DIN27
N2	DOUT5	A12	DIN26
M3	DOUT6	B11	DIN25
N3	DOUT7	A11	DIN24
M4	DOUT8	B10	DIN23
N4	DOUT9	A10	DIN22
M5	DOUT10	B9	DIN21
N5	DOUT11	A9	DIN20
L6	DOUT12	C8	DIN19
M6	DOUT13	B8	DIN18
N6	DOUT14	A8	DIN17
M7	DOUT15	B7	DIN16
L7	DOUT16	C7	DIN15
N7	DOUT17	A7	DIN14
N8	DOUT18	A6	DIN13
M8	DOUT19	B6	DIN12
L8	DOUT20	C6	DIN11
N9	DOUT21	A5	DIN10
M9	DOUT22	B5	DIN9
N10	DOUT23	A4	DIN8
M10	DOUT24	B4	DIN7
N11	DOUT25	A3	DIN6
N12	DOUT26	A2	DIN5
M11	DOUT27	B3	DIN4
N13	N/C	A1	N/C

29. CIRCUIT DRAWINGS

X00-105



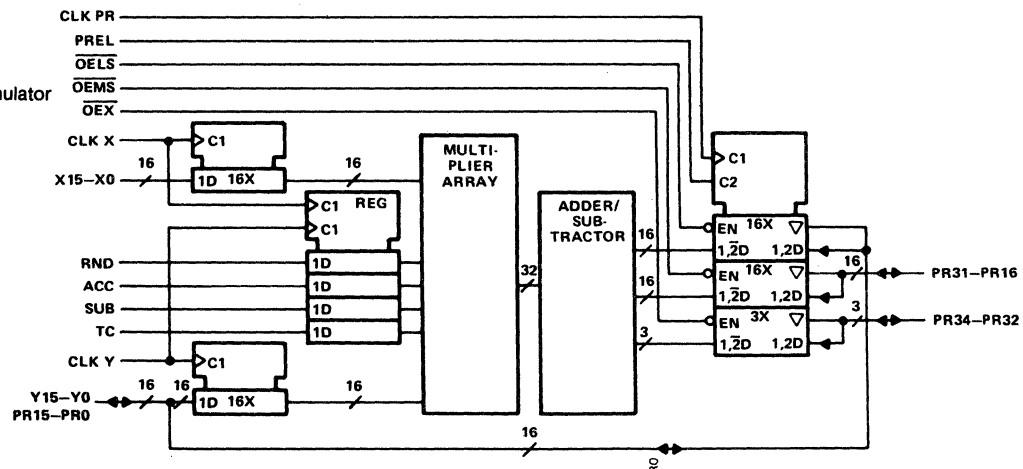
XRxx : X REAL INPUTS
XIxx : X IMAGINARY INPUTS
YRxx : Y REAL INPUTS
YIxx : Y IMAGINARY INPUTS
PRxx : PRODUCT REAL OUTPUTS
PIxx : PRODUCT IMAGINARY OUTPUTS
TEST : TEST CONTROL (NORMALLY '0')
TSEN : TEST CONTROL (NORMALLY '0')
TSF1 : } PASS/FAIL FLAGS
TSF2 : }

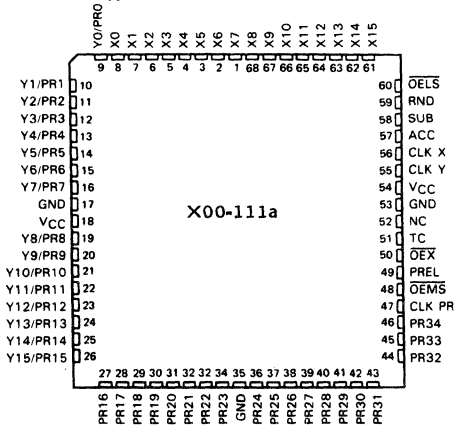


29. CIRCUIT DRAWINGS

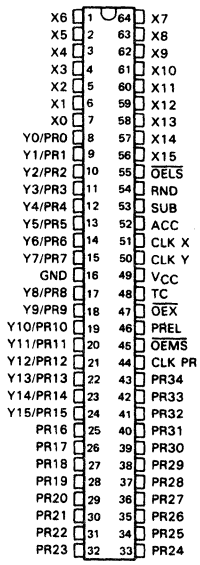
X00-111

16-Bit by 16-Bit
Multiplier/Accumulator

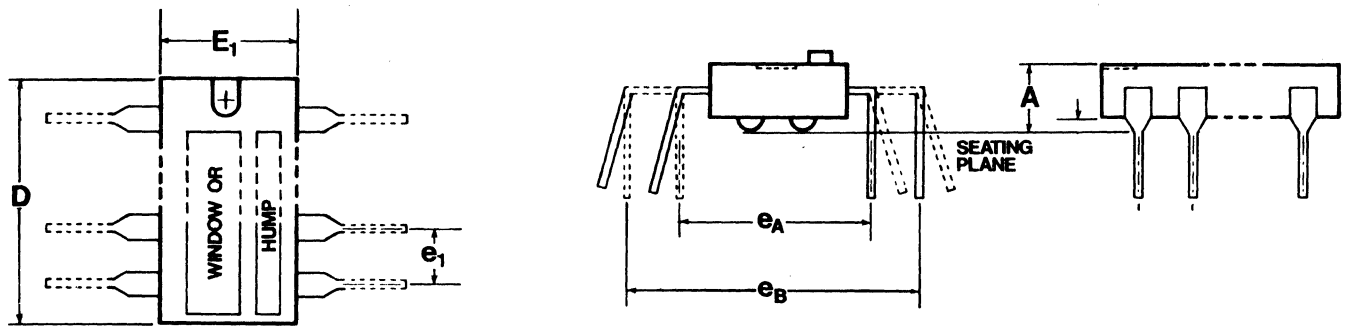




(TOP VIEW)



30. OUTLINE DRAWINGS



OUTLINE DRAWINGS SPECIFICATIONS TABLE

Dwg. No.	Dwg. No. Suffix	DIMENSIONS IN INCHES					
		Pkg. Height A	Pkg. Length D	Pkg. Width E_1	Pin Spacing e_1	Row Sep. e_A	Offset Row Sep. e_B
DIP4	a	.200 Max	.248 Max	.259 Max	.100 BSC	.300 BSC	
DIP6	a	.115 .215	.287 .390	.225 .280	.100 BSC	.300 BSC	
DIP8	a	.105 .210	.348 .550	.240 .310	.100 BSC	.300 BSC	
	b	.305 Max	.346 .550	.220 .325	.100 BSC	.300 BSC	
	c	.200 Max	.384 Max	.275 Max	.100 BSC	.400 BSC	
	d	.300 Max	.500 Max	.430 Max	.100 BSC	.300 BSC	
DIP10	a	.145 .200	.570 Max	.240 .280	.100 BSC	.300 BSC	
DIP12	a	.195 Max	.700 .858		.100 BSC	.300 BSC	
DIP14	a	.105 .210	.660 .830	.220 .310	.100 BSC	.300 BSC	
	b	.065 .314	.590 .830	.200 .340	.100 BSC	.300 BSC	
	c	.200 Max	.800 Max	.338 .405	.100 BSC	.400 BSC	
	d	.074 .200	.800 Max	.510 Max	.100 BSC	.600 BSC	
	e	.215 Max	.880 Max	.540 Max	.100 BSC	.300 BSC	

Dwg. No.	Dwg. No. Suffix	DIMENSIONS IN MM					
		Pkg. Height A	Pkg. Length D	Pkg. Width E_1	Pin Spacing e_1	Row Sep. e_A	Offset Row Sep. e_B
DIP4	a	5.08 Max	6.3 Max	6.58 Max	2.54 BSC	7.62 BSC	
DIP6	a	2.92 5.46	7.3 9.90	5.71 7.11	2.54 BSC	7.62 BSC	
DIP8	a	2.66 5.33	8.84 13.97	6.09 7.87	2.54 BSC	7.62 BSC	
	b	7.747 Max	8.78 13.99	5.59 8.25	2.54 BSC	7.62 BSC	
	c	5.08 Max	9.76 Max	7.0 Max	2.54 BSC	10.16 BSC	
	d	7.62 Max	12.7 Max	10.90 Max	2.54 BSC	7.62 BSC	
DIP10	a	3.68 5.08	14.5 Max	6.09 7.11	2.54 BSC	7.62 BSC	
DIP12	a	4.95 Max	17.8 21.8		2.54 BSC	7.62 BSC	
DIP14	a	2.66 5.33	16.7 21.0	5.59 7.87	2.54 BSC	7.62 BSC	
	b	1.65 7.98	14.98 21.0	5.08 8.63	2.54 BSC	7.62 BSC	
	c	5.08 Max	20.32 Max	8.6 10.3	2.54 BSC	10.16 BSC	
	d	1.88 5.08	20.32 Max	12.95 Max	2.54 BSC	15.24 BSC	
	e	5.46 Max	22.35 Max	13.72 Max	2.54 BSC	7.62 BSC	

30. OUTLINE DRAWINGS

DIP16	a	.090 .210	.745 .890	.240 .310	.100 BSC	.300 BSC	
	b	.068 .270	.64 1.07	.215 .325	.100 BSC	.300 BSC	
	c	.159 Max	7.85 Max	.385 Max	.100 BSC	.400 BSC	
	d	.068 .280	.700 1.04	.400 .520	.100 BSC	.300 BSC	
	e	.100 .250	.700 .900	.515 .620	.100 BSC	.600 BSC	

2.28 5.33	18.9 22.6	6.09 7.87	2.54 BSC	7.62 BSC	
1.73 6.86	16.25 27.18	5.46 8.26	2.54 BSC	7.62 BSC	
4.06 Max	19.94 Max	9.78 Max	2.54 BSC	10.16 BSC	
1.73 7.11	17.78 26.42	10.16 13.2	2.54 BSC	7.62 BSC	
2.54 6.35	17.78 22.86	13.08 15.75	2.54 BSC	15.24 BSC	

DIP18	a	.105 .210	.845 .930	.240 .310	.100 BSC	.300 BSC	
	b	.070 .276	.780 1.01	.220 .325	.100 BSC	.300 BSC	
	c	.150 .215	.879 1.09	.244 .390	.100 BSC	.400 BSC	
	d	.134 .218	.976 1.03	.476 .520	.100 BSC	.300 BSC	
	e	.135 .205	.972 1.18	.550 .810	.100 BSC	.600 BSC	

2.66 5.33	21.4 23.6	6.04 7.87	2.54 BSC	7.62 BSC	
1.78 7.02	19.81 25.65	5.59 8.25	2.54 BSC	7.62 BSC	
3.81 5.46	22.35 27.81	6.22 9.90	2.54 BSC	10.16 BSC	
3.42 5.54	24.8 26.1	12.1 13.2	2.54 BSC	7.62 BSC	
3.43 5.20	24.7 29.97	13.97 20.57	2.54 BSC	15.24 BSC	

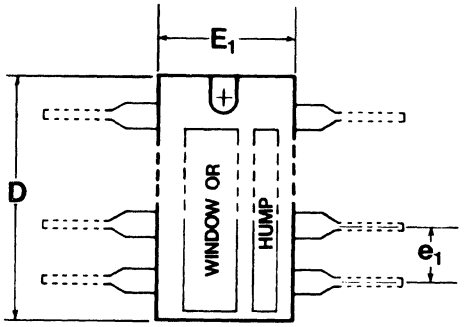
DIP20	a	.210 Max	.925 1.06	.240 .280	.100 BSC	.300 BSC	
	b	.078 .250	.890 1.2	.216 .334	.100 BSC	.300 BSC	
	c	.225 Max	.940 1.1	.334 .400	.100 BSC	.400 BSC	
	d	.144 .200	1.24 1.27	.540 .602	.100 BSC	.600 BSC	
	e	.157 Max	1.18 Max	.464 Max	.100 BSC	.500 BSC	
	f	.200 Max	.770 Max	.256 Max	.070 BSC	.300 BSC	

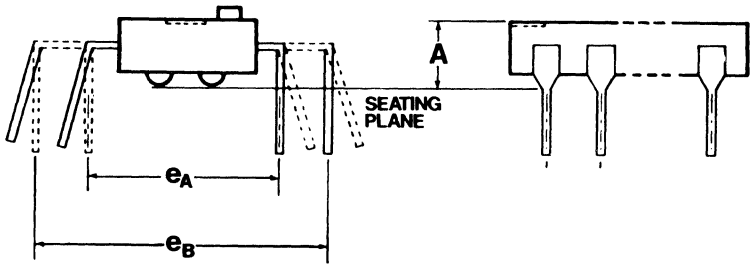
5.33 Max	23.49 26.92	6.10 7.11	2.54 BSC	7.62 BSC	
2.0 6.35	22.6 30.5	5.5 8.48	2.54 BSC	7.62 BSC	
5.72 Max	23.88 27.94	8.5 10.16	2.54 BSC	10.16 BSC	
3.68 5.08	31.5 32.2	13.71 15.3	2.54 BSC	15.24 BSC	
4.0 Max	30.0 Max	11.8 Max	2.54 BSC	12.7 BSC	
5.08 Max	19.57 Max	6.5 Max	1.78 BSC	7.62 BSC	

DIP22	a	.090 .210	1.04 1.12	.330 .410	.100 BSC	.400 BSC	
	b	.085 .260	1.00 1.26	.270 .420	.100 BSC	.400 BSC	
	c	.100 .230	1.03 1.20	.240 .320	.100 BSC	.300 BSC	
	d	.270 Max	1.3 Max	.610 Max	.100 BSC	.400 BSC	
	e	.177 Max	.835 Max	.272 Max	.070 BSC	.300 BSC	

2.28 5.33	26.42 28.45	8.36 10.41	2.54 BSC	10.16 BSC	
2.16 6.60	25.4 32.0	6.86 10.79	2.54 BSC	10.16 BSC	
2.54 5.84	26.29 30.48	6.04 8.128	2.54 BSC	7.62 BSC	
6.86 Max	33.02 Max	15.49 Max	2.54 BSC	10.16 BSC	
4.5 Max	21.2 Max	6.9 Max	1.78 BSC	7.62 BSC	

30. OUTLINE DRAWINGS





OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

DIP24	a	.085 .250	1.15 1.29	.480 .610	.100 BSC	.600 BSC		2.16 6.35	29.21 32.77	12.19 15.49	2.54 BSC	15.24 BSC	
	b	.070 .350	1.04 1.5	.475 .630	.100 BSC	.600 BSC		1.78 8.89	26.41 38.1	12.06 16.0	2.54 BSC	15.24 BSC	
	c	.145 .175	1.24 1.26	.390 .410	.100 BSC	.500 BSC		3.68 4.44	31.49 32.00	9.9 10.41	2.54 BSC	12.7 BSC	
	d	.140 .230	1.16 1.65	.332 .410	.100 BSC	.400 BSC		3.55 5.84	29.66 41.91	8.45 10.41	2.54 BSC	10.16 BSC	
	e	.076 .310	1.00 1.300	.220 .310	.100 BSC	.300 BSC		1.93 7.87	25.6 33.0	5.59 7.87	2.54 BSC	7.62 BSC	
	f	.255 Max	1.36 Max	.705 .830	.100 BSC	.600 BSC		6.47 Max	34.54 Max	17.9 21.1	2.54 BSC	15.24 BSC	
	g	.210 Max	1.25 Max	.900 Max	.100 BSC	.900 BSC		5.33 Max	31.75 Max	22.86 Max	2.54 BSC	22.86 BSC	
	h	.200 Max	.910 Max	.255 Max	.070 BSC	.300 BSC		5.08 Max	23.12 Max	6.5 Max	1.78 BSC	7.62 BSC	

DIP28	a	.086 .250	1.35 1.56	.480 .610	.100 BSC	.600 BSC		2.2 6.35	34.29 39.7	12.19 15.49	2.54 BSC	15.24 BSC	
	b	.060 .310	1.30 1.52	.475 .625	.100 BSC	.600 BSC		1.52 7.87	33.0 38.6	12.06 15.9	2.54 BSC	15.24 BSC	
	c	.139 .225	1.42 Max	.403 Max	.100 BSC	.400 BSC		3.55 5.72	36.1 Max	10.24 Max	2.54 BSC	10.16 BSC	
	d	.230 Max	1.37 1.48	.245 .310	.100 BSC	.300 BSC		5.84 Max	34.9 37.7	6.22 7.87	2.54 BSC	7.62 BSC	
	e	.200 Max	1.54 Max	.810 Max	.100 BSC	.600 BSC		5.08 Max	39.12 Max	20.57 Max	2.54 BSC	15.24 BSC	
	f	.200 Max	1.12 Max	.354 Max	.070 BSC	.400 BSC		5.08 Max	28.46 Max	9.0 Max	1.78 BSC	10.16 BSC	

DIP30	a	.220 Max	1.43 1.55	.506 .630	.100 BSC	.600 BSC		5.59 Max	36.5 39.37	12.85 16.00	2.54	15.24	
	b	.216 Max	1.06 1.12	.338 .393	.070 BSC	.400 BSC		5.5 Max	27.1 28.5	8.6 10.0	1.78 BSC	10.16 BSC	
	c	.270 Max	1.6 Max	.400 Max	.100 BSC	.300 BSC		6.86 Max	40.64 Max	10.16 Max	2.54 BSC	7.62 BSC	

30. OUTLINE DRAWINGS

DIP32	a	.270 Max	1.62 Max	.374 .405	.100 BSC	.400 BSC	
	b	.300 Max	1.65 Max	.630 Max	.100 BSC	.600 BSC	
	c	.275 Max	1.74 Max	.840 Max	.100 BSC	.600 BSC	
	d	.255 Max	1.76 Max	.878 1.16	.100 BSC	.900 BSC	
	e	.270 Max	1.6 Max	.400 Max	.100 BSC	.300 BSC	

6.86 Max	41.15 Max	9.5 10.29	2.54 BSC	10.16 BSC	
7.62 Max	41.91 Max	16.0 Max	2.54 BSC	15.24 BSC	
6.98 Max	44.19 Max	21.33 Max	2.54 BSC	15.24 BSC	
6.47 Max	44.7 Max	22.3 29.5	2.54 BSC	22.86 BSC	
6.86 Max	40.64 Max	10.16 Max	2.54 BSC	7.62 BSC	

DIP36	a	.248 Max	1.89 Max	.630 Max	.100 BSC	.600 BSC	
	b	.197 Max	1.8 Max	.880 Max	.100 BSC	.900 BSC	
	c	.216 Max	1.26 Max	.440 Max	.070 BSC	.500 BSC	

6.3 Max	48.0 Max	16.0 Max	2.54 BSC	15.24 BSC	
5.0 Max	45.72 Max	22.35 Max	2.54 BSC	22.86 BSC	
5.5 Max	32.0 Max	11.15 Max	1.78 BSC	12.7 BSC	

DIP40	a	0.86 .250	1.95 2.09	.480 .610	.100 BSC	.600 BSC	
	b	.070 .310	1.93 2.29	.480 .625	.100 BSC	.600 BSC	
	c	.200 Max	2.35 Max	1.53 Max	.100 BSC	.900 BSC	
	d	.360 Max	2.135 Max	.830 Max	.100 BSC	.600 BSC	
	e	.216 Max	1.54 Max	.600 Max	.070 BSC	.600 BSC	

2.2 6.35	49.5 53.2	12.19 15.49	2.54 BSC	15.24 BSC	
1.778 7.87	49.0 58.16	12.19 15.87	2.54 BSC	15.24 BSC	
5.08 Max	59.7 Max	38.8 Max	2.54 BSC	22.86 BSC	
9.14 Max	54.23 Max	21.08 Max	2.54 BSC	15.24 BSC	
5.5 Max	39.13	15.24 Max	1.78 BSC	15.24 BSC	

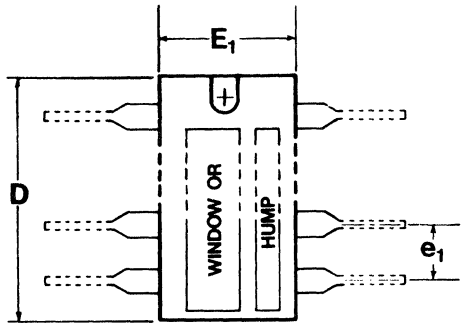
DIP42	a	.150 .216	1.44 1.54	.472 .575	.070 BSC	.600 BSC	
	b	.225 Max	2.22 Max	.559 Max	.100 BSC	.600 BSC	
	c	.354 Max	2.25 Max	.827 Max	.100 BSC	.600 BSC	
	d	.230 Max	2.13 Max	.905 Max	.100 BSC	.900 BSC	

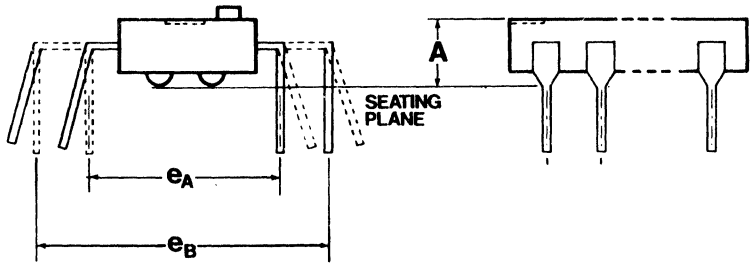
3.81 5.5	36.7 39.12	12.7 14.6	1.78 BSC	15.24 BSC	
5.72 Max	56.5 Max	14.2 Max	2.54 BSC	15.24 BSC	
9.00 Max	57.15 Max	21.0 Max	2.54 BSC	15.24 BSC	
5.84 Max	54.1 Max	22.98 Max	2.54 BSC	22.86 BSC	

DIP48	a	.285 Max	2.7 Max	.625 Max	.100 BSC	.600 BSC	
	b	.190 Max	2.4 Max	.825 Max	.100 BSC	.900 BSC	
	c	.216 Max	1.82 Max	.518 Max	.070 BSC	.600 BSC	
	d	2.55 Max	1.73 Max	.410 Max	.070 BSC	.400 BSC	

7.24 Max	68.58 Max	15.87 Max	2.54 BSC	15.24 BSC	
4.82 Max	60.96 Max	20.96 Max	2.54 BSC	22.86 BSC	
5.5 Max	46.35 Max	13.15 Max	1.78 BSC	15.24 BSC	
6.47 Max	43.94 Max	10.41 Max	1.78 BSC	10.16 BSC	

30. OUTLINE DRAWINGS





OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

DIP52	a	.200 Max	2.65 Max	.610 Max	.100 BSC	.600 BSC		5.08 Max	67.3 Max	15.49 Max	2.54 BSC	15.24 BSC	
	b	.270 Max	2.64 Max	.825 Max	.100 BSC	.900 BSC		6.86 Max	67.0 Max	20.9 Max	2.54 BSC	22.86 BSC	
	c	.216 Max	1.825 Max	.518 Max	.070 BSC	.600 BSC		5.5 Max	46.35 Max	13.15 Max	1.78 BSC	15.24 BSC	
DIP58	a	.280 Max	2.97 Max	.633 Max	.100 BSC	.600 BSC		7.11 Max	75.43 Max	16.07 Max	2.54 BSC	15.24 BSC	
DIP64	a	.300 Max	3.44 Max	.920 Max	.100 BSC	.900 BSC		7.62 Max	87.37 Max	23.37 Max	2.54 BSC	22.86 BSC	
	b	.200 Max	3.2 Max	.610 Max	.100 BSC	.600 BSC		5.08 Max	81.3 Max	16.49 Max	2.54 BSC	15.24 BSC	
	c	.200 Max	2.425 Max	.750 Max	.070 BSC	.750 BSC		5.08 Max	61.6 Max	19.05 Max	1.78 BSC	19.05 BSC	
	d	.180 Max	1.66 Max	.588 Max	.050 BSC	.600 BSC		4.57 Max	42.24 Max	14.95 Max	1.27 BSC	15.24 BSC	
DIP68	a	.085 .190	2.44 Max	.625 Max	.070 BSC	.600 BSC		2.16 4.83	61.97 Max	15.87 Max	1.78 BSC	15.24 BSC	
QUIP6	a	.135 .160	.210 .230	.260 .280	.080 BSC	.360 BSC	.640 BSC	3.43 4.06	5.33 5.84	6.60 7.11	2.03 BSC	9.14 BSC	16.25 BSC
QUIP8	a	.135 .160	.290 .340	.260 .280	.080 BSC	.360 BSC	.640 BSC	3.43 4.06	7.36 8.63	6.60 7.11	2.03 BSC	9.14 BSC	16.25 BSC
QUIP14	a	.235 Max	.785 Max	.240 .280	.100 BSC	.200 BSC	.400 BSC	5.97 Max	19.93 Max	6.09 7.11	2.54 BSC	5.08 BSC	10.16 BSC
	b	.235 Max	.770 Max	.270 Max	.100 BSC	.200 BSC	.300 BSC	5.97 Max	19.56 Max	6.86 Max	2.54 BSC	5.08 BSC	7.62 BSC

30. OUTLINE DRAWINGS

QUIP16	a	.200 Max	.866 Max	.280 Max	.100 BSC	.200 BSC	.400 BSC
	b	.200 Max	.870 Max	.260 Max	.100 BSC	.200 BSC	.300 BSC

QUIP16	a	5.08 Max	22.0 Max	7.11 Max	2.54 BSC	5.08 BSC	10.16 BSC
	b	5.08 Max	22.1 Max	6.6 Max	2.54 BSC	5.08 BSC	7.62 BSC

QUIP20	a	.200 Max	1.00 Max	.260 Max	.100 BSC	.200 BSC	.300 BSC

QUIP20	a	5.08 Max	25.65 Max	6.6 Max	2.54 BSC	5.08 BSC	7.62 BSC

QUIP48	a	.225 Max	1.29 Max	.560 Max	.050 BSC	.600 BSC	.800 BSC

QUIP48	a	5.72 Max	32.9 Max	14.23 Max	1.27 BSC	15.24 BSC	20.32 BSC

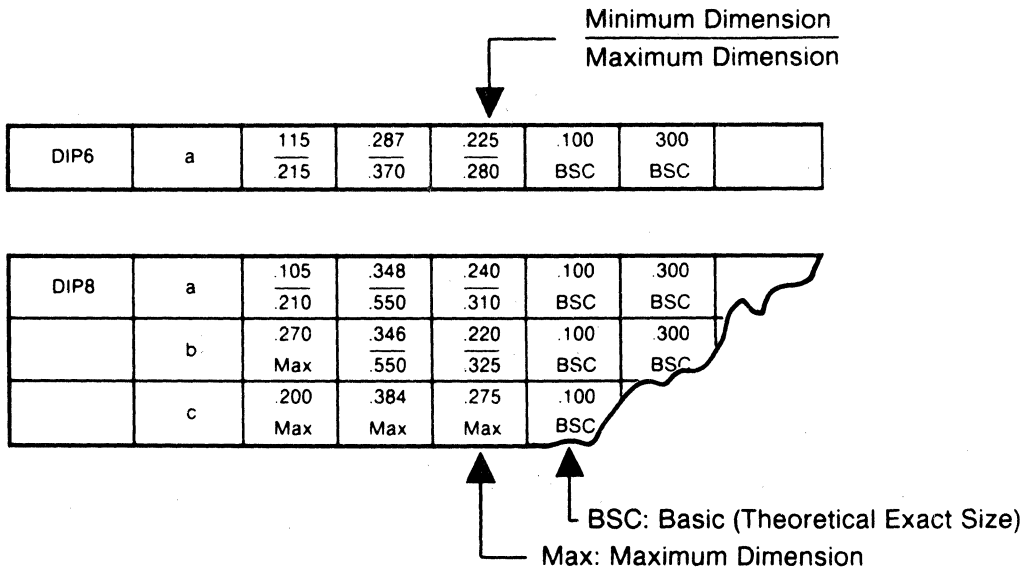
QUIP52	a	.115 Max	1.315 Max	.645 Max	.050 BSC	.750 BSC	.925 BSC

QUIP52	a	2.92 Max	33.4 Max	16.38 Max	1.27 BSC	19.05 BSC	23.49 BSC

QUIP64	a	.175 Max	1.65 Max	.656 Max	.050 BSC	.750 BSC	.950 BSC
	b	.180 Max	1.64 Max	.690 Max	.050 BSC	.750 BSC	.925 BSC

QUIP64	a	4.45 Max	42.0 Max	16.67 Max	1.27 BSC	19.05 BSC	24.13 BSC
	b	4.58 Max	41.66 Max	17.53 Max	1.27 BSC	19.05 BSC	23.49 BSC

How to use the Outline Drawing Charts



30. OUTLINE DRAWINGS

OUTLINE DRAWING COLUMN ——— (Letter Prefix)

The outline drawings are arranged by package type, serial number and variations. The following is an example:

FL 16 a
Package Type Serial Variation

CH – Unpackaged Die or Chip
CN – Metallic Can
DIP – Dual-Inline Package (DIP)
FP – Flatpack and Small Outline (SO)
LC – Leaded and Leadless Chip Carriers (LDCC and LLCC)
MD – Proprietary Modular Package
MO – JEDEC-Registered MO-series Package
MS – JEDEC-Registered MS-series Package
QUIP – Quad-Inline Package (QUIP)
PGA – Pin Grid Array (PGA)
SL – Single-Inline Package (SIP)
TO – JEDEC-Registered TO-series Package

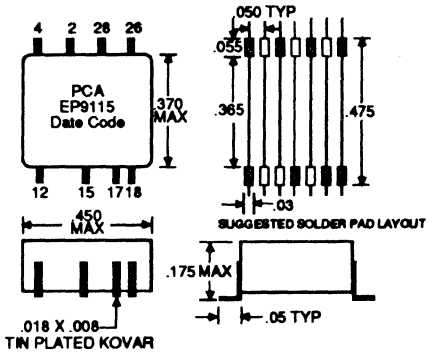
NOTES

The serial numbers of all DIPs, QUIPs, and SOs are the same as their pin count. The symbol to the right of any drawing number indicates that the dimensioned drawing is not yet available and that the serial number coincides with the pin count.

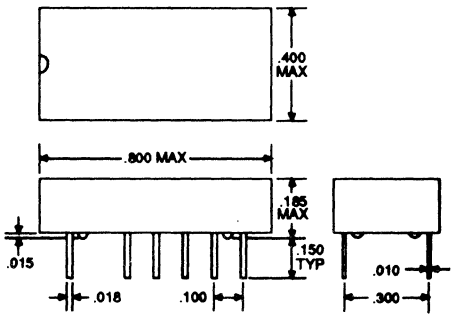
As processing and technology improve, many manufacturers refine their packages to offer new opportunities to component users. While the illustrations on the following pages are suitable for most reference, users requiring more accurate or more current packaging documentation are referred to their supplier.

All drawings shown are referenced in the Technical Sections of this D.A.T.A.BOOK and, with the exception of JEDEC-registered outlines, are reproduced from manufacturer literature. The "MO-" and "TO-" series drawings are reproduced from JEDEC Publication No. 95: JEDEC Registered and Standard Outlines for Solid State Products.

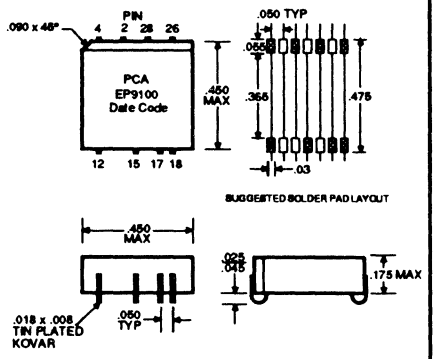
MD28a



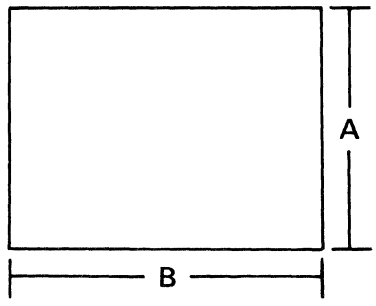
MD14o



LC286

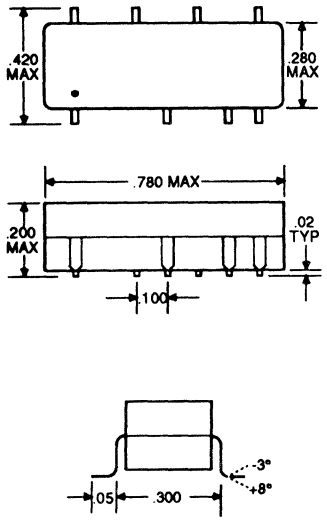


CH



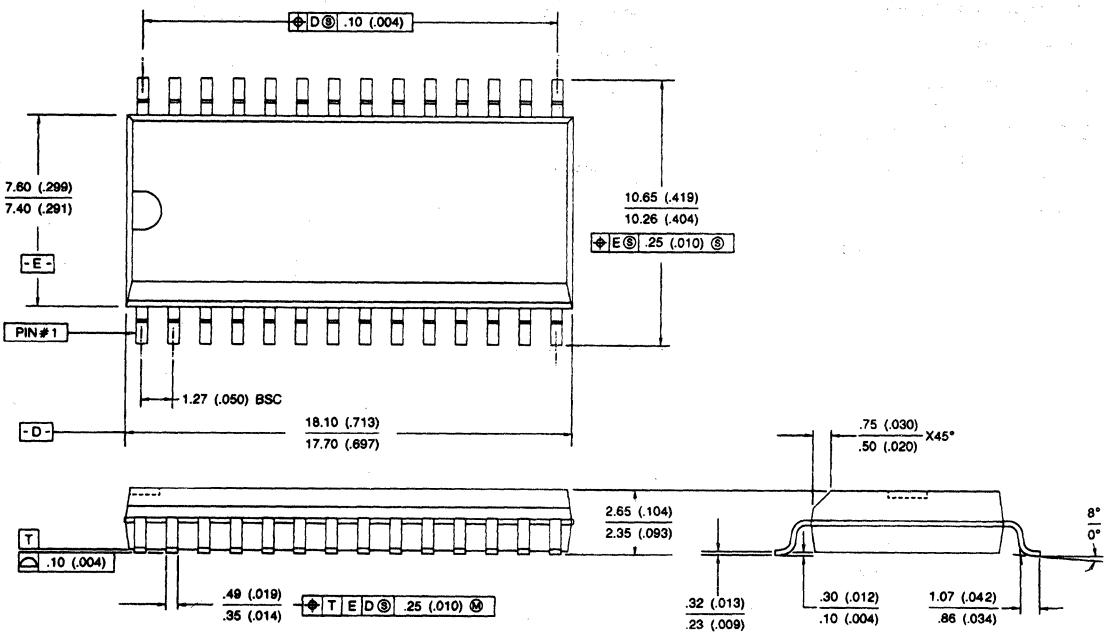
Suffix	A	B	No. of Pads
CH18	.064	.068	6
CH19	.067	.069	16
CH110	.083 .091	.095 .103	16
CH113	.150	.130	40
CH126	.066 .074	.074 .082	16
CH127	.072 .080	.097 .105	16
CH128	.069 .077	.111 .119	24
CH129	.094 .102	.104 .112	16
CH130	.091 .099	.105 .113	16
CH131	.122 .130	.093 .101	24
CH132	.055 .033	.055 .033	
CH133	.073	.089	20
CH134	5.1	5.6	28
CH135	.081	.096	14
CH136	.080	.111	16
CH137	.091	.108	14
CH138	.083	.099	14
CH139	.063	.074	14
CH140	.066	.119	20
CH141	.064	.084	16
CH142	.090	.100	18

MD14p



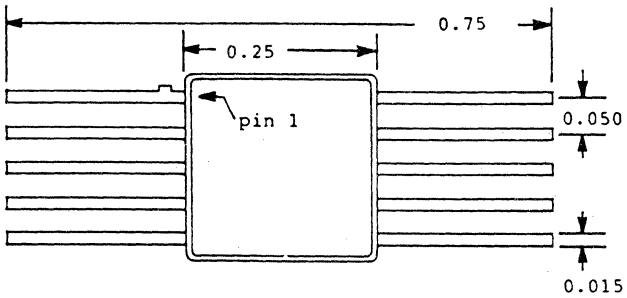
30. OUTLINE DRAWINGS

FP193



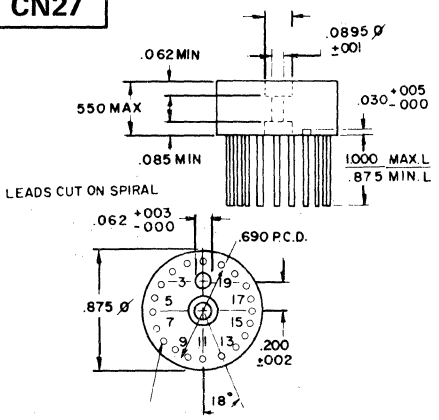
853-0006 081217

FP9

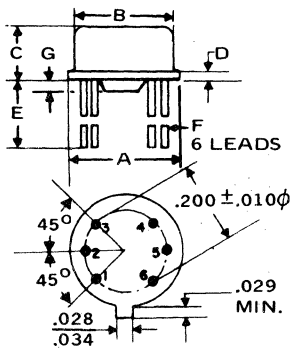


dimensions in inches

CN27



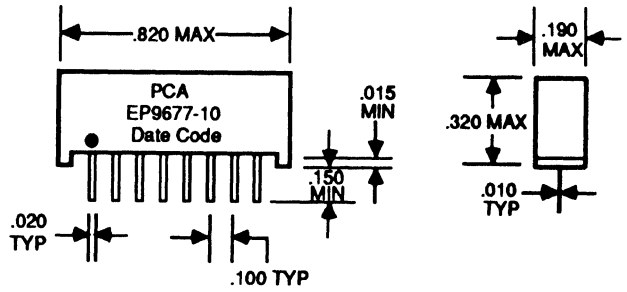
CN44



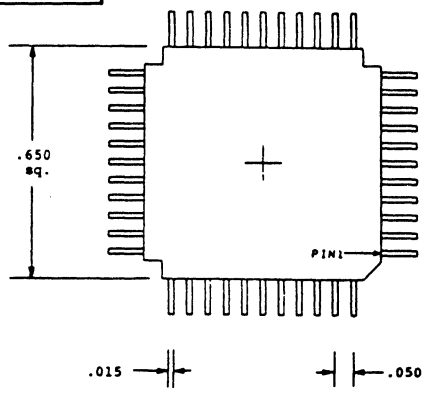
	A	B	C	D	E	F	G	NOTES
CN44	.290 .370	.290 .335	.160 .180	.062 .125	1.50 MIN	.016 .019	NA	
CN44a	.335 .370	.305 .335	.165 .185		.500 MIN	.016 .021	NA	
CN44b	.360	.326 MAX	.255 MAX		.500 MIN	.017 DIA	.015 .040	GLASS STAND OFF

30. OUTLINE DRAWINGS

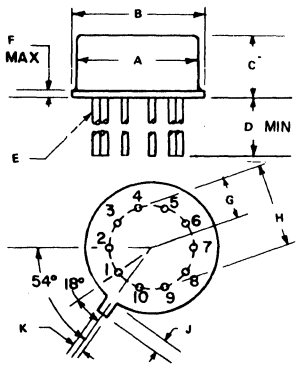
SL8E



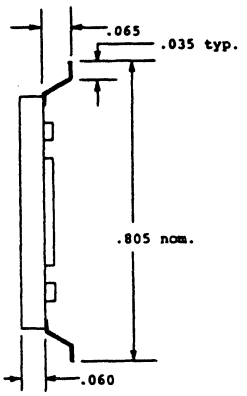
LC44-1



CN58



	A	B	C	D	E	F	G	H	J	K
CN58	.305 .333	.335 .370	.160 .180	.500 MIN	.016 .019	.040 MAX	.100	.200	.029 .045	.028 .034
CN58a	.305 .335	.340 .370	.165 .185	.500 MIN	.016 .019	.010 .080			.029 .042	.028 .034
CN58b	.334 MAX	.369 MAX	.184 MAX	.500 MIN	.018 MAX			.200	.039 MAX	.033 MAX

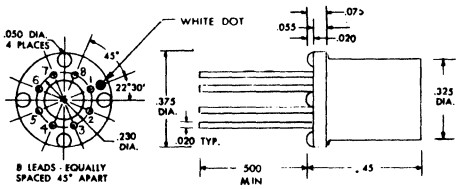


(dimensions in inches)

MS001AB

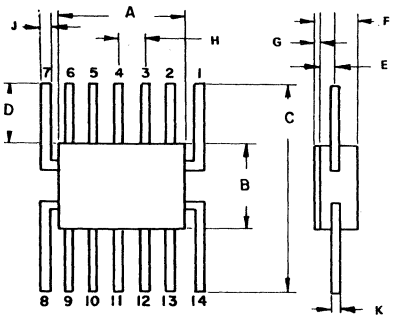
SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN.	MAX.	MIN.	MAX.	
A	—	0.210	—	5.33	9
A_1	0.015	—	0.39	—	9
A_2	0.115	0.195	2.93	4.95	
B	0.014	0.022	0.356	0.558	
B_1	0.045	0.070	1.15	1.77	3
C	0.008	0.015	0.204	0.381	
D	0.348	0.430	8.84	10.92	4
D_1	0.005	—	0.13	—	12
E	0.300	0.325	7.62	8.25	5
E_1	0.240	0.280	6.10	7.11	6, 7
e	0.100 BSC		2.54 BSC		8
e_A	0.300 BSC		7.62 BSC		9
e_B	—	0.430	—	10.92	10
L	0.115	0.160	2.93	4.06	9
N	8		8		11

CN76



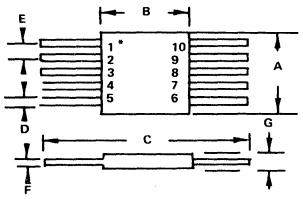
30. OUTLINE DRAWINGS

FP21



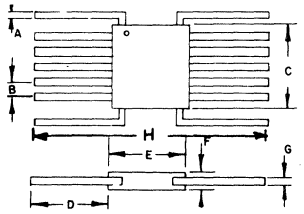
	A	B	C	D	E	F	G	H	J	K
FP-21	.250	.250	.774 MAX	.262	.025	.060	.010	.050	.013 .019	.004
FP-21b	.240 .270	.165 .195	.865 .895							
FP-21c	.250	.175			.020	.060	.010			.004
FP-21d	.255	.255	.795	.270	.023	.047		.050		.006
FP-21e	.257 REF	.165 MAX	.500 TYP			.055 MAX		.050 TYP		.005 .003
FP-21f	.260 MAX	.260 MAX	1.00	.250 MIN		.070 MAX		.050	.015 .019	.004 .006
FP-21g	.240 .270	.165 .195	.865 .895			.065 MAX		.045 .055	.014 .017	.0035 .0055
FP-21h	.240 .270	.240 .270		.250 .370	.020 .030	.050 .070		.045 .055	.015 .019	.004 .006

FP26



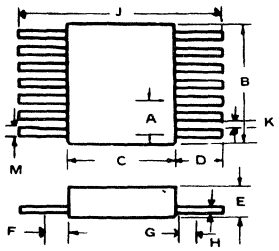
	A	B	C	D	E	F	G
FP26	.245 .255	.240 .265	.740 .760				
FP26a	.230 MAX	.240 .265	.740 .760				
FP26b	.260 MAX	.260 MAX	.780 MAX				
FP26c	.255 .275	.365 .385	.552 .634				
FP26d	.245 .255	.240 .260	.760 .780	.014 .019	.045 .055	.0035 .0055	.065 MAX
FP26e	.275 MAX	.250 REF	.750 TYP				.060 MAX
FP26f	.240 .270	.240 .270		.015 .019	.045 .055		.040 .070
FP26g	.265	.265		.003 .016	.030	.001 .005	.070 MAX
FP26h	.240 .270	.120 .260	.490 1.000	.010 .019	.050 T.P.	.003 .006	.030 .090
FP26j	.253 .273	.147 .167	.665 .685	.014	.050	.0047 .0053	.065 .075
FP26k	.240 .260	.240 .260		.015 .019	.045 .055	.0035 .0065	.050 .060

FP28



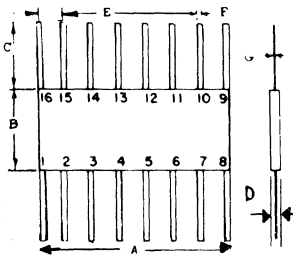
	A	B	C	D	E	F	G	H
FP28		.050	.260	.188	.260	.050		
FP28b	.019	.050	.260	.370	.260	.080	.006	
FP28c	.015 .020	.050	.240 .260	.280 .370	.240 .260	.050 .065	.003 .006	
FP28e	.472		.250 REF		.125 REF	.055 MAX	.157	.500 TYP
FP28f	.014 .019	.045 .055	.240 .260		.240 .260	.065 MAX	.003 .005	.950 MAX
FP28g	.015 .019	.047 .055	.240 .259	.248 MIN	.240 .259	.051 .059	.003 .005	
FP28h	.017	.100	.289 MAX	.118 MIN	.289 MAX	.059	.003	.525

FP39



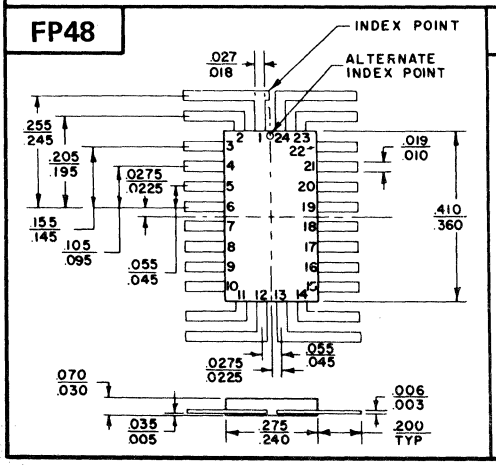
	A	B	C	L	E	F	G	H	J	K	K
FP39	.100	.500 MAX	.500 MAX	.250 MIN	.150 MAX						
FP39a	.100	.205 MAX	.375 MAX	.250 MIN							
FP39b		.330 .350	.240 .260	.230 .250	.051 .065	.030	.020	.004 .006	.730 .750	.045 .055	.012 .038
FP39c		.360 .410	.240 .275	.200	.030 .070			.003 .006			.016 .019
FP39d		.360 .410	.240 .275	.070 MIN	.030 .070	.015 MAX	.015 MAX	.003 .006			.010 .019
FP39e		.330 .350	.240 .260	.295 .315	.050 .080	.030	.030	.004 .006	.840 .860		.010 .028
FP39f		.375	.375	.500	.120 MAX			.010	1.375		.016
FP39g		.480 .520	.480 .520	.500	.125 MAX			.008 .012	1.480 MAX		.013 .018
FP39h		.330 .350	.240 .260	.250 .370	.049 .070	.030 TYP	.020 TYP	.003 .006	.735 MIN	.045 .055	.010 .019

FP47

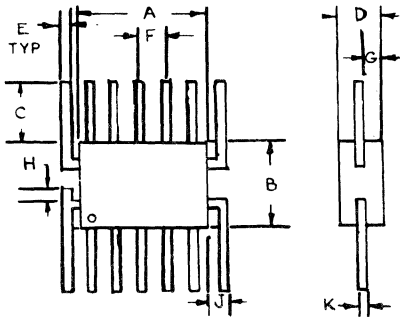


	A	B	C	D	E	F	G
FP47	.360	.275	.070 MIN	.070	.050		
FP47a	.400	.270	.370	.065	.050	.019	.006
FP47b	.371 .409	.247 .283	.250 .350	.065 .090	.050	.015 .019	.004 .006
FP47c	.940 .960	.245 .275	.330 .370	.040 .070	.040 .060	.015 .019	.003 .004
FP47d	.413 MAX	.275 MAX	.066 MAX	.070	.050		
FP47e	.370 .410	.285 MAX	.290 MIN	.049 .080	.045 .055	.015 .020	.003 .006
FP47f	.370 .395	.245 .275	.330 .370	.040 .070	.040 .060	.015 .019	.003 .004
FP47g	.370 .395	.245 .275	.330 .370	.050 .080	.045 .055	.015 .019	.004 .006
FP47h	.368 .392	.245 .265	.341 .359	.081	.050		.004 .006
FP47j	.410 MAX	.245 .285	.300 .370	.045 .080	.045 .055	.015 .019	.009 .011

FP48



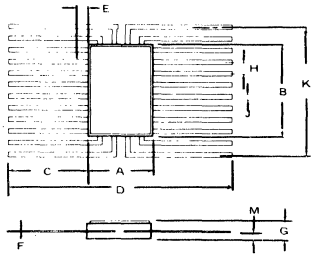
FP52



	A	B	C	D	E	F	G	H	J	K
FP52	.240 .260	.240 .260	.370 MAX	.050 .065	.016 .022	.045 .055	.022 .032	.010 .014	.028 .038	.004 .006
FP52a	.255 MAX	.255 MAX	.270	.047 MAX	.015 .019	.045 .055	.023 MAX			.006 MAX
FP52b	.265 MAX	.265 MAX		.060 MAX	.016 .019					.004 .006
FP52c	.240 .270	.240 .275	.225 MIN	.040 .070	.010 .019	.050	.018 .030	.015 MAX		.003 .006
FP52d	.240 .260	.240 .260	.250 .370	.030 .070	.010 .019	.050	.010 .035	.010 .015		.003 .006
FP52e	.250 .260	.140 .150	.280 .300 REF	.035 .050	.015 .019	.050 TP	.008 .018			.003 .005
FP52f	.250 .260	.140 .150	.165 .175 REF	.035 .050	.010 .018	.050 TP	.008 .018			.003 .005
FP52g	.241 .260	.241 .260	.240 .260	.070 MAX	.010 .015	.050	.001 .003			.004 .008
FP52h	.240 .275	.240 .275	.250 MIN	.030 .080	.010 .019	.050 BSC	.005 .035	.015 MAX	.010 MIN	.003 .006
FP52j	.240 .260	.240 .260	.250 .370	.055 .080	.015 .019	.050 TYP	.025 TYP			.004 .006
FP52k	.240 .260	.170 .200	.250 .370	.055 .080	.015 .019	.050 TYP	.025 TYP			.004 .008

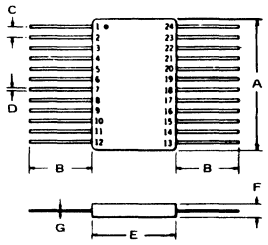
30. OUTLINE DRAWINGS

FP59



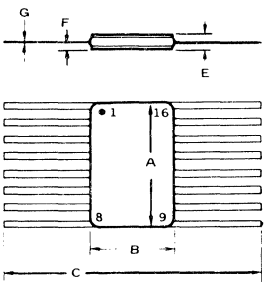
	A	B	C	D	E	F	G	H	J	K	M
FP59	.250	.375	.495			.0035 .0045	.054 .064	.050	.017		
FP59a	.270 MAX	.390 MAX		.900 .980		.0035 .0045	.054 .064	.050	.017		
FP59b	.245 .275	.370 .395	.330 .370	.940 .960	.020	.004 .006	.050 .060	.040 .060	.015 .019	.540 .560	.020 .031
FP59c	.245 .275	.370 .395	.330 .370	.940 .960	.020	.003 .006	.055 .065	.040 .060	.015 .019	.540 .560	.020 .040

FP66



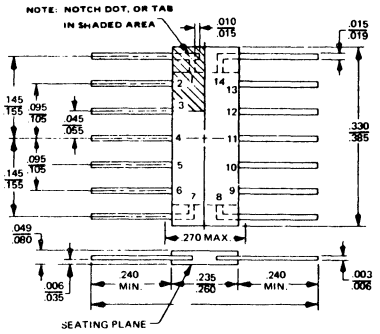
	A	B	C	D	E	F	G
FP66	.590 .640	.250 .350	.050	.015 .019	.370 .420	.050 .075	.004 .006
FP66a	.620 MAX	.250 .350	.050	.015 .019	.365 .395	.065 .090	.004 .006
FP66b	.580 .620	.265 .320	.045 .055	.015 .019	.360 .385	.050 .090	.004 .006

FP79

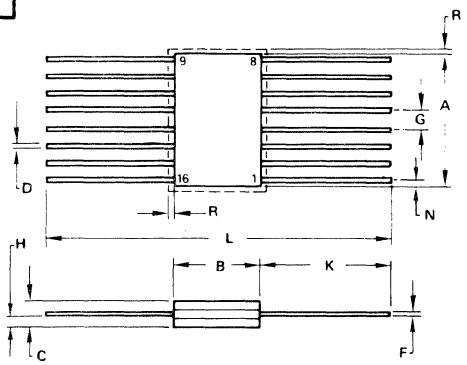


	A	B	C	D	E	F	G
FP79	.365 .368	.248 .275	.930 .980	.018 .021	.047 .067		.003 .005
FP79a	.370 .395	.245 .275	.940 .960	.015 .019	.040 .070	.011 .039	.003 .005
FP79b	.380 .410	.250 .280	.900 .980	.014 .019	.030 .070	.010 .035	.003 .006
FP79c	.396	.280 MAX	.985 MAX	.019 MAX	.078	.014	.006 MAX

FP80



FP85

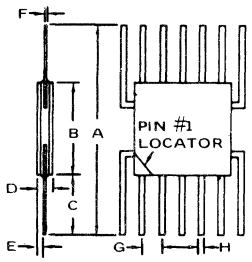


DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	9.40	10.16	0.370	0.400
B	6.22	6.60	0.245	0.260
C	1.52	2.03	0.060	0.080
D	0.38	0.48	0.015	0.019
F	0.08	0.15	0.003	0.006
G	1.27 BSC		0.050 BSC	
H	0.64	0.89	0.025	0.035
K	6.35	9.40	0.250	0.370
L	18.92	--	0.745	--
N	--	0.51	--	0.020
R	--	0.38	--	0.015

NOTES
1. LEAD NO. 1 IDENTIFIED BY TAB ON LEAD OR DOT ON COVER.
2. LEADS WITHIN 0.13 mm (0.005) TOTAL OF TRUE POSITION AT MAXIMUM MATERIAL CONDITION.

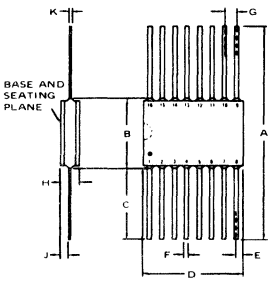
FP87

DOTTED SECTION FOR FP87a ONLY.



	A	B	C	D	E	F	G	H
FP87	.750	.260 MAX	.250 MIN	.070 MAX	.025	.004 .006	.050	.015 .019
FP87a	.750 .770	.275 MAX		.080 MAX	.020 .040	.004 .006	.045 .055	.015 .019

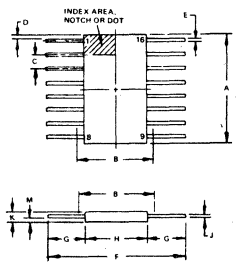
FP88



	A	B	C	D	E	F	G	H	J	K	REMARKS
FP88	.940 .960	.247 .275	.350 .370	.015 .019	.610 .625	.015 .019	.050	.050 .080	.020 .040	.003 .006	NC NOTCH
FP88a	.940 .960	.300 MAX		.015 .019	.610 .625	.015 .019	.045 .055	.050 .080	.020 .040	.004 .006	NOTCH
FP88b	.880 .900	.275 MAX		.015 .019	.007 .013	.015 .019	.045 .055	.080 MAX	.020 .040	.004 .006	NC NOTCH
FP88c	.880 .900	.280		.410 MAX	.005 MIN	.015 .019	.045 .055	.085 MAX	.010 .020	.004 .006	NC NOTCH

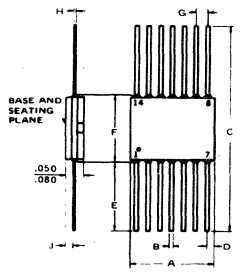
30. OUTLINE DRAWINGS

FP93



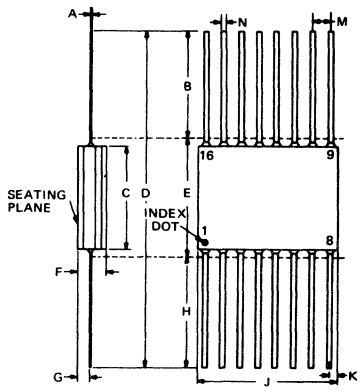
	A	B	C	D	E	F	J	H	J	K	M
FP93	.380 .434	.300 MAX	.050	.010 .030	.015 .019	.750 MAX	.250 .370	.250 .280	.003 .006	.049 .080	.010 .035
FP93a	.360 .490	.305 MAX	.045 .055		.015 .019	.750 MIN	.250 MIN	.250 .285	.003 .006	.049 .080	.010 .035
FP93b	.440 MAX	.305 MAX	.050		.015 .020	.745 MIN	.250 .370	.245 .285	.003 .006	.045 .085	.009 .040
FP93c	.370 .410		.050		.015 .019		.250 .350	.245 .280	.004 .006	.060 .075	.024

FP97



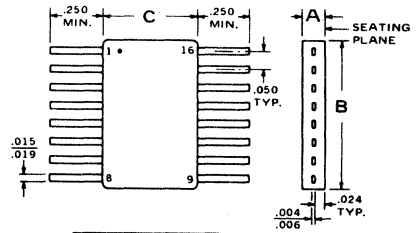
	A	B	C	D	E	F	G	H	J
FP97	.390 MAX	.013 .019	.840 .860	.010 .025	.270 .325	.275 MAX	.050 TYP	.003 .006	.020 .040
FP97a	.337 .350	.015 .019	.840 .860	.010 .025	.270 .325	.275 MAX	.050 TYP	.003 .006	.020 .040
FP97b	.385 MAX	.015 .019	.750 .770	.030 .045	.247 MAX	.275 MAX	.045 .055	.004 .006	.020 .040
FP97c	.337 .350	.015 .019	.840 .860	.010 .025	.292 TYP	.275 MAX	.045 .055	.004 .006	.020 .040

FP98



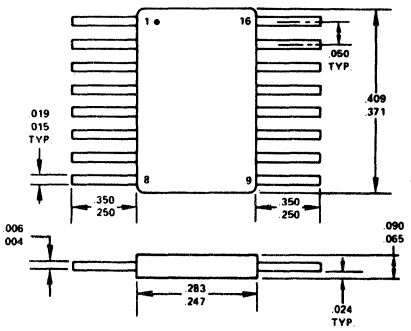
	A	B	C	D	E	F	G	H	J	K	M	N
FP98	.003 .006	.310 .350		.940 .960	.275 MAX	.050 .080	.020 .040	.210 .350	.371 .400	.025 MAX	.050 TYP	.013 .019
FP98a	.003 .006	.275 .325	.245 .275	.850 .950	.300	.050 .080	.015 .035	.275 .325	.375 .395	.026 MAX	.050 T.P.	.015 .019
FP98b	.003 .006	.310 .350	.247 .285	.940 .960	.300	.050 .080	.020 .040	.310 .350	.371 .400	.010 .025	.050 TYP	.015 .019

FP101

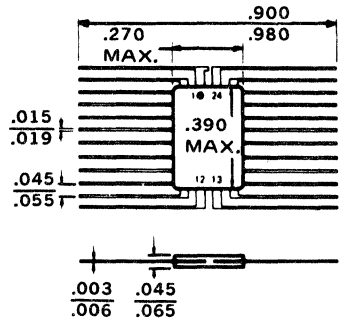


	A	B	C
FP101	.060 .075	.371 .409	.247 .283
FP101a	.049 .090	.371 .409	.247 .283
FP101b	.055 .080	.371 .400	.247 .285

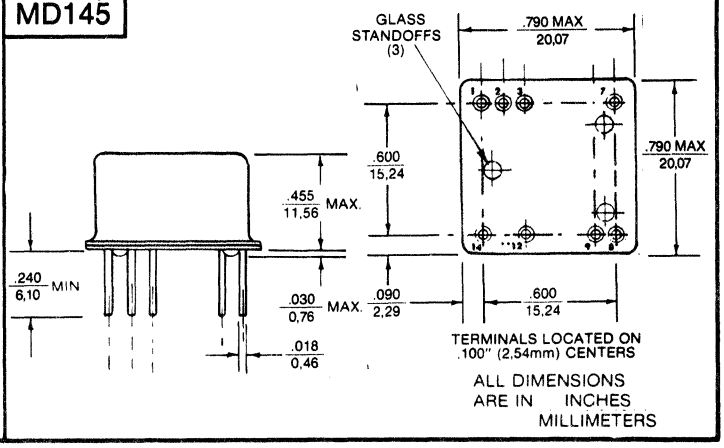
FP103



FP105

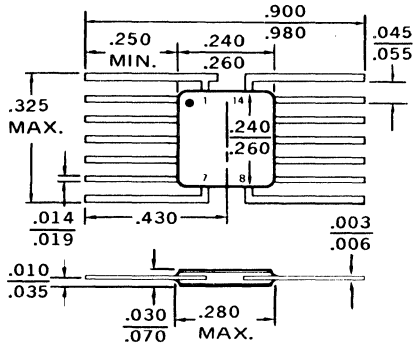


MD145

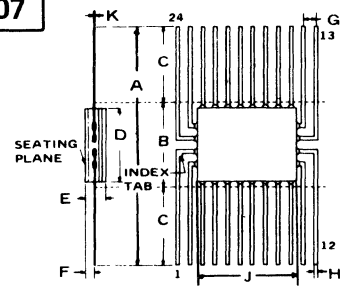


30. OUTLINE DRAWINGS

FP106

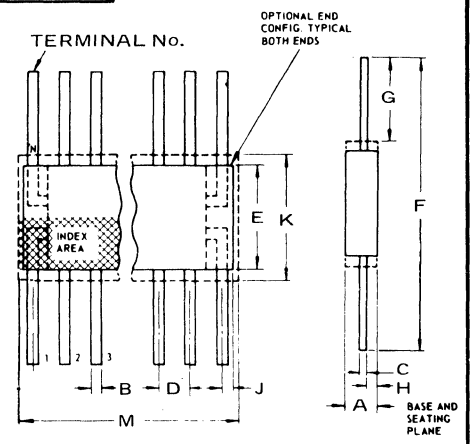


FP107



	A	B	C	D	E	F	G	H	J	K
FP107	.850 .950	.300	.275 .325	.240 .275	.050 .080	.015 .035	.050	.015 .019		.003 .006
FP107a	.880 .900	.275 MAX			.080 MAX	.020 .040	.045 .055	.015 .019	.390 MAX	.004 .006

FP109

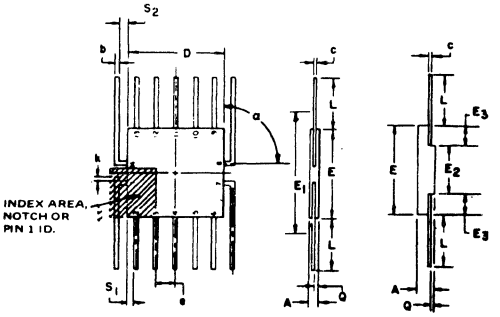


F109	.075 .120	.015 .022	.004 .007	.050	.600 .700	1.15 1.35	.225 .325	.035 .070	.060 .110	.700	.750	24
F109a	.075 .120	.015 .022	.004 .007	.050	.600 .700	1.15 1.35	.225 .325	.035 .070	.060 .110	.700	.750	28

NOTES:
1. Refer to JEDEC Publication No. 13 for Rules for Dimensioning Peripheral Lead Outlines.
2. Leads within 0.005" (0.12 mm) radius of True Position (TP) at maximum material condition.
3. N is the maximum quantity of lead positions.
4. Z and Z1 determine a zone within which all body and lead irregularities lie.

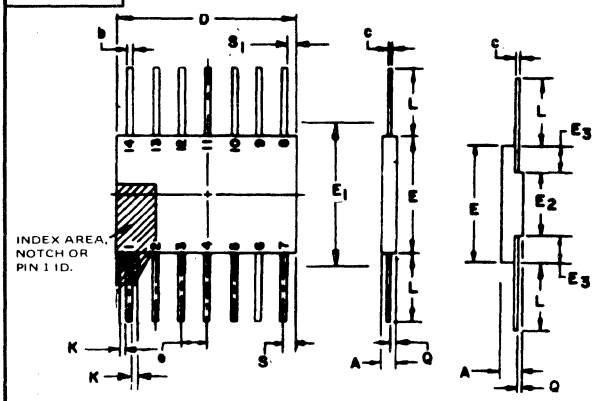
FP115

OPTIONAL CONFIGURATION — IF USED, NO ORGANIC OR POLYMERIC MATERIALS SHALL BE MOLDED TO BOTTOM OF THE PACKAGE TO COVER THE LEADS.



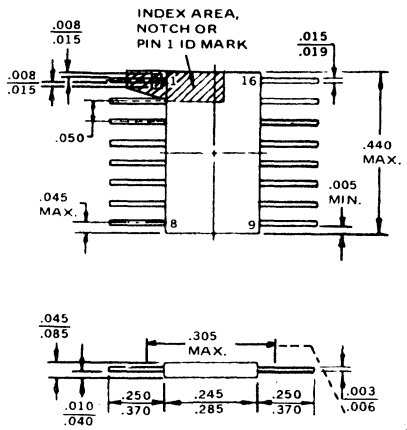
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	.030	.085	.76	2.16
b	.010	.019	.25	.48
c	.003	.006	.08	.15
D		.280		7.11
E	.240	.260	6.10	6.60
E_1		.280		7.11
E_2	.125		3.18	
E_3	.030		.76	
e	.050 BSC		1.27 BSC	
k	.008	.015	.20	.38
L	.250	.370	6.35	9.40
Q	.010	.040	.25	1.02
S	.005		.13	
S_2	.004		.10	
α	30°	90°	30°	90°

FP116

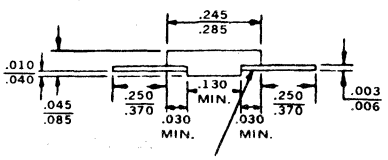


SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	.045	.085	1.14	2.16
b	.010	.019	.25	.48
c	.003	.006	.08	.15
D		.390		9.91
E	.235	.260	5.97	6.60
E_1		.280		7.11
E_2	.125		3.18	
E_3	.030		.76	
e	.050 BSC		1.27 BSC	
K	.008	.015	.20	.38
L	.250	.370	6.35	9.40
Q	.010	.040	.25	1.02
S		.045		1.14
S_1	.005		.13	

FP117



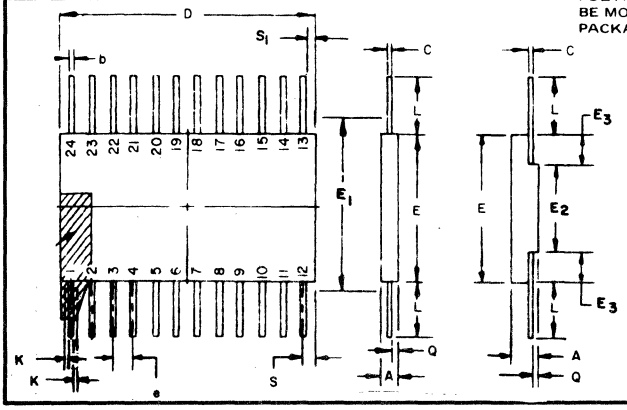
ALLOWS FOR OFF-CENTER LID, MENISCUS AND GLASS OVERRUN



OPTIONAL CONFIGURATION — IF IT IS USED, NO ORGANIC OR POLYMERIC MATERIALS SHALL BE MOLDED TO THE BOTTOM OF THE PACKAGE TO COVER THE LEADS.

FP118

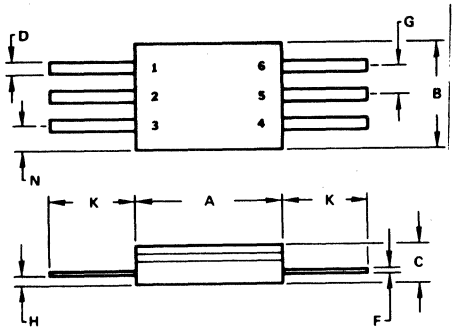
OPTIONAL CONFIGURATION — IF USED, NO ORGANIC OR POLYMERIC MATERIALS SHALL BE MOLDED TO BOTTOM OF THE PACKAGE TO COVER THE LEADS.



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	.045	.090	1.14	2.29
b	.015	.019	.38	.48
c	.003	.006	.08	.15
D		.640		16.26
E	.360	.420	9.14	10.67
E_1		.440		11.18
E_2	.195		4.95	
E_3	.030		.76	
e	.050 BSC		1.27 BSC	
K	.008	.015	.20	.38
L	.250	.370	6.35	9.40
Q	.010	.040	.25	1.02
S		.045		1.14
S_1	.005		.13	

30. OUTLINE DRAWINGS

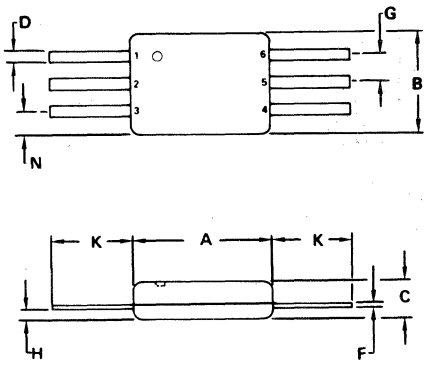
FP121



DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	5.97	7.11	0.235	0.280
B	4.32	5.72	0.170	0.225
C	1.17	1.91	0.046	0.075
D	0.25	0.51	0.010	0.020
F	0.08	0.15	0.003	0.006
G	1.27 BSC		0.050 BSC	
H	0 13	0.89	0.005	0.035
K	1.90	3.05	0.075	0.120
N	0.89	1.52	0.035	0.060

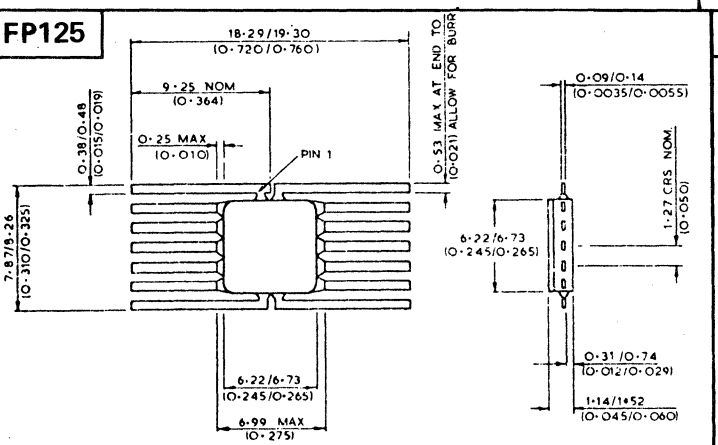
NOTES:
1. LEADS, TRUE POSITIONED WITHIN 0.13 mm (0.005) RADIUS TO DIM "A" & "B" AT MAXIMUM MATERIAL CONDITION.

FP122

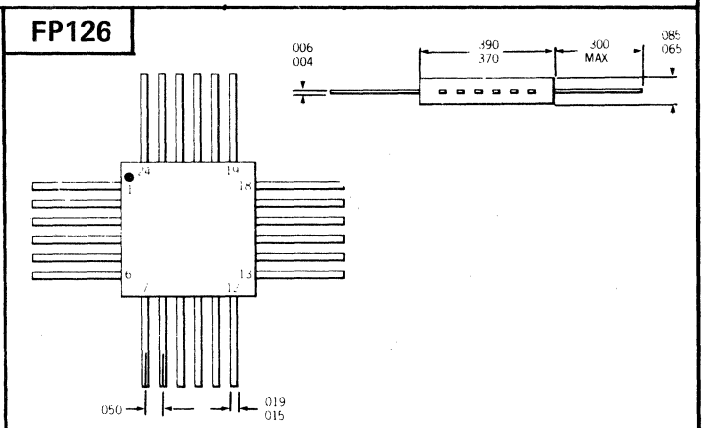


DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	5.69	6.35	0.224	0.250
B	4.06	5.08	0.160	0.200
C	1.17	1.90	0.046	0.075
D	0.38	0.51	0.015	0.020
F	0.20	0.30	0.008	0.012
G	1.22	1.32	0.048	0.052
H	0.13	0.89	0.005	0.035
K	2.34	2.84	0.092	0.112
N	0.89	1.14	0.035	0.045

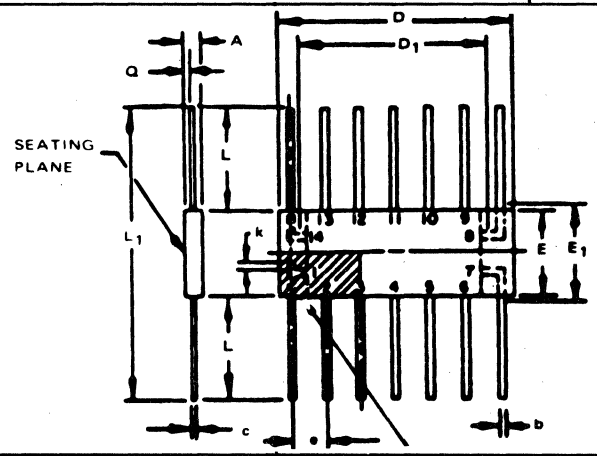
FP125



FP126

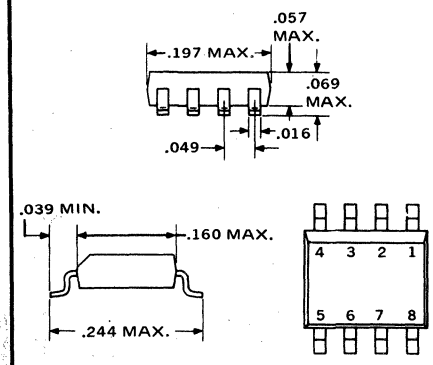


FP127

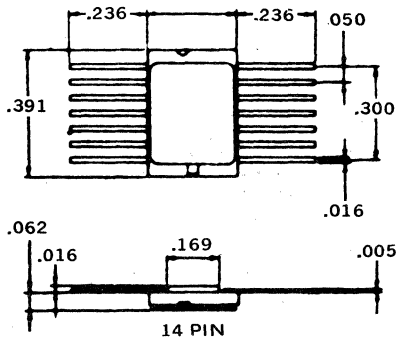


SYMBOL	INCHES MIN	INCHES MAX	MILLIMETERS MIN	MILLIMETERS MAX
A	0.030	0.090	0.76	2.29
b	0.010	0.019	0.25	0.48
c	0.003	0.006	0.076	0.152
D	0.240	0.375	6.10	9.53
D_1		0.270		6.86
E	0.120	0.260	3.05	6.61
E_1		0.270		6.86
e	0.050 T.P.		1.27 T.P.	
k		0.015		0.38
L	0.165	0.370	4.19	9.40
L_1	0.490	1.000	12.45	25.40
Q	0.005	0.050	0.13	1.27

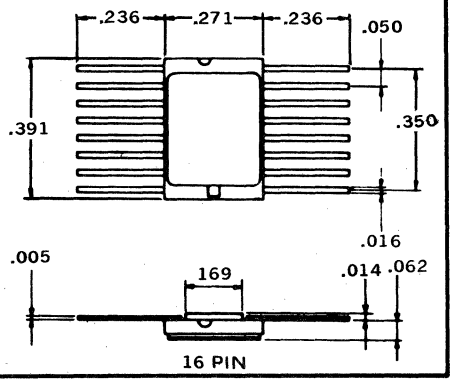
FP129



FP130

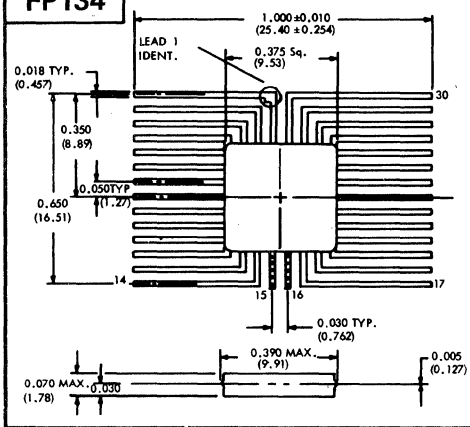


FP131



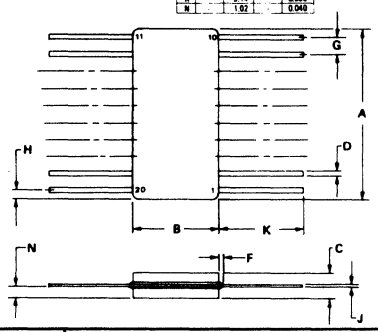
30. OUTLINE DRAWINGS

FP134

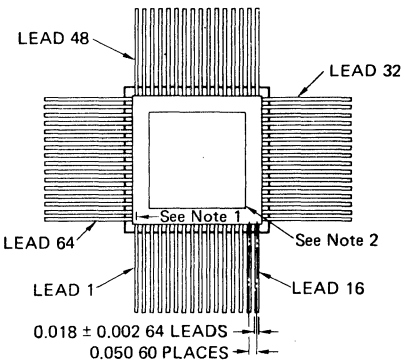


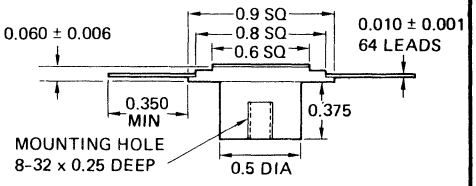
FP136

DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A		13.08		0.515
B	5.84	6.60	0.230	0.260
C	1.52	2.16	0.060	0.085
D	0.41	0.46	0.016	0.018
F		0.25		0.010
G	1.27 BSC		0.050 BSC	
H	1.14	1.40	0.045	0.055
J	0.08	0.13	0.003	0.005
K		9.14		0.360
N		1.02		0.040



FP137

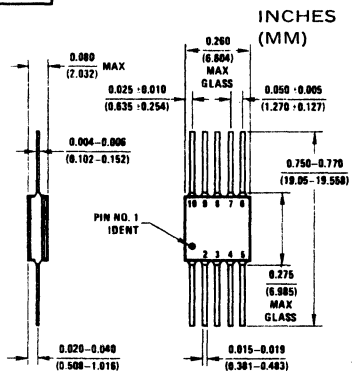




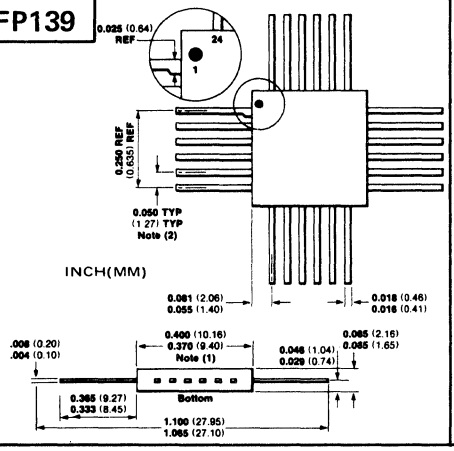
(DIMENSIONS IN INCHES)

1. Top View Pin Index Number
2. Unit Identification
3. All V_{CC} and GND must be externally connected

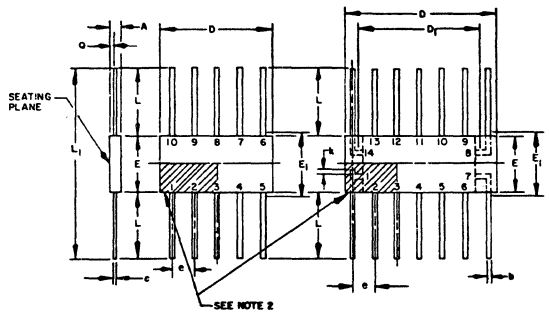
FP138



FP139



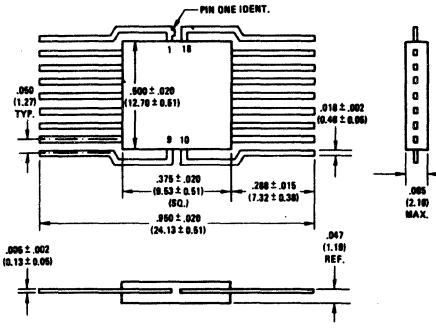
FP140



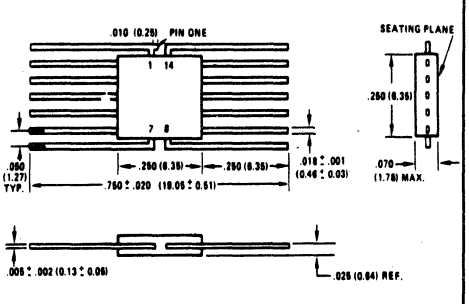
SYMBOL	INCHES MIN	INCHES MAX	MILLIMETERS MIN	MILLIMETERS MAX	NOTES
A	.030	.090	.76	2.29	
b	.010	.019	.25	.48	
c	.003	.006	.08	.15	
D	.240	.375	6.10	9.53	
D_1		.270		6.86	4
E	.120	.260	3.05	6.60	
E_1		.270		6.86	4
e	.045	.055	1.14	1.40	5
k		.015		.38	
L	.230	.370	5.84	9.40	
L_1	.490	1.000	12.45	25.40	
Q	.005	.050	.13	1.27	3

NOTES:
1. Dimensions shall be measured in inches. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
2. Index area; a notch or a dot shall be located adjacent to pin 1 and shall be within the shaded area delimited by pin 3 and package center. Alternately, a tab (dim. k) may be used to identify lead no. 1.
3. Dimension Q shall be measured at the point of exit of the lead from the body.
4. This dimension allows for off-center lid, meniscus and glass overrun.
5. The true-position pin spacing is .050 (1.27 mm) between centerlines. Each pin centerline is located within ± .005 (.13 mm) of its true longitudinal position relative to pins 1 and 10 of outline A and pins 1 and 14 of outline B.
6. Equipment designers should allow for interchangeable replacement of any size package that could be supplied to this specification.

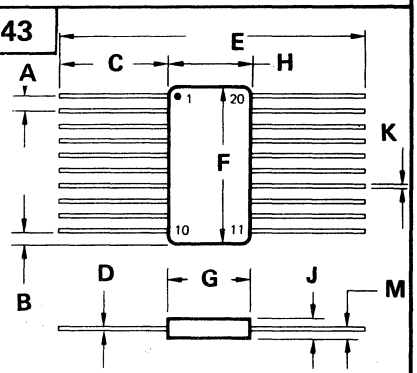
FP141



FP142



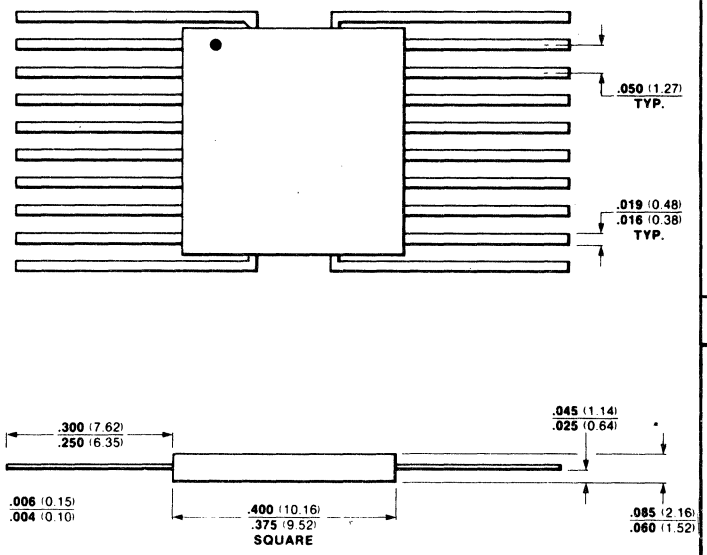
FP143



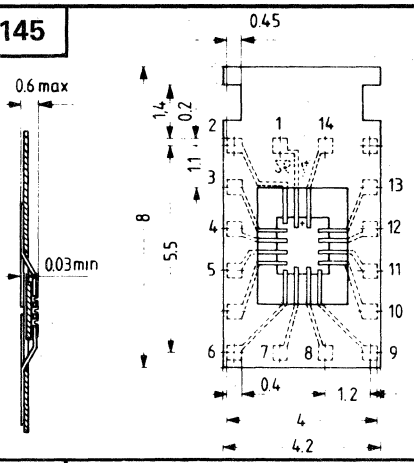
	A	B	C	D	E	F	G	H	J	K	M
FP143	.045 .055	.005 MIN	.335 .370	.004 .006	.925 .995	.490 .520	.290 MAX	.245 .285	.045 .085	.015 .019	.020 .040
FP143a	.050	.005 MIN	.359 MAX	.004 .006	.966	.517 MAX	.305 MAX	.283 MAX	.079	.019 MAX	.014

30. OUTLINE DRAWINGS

FP144

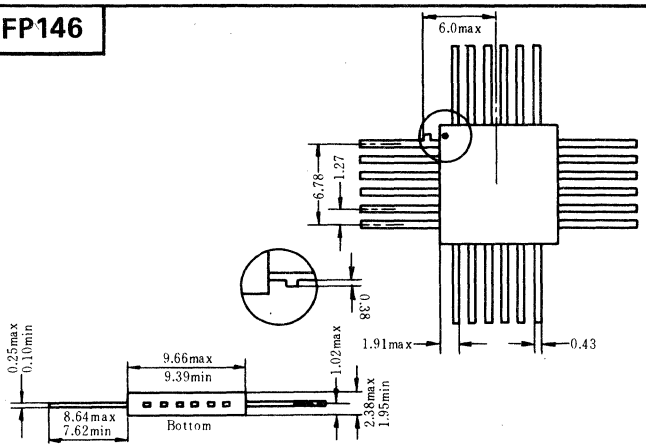


FP145

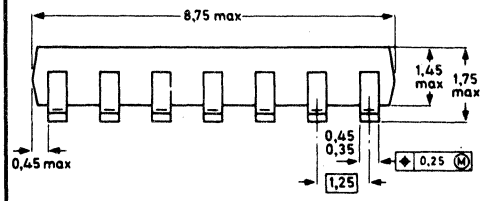


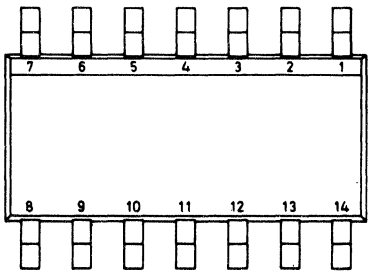
Micropack
14 pins
Dimensions of perforartion
as per DIN 15 851, sheet 2

FP146

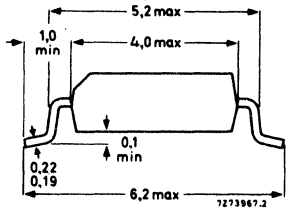


FP147





top view

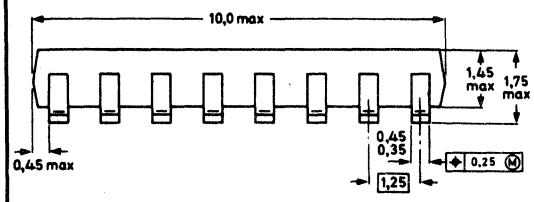


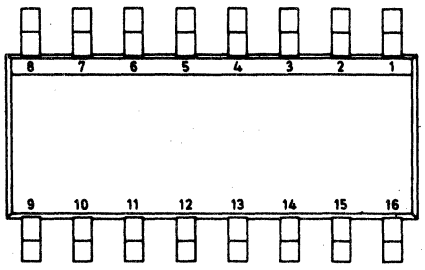
Dimensions in mm

⊕ Positional accuracy.

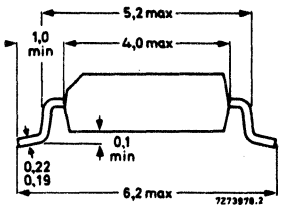
Ⓜ Maximum Material Condition.

FP148





top view



Dimensions in mm

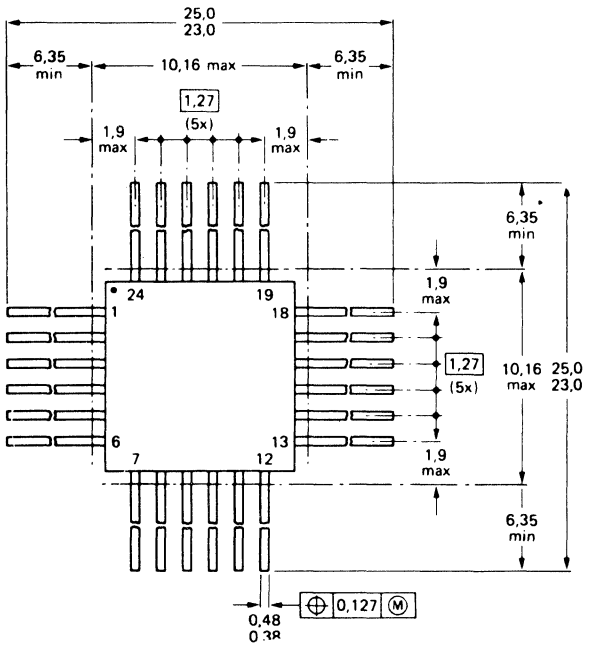
⊕ Positional accuracy.

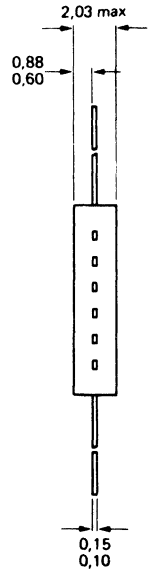
Ⓜ Maximum Material Condition.

30. OUTLINE DRAWINGS

FP149

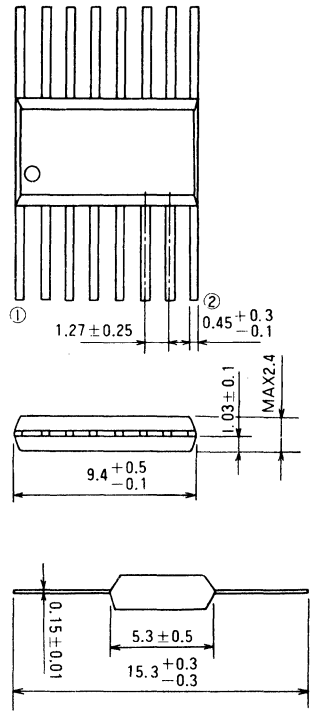
Dimensions in mm



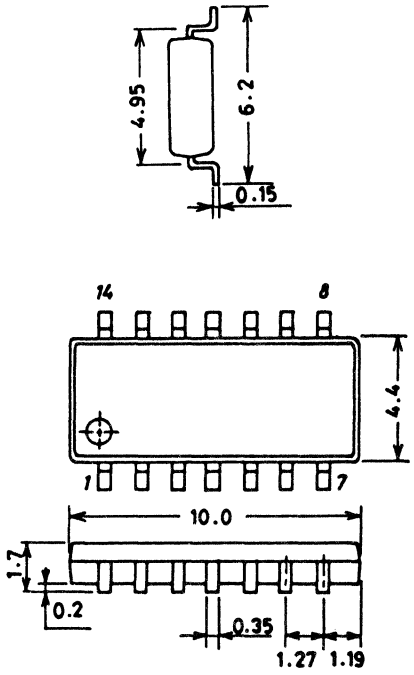


⊕ Positional accuracy.
Ⓜ Maximum Material Condition.

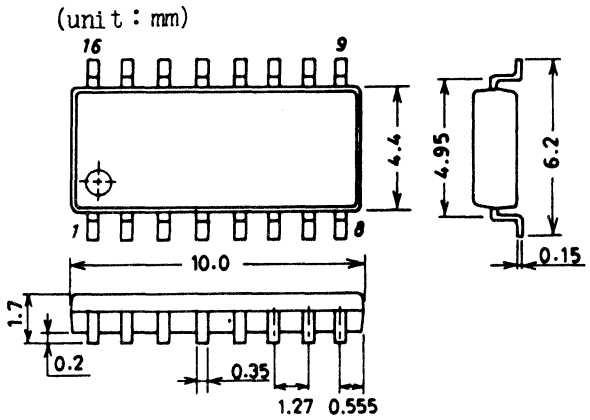
FP150



FP151

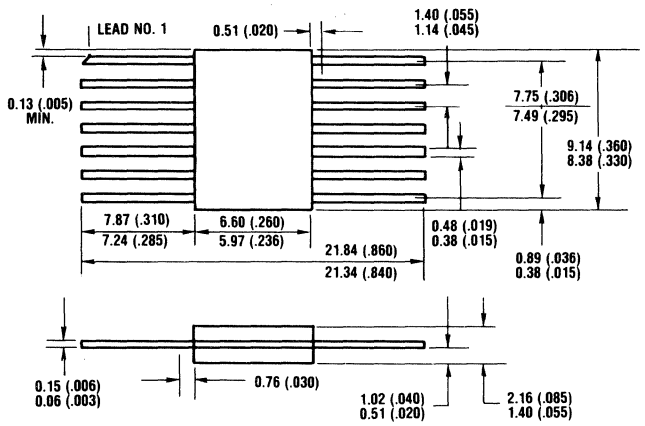


FP152

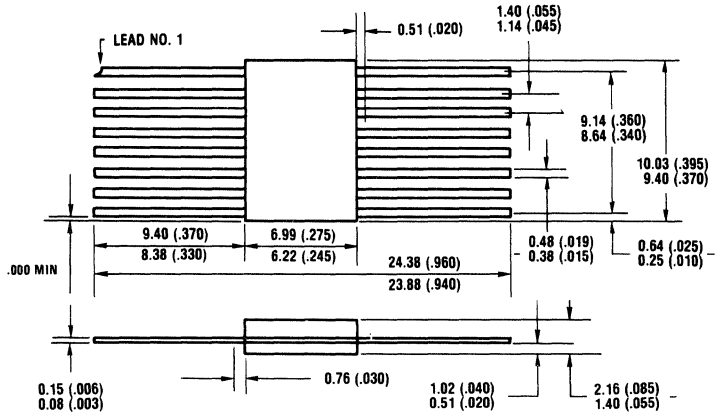


30. OUTLINE DRAWINGS

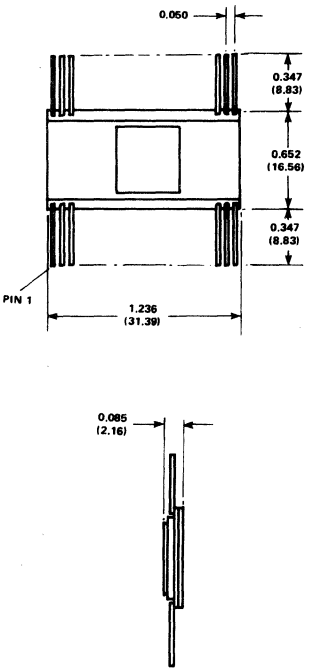
FP153



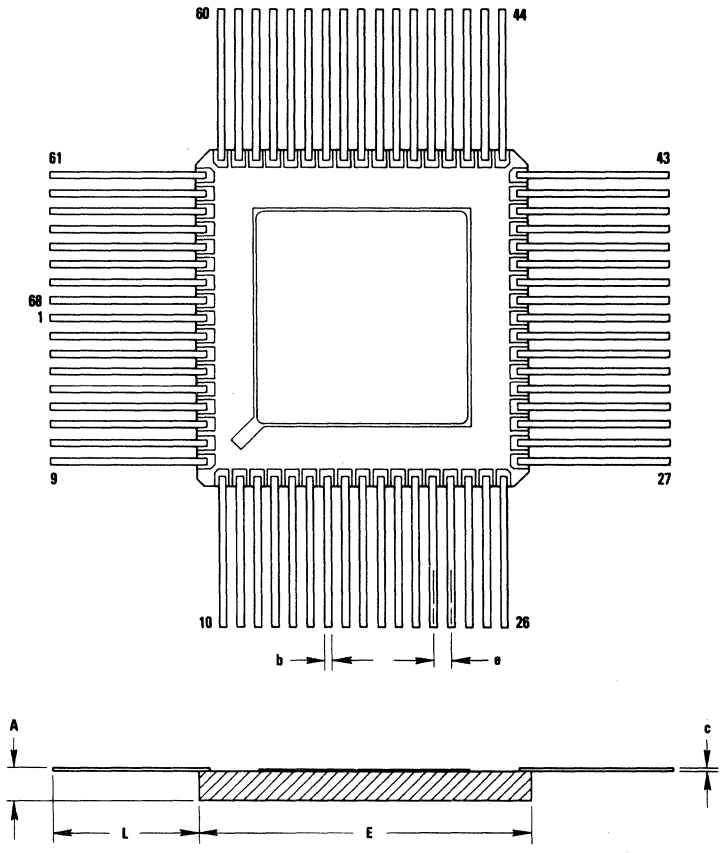
FP154



FP156



FP163



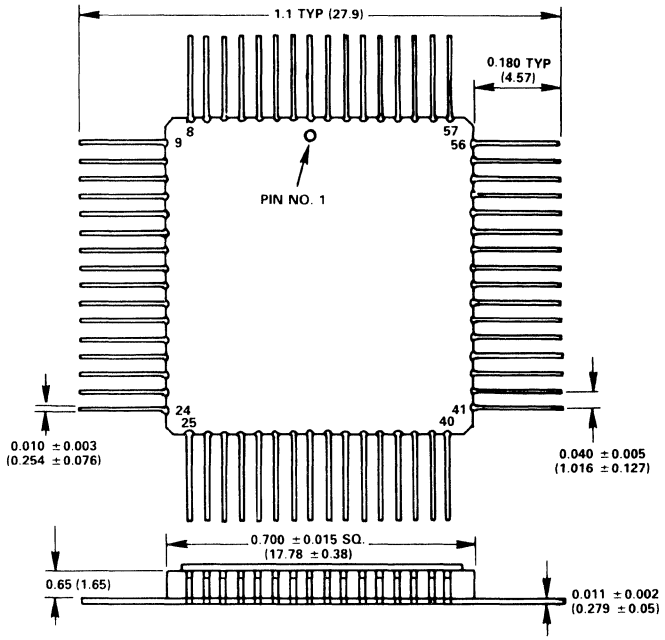
Dimensions

	Inches (Millimeters)		
Sym	Min	Max	Nom ± Tol.
A	.089 (2.26)	.100 (2.54)	
b	.016 (0.41)	.020 (0.51)	
c	.009 (0.23)	.012 (0.30)	
E			.9525 ± .0125 (24.19 ± .3175) sq.
e			.050 ± .005 (1.27 ± 0.13) O.C.
L	.350 (8.89)	.400 (10.16)	

Ref. 90X00181

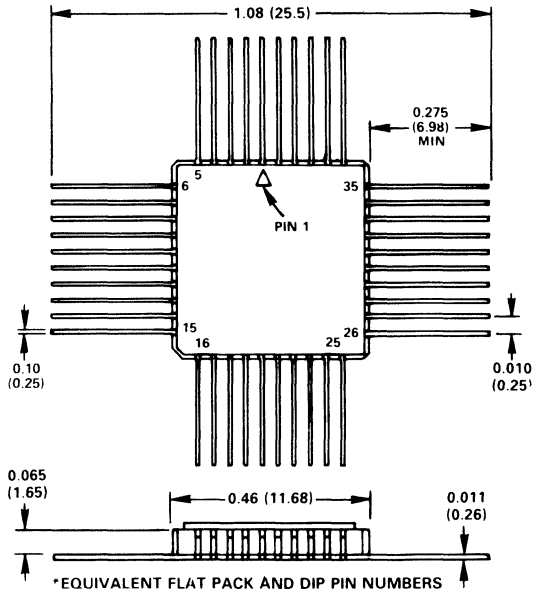
30. OUTLINE DRAWINGS

FP158



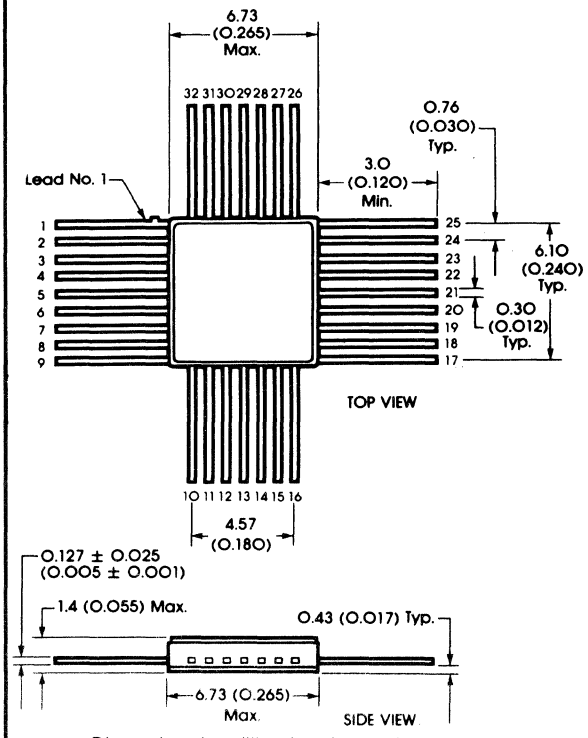
*EQUIVALENT FLAT PACK AND DIP PIN NUMBERS PROVIDE THE SAME FUNCTION

FP159



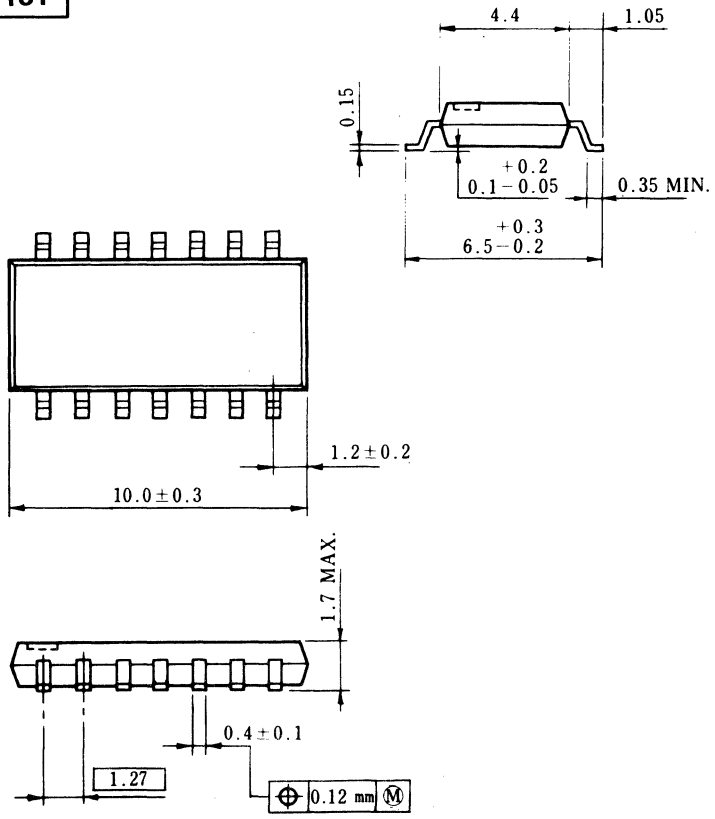
*EQUIVALENT FLAT PACK AND DIP PIN NUMBERS PROVIDE THE SAME FUNCTION

FP160



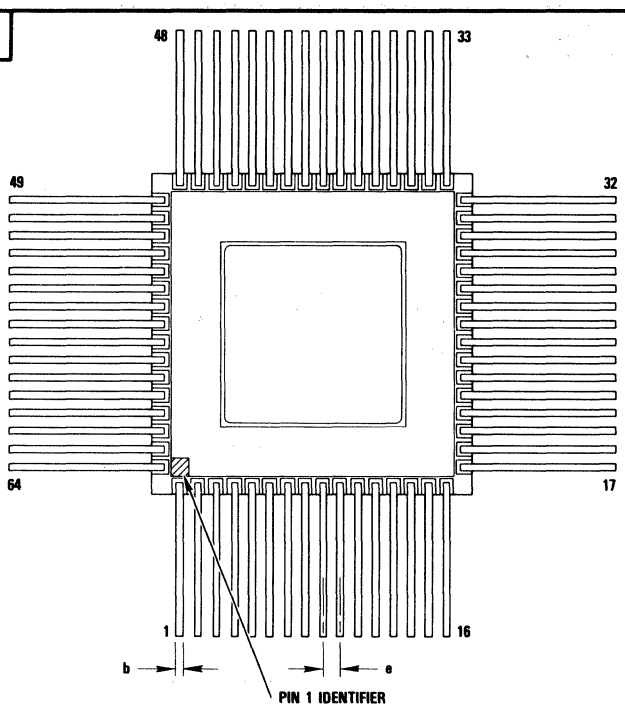
Dimensions in millimeters (inches)

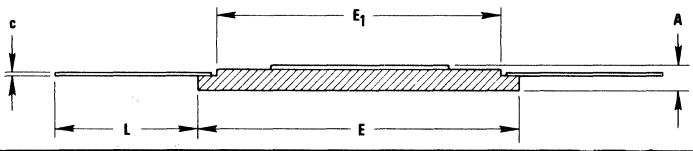
FP161



30. OUTLINE DRAWINGS

FP164



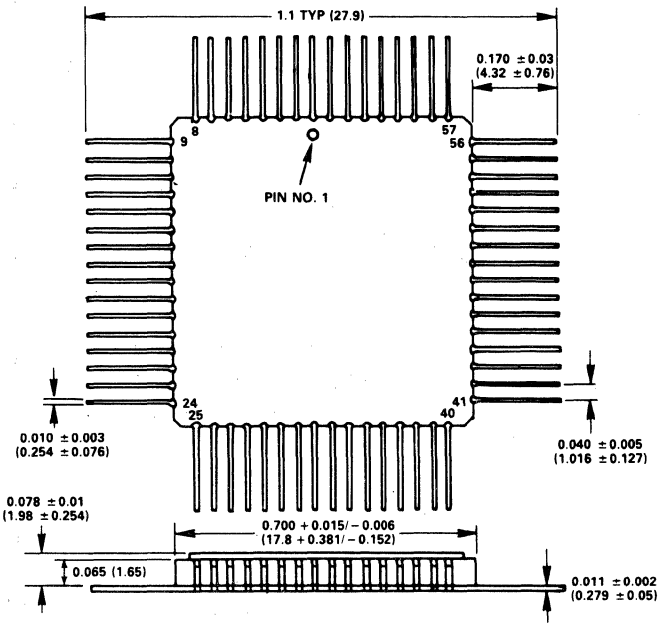


Dimensions

	Inches (Millimeters)		
Sym	Min	Max	Nom ± Tol.
A	.064 (1.63)	.079 (2.01)	
b	.016 (0.41)	.020 (0.51)	
c	.007 (0.18)	.010 (0.25)	
E			.900 ± .009 (22.86 ± 0.23)
E_1			.800 ± .008 (20.32 ± 0.20)
e			.050 ± .005 (1.27 ± 0.13)
L	.350 (8.89)	.400 (10.16)	

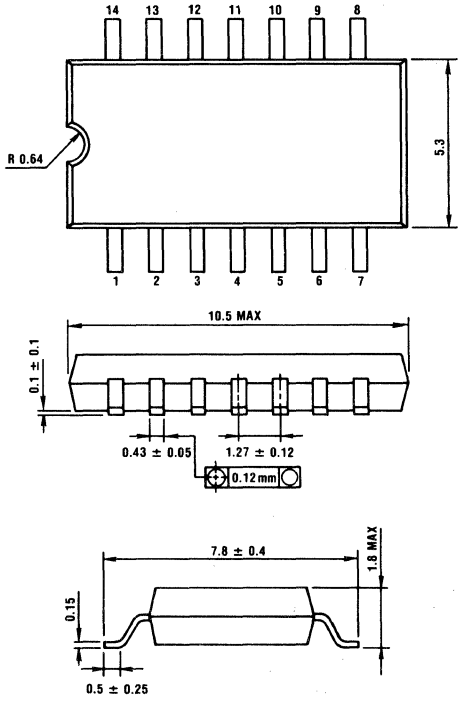
Ref. 90X00181

FP165



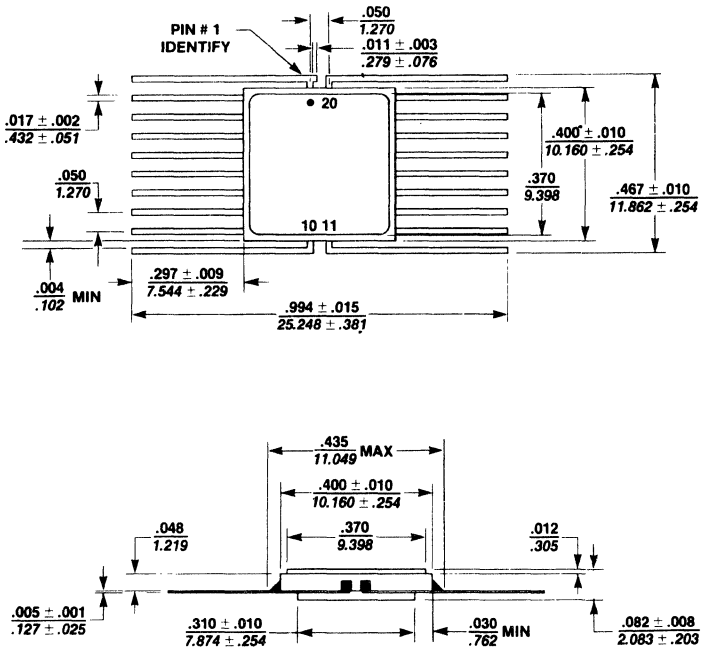
*EQUIVALENT FLAT PACK AND DIP PIN NUMBERS PROVIDE THE SAME FUNCTION

FP166



30. OUTLINE DRAWINGS

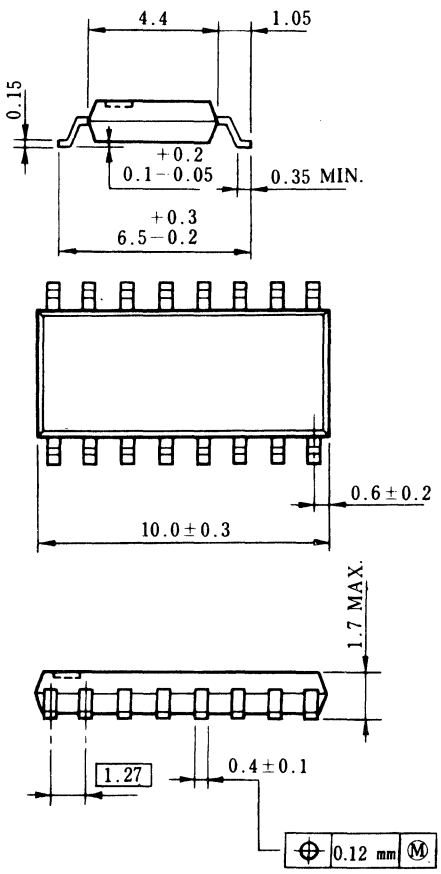
FP157



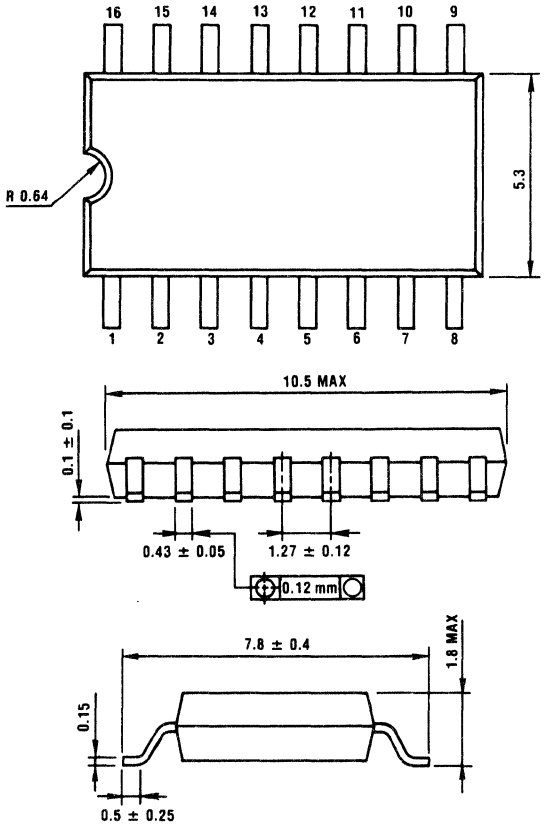
NOTES:

1. Top Dimension Specified in Inches. Bottom Dimension Specified in mm.
2. All Nominal Dimensions Are ± .007 inches Unless Otherwise Specified.

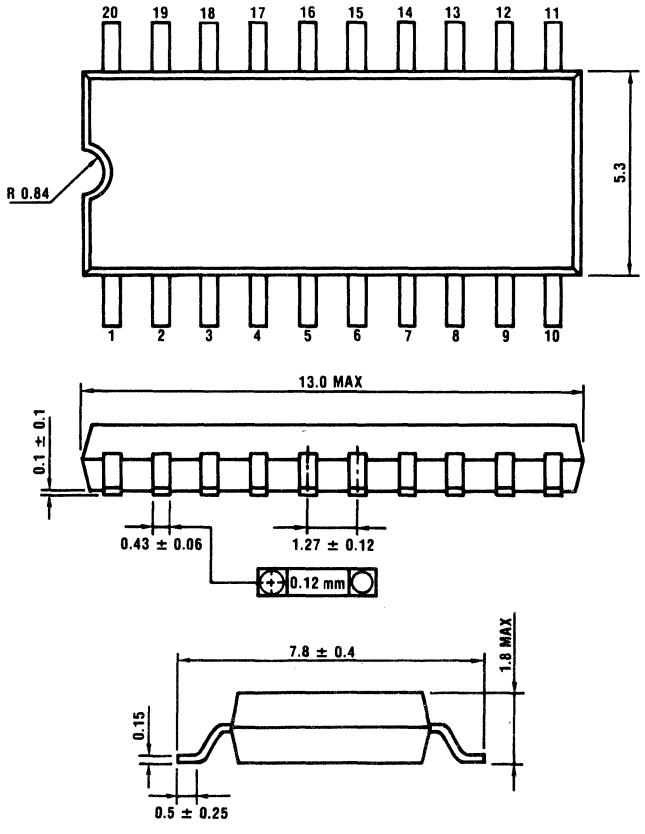
FP162



FP167

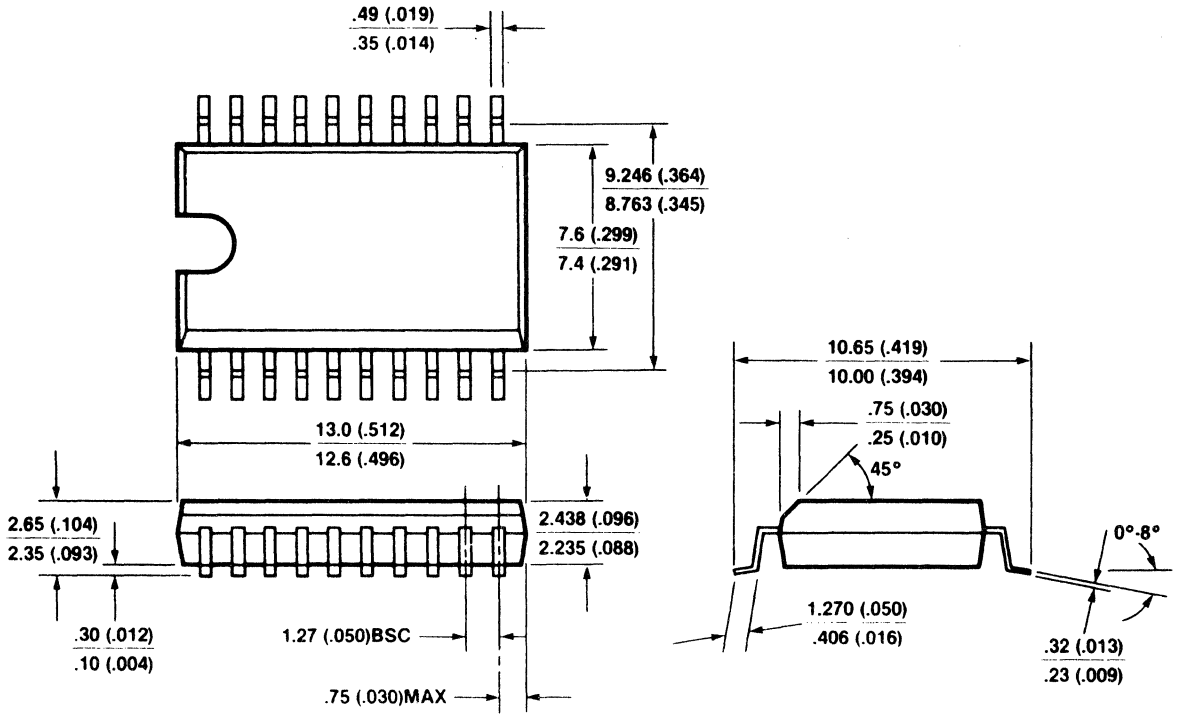


FP168

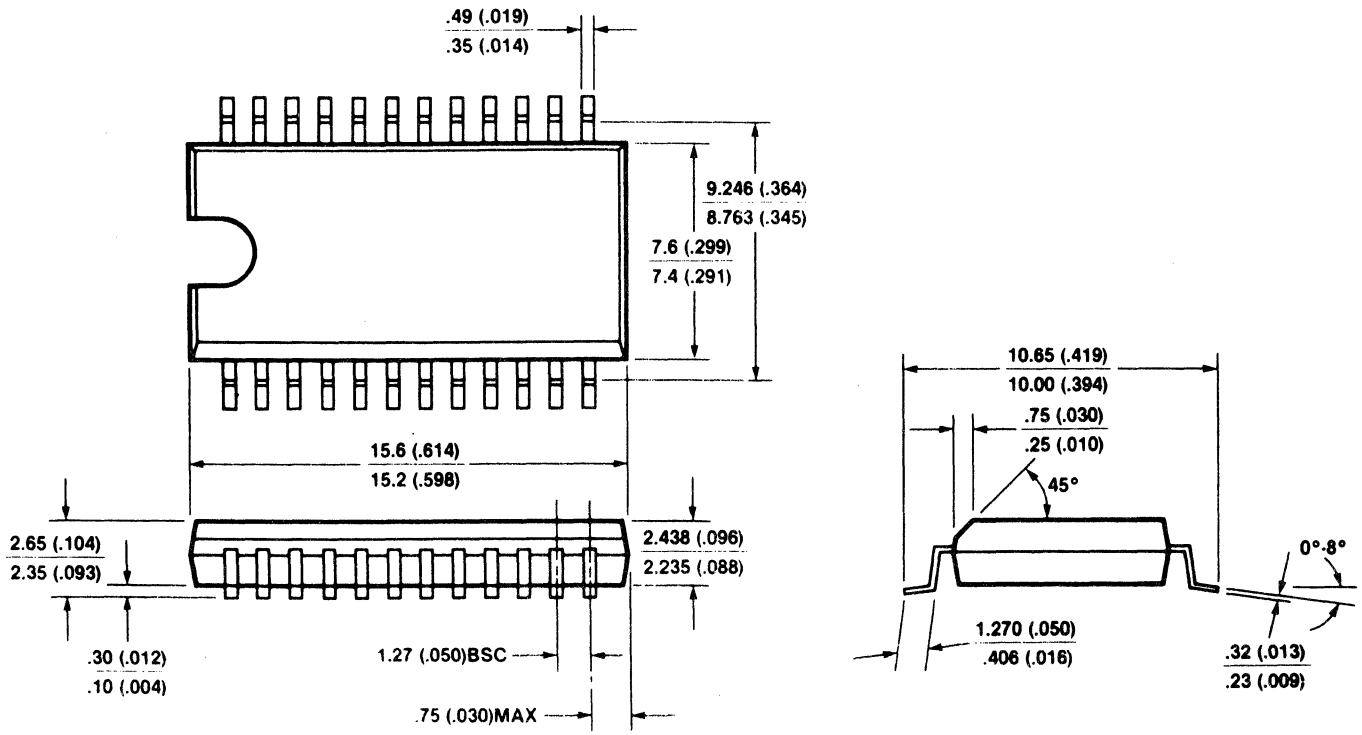


30. OUTLINE DRAWINGS

FP169

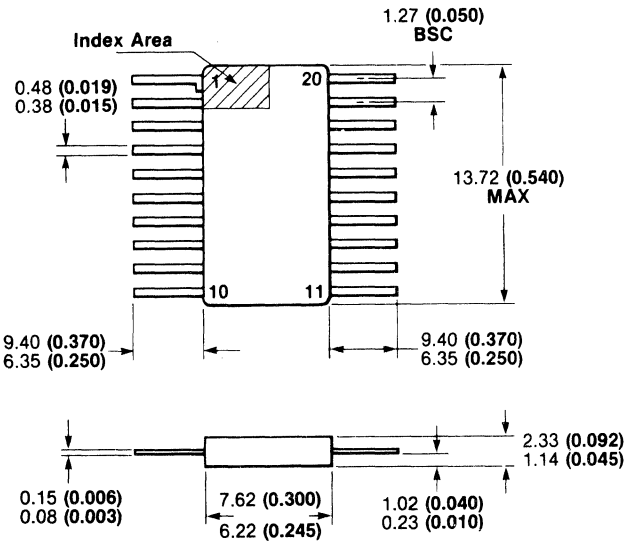


FP170

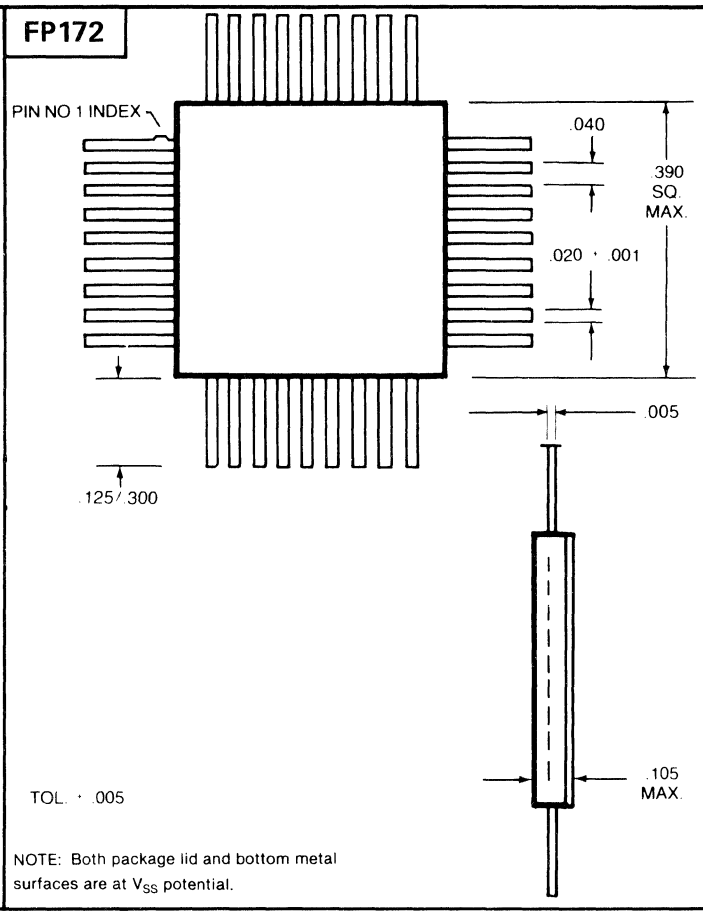


30. OUTLINE DRAWINGS

FP171

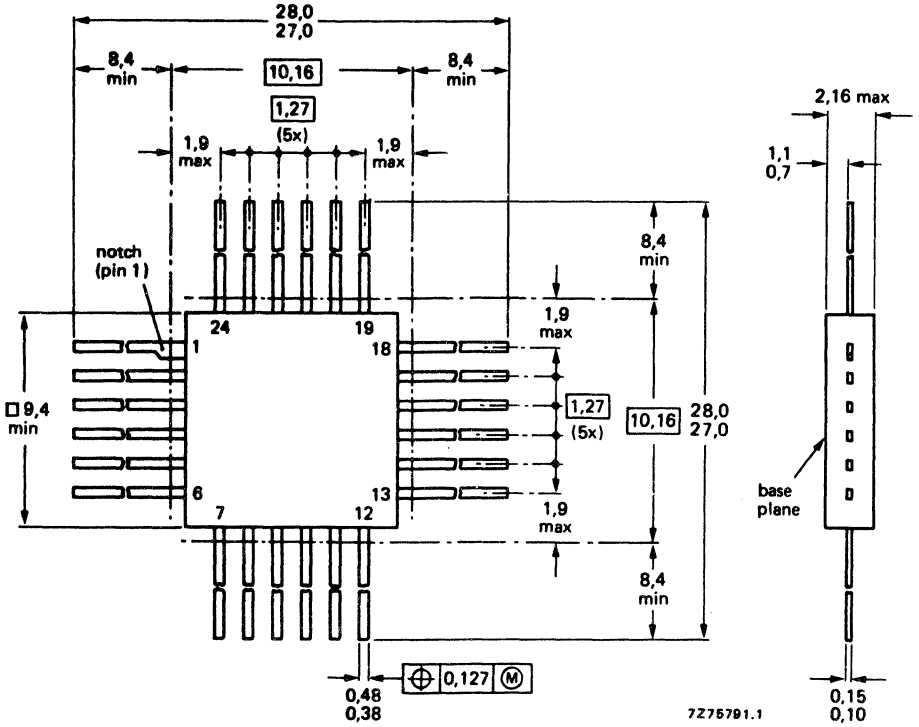


FP172



NOTE: Both package lid and bottom metal surfaces are at V_{SS} potential.

FP173



Dimensions in mm

Pins are tin-plated nickel alloy.

Base is Al_2O_3 or BeO (toxic material).

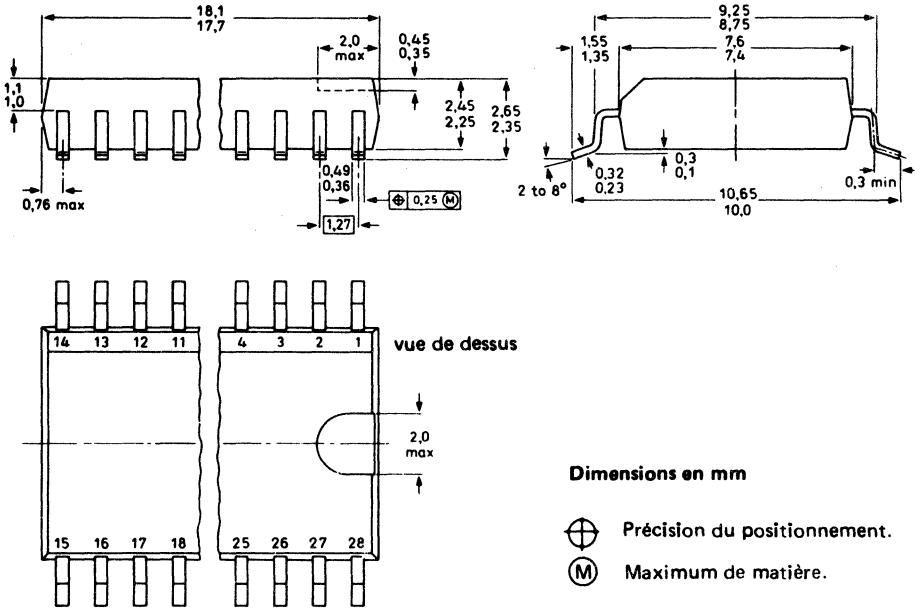
Mass = 0,8 g.

⊕ Positional accuracy.

Ⓜ Maximum Material Condition.

30. OUTLINE DRAWINGS

FP174

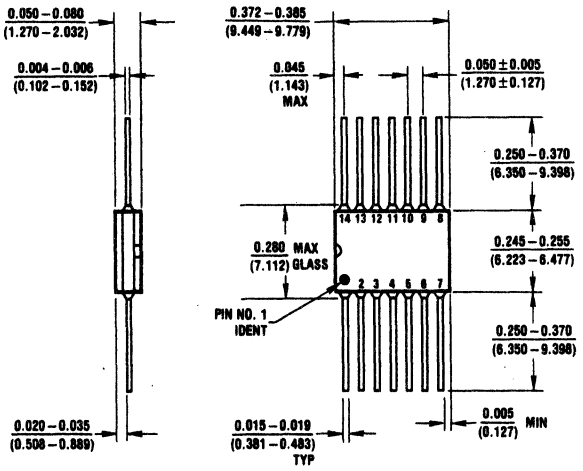


Dimensions en mm

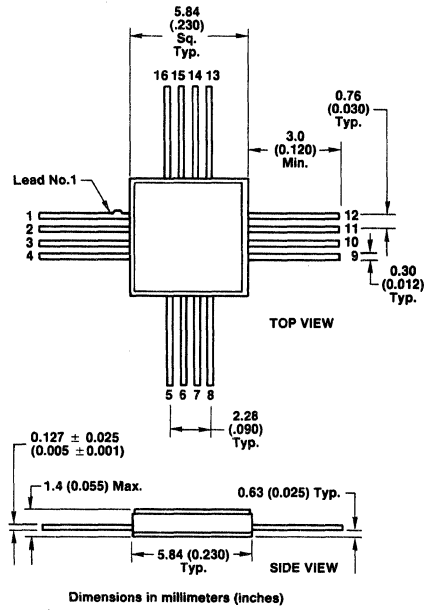
⊕ Précision du positionnement.

Ⓜ Maximum de matière.

FP175



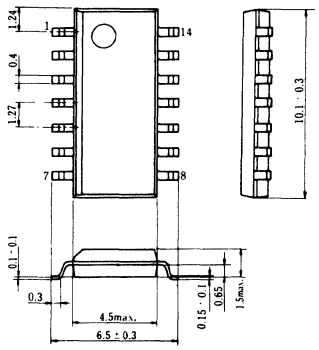
FP184



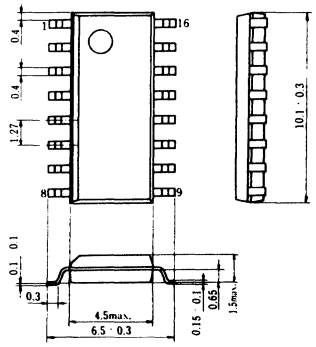
Dimensions in millimeters (inches)

30. OUTLINE DRAWINGS

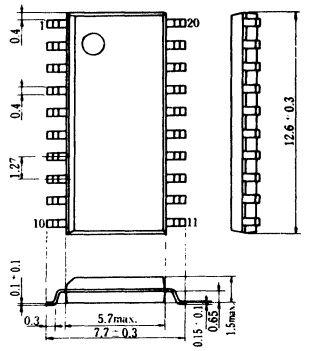
FP177



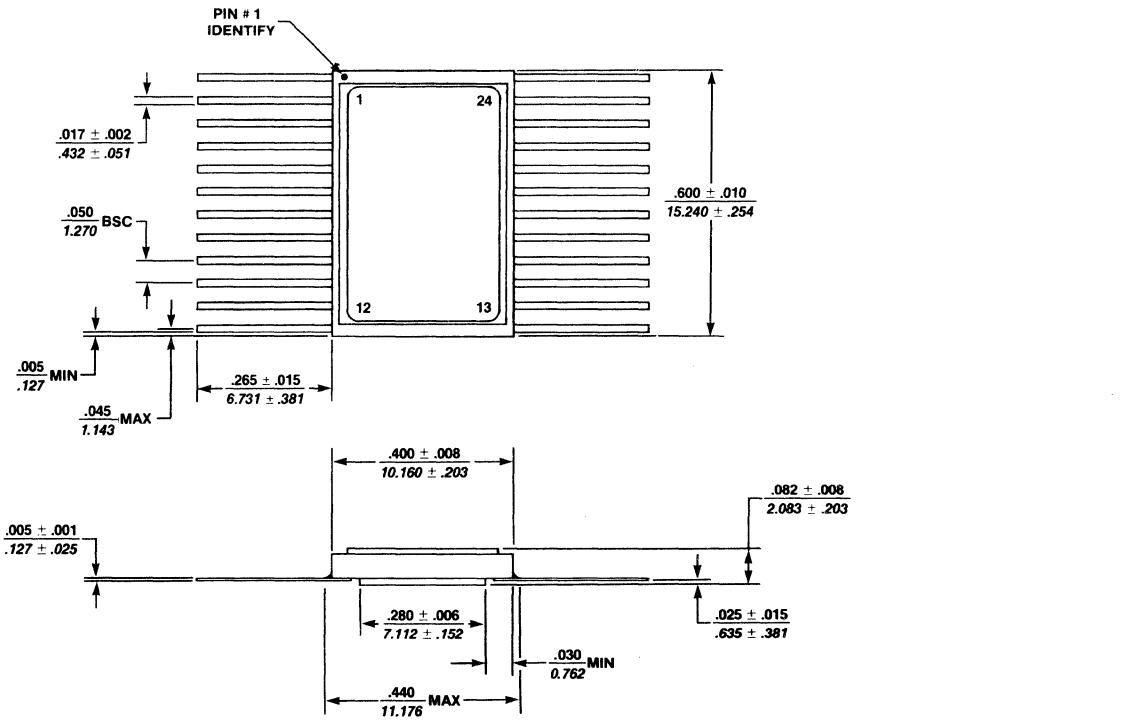
FP178



FP179

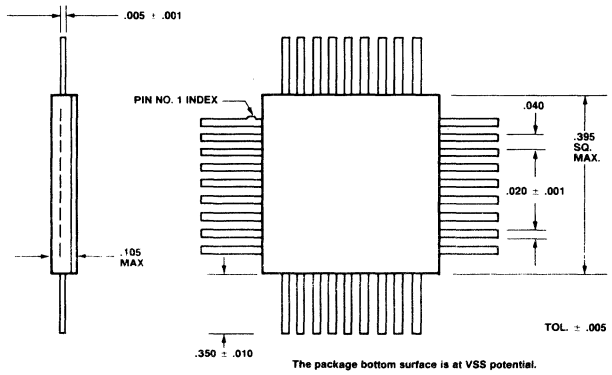


FP180



UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS MIN.-MAX. IN INCHES
ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS
ALL TOLERANCES ARE ± .007 INCHES

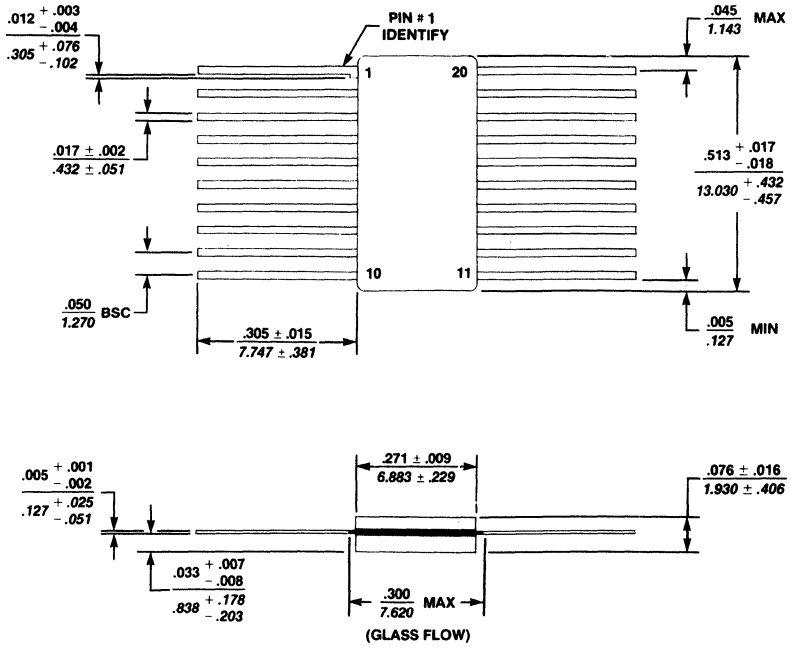
FP185



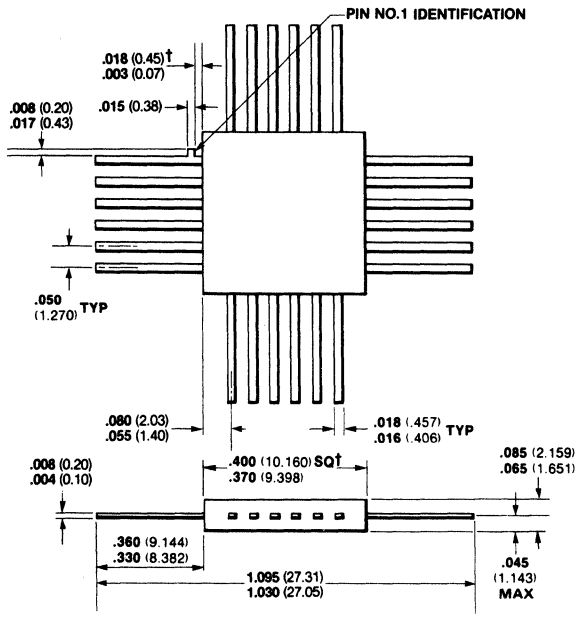
The package bottom surface is at VSS potential.

30. OUTLINE DRAWINGS

FP183

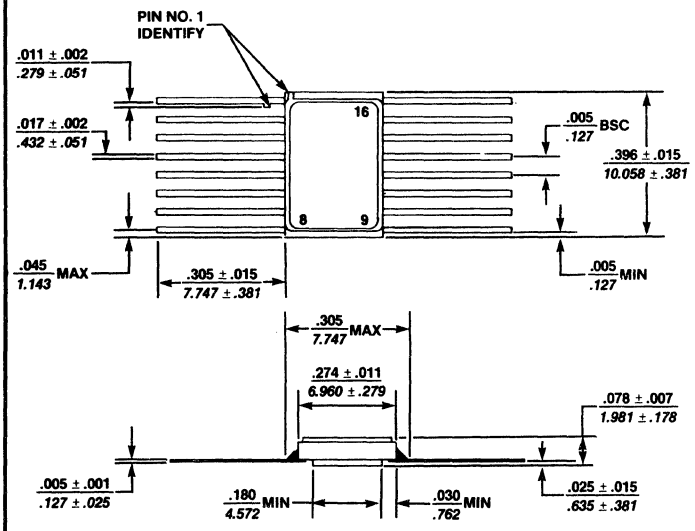


FP186

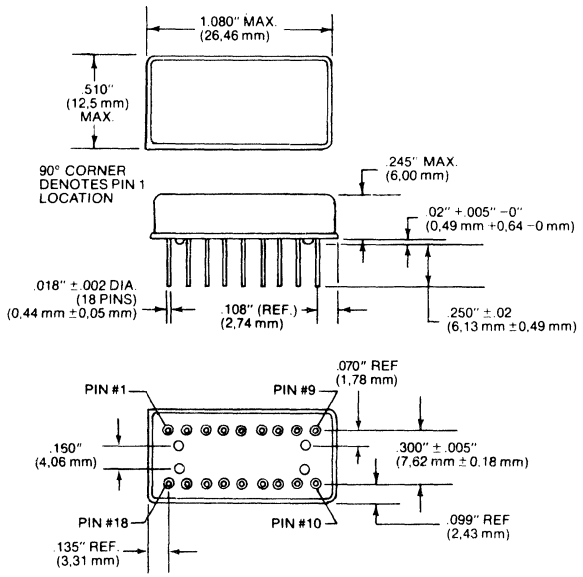


30. OUTLINE DRAWINGS

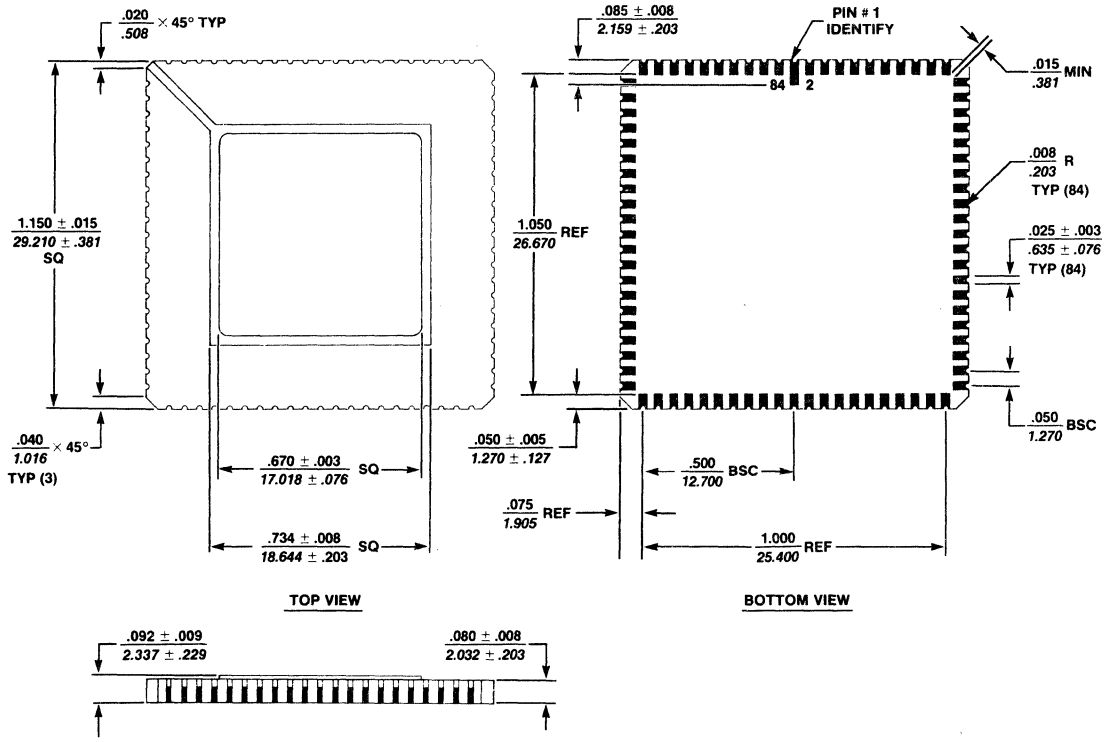
FP181



MD143

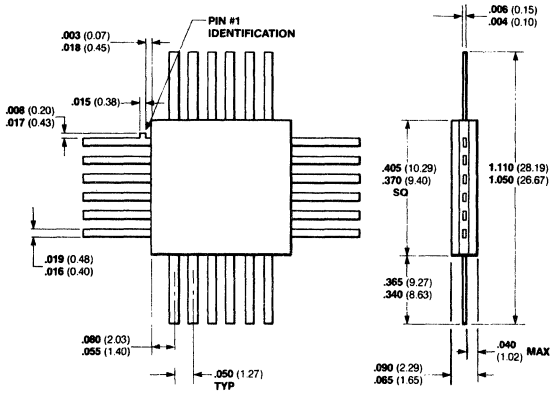


LC40



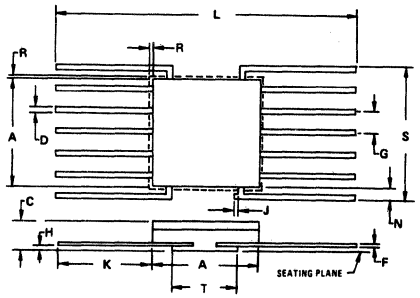
30. OUTLINE DRAWINGS

FP187



FP189

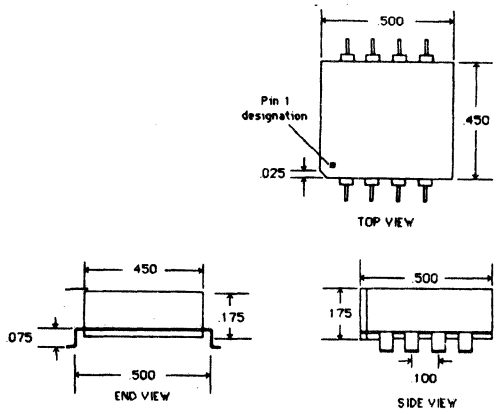
CERAMIC PACKAGE



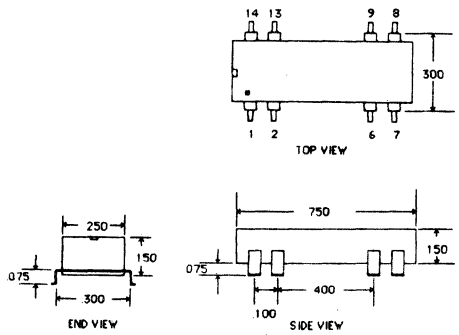
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	6.10	6.99	0.240	0.275
C	0.76	2.03	0.030	0.070
D	0.25	0.48	0.010	0.019
F	0.08	0.15	0.003	0.006
G	1.27 BSC		0.050 BSC	
H	0.13	0.89	0.005	0.035
J	–	0.38	–	0.015
K	6.35	–	0.250	–
L	18.80	–	0.740	–
N	0.25	–	0.010	–
R	–	0.38	–	0.015
S	7.62	8.38	0.300	0.330
T	4.45	4.95	0.175	0.195

NOTES:
1. ALL NOTES ASSOCIATED WITH TO-86 OUTLINE SHALL APPLY.
2. LEADS WITHIN 0.13 mm (0.005) TOTAL OF TRUE POSITION RELATIVE TO "A" AT MAXIMUM MATERIAL CONDITION.

FP190

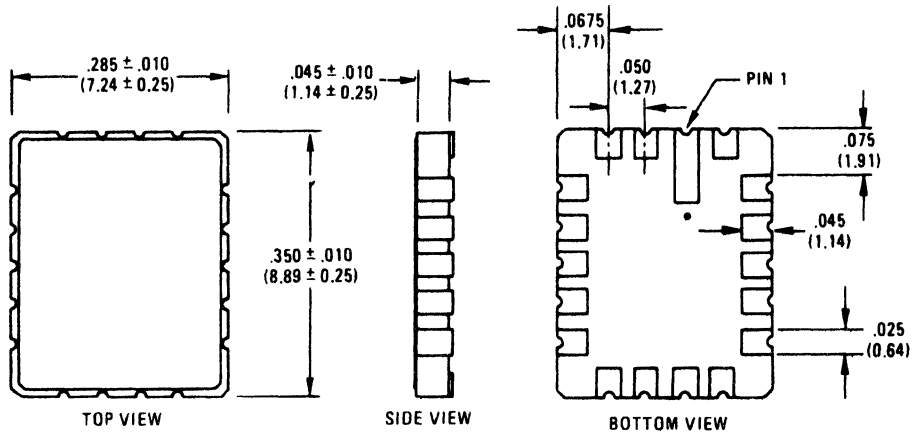


FP191

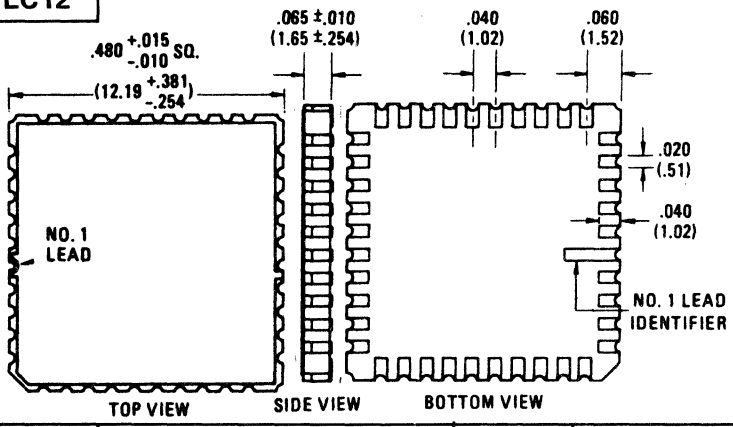


30. OUTLINE DRAWINGS

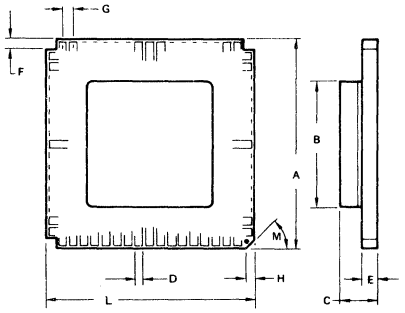
LC11



LC12



LC10



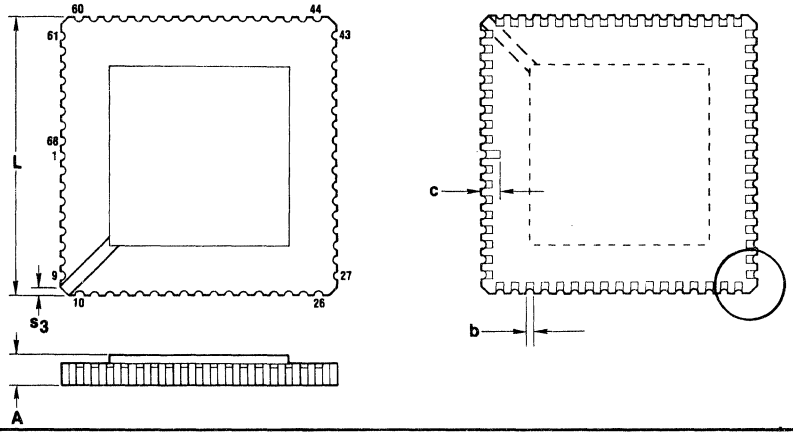
DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	24.00	24.51	0.945	0.965
B	14.22	14.73	0.560	0.580
C		4.57		0.180
D	0.84	0.99	0.033	0.039
E	1.27	1.78	0.050	0.070
F	1.14	1.40	0.045	0.055
G	1.27 BSC		0.050 BSC	
H	0.89	1.14	0.035	0.045
L	24.00	24.51	0.945	0.965
M	45° NOM		45° NOM	

NOTES:
1. DIMENSIONS A AND L ARE DATUMS.
2. POSITIONAL TOLERANCES FOR COVER:

⌀	0.25 (0.010) Ⓜ	A Ⓜ	L Ⓜ

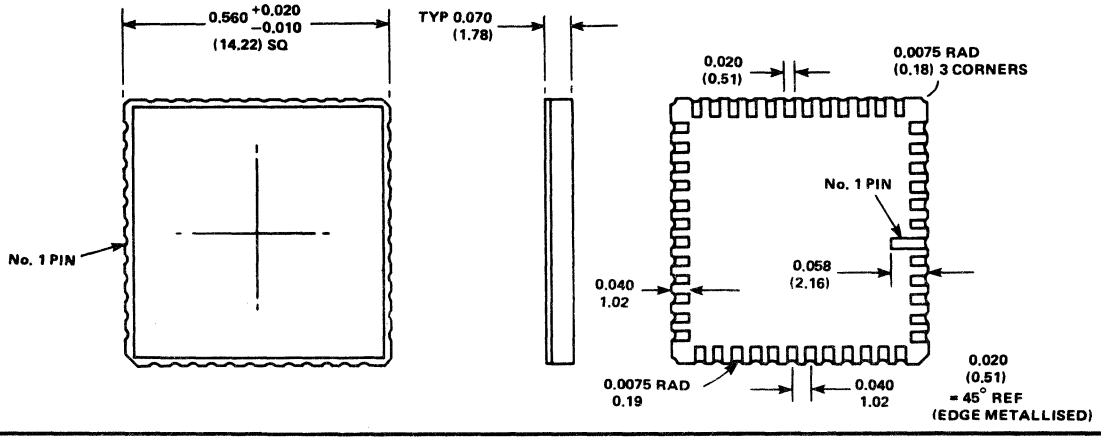
3. DIMENSION D - 68 PLACES
4. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1973.

LC13



SYM	INCHES/ (MILLIMETERS) MAX	INCHES/ (MILLIMETERS) MIN
A	0.101 (2.56)	0.084 (2.13)
b	0.030 (0.76)	0.020 (0.51)
c	0.095 (2.41)	0.075 (1.91)
L	0.965 (24.49)	0.940 (23.86)
s	0.085 (2.16)	0.065 (1.65)
s_1	0.058 (1.47)	0.042 (1.07)
s_2	0.045 (1.14)	0.035 (0.89)
s_3	0.025 (0.64)	0.015 (0.38)
e	0.055 (1.40)	0.045 (1.14)

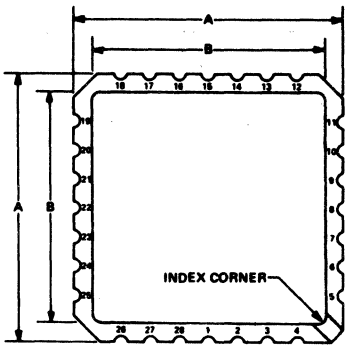
LC14

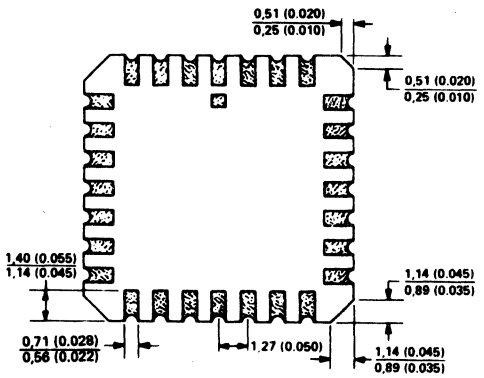


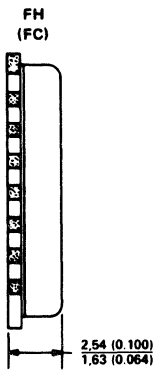
30. OUTLINE DRAWINGS

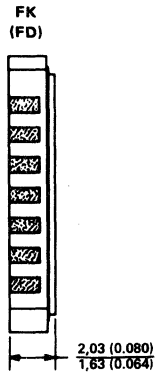
LC19

Dwg. No. Suffix	JEDEC OUTLINE DESIGNATION*	NO. OF TERMINALS	A MIN	A MAX	B MIN	B MAX
LC19	MS004CB	20	8.69 (0.342)	9.09 (0.358)	7.80 (0.307)	9.09 (0.358)
LC19a	MS004CC	28	11.23 (0.442)	11.63 (0.458)	10.31 (0.406)	11.63 (0.458)
LC19b	MS004CD	44	16.26 (0.640)	16.76 (0.660)	12.58 (0.495)	14.22 (0.560)
LC19c	MS004CE	52	18.78 (0.739)	19.32 (0.761)	12.58 (0.495)	14.22 (0.560)
LC19d	MS004CF	68	23.83 (0.938)	24.43 (0.962)	12.6 (0.495)	21.8 (0.862)
LC19e	MS004CG	84	28.83 (1.135)	29.59 (1.165)	12.6 (0.495)	27.0 (1.065)



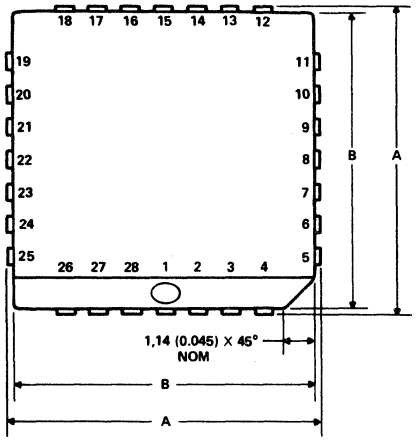


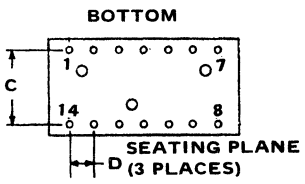


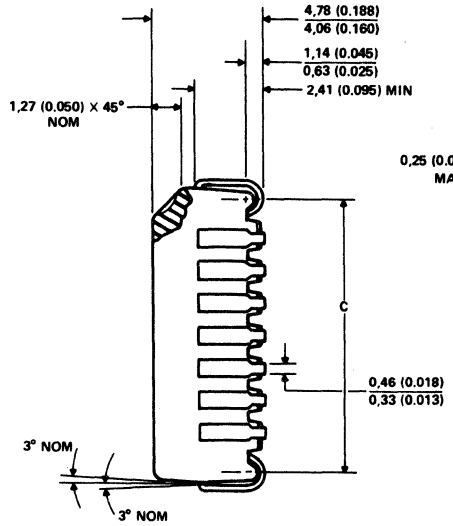


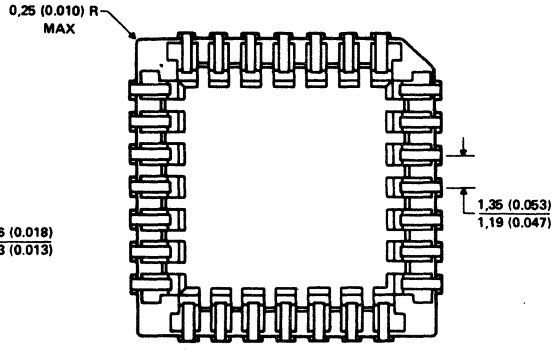
LC20

Dwg No.	NO. OF TERMINALS	A MIN	A MAX	B MIN	B MAX	C MIN	C MAX
LC20	20	9.35 (0.368)	10.03 (0.395)	8.89 (0.350)	9.04 (0.356)	8.08 (0.318)	8.38 (0.330)
LC20a	28	11.89 (0.468)	12.57 (0.495)	11.43 (0.450)	11.58 (0.456)	10.62 (0.418)	10.92 (0.430)
LC20b	44	16.97 (0.668)	17.65 (0.695)	16.51 (0.650)	16.66 (0.656)	15.70 (0.618)	16.00 (0.630)
LC20c	52	19.51 (0.768)	20.19 (0.795)	19.05 (0.750)	19.20 (0.756)	18.24 (0.718)	18.54 (0.730)
LC20d	68	24.59 (0.968)	25.27 (0.995)	24.13 (0.950)	24.28 (0.956)	23.32 (0.918)	23.62 (0.930)



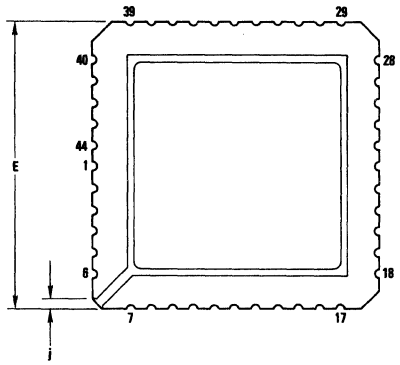


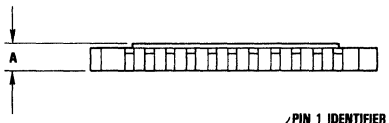


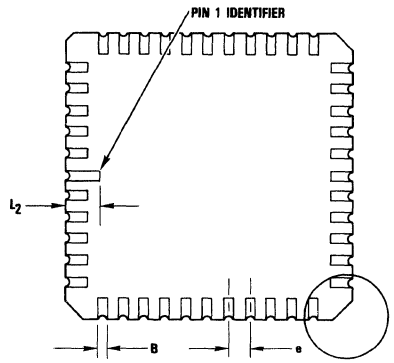


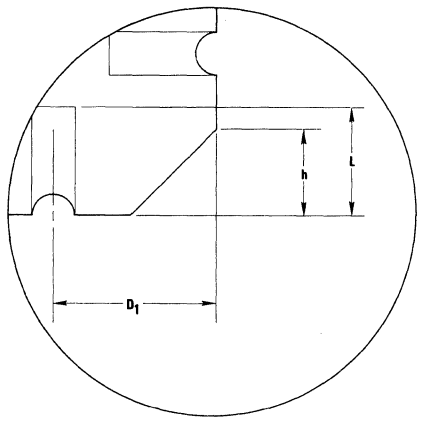
30. OUTLINE DRAWINGS

LC21







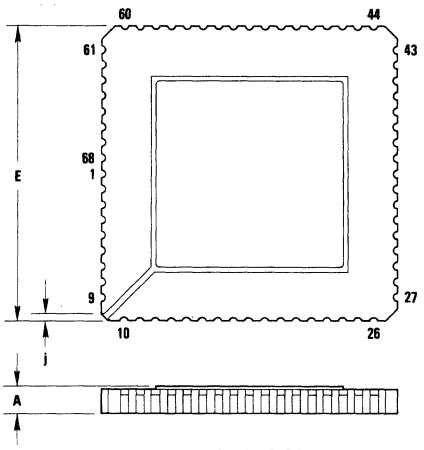


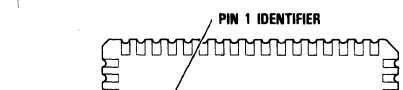
Dimensions

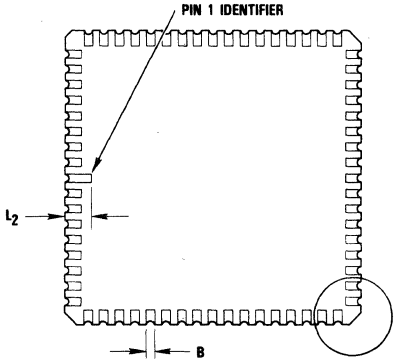
Inches (Millimeters)			
Sym	**Min**	**Max**	**Nom ± Tol.**
A	.068 (1.73)	.084 (2.13)	
B	.020 (0.51)	.030 (0.76)	
D_1	.070 (1.78)	.080 (2.03)	
E			.650 ± .010 (16.51 ± 0.25) sq.
e			.050 ± .005 (1.27 ± 0.13) O.C.
h			.040 ± .005 (1.02 ± 0.13) PLCs
j			.020 ± .005 (0.51 ± 0.13) PLC
L	.045 (1.14)	.055 (1.40)	
L_2	.080 (2.03)	.090 (2.29)	

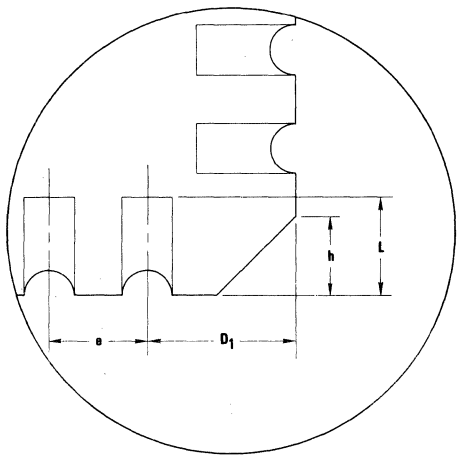
Ref. 90X00181

LC22









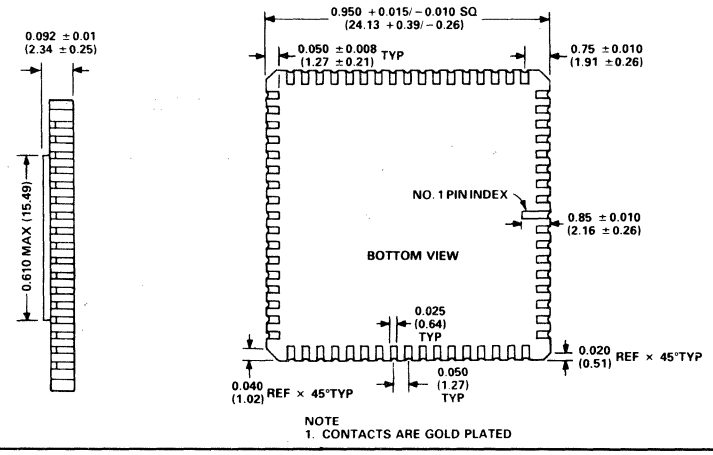
Dimensions

Inches (Millimeters)			
Sym	**Min**	**Max**	**Nom ± Tol.**
A	.082 (2.08)	.100 (2.54)	
B	.020 (0.51)	.030 (0.76)	
D_1	.070 (1.78)	.080 (2.03)	
E			.9525 ± .0125 (24.19 ± .3175) sq.
e			.050 ± .005 (1.27 ± 0.13) O.C.
h			.040 ± .005 (1.02 ± 0.13) 3 PLCS
j			.020 ± .005 (0.51 ± 0.13)
L	.045 (1.14)	.055 (1.40)	
L_2	.080 (2.03)	.090 (2.29)	

Ref. 90X00181

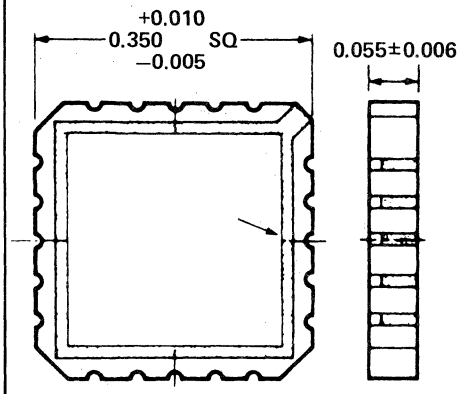
30. OUTLINE DRAWINGS

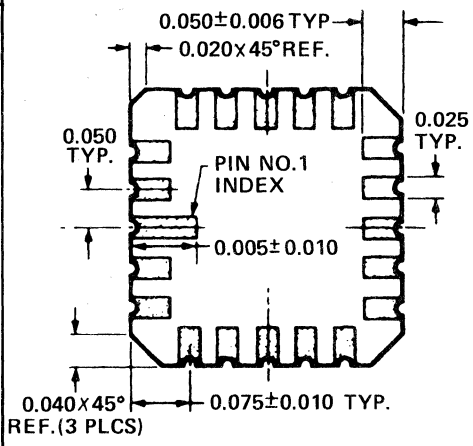
LC23



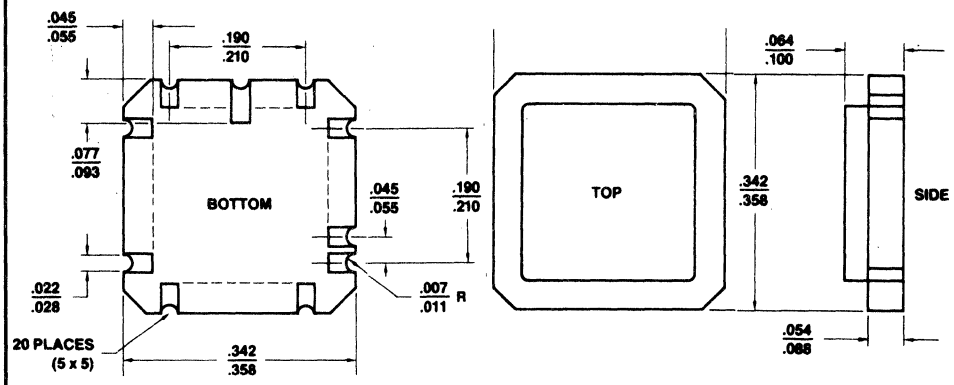
NOTE
1. CONTACTS ARE GOLD PLATED

LC24

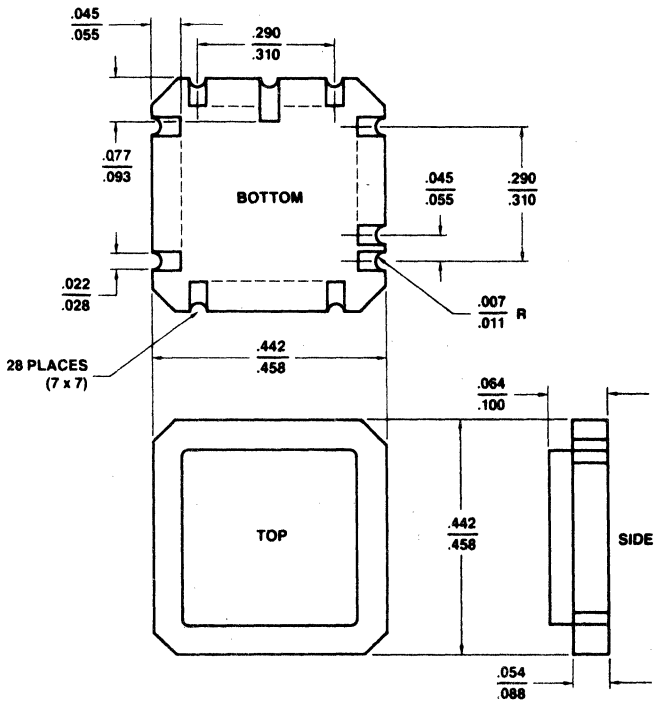




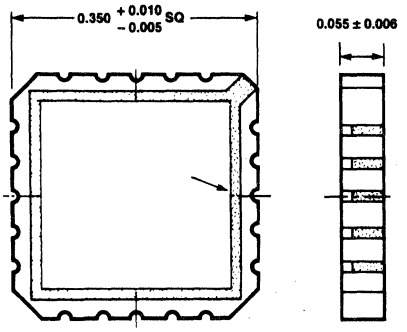
LC17

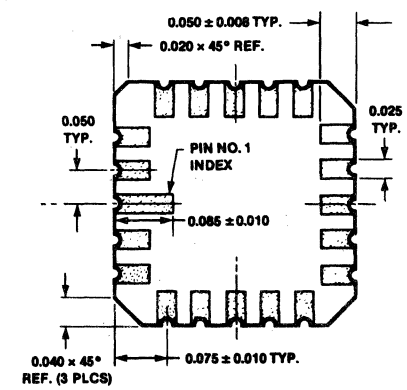


LC18



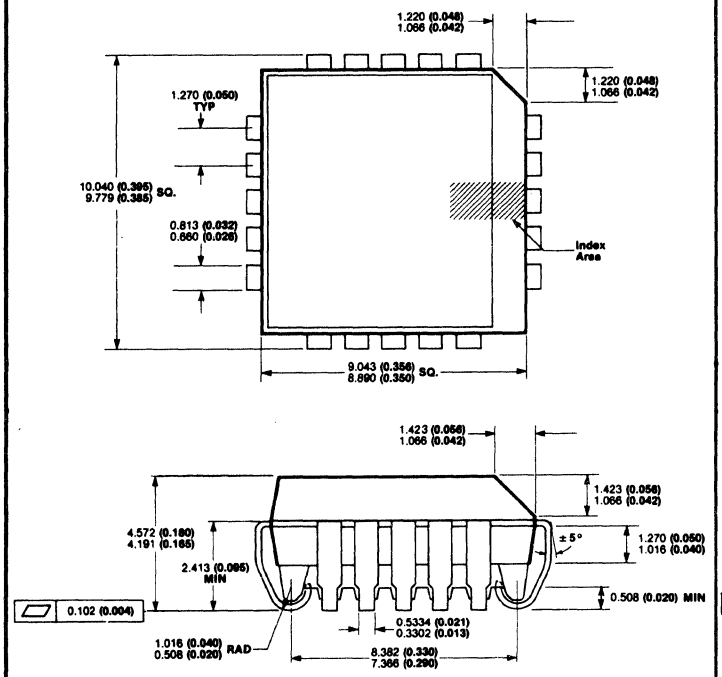
LC25



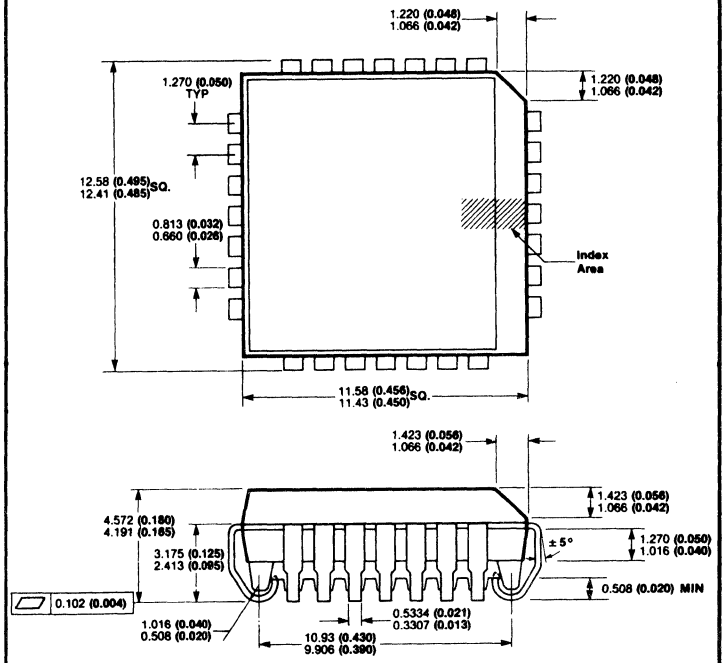


30. OUTLINE DRAWINGS

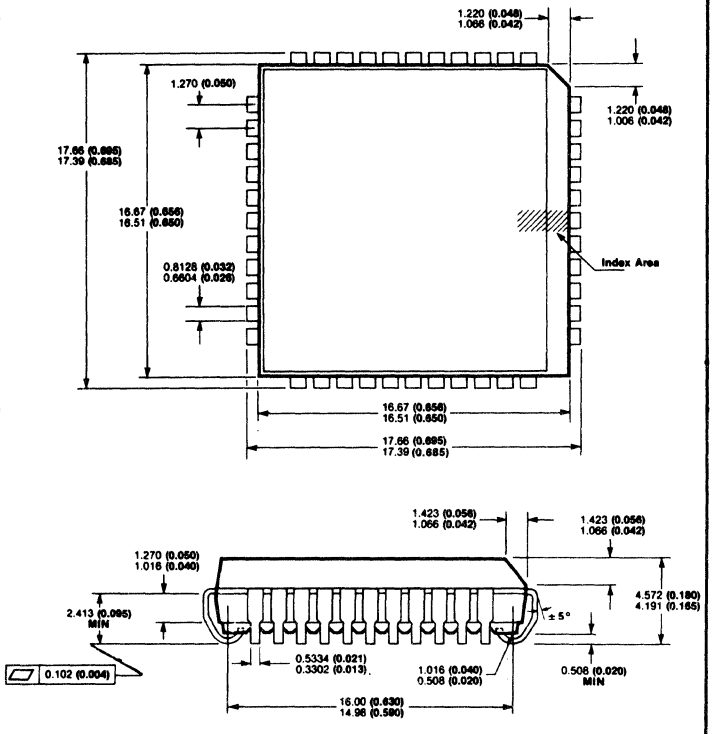
LC26



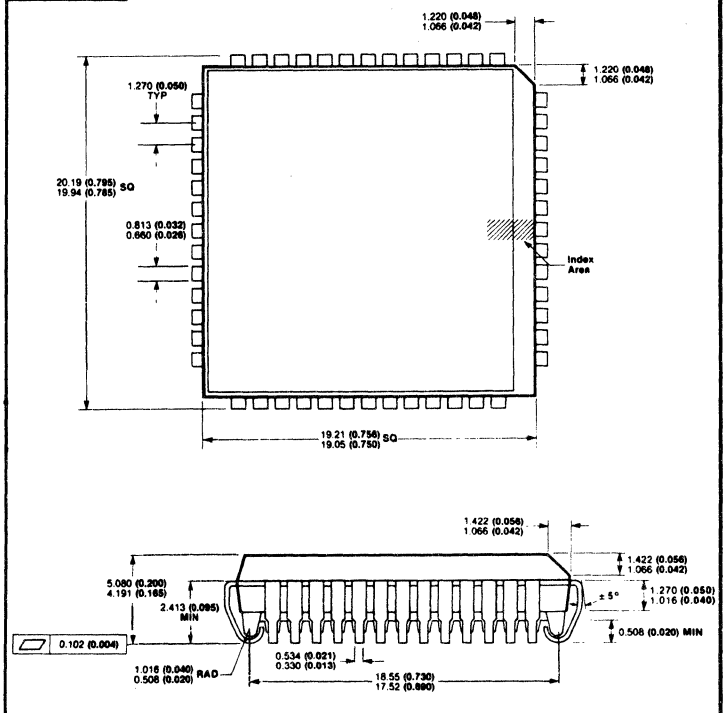
LC27



LC28

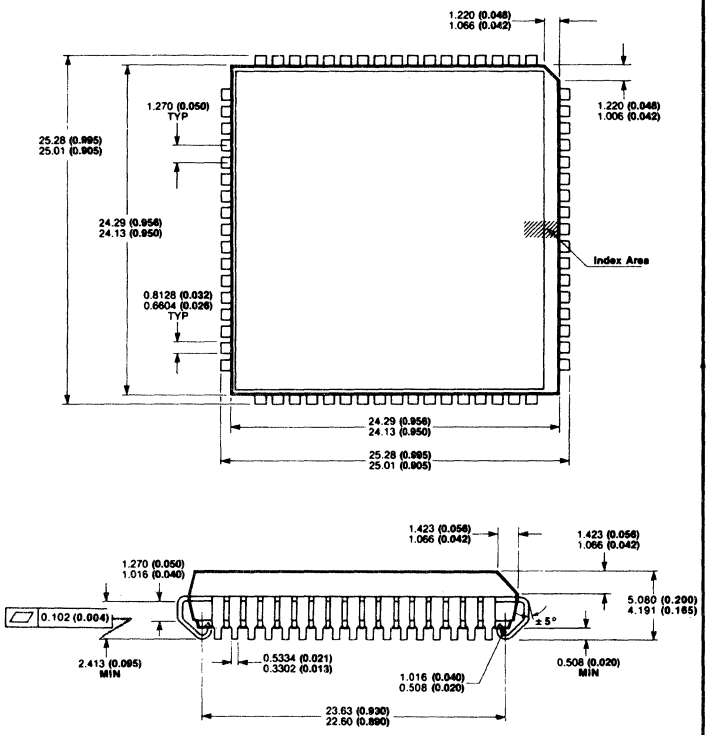


LC29

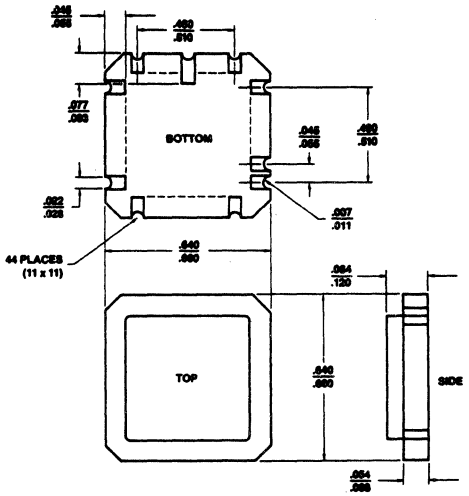


30. OUTLINE DRAWINGS

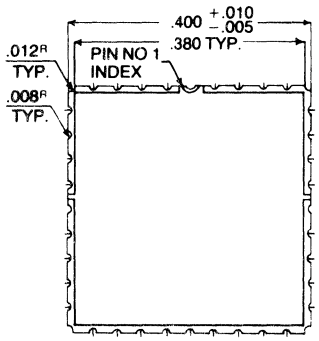
LC30

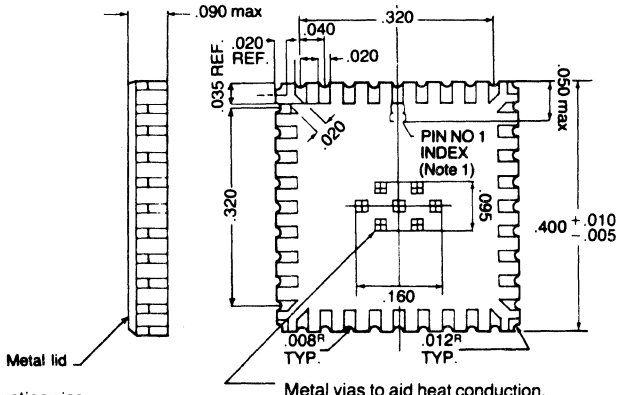


LC32



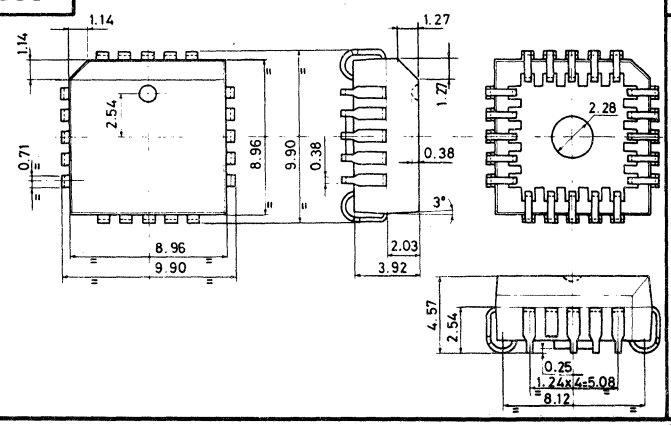
LC31



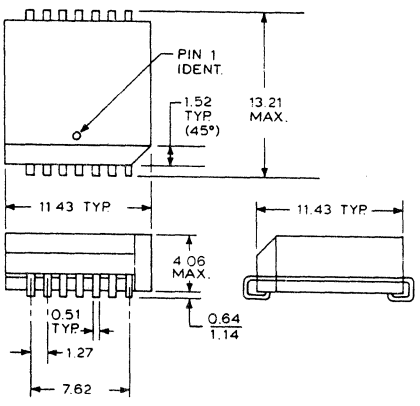


NOTES: 1. To avoid shorts do not run uninsulated traces under pin 1 index mark or under heat conduction vias.
2. The lid surface, heat condustion vias and 4 N/C corner pins (6, 16, 26, 36) are at V_{SS} potential.

LC33



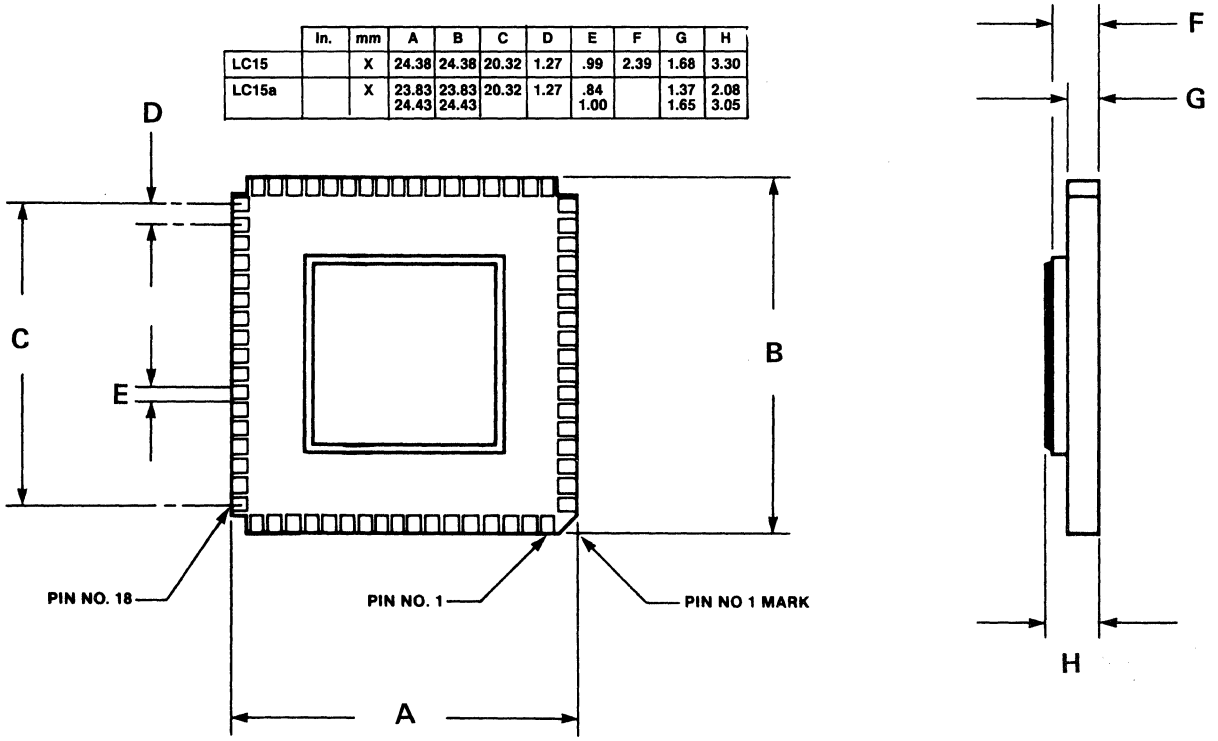
LC58



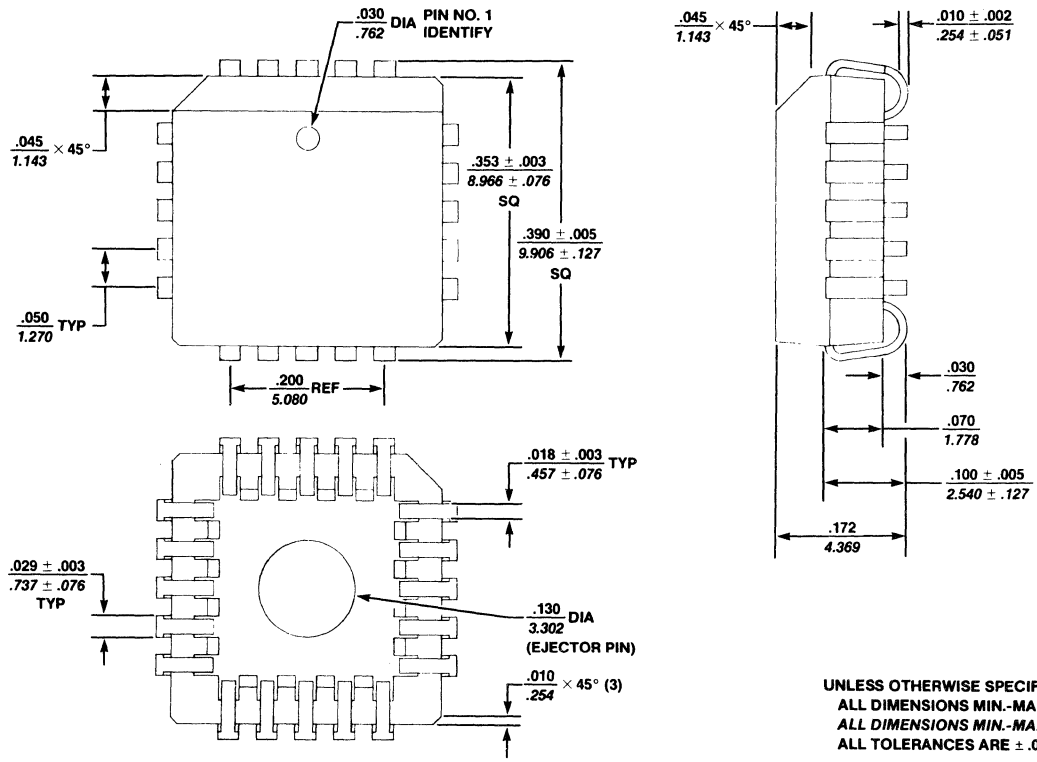
30. OUTLINE DRAWINGS

LC15

	In.	mm	A	B	C	D	E	F	G	H
LC15		X	24.38	24.38	20.32	1.27	.99	2.39	1.68	3.30
LC15a		X	23.83 24.43	23.83 24.43	20.32	1.27	.84 1.00		1.37 1.65	2.08 3.05



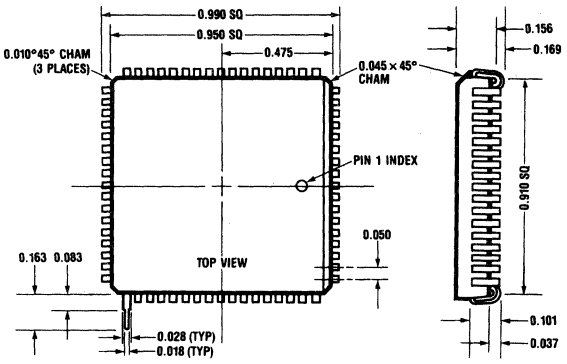
LC45



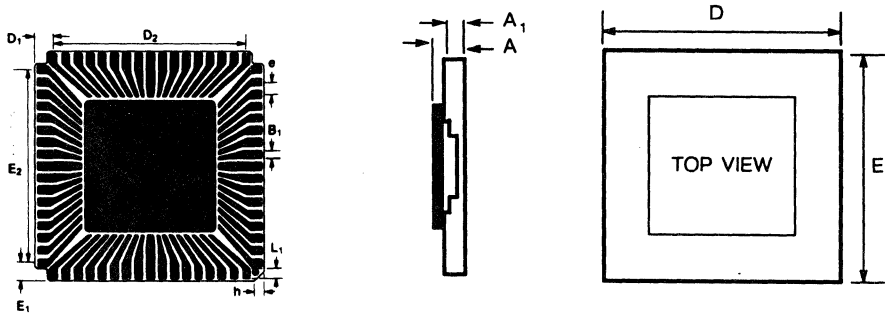
UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS MIN.-MAX. IN INCHES
ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS
ALL TOLERANCES ARE ± .007 INCHES

30. OUTLINE DRAWINGS

LC53

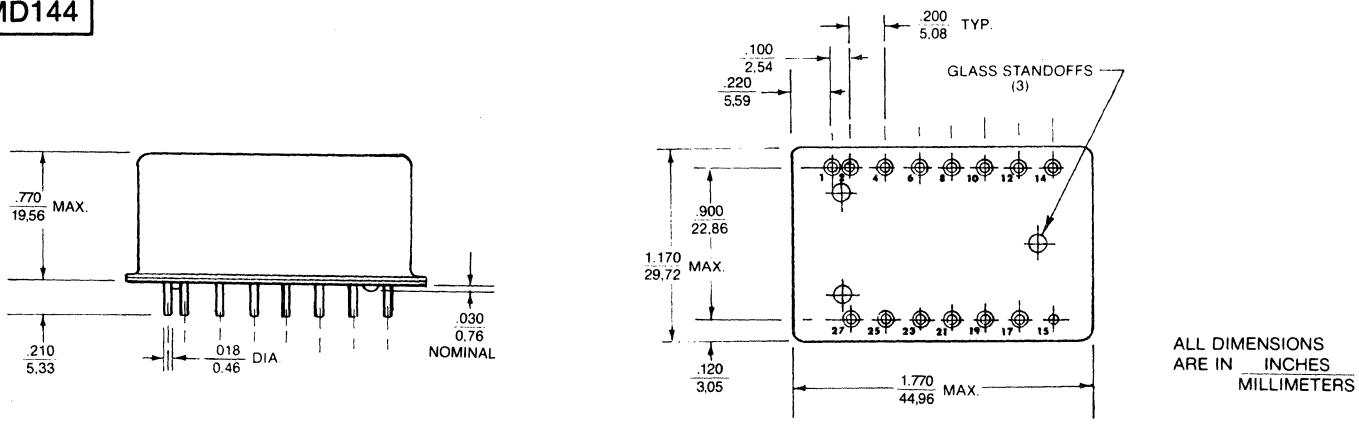


LC57



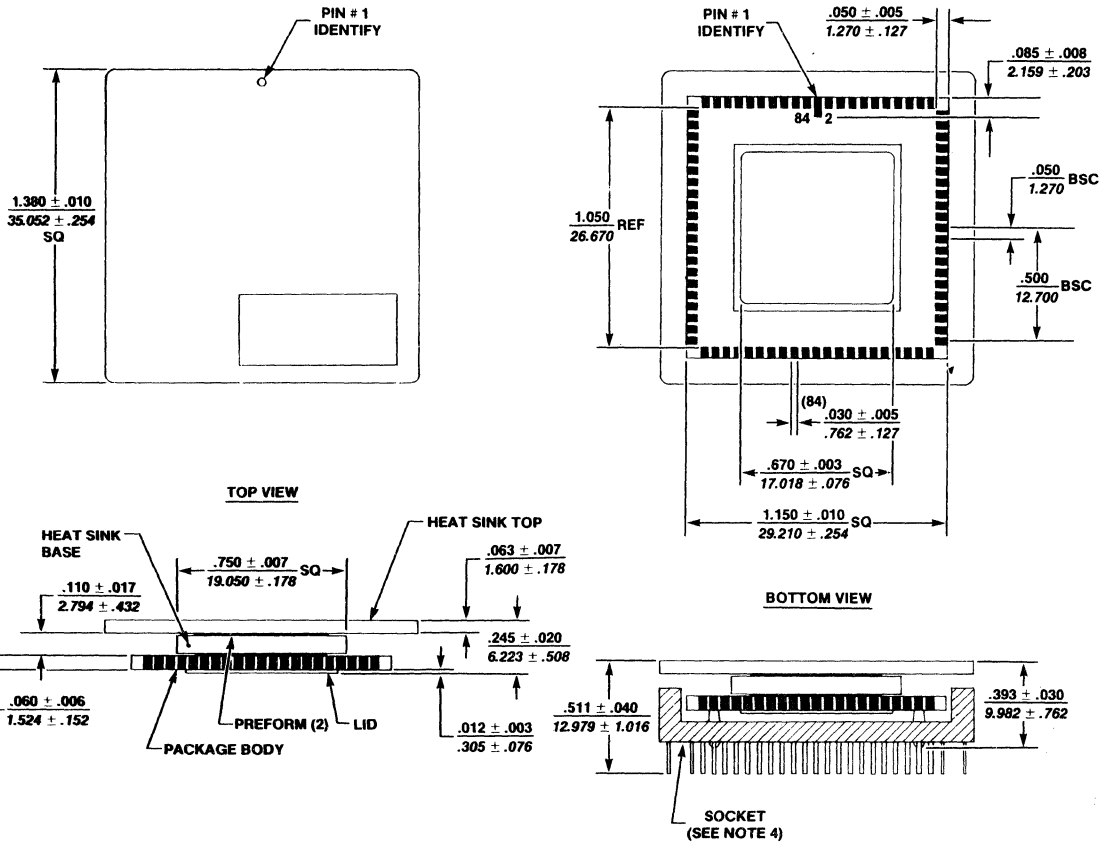
Symbol	Measurements Inches MIN	MAX	mm MIN	MAX
A	.082	.120	2.08	3.05
A1	.054	.065	1.37	1.65
B1	.033	.040	0.84	1.00
D	.938	.962	23.83	
D1	.075 REF		1.91 REF	
D2	.800 REF		20.32 REF	
E	.938	.962	23.83	24.43
E1	.075 REF		1.91 REF	
E2	.800 REF		20.32 REF	
e	.050 BSC		1.27 BSC	
h	.035	.058	0.89	1.47
L1	.045	.055	1.14	1.40

MD144

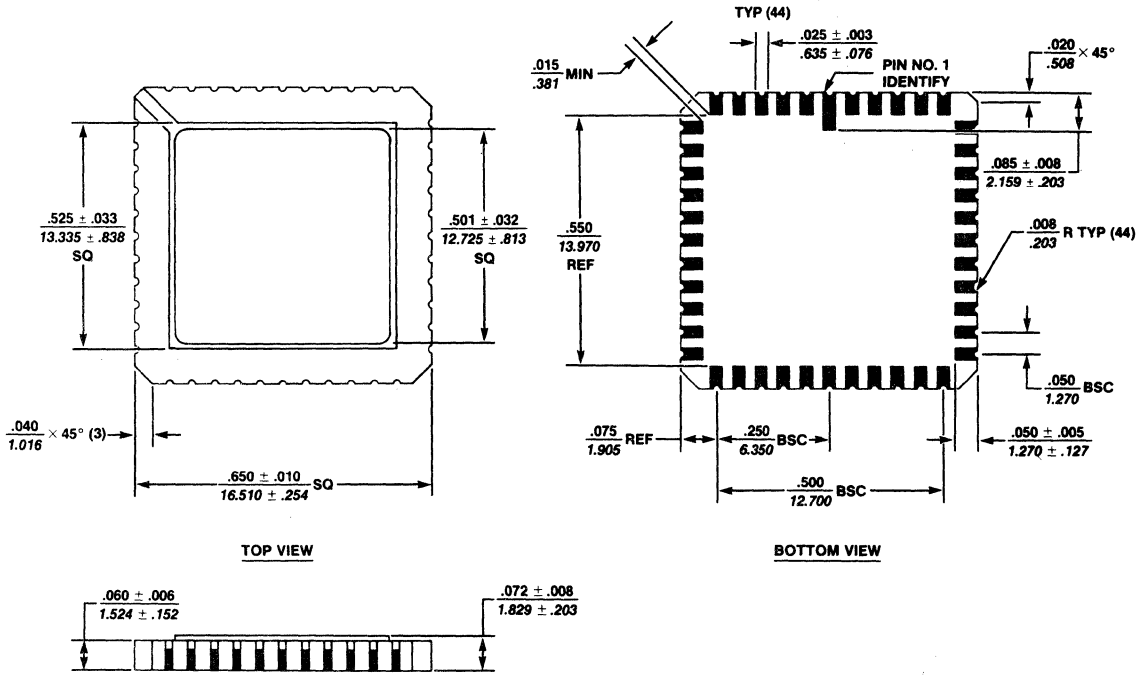


30. OUTLINE DRAWINGS

LC41

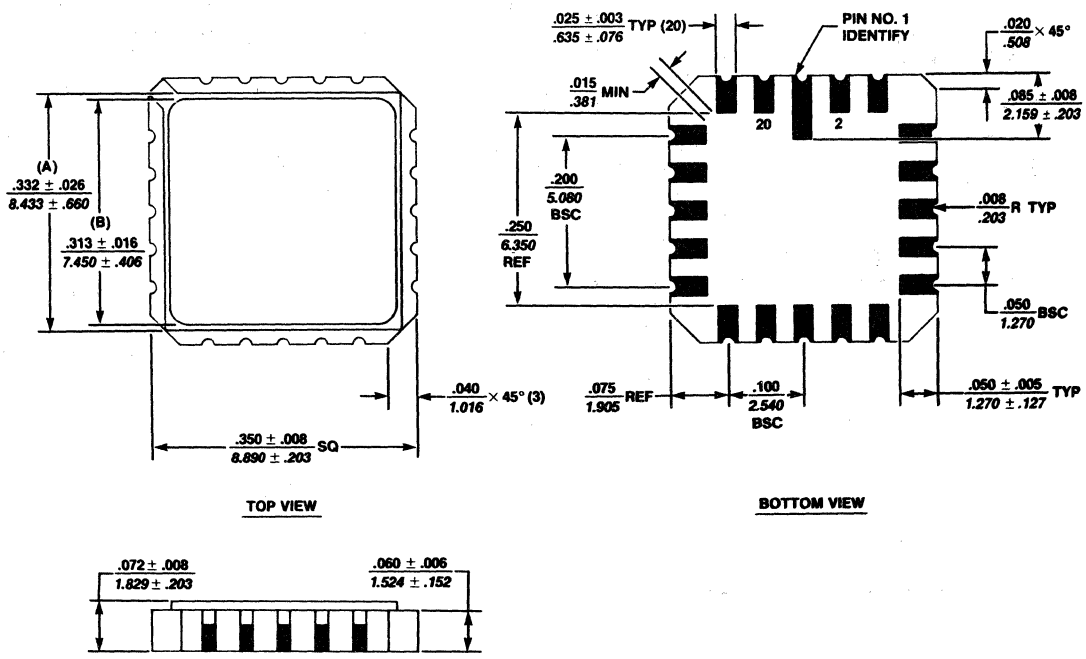


LC42

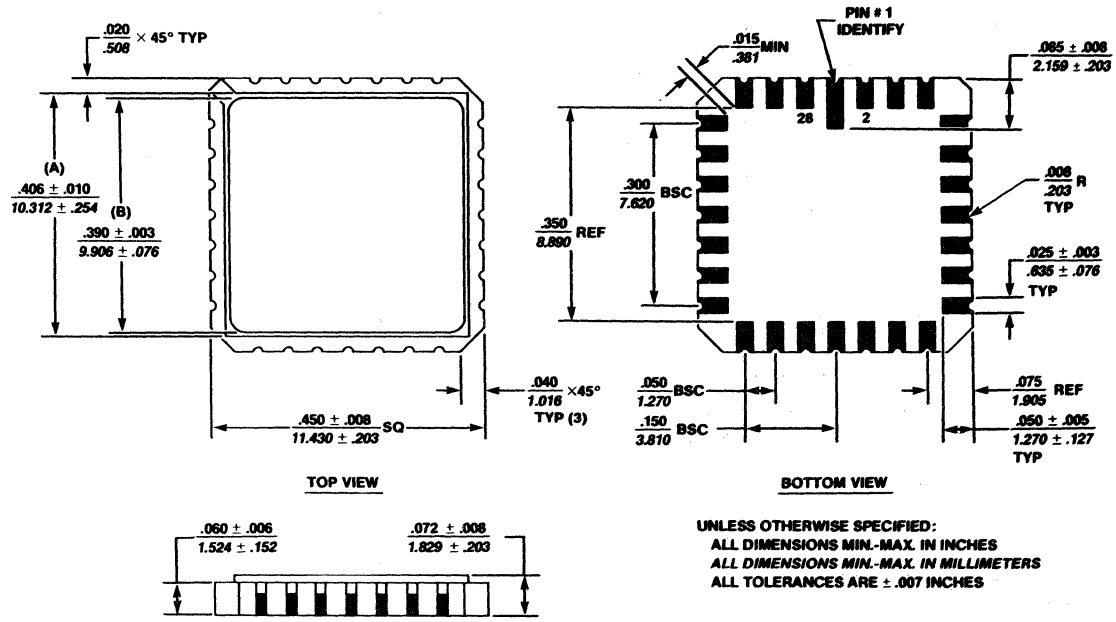


30. OUTLINE DRAWINGS

LC43



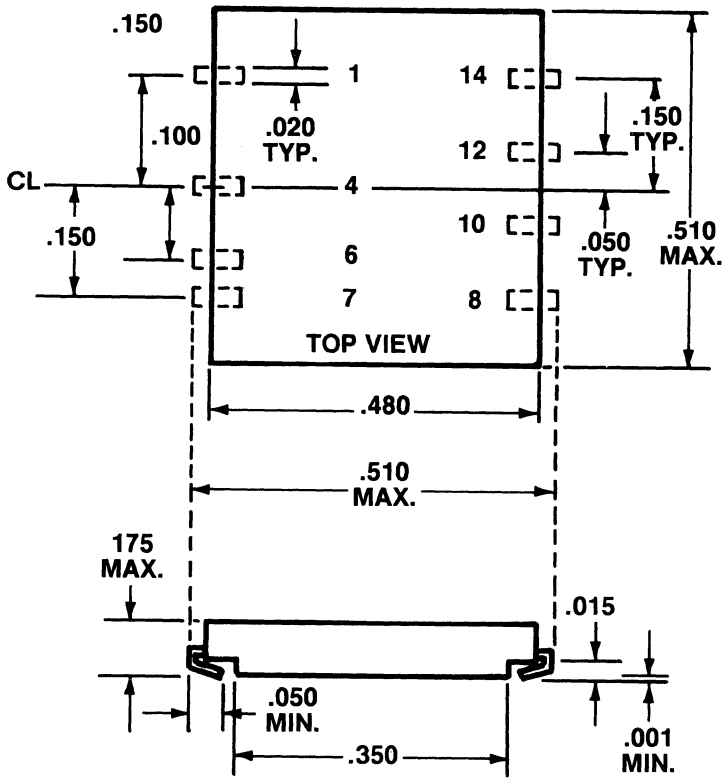
LC44



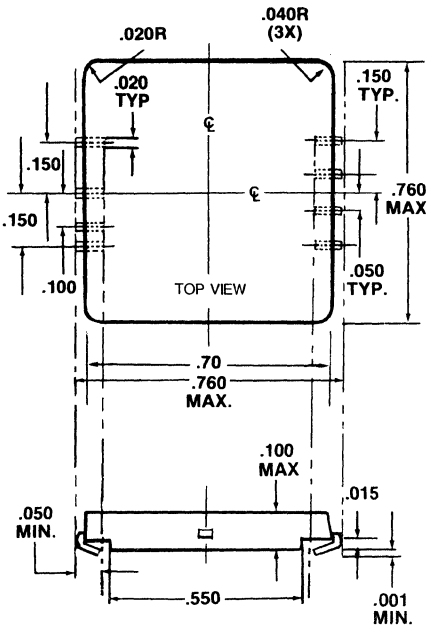
UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS MIN.-MAX. IN INCHES
ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS
ALL TOLERANCES ARE ± .007 INCHES

30. OUTLINE DRAWINGS

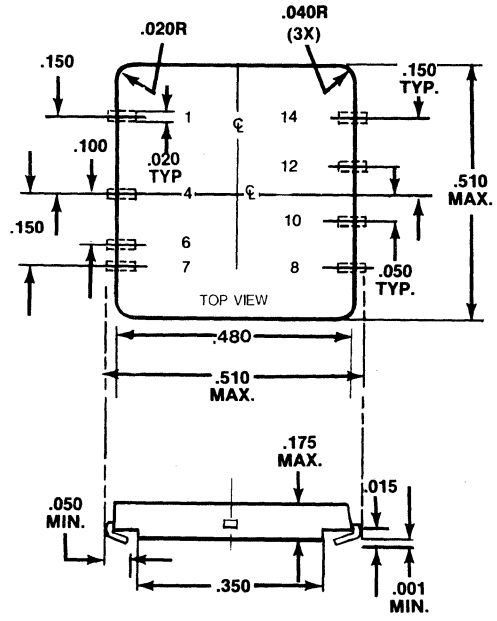
LC46



LC48



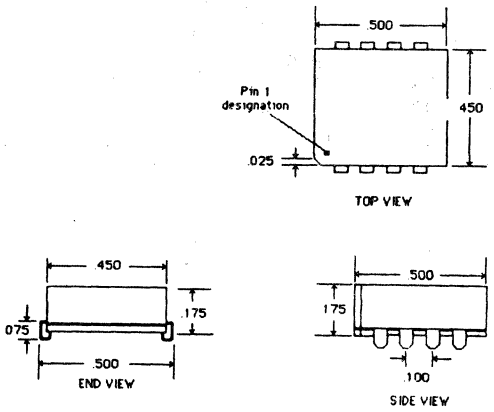
LC47



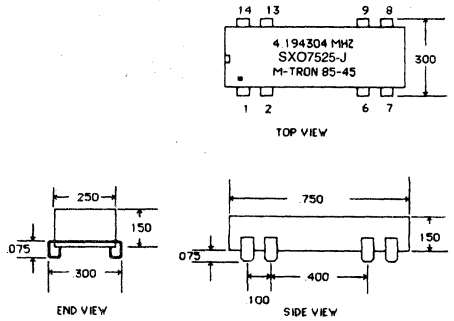
	A	B	C	D	E	F	G	H	J
LC47	.510 MAX	.510 MAX	.480	.150	.100			.175 MAX	.350
LC47a	.760 MAX	.760 MAX	.70		.150	.150	.100	.100 MAX	.550

30. OUTLINE DRAWINGS

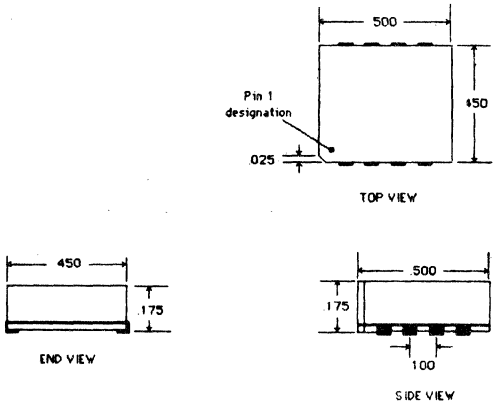
LC49



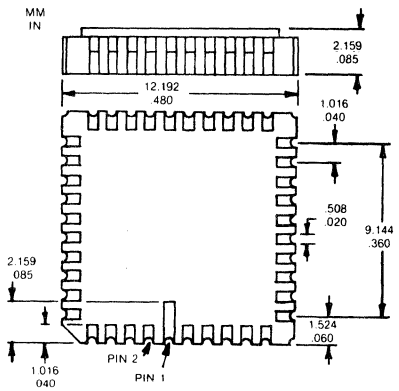
LC51



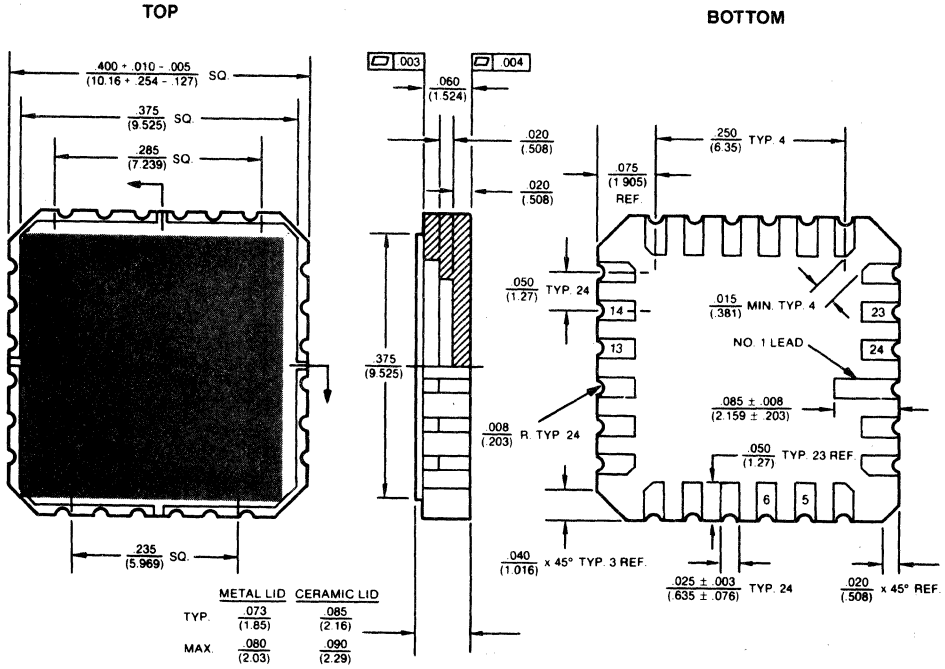
LC50



LC55

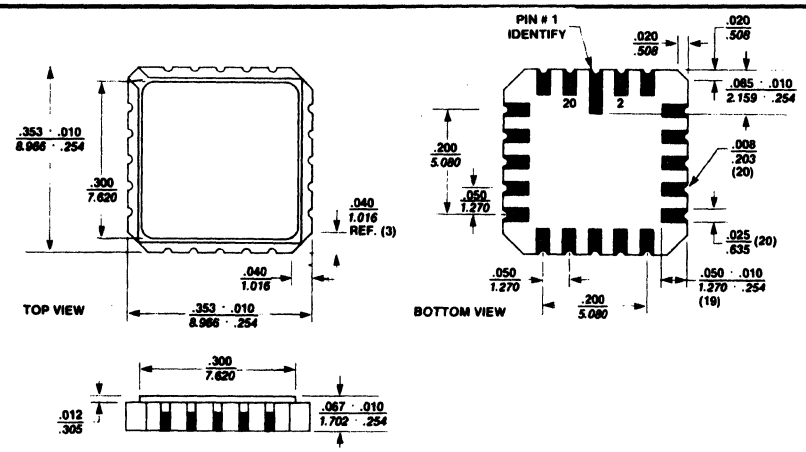


LC52

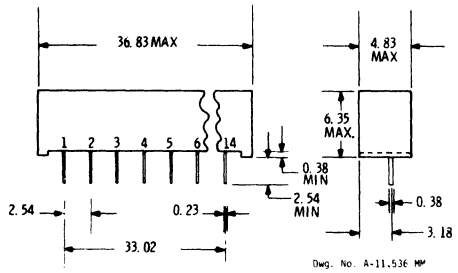


30. OUTLINE DRAWINGS

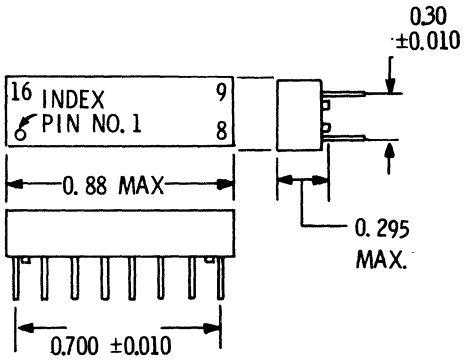
LC16



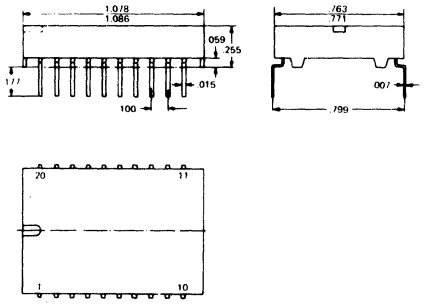
MD14F



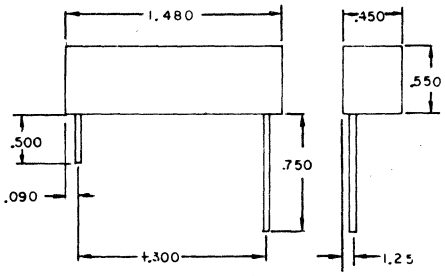
MD16A



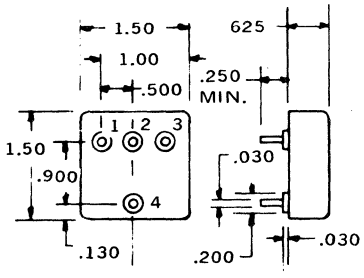
MD20A



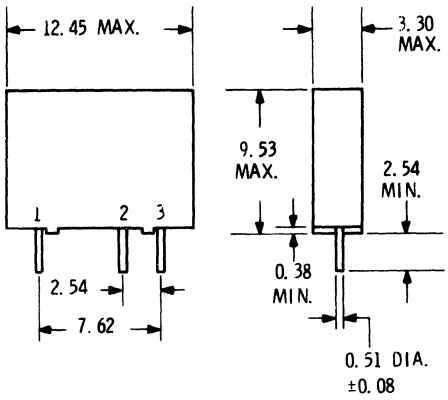
MD2A



MD4A

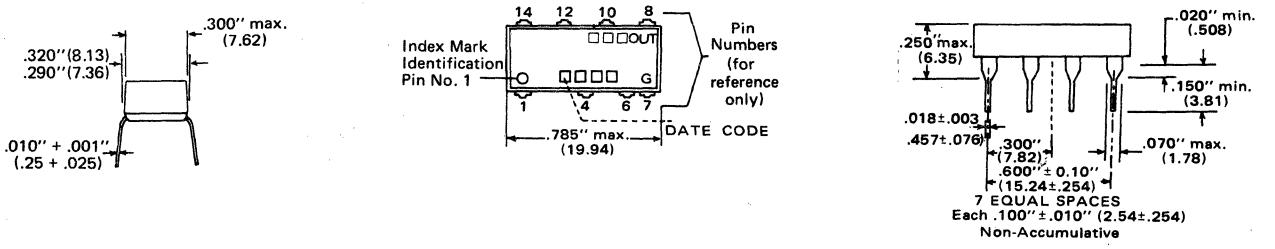


MD3A

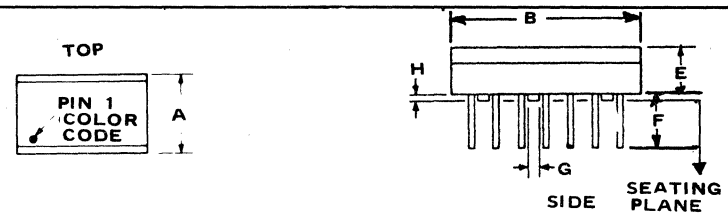


30. OUTLINE DRAWINGS

MO003

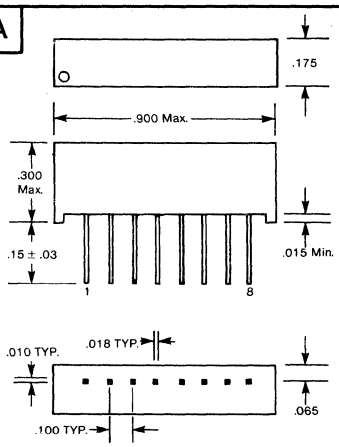


MD14A

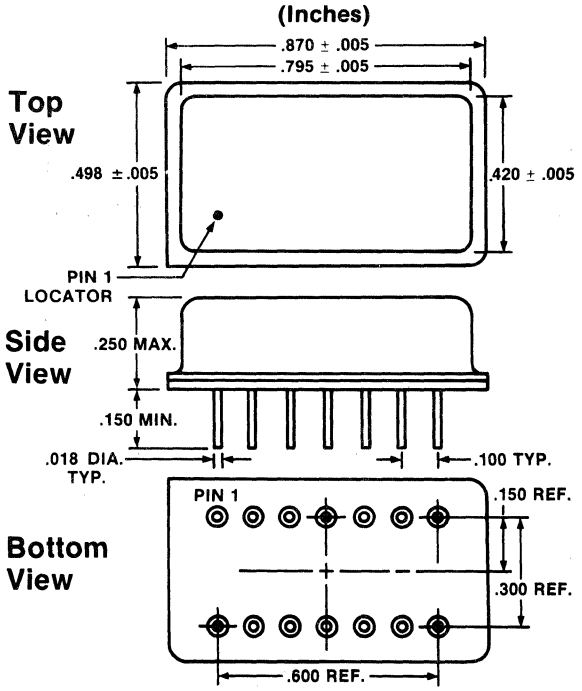


	A	B	C	D	E	F	G	H	REMARKS
MD14A	.475	.810	.300	.100	.215	.250	NA	NA	
MD14Aa	.475	.810	.300	.100	.215	.250	NA	NA	OMIT PINS 9, 10, 12, 13
MD14Ab	.475	.810	.300	.100	.215	.250	NA	NA	OMIT PINS 2, 6, 8, 9, 10, 12, 13
MD14Ac	.390 MAX	.770 MAX	.300 TP	.100 TP	.190 MAX	.194 .222	.045 TYP	.020 MIN	STANDOFFS

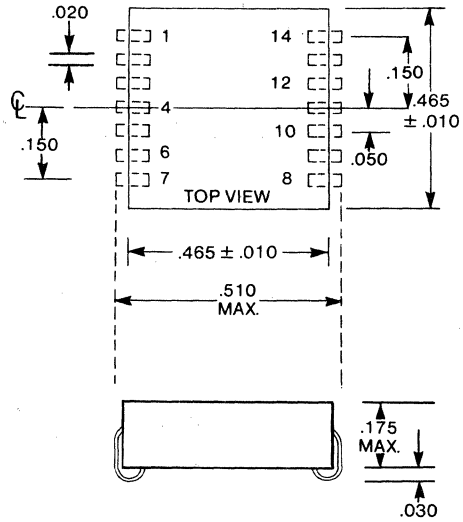
MD8A



MD14I

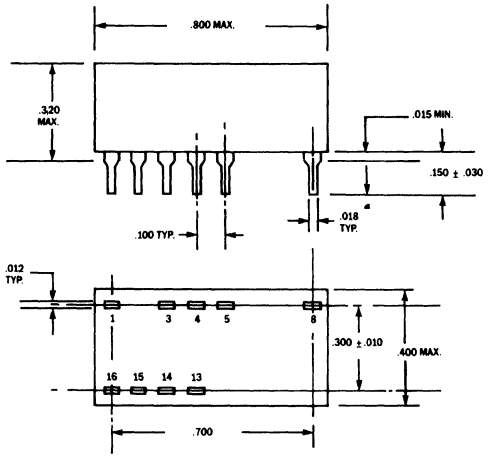


MD141

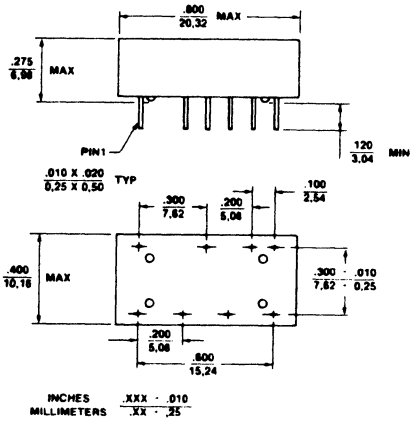


30. OUTLINE DRAWINGS

MD16B

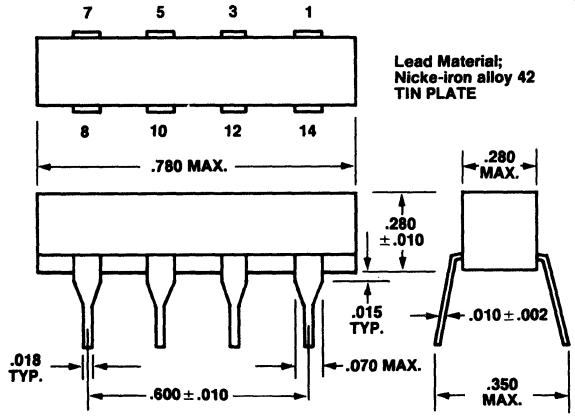


MD23A

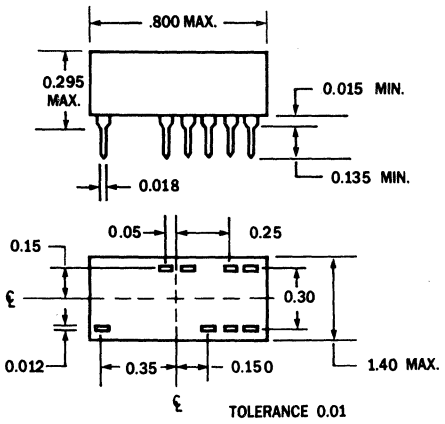


MD23A - Round Lead

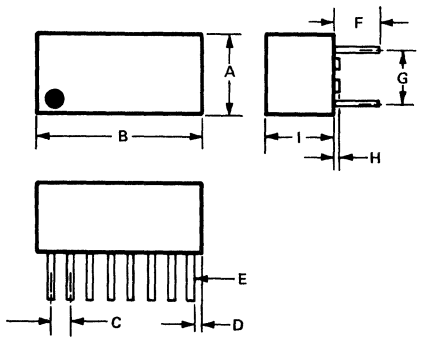
MD14N



MD16C

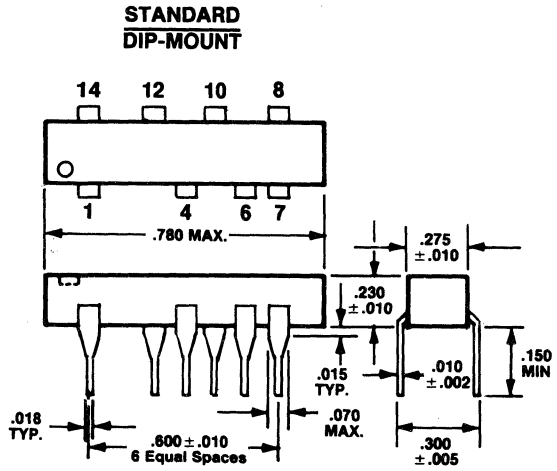


MD30

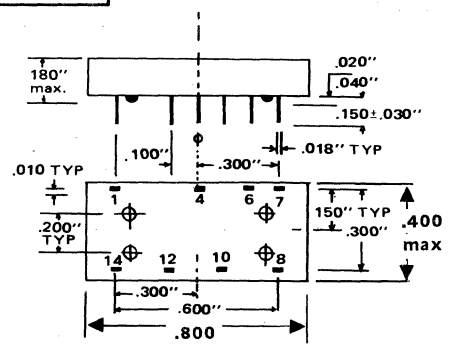


30. OUTLINE DRAWINGS

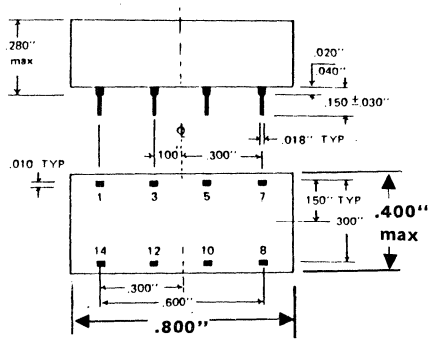
MD14J



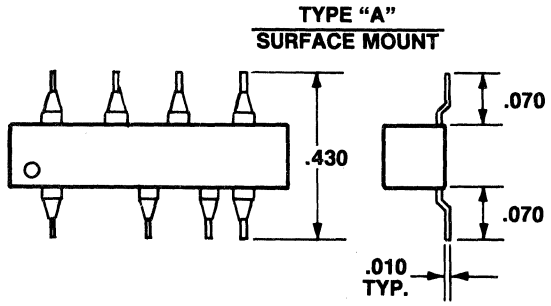
MD29



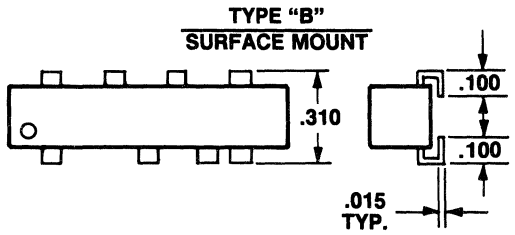
MD28



MD14K

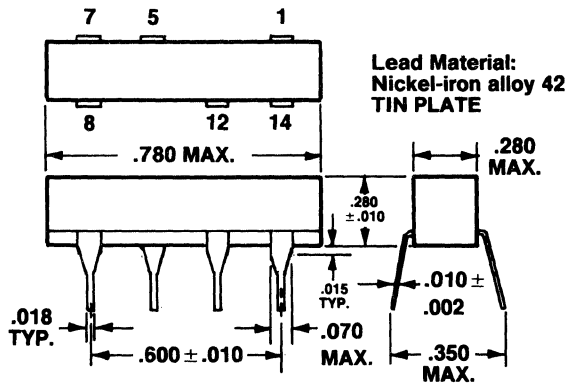


MD14L

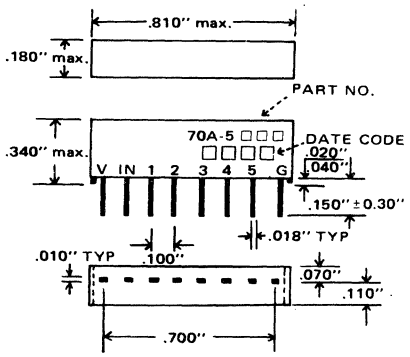


30. OUTLINE DRAWINGS

MD14M

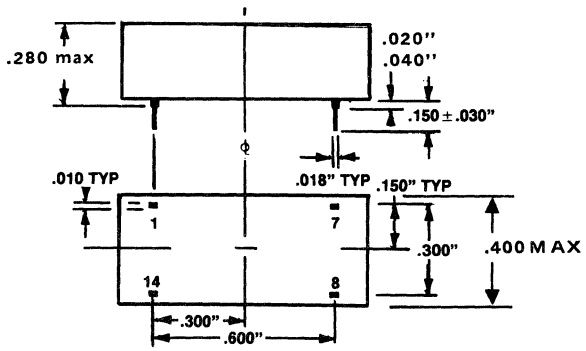


MD-30



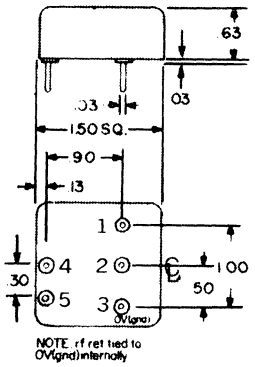
	A	B	C	D	E	F	G	H	I	REMARKS
MD30	.180 MAX	.810 MAX		Single Row				.200 .400	.340 MAX	Single In-Line
MD30a	11.7 MAX	22.6 MAX	2.54	2.29	0.46 Dia	6.7	7.6	0.31	9.53	Std 16-Pin DIP Socket
MD30b	10.4 MAX	20.8 MAX	2.54		0.46	3.3 ±.76	7.6	0.51	7.11	Std 14-Pin DIP Socket
MD30c	10.4 MAX	46.0	2.54		0.46	3.81	7.6	0.64	7.37	Std 32-Pin DIP Socket
MD30d	10.9 MAX	12.7 MAX	2.54		0.51		7.6	0.51	7.11	Std 8-Pin DIP Socket
MD30e	14.4 MAX	44.4	2.54	1.52	0.52 Dia	5.08	10.9		7.24	5-Pin Non-Standard Socket
MD30f	12.7	22.3	2.54	1.78	0.46 Dia	6.73	7.6	.31	12.7	Std 16-Pin DIP Socket
MD30g	10.2 MAX	41.9	2.54	1.9			7.6		8.1	Std 32-Pin Socket
MD30h	10.2	58.4	2.54	1.9			7.6		8.1	Std 48-Pin Socket
MD30i	14.7 MAX	32.2	2.54				15.2	.38	7.1	24-Pin DIP

MD25A

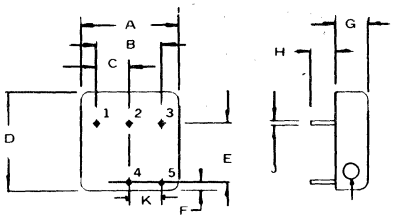


30. OUTLINE DRAWINGS

MD5

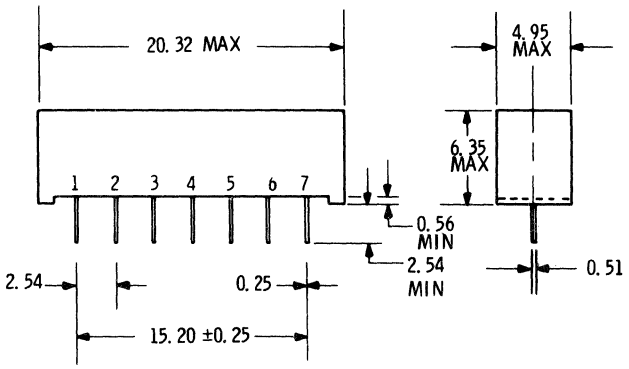


MD5A

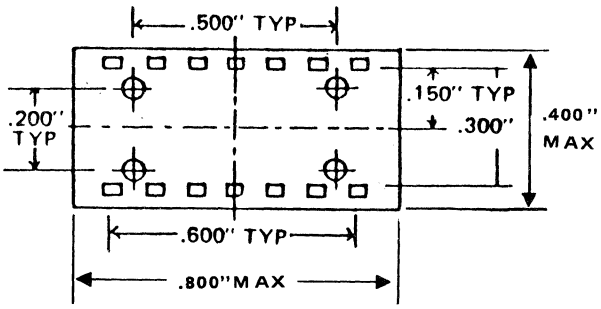


	A	B	C	D	E	F	G	H	J	K
MD5A	1.50	1.00	.500	1.50	.900	.130	.500	.400 MIN	.040	.300
MD5Aa	1.50	1.00	.500	1.50	1.00		.300	.300 MIN	.040	
MD5Ab	.970	1.00	.500	.970	.500		.500	.250 MIN	.040	

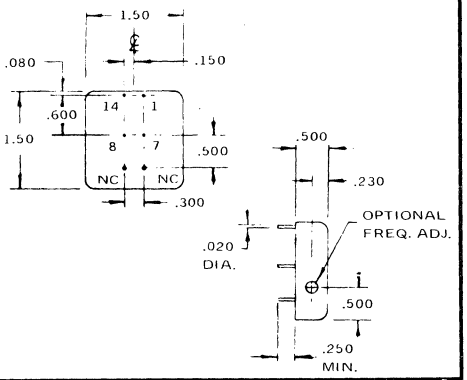
MD7A



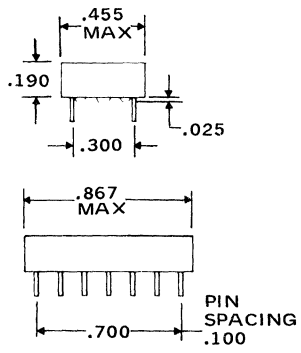
MD7Az



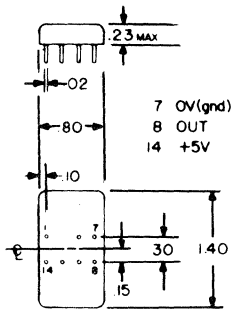
MD14B



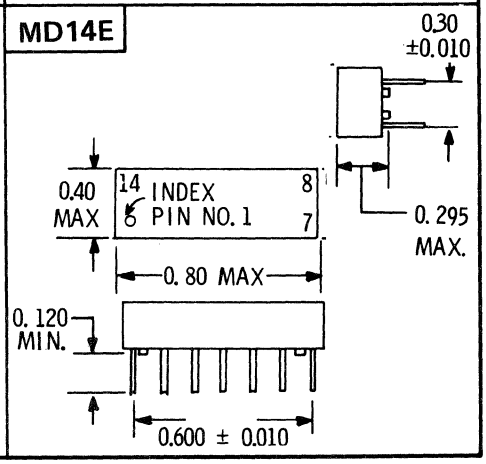
MD14C



MD14D

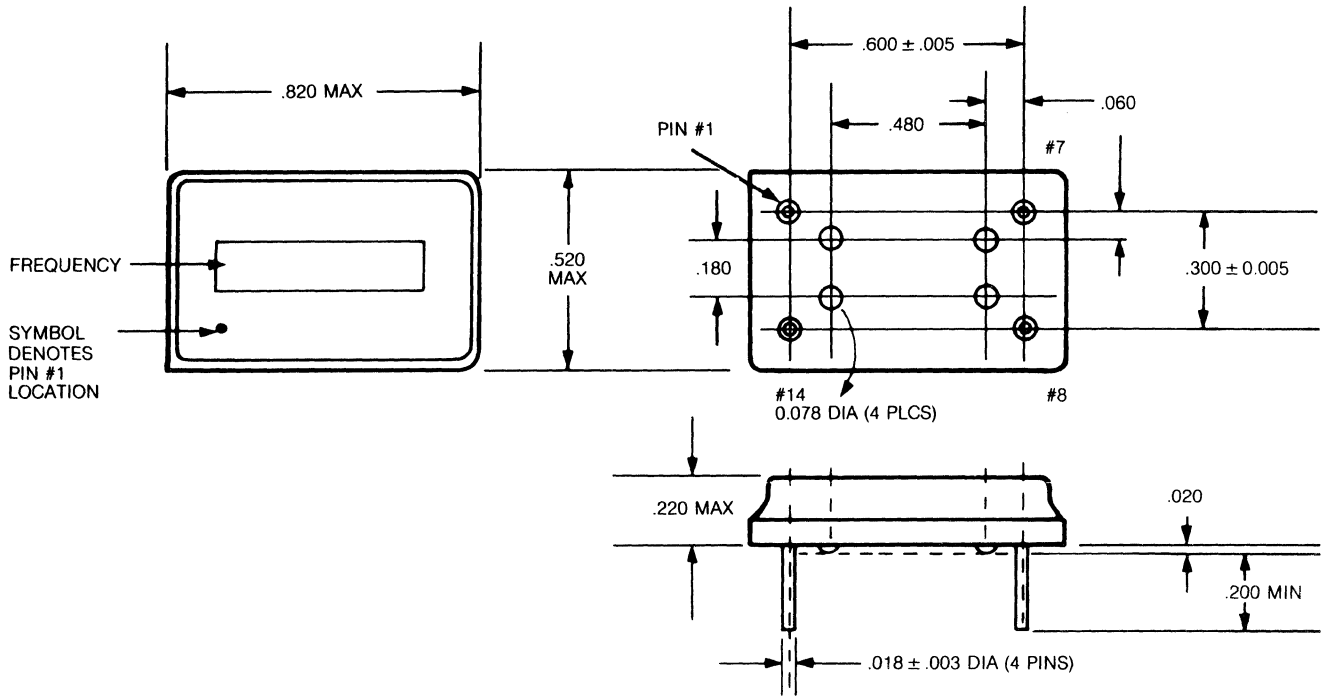


MD14E



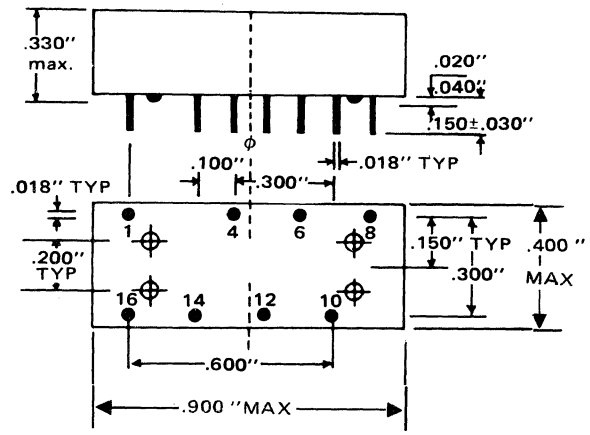
30. OUTLINE DRAWINGS

MD27

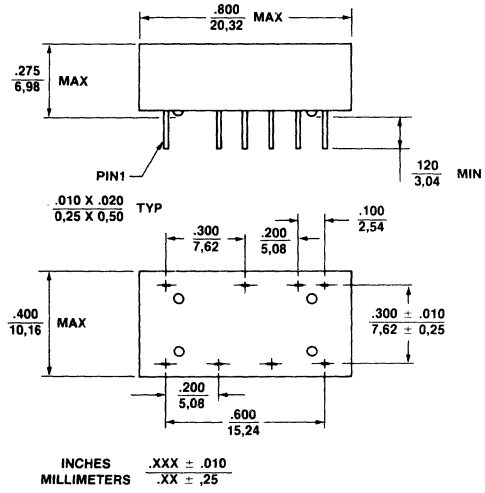


MD27z

Delay Line – 16 Pin

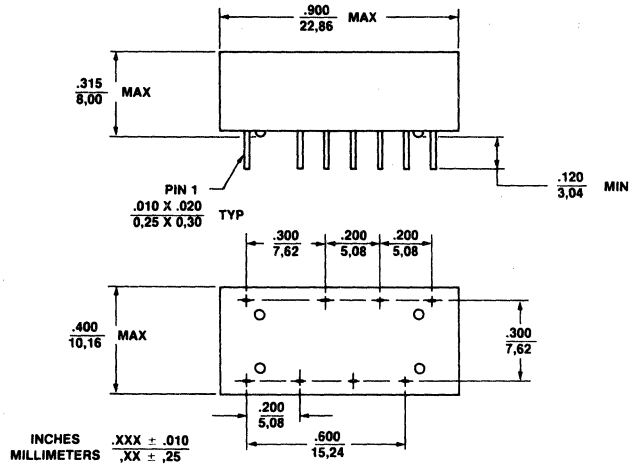


MD23

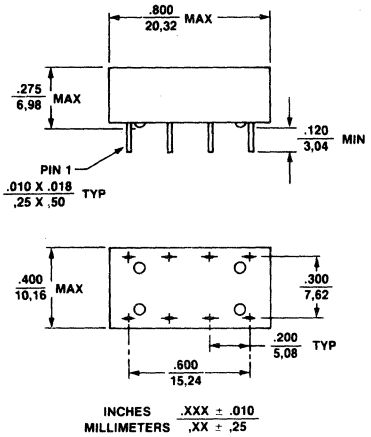


30. OUTLINE DRAWINGS

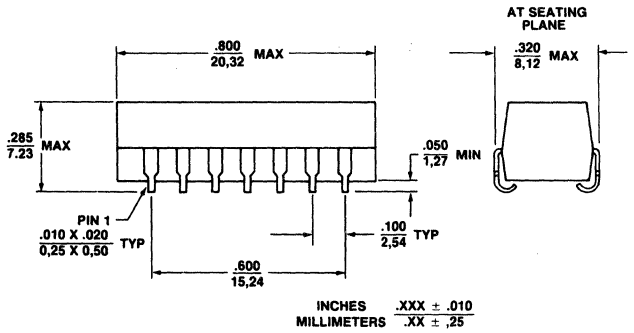
MD24



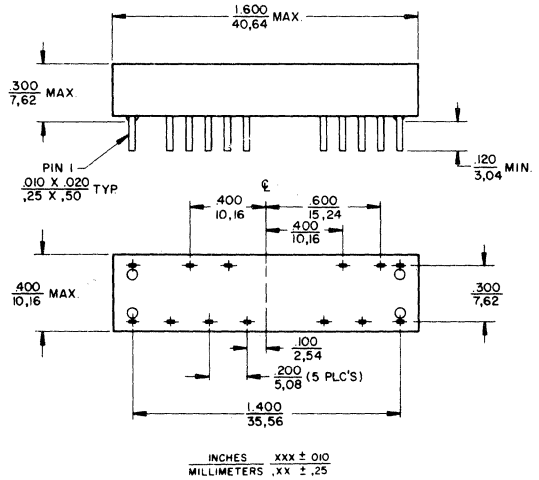
MD25



MD22

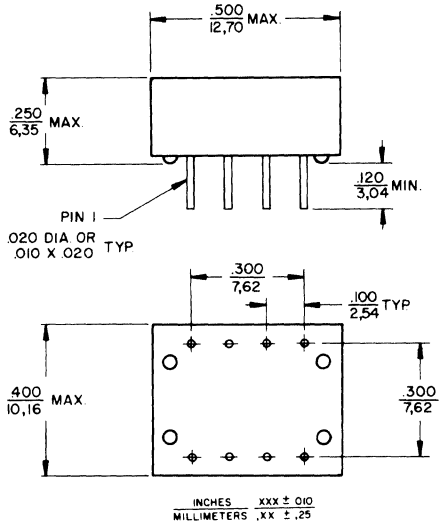


MD26

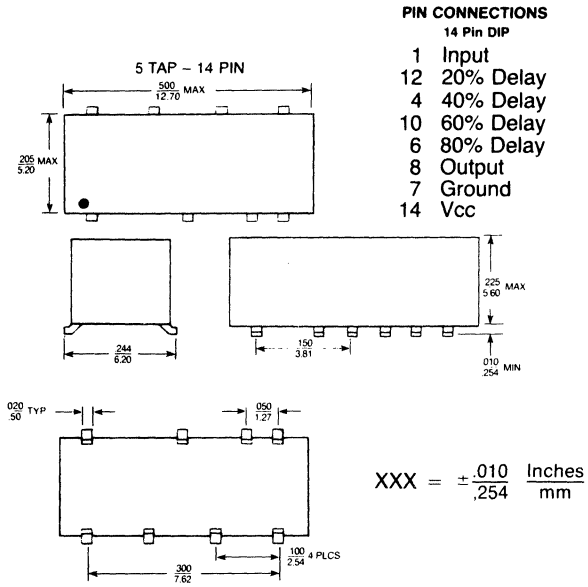


30. OUTLINE DRAWINGS

MD21



MD32

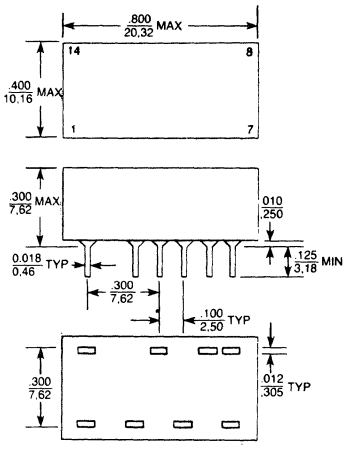


PIN CONNECTIONS
14 Pin DIP

1	Input
12	20% Delay
4	40% Delay
10	60% Delay
6	80% Delay
8	Output
7	Ground
14	Vcc

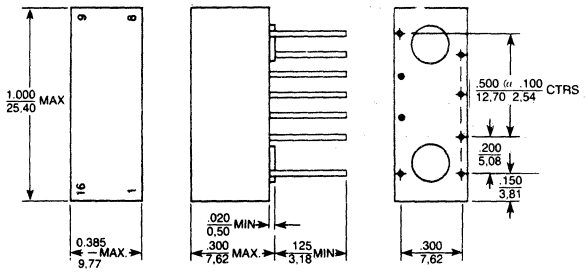
XXX = $\pm\frac{.010}{,254}$ $\frac{\text{Inches}}{\text{mm}}$

MD33

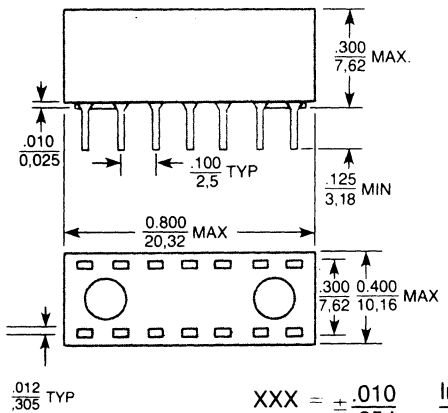


XXX = $\pm\frac{.010}{,254}$ $\frac{\text{Inches}}{\text{mm}}$

MD34



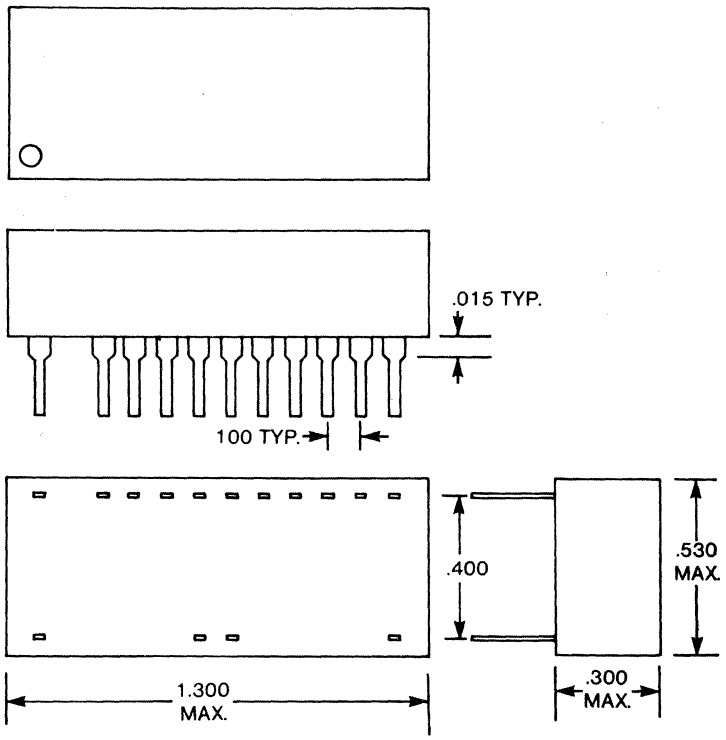
MD35



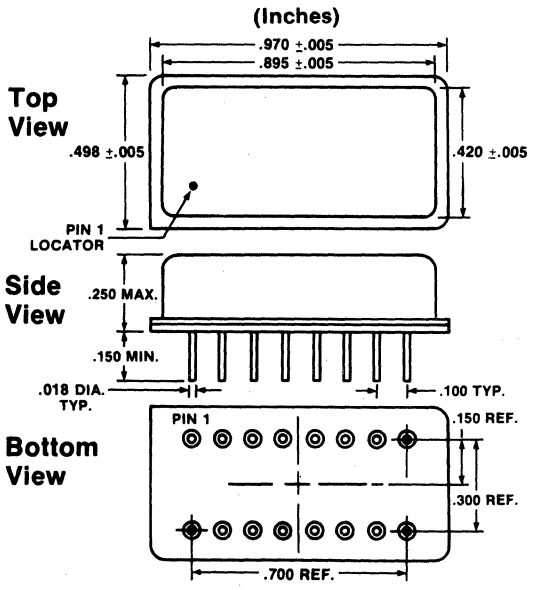
XXX = $\pm\frac{.010}{,254}$ $\frac{\text{Inches}}{\text{mm}}$

30. OUTLINE DRAWINGS

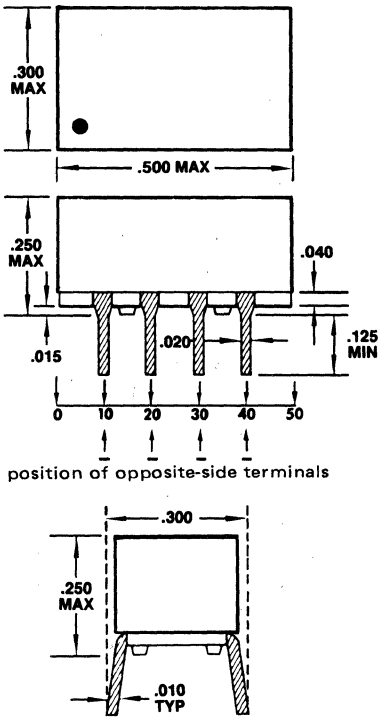
MD24A



MD16D

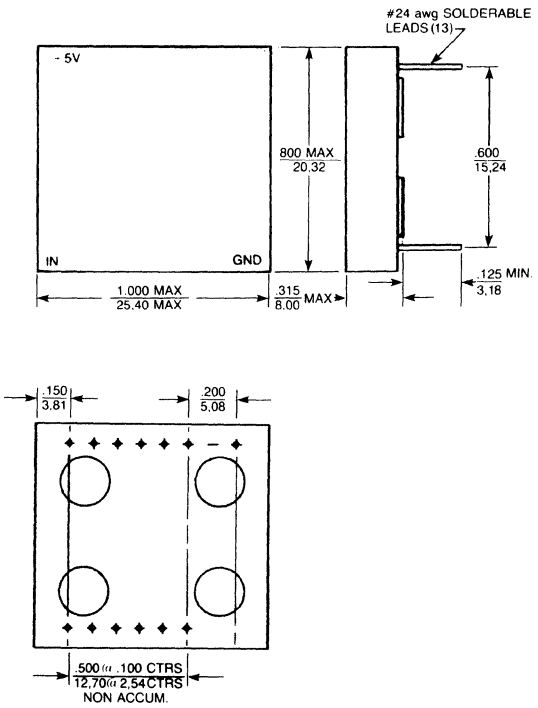


MD42

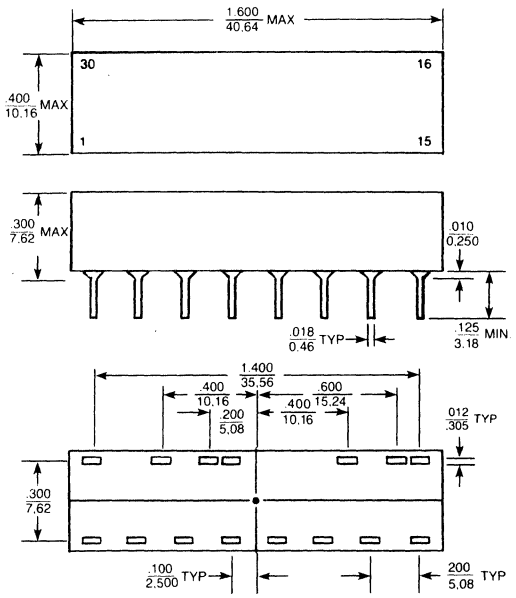


30. OUTLINE DRAWINGS

MD36

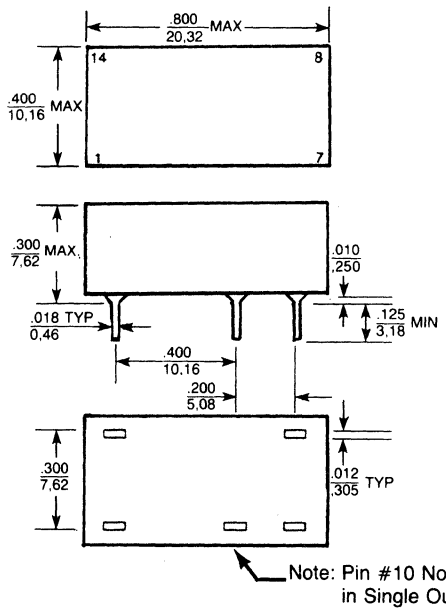


MD37



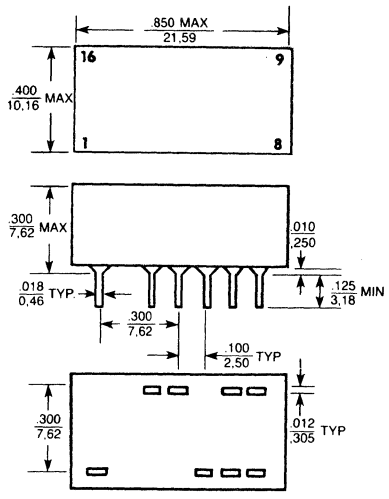
MD38

XXX = ±.010 / ,254 Inches / mm



Note: Pin #10 Not Included in Single Output Device

MD39

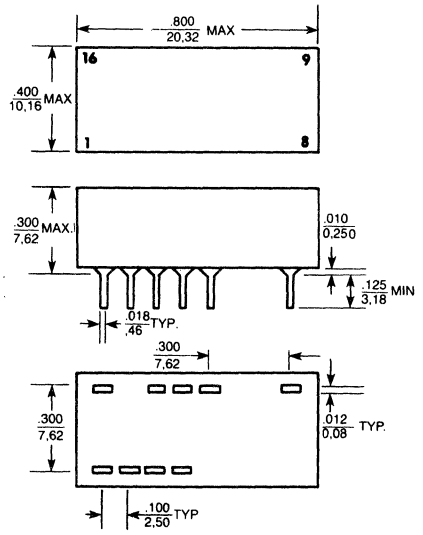


XXX = ±.010 / ,254 Inches / mm

30. OUTLINE DRAWINGS

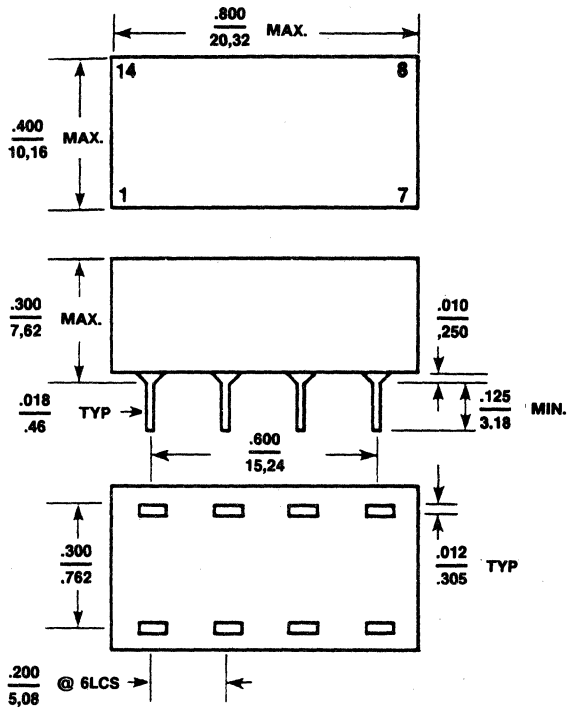
MD40

XXX = ±.010/,254 Inches/mm

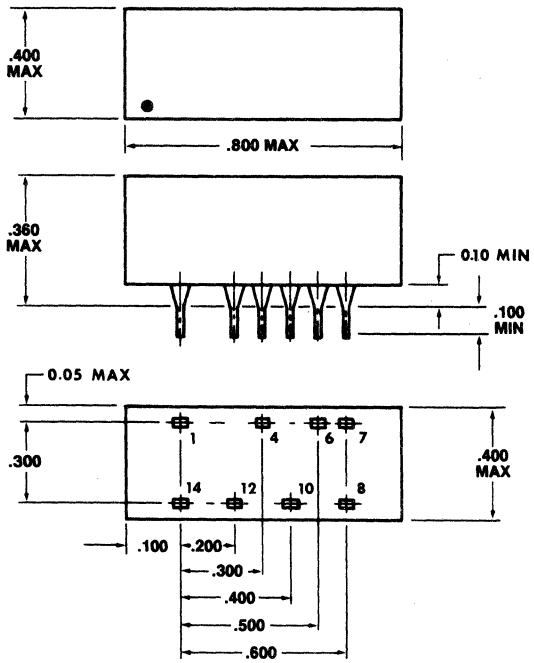


MD41

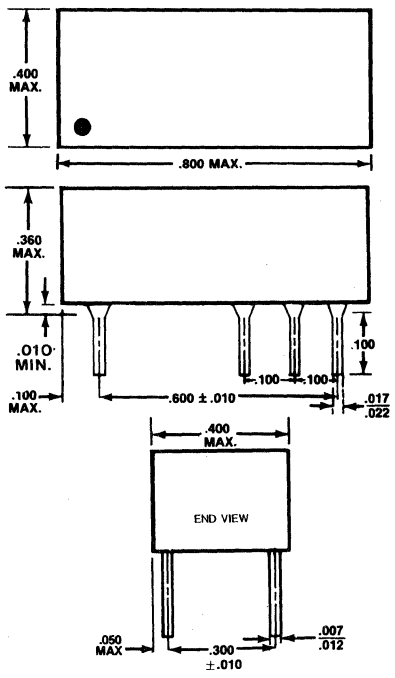
XXX = ±.010/,254 Inches/mm



MD43

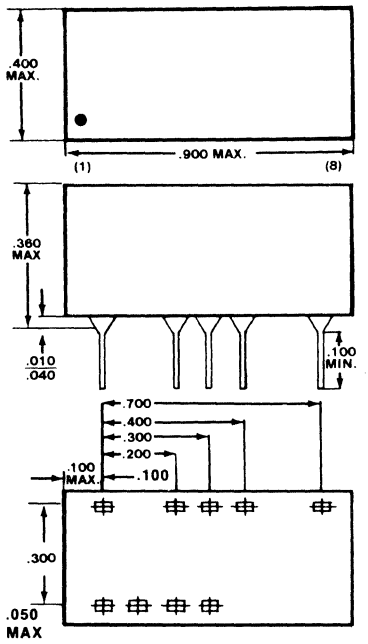


MD44

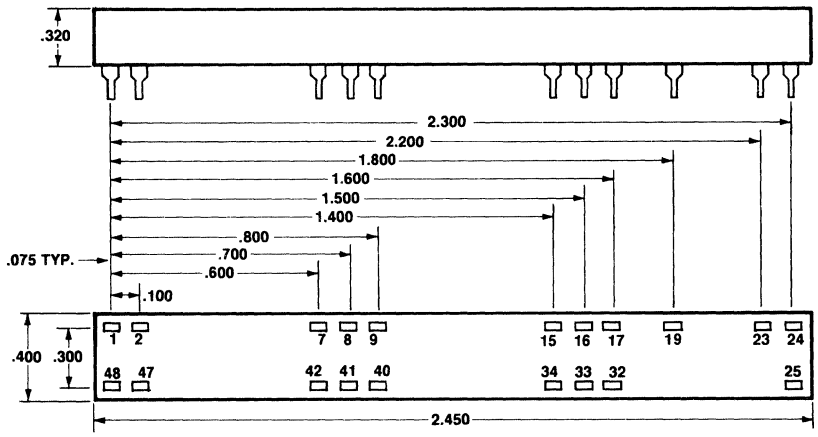


30. OUTLINE DRAWINGS

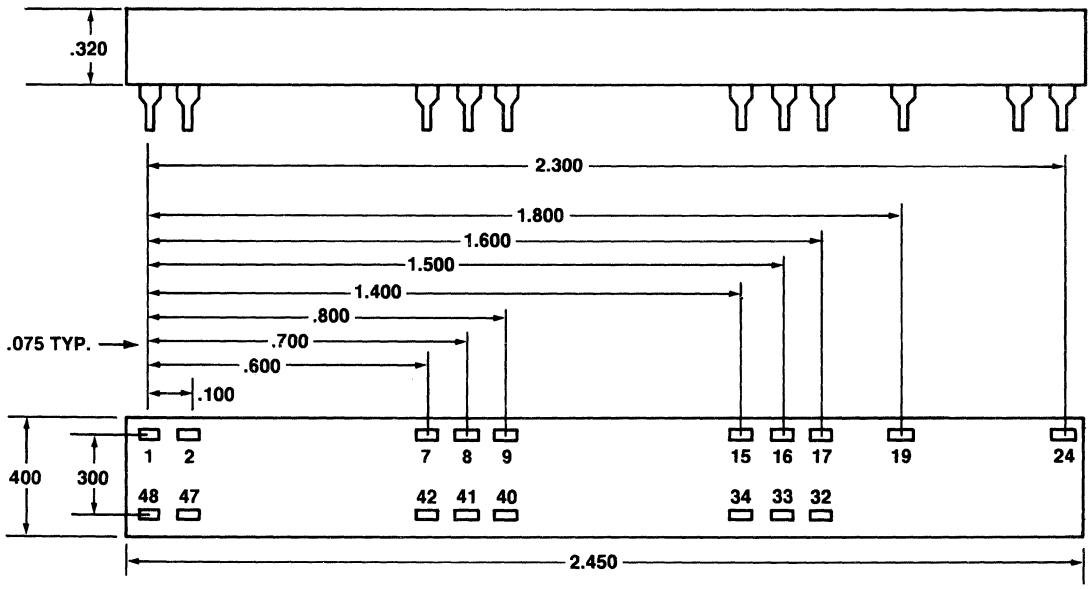
MD48



MD48B

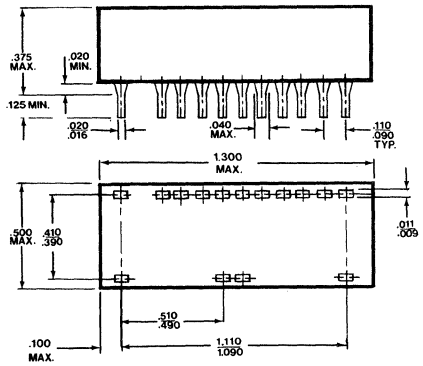


MD48A

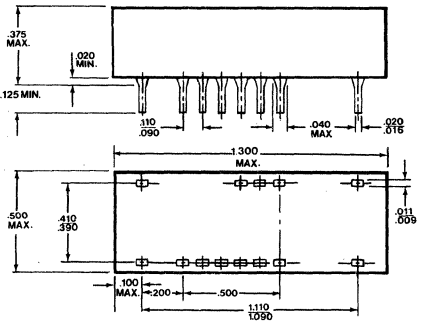


30. OUTLINE DRAWINGS

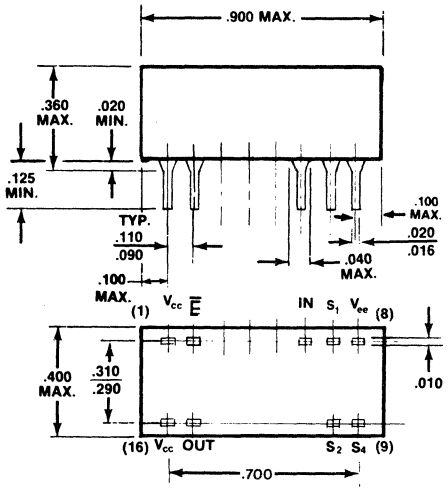
MD45



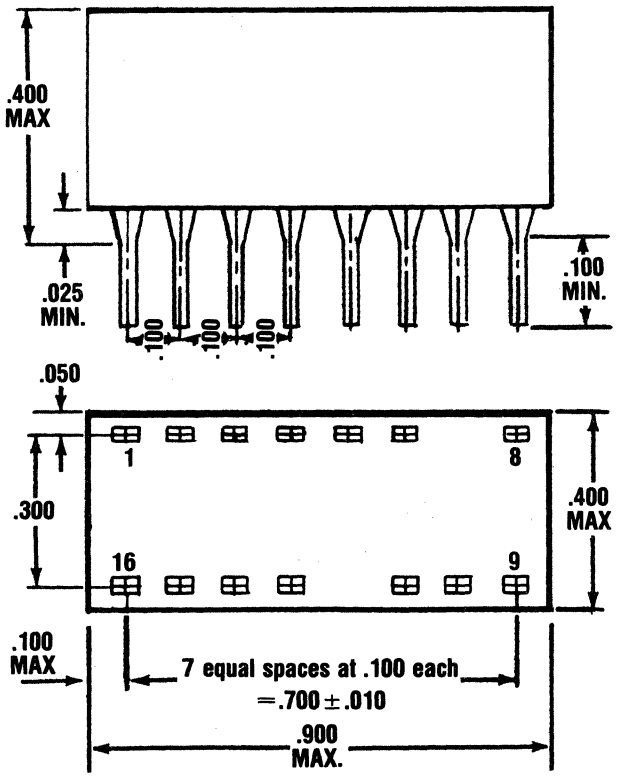
MD46



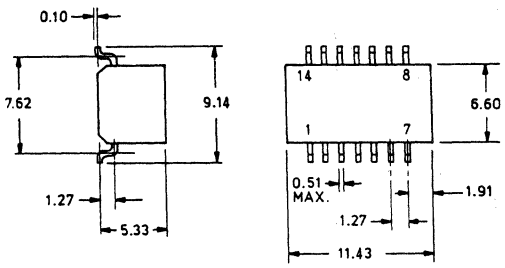
MD47



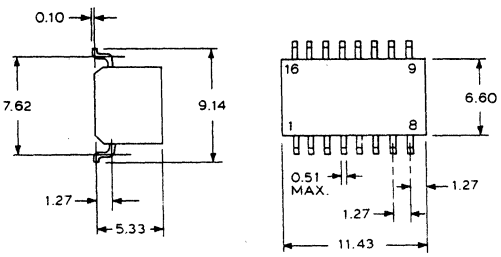
MD49



MS014

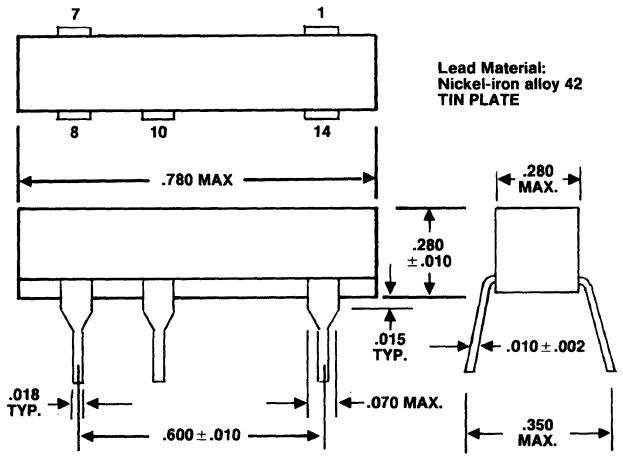


MS016

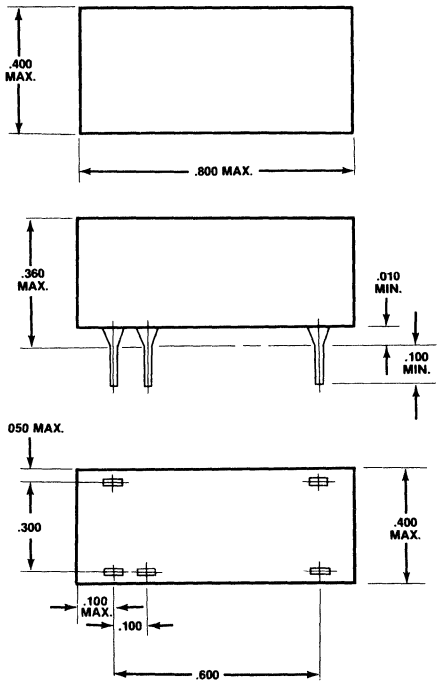


30. OUTLINE DRAWINGS

MD140

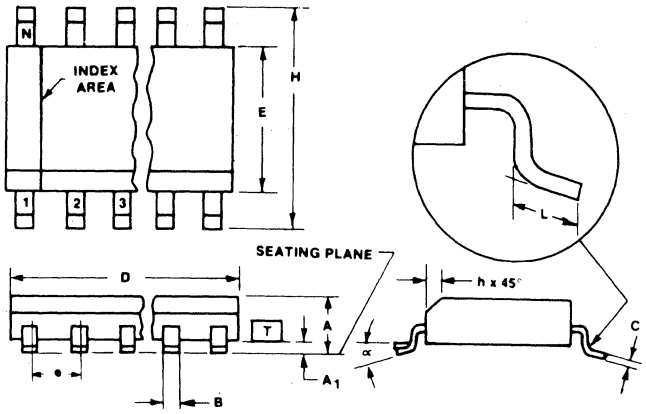


MD50



MS012AB/MS012b

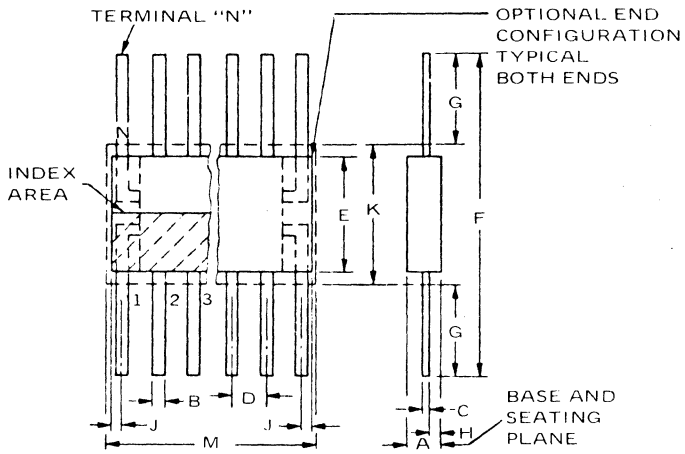
MS012AC/MS012c



SYMBOL	MS012AB/MS012b		MS012AC/MS012c	
	MILLIMETERS			
	MIN.	MAX.	MIN.	MAX.
A	1.35	1.75	1.35	1.75
A_1	0.10	0.25	0.10	0.25
B	0.35	0.49	0.35	0.49
C	0.19	0.25	0.19	0.25
D	8.55	8.75	9.80	10.00
E	3.80	4.00	3.80	4.00
e	1.27 BSC		1.27 BSC	
H	5.80	6.20	5.80	6.20
h	0.25	0.50	0.25	0.50
L	0.40	1.27	0.40	1.27
N	14		16	
∝	0°	8°	0°	8°

30. OUTLINE DRAWINGS

MO019



NOTES:

Leads within .005 radius of True Position (TP) at maximum material condition.

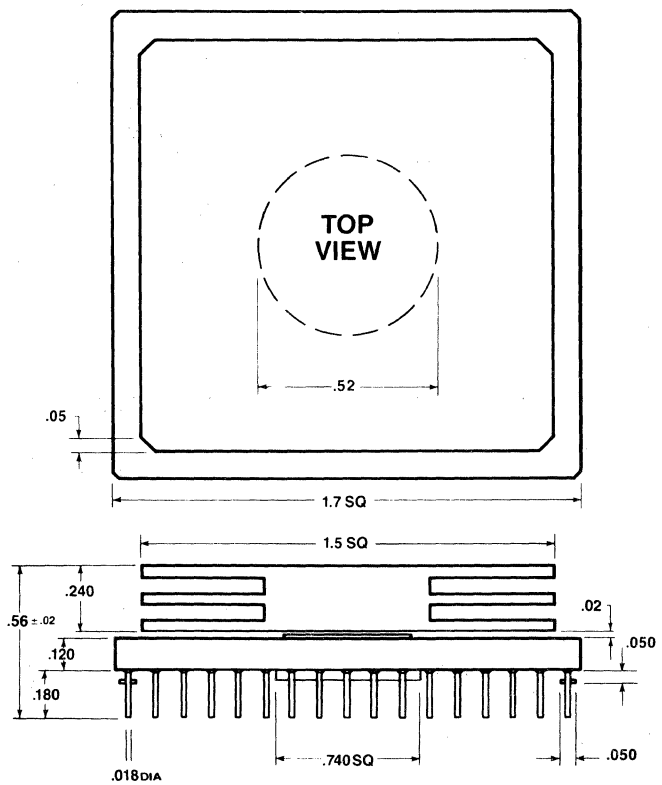
N is the maximum quantity of lead positions.

K and M determine a zone within which all body and lead irregularities lie.

Controlling dimensions: INCH.

	A	B	C	D	E	F	G	H	J	K	M	N	NOTES
MC019AA	.008	.015	.003	.050	.300	.700	.150	.005	.000	.400	.650	24	1,2,6
	.120	.019	.006	TP	.400	1.200	.400	.050	.050				
NOTES				3						5	5	4	
MC019AB	.008	.018	.003	.050	.300	.700	.150	.005	.000	.400	.800	28	1,2,6
	.120	.022	.006	TP	.400	1.200	.400	.050	.075				
NOTES				3						5	5	4	
MC019AC	.065	.015	.003	.050	.300	.940	.270	.005	.000	.400	.650	24	1,2,6
	.120	.019	.006	TP	.400	1.200	.400	.050	.050				
NOTES				3						5	5	4	
MC019AD	.065	.015	.003	.050	.300	.940	.270	.005	.000	.400	.800	28	1,2,6
	.120	.019	.006		.400	1.200	.400	.050	.050				
NOTES				3						5	5	4	

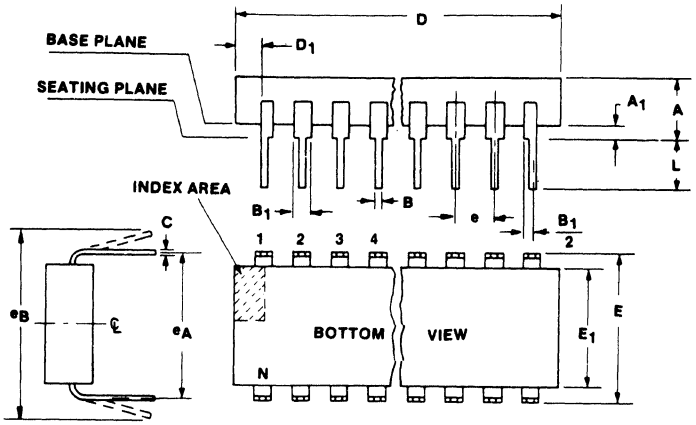
PG169



30. OUTLINE DRAWINGS

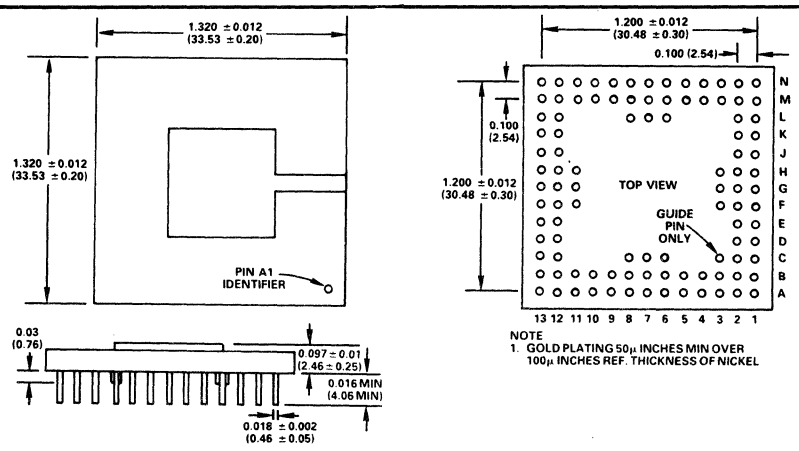
MS001AA/MS001a

MS001AC/MS001c



	MS001AA/MS001a		MS001AC/MS001c	
	MILLIMETERS			
SYMBOL	MIN.	MAX.	MIN.	MAX.
A	–	5.33	–	5.33
A_1	0.39	–	0.39	–
A_2	2.93	4.95	2.93	4.95
B	0.356	0.558	0.356	0.558
B_1	1.15	1.77	1.15	1.77
C	0.204	0.381	0.204	0.381
D	18.93	21.33	18.42	20.19
D_1	0.13	–	0.13	–
E	7.62	8.25	7.62	8.25
E_1	6.10	7.11	6.10	7.11
e	2.54 BSC		2.54 BSC	
e_A	7.62 BSC		7.62 BSC	
e_B	–	10.92	–	10.92
L	2.93	4.06	2.93	4.06
N	16		14	

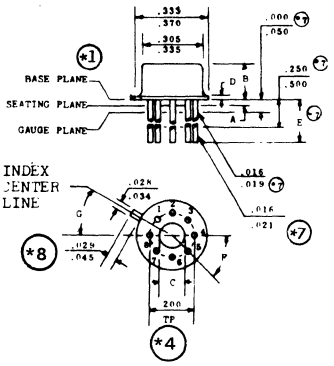
PG100



NOTE
1. GOLD PLATING 50μ INCHES MIN OVER 100μ INCHES REF. THICKNESS OF NICKEL

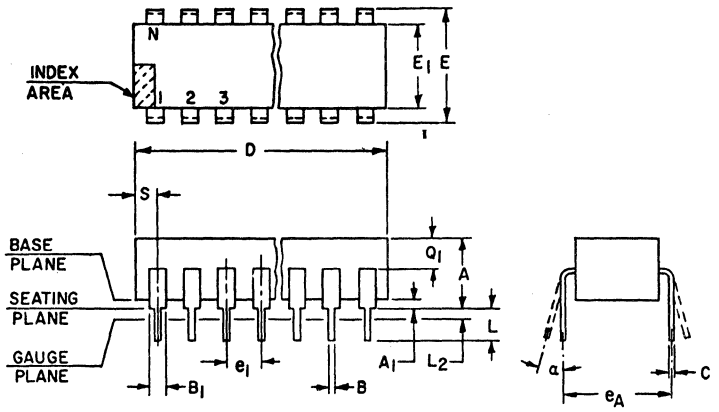
30. OUTLINE DRAWINGS

MO002



	A	B	C	D	E	F	NO. OF LEADS	NO. OF LEADS MISSING	G
MO002AA	.010 .040	.240 .260	.120 .160	.040 MAX	.500 MIN	45° TP	8	1	22.5° TP
MO002AB	.010 .040	.240 .260	.120 .160	.040 MAX	.500 MIN	45° TP	8	3	0° TP
MO002AC	0 0	.240 .260	0 0	.040 MAX	.500 MIN	30° TP	12	1	15° TP
MO002AD	0 0	.240 .260	0 0	.040 MAX	.500 MIN	36° TP	10	1	18° TP
MO002AE	0 0	.240 .260	0 0	.040 MAX	.500 MIN	60° TP	6	1	0° TP
MO002AF	0 0	.240 .260	0 0	.040 MAX	.500 MIN	45° TP	8	3	0° TP
MO002AG	0 0	.165 .185	0 0	.040 MAX	.500 MIN	45° TP	8	3	0° TP
MO002AH	0 0	.140 .160	0 0	.040 MAX	.500 MIN	45° TP	8	3	0° TP
MO002AJ	0 0	.085 .105	0 0	.040 MAX	.500 MIN	45° TP	8	3	0° TP
MO002AK	.010 .040	.165 .185	.140 .160	.040 MAX	.500 MIN	45° TP	8	3	0° TP
MO002AL	.010 .050	.165 .185	.125 .160	.020 .040	.500 .562	45° TP	8	3	0° TP

MO001



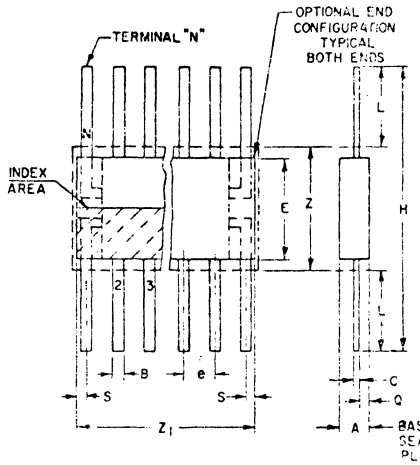
	A	A1	B	B1	C	D	E	E1	e1	eA	L	L2	a	N	N1	Q1	S	NOTES
MO001AA	.200 MAX	.020 MIN	.015 .023	.030 .070	.008 .015	.660 .785	.325 MAX	.220 .280	.100 T.P.	.300 T.P.	.100 MIN	.000 .030	0° 15°	14	0			1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO001AB	.155 .200	.020 .050	.014 .020	.050 .065	.008 .012	.745 .770	.300 .325	.240 .260	.100 T.P.	.300 T.P.	.125 .150	.000 .030	0° 15°	14	0	.040 .075	.065 .090	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO001AC	.155 .200	.020 .050	.014 .020	.035 .065	.008 .012	.745 .785	.300 .325	.240 .260	.100 T.P.	.300 T.P.	.125 .150	.000 .030	0° 15°	16	0	.040 .075	.015 .060	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO001AD	.120 .160	.020 .065	.014 .020	.050 .065	.008 .012	.745 .770	.300 .325	.240 .260	.100 T.P.	.300 T.P.	.125 .150	.000 .030	0° 15°	14	0	.050 .085	.065 .090	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO001AE	.120 .160	.020 .065	.014 .020	.035 .065	.008 .012	.745 .785	.300 .325	.240 .260	.100 T.P.	.300 T.P.	.125 .150	.000 .030	0° 15°	16	0	.050 .085	.015 .060	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO001AF	.165 .210	.015 .045	.015 .020	.045 .070	.009 .011	.750 .795	.295 .325	.245 .300	.100 T.P.	.300 T.P.	.120 .160	.000 .030	2° 15°	14	0	.050 .080	.050 .110	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO001AG	.165 .210	.015 .045	.015 .020	.045 .070	.009 .011	.750 .795	.295 .325	.245 .300	.100 T.P.	.300 T.P.	.120 .160	.000 .030	2° 15°	16	0	.050 .080	.010 .060	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO001AH	.140 .180	.015 .040	.014 .020	.044 .070	.008 .012	.730 .770	.290 .320	.240 .260	.100 T.P.	.300 T.P.	.115 .155	.000 .030	0° 15°	14	0	.050 .085	.055 .095	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO001AJ	.090 .140	.020 .070	.015 .023	.035 .055	.008 .012	.685 .760	.300 .325	.240 .285	.100 T.P.	.300 T.P.	.100 .150	.000 .030	0° 15°	14	0	.060 .080	.045 .090	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO001AK	.090 .140	.020 .070	.015 .023	.035 .055	.008 .012	.800 .840	.300 .325	.240 .285	.100 T.P.	.300 T.P.	.100 .150	.000 .030	0° 15°	16	0	.060 .080	.040 .080	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO001AL	.160 .200	.020 .045	.015 .020	.044 .070	.008 .012	.815 .890	.290 .350	.240 .260	.100 T.P.	.300 T.P.	.120 .150	.000 .030	0° 15°	16	0	.050 .085	.052 .095	1,2,10
NOTES								8	3,4	3,4			5	6	7			

NOTES:

1. Refer to applicable symbol list.
2. Dimensioning and tolerancing per ANSI Y14.5-1973.
3. Leads within .005 radius of True Position (TP) at gauge plane with maximum material condition and unit installed.
4. e_1 and e_A applies in zone L_2 when unit installed.
5. α applies to spread leads prior to installation.
6. N is the maximum quantity of lead positions.
7. N_1 is the allowable quantity of missing leads.
8. E_1 does not include mold flash.
9. Outlines on which the seating plane is coincident with the base plane (A_1 = 0) terminal lead stand-offs are not required, A_1 and B_1 may equal B along any part of the lead above the seating/base plane.
10. Controlling Dimension: INCH

30. OUTLINE DRAWINGS

MO004

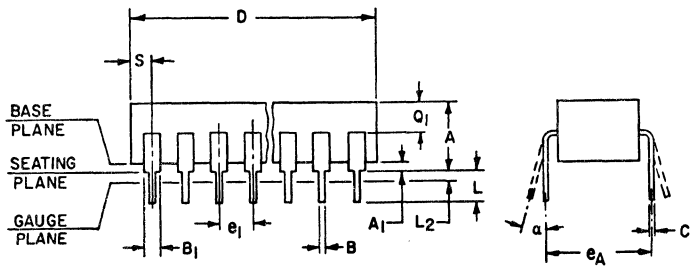


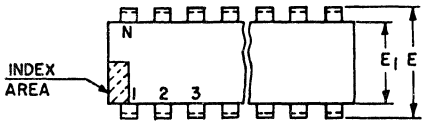
NOTES:

1. Refer to applicable symbol list.
2. Dimensioning and tolerancing per ANSI Y14.5-1973.
3. Leads within .005 radius of True Position (TP) at maximum material condition.
4. N is the maximum quantity of lead positions.
5. Z and Z_1 determine a zone within which all body and lead irregularities lie.
6. Controlling dimensions: INCH.

	A	B	C	e	E	H	L	N	Q	S	Z	Z1	NOTES
MO004AA	.008 .100	.015 .019	.003 .006	.050 TP	.200 .300	.600 1.000	.150 .350	14	.005 .050	.000 .025	.300	.350	1,2,6
NOTES								4			5	5	
MO004AB	.008 .100	.013 .017	.003 .006	.050 TP	.200 .300	.600 1.000	.150 .350	14	.005 .050	.000 .025	.300	.350	1,2,6
NOTES								4			5	5	
MO004AC	.008 .100	.015 .019	.003 .006	.050 TP	.200 .300	.600 1.000	.150 .350	14	.000 .097	.000 .025	.300	.350	1,2,6
NOTES								4			5	5	
MO004AL	.008 .100	.015 .019	.003 .006	.050 TP	.200 .300	.600 1.000	.150 .350	10	.005 .050	.000 .050	.300	.300	1,2,6
NOTES								4			5	5	
MO004AE	.008 .100	.015 .019	.003 .006	.050 TP	.200 .300	.600 1.000	.150 .350	10	.005 .050	.000 .025	.300	.250	1,2,6
NOTES								4			5	5	
MO004AF	.008 .100	.015 .019	.003 .006	.050 TP	.200 .300	.600 1.000	.150 .350	14	.005 .050	.000 .050	.300	.400	1,2,6
NOTES								4			5	5	
MO004AJ	.008 .100	.015 .019	.003 .006	.050 TP	.200 .300	.600 1.000	.150 .350	14	.005 .050	.000 .025	.300	.400	1,2,6
NOTES								4			5	5	
MO004AH	.008 .100	.015 .019	.003 .006	.050 TP	.200 .300	.600 1.000	.150 .350	16	.005 .050	.000 .050	.300	.450	1,2,6
NOTES								4			5	5	

MO015





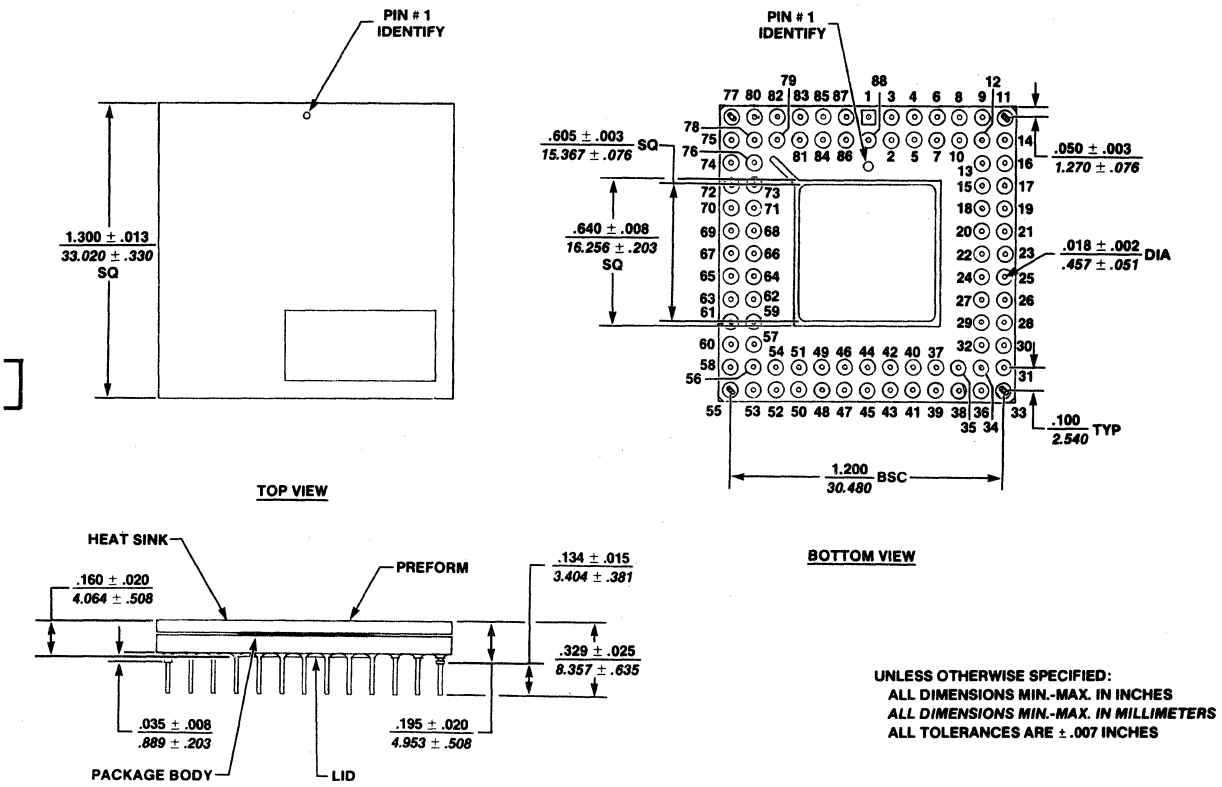
	A	A1	B	B1	C	D	E	E1	e1	eA	L	L2	a	N	N1	Q1	S	NOTES
MO015AA	.120 .250	.020 .070	.016 .020	.028 .070	.008 .012	1.200 1.290	.600 .625	.515 .580	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	24	0	.040 .075	.040 .100	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO015AB	.120 .250	.020 .070	.016 .020	.028 .070	.008 .012	.700 .840	.600 .625	.515 .580	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	16	0	.040 .075	.040 .100	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO015AC	.120 .250	.020 .070	.016 .020	.028 .070	.008 .012	1.800 1.890	.600 .625	.515 .580	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	36	0	.065 .105	.040 .100	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO015AD	.100 .200	.000 .070	.015 .020	.015 .055	.008 .012	1.170 1.210	.600 .625	.515 .580	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	24	0	.020 .080	.025 .050	1,2,10
NOTES	9							8	3,4	3,4			5	6	7			
MO015AE	.100 .200	.000 .070	.015 .020	.015 .055	.008 .012	.770 .810	.600 .625	.515 .580	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	16	0	.020 .080	.025 .050	1,2,10
NOTES	9							8	3,4	3,4			5	6	7			
MO015AF	.100 .200	.000 .070	.015 .020	.015 .055	.008 .012	1.770 1.810	.600 .625	.515 .580	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	36	0	.020 .080	.025 .050	1,2,10
NOTES	9							8	3,4	3,4			5	6	7			
MO015AG	.090 .200	.020 .070	.014 .020	.050 .054	.008 .012	1.220 1.290	.600 .625	.520 .550	.100 TP	.600 TP	.125 .150	.000 .030	0° 15°	24	0	.020 .060	.050 .100	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO015AH	.090 .200	.000 .070	.015 .020	.015 .055	.008 .012	1.380 1.420	.600 .625	.485 .515	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	28	0	.020 .070	.040 .070	1,2,10
NOTES	9							8	3,4	3,4			5	6	7			
MO015AJ	.100 .200	.000 .070	.015 .020	.015 .055	.008 .012	1.980 2.020	.600 .625	.485 .515	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	40	0	.020 .070	.040 .070	1,2,10
NOTES	9							8	3,4	3,4			5	6	7			
MO015AK	.145 .175	.030 .050	.015 .020	.040 .050	.008 .015	1.240 1.260	.600 .625	.540 .560	.100 TP	.600 TP	.100 .140	.000 .030	0° 15°	24	0	.045 .075	.065 .085	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO015AL	.090 .140	.020 .065	.015 .020	.045 .055	.008 .012	1.350 1.430	.600 .625	.480 .520	.100 TP	.600 TP	.100 .180	.000 .030	0° 15°	28	0	.020 .080	.020 .060	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO015AM	.090 .140	.020 .065	.015 .020	.045 .055	.008 .012	1.950 2.020	.600 .625	.480 .520	.100 TP	.600 TP	.100 .180	.000 .030	0° 15°	40	0	.020 .080	.020 .060	1,2,10
NOTES								8	3,4	3,4			5	6	7			
MO015AN	.090 .150	.020 .065	.015 .020	.045 .055	.008 .012	1.150 1.220	.600 .625	.480 .520	.100 TP	.600 TP	.100 .180	.000 .030	0° 15°	24	0	.020 .080	.020 .060	1,2,10
NOTES								8	3,4	3,4			5	6	7			

NOTES:

1. Refer to applicable symbol list.
2. Dimensioning and tolerancing per ANSI Y14.5-1973.
3. Leads within .127 radius of True Position (TP) at gauge plane with maximum material condition and unit installed.
4. e_1 and e_A applies in zone L_2 when unit installed.
5. α applies to spread leads prior to installation.
6. N is the maximum quantity of lead positions.
7. N_1 is the allowable quantity of missing leads.
8. E_1 does not include mold flash.
9. Outlines on which the seating plane is coincident with the base plane (A_1 = 0) terminal lead stand-offs are not required, and B_1 may equal B along any part of the lead above the seating/base plane.
10. Controlling Dimension: INCH

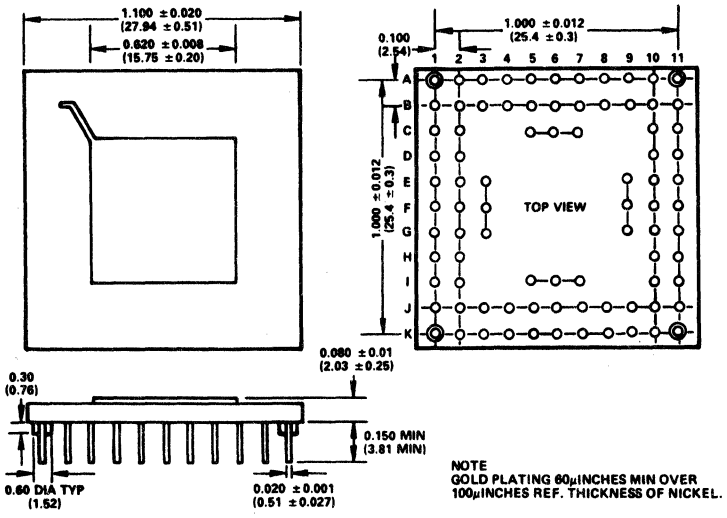
30. OUTLINE DRAWINGS

PG88A



UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS MIN.-MAX. IN INCHES
ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS
ALL TOLERANCES ARE ± .007 INCHES

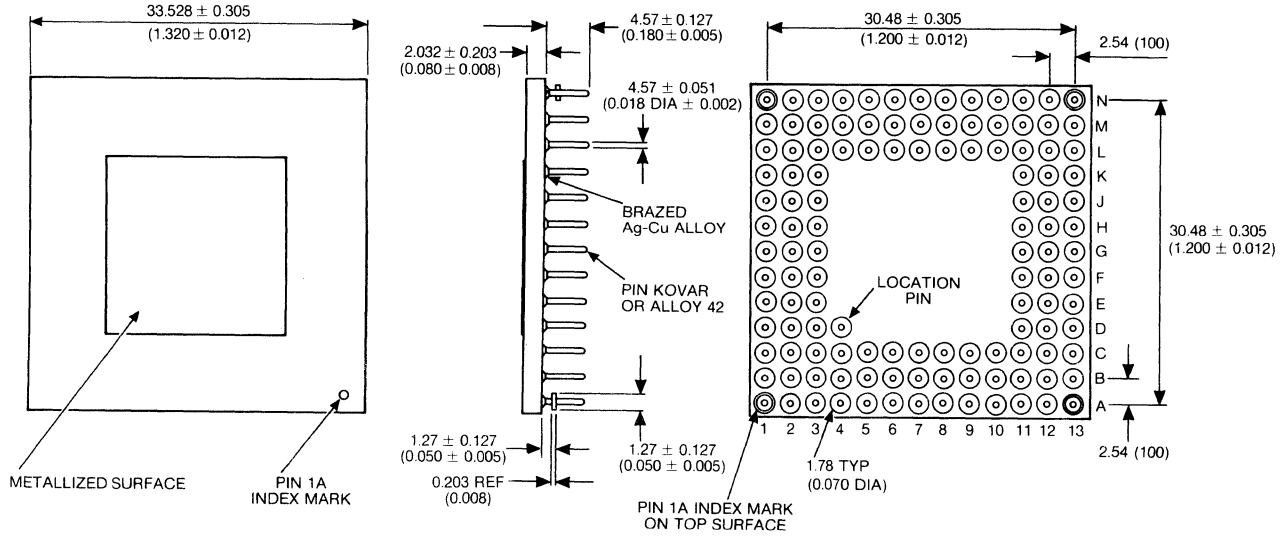
PG84



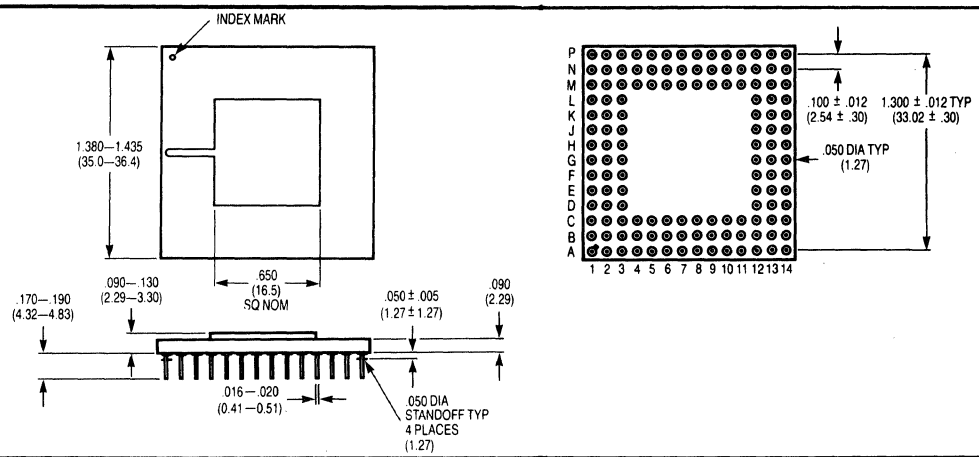
NOTE
GOLD PLATING 60μINCHES MIN OVER
100μINCHES REF. THICKNESS OF NICKEL.

30. OUTLINE DRAWINGS

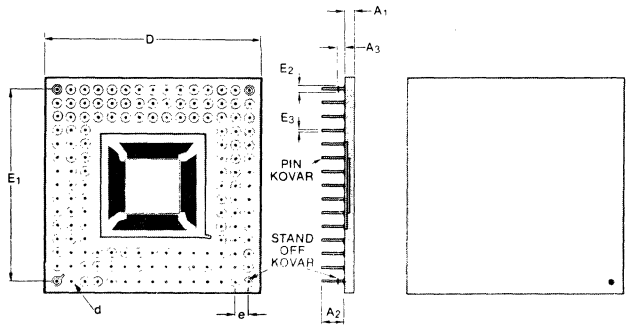
PG109



PG110



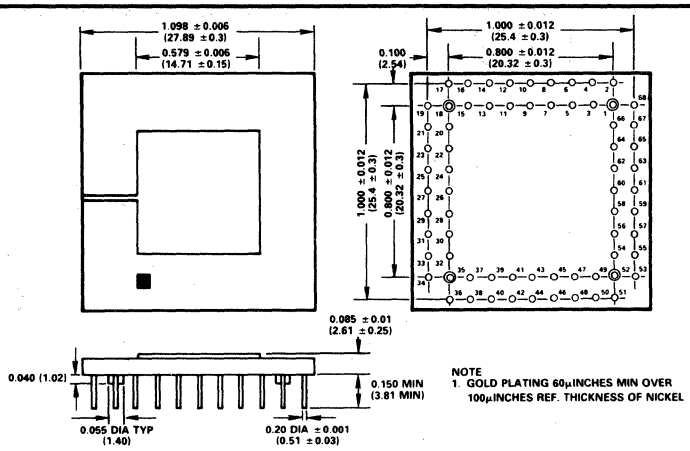
PG111



Symbol	Measurements
	Inches
A_1	0.080 ± 0.008
A_2	0.180 typ.
A_3	0.050
D	1.575 sq. ± 0.016
E_1	1.400 sq. ± 0.012
E_2	0.050 dia. typ.
E_3	0.018 ± 0.002
d	0.070 dia. typ.
e	0.100 typ.

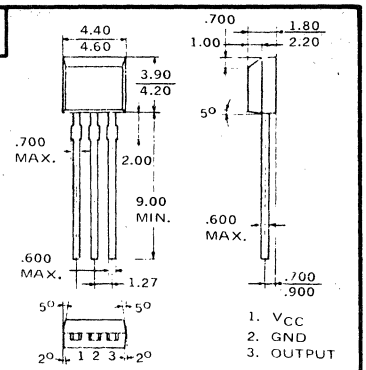
30. OUTLINE DRAWINGS

PG68A



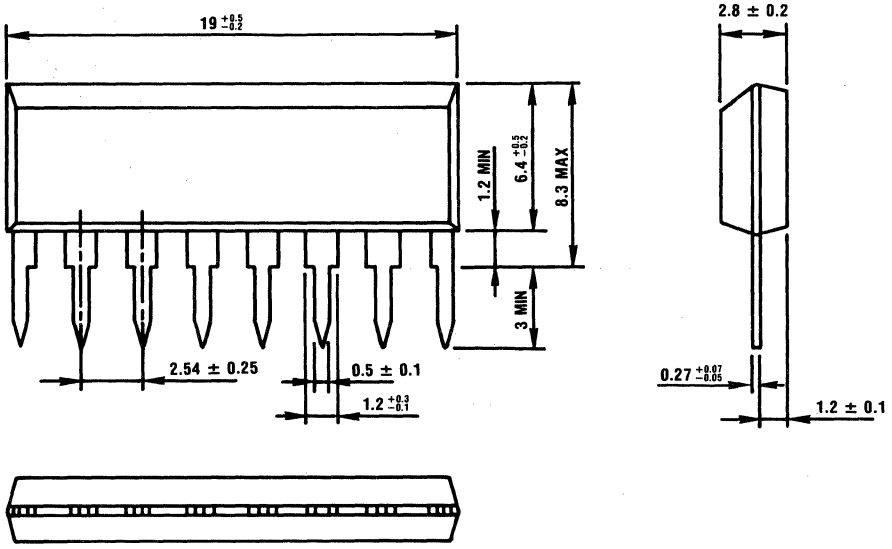
NOTE
1. GOLD PLATING 60μINCHES MIN OVER 100μINCHES REF. THICKNESS OF NICKEL

SL3A

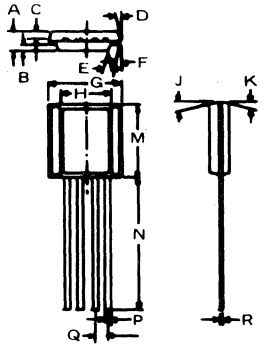


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R
SL3	.067 MAX.	.031 .045	.028 TYP.	9° TYP.	5° TYP.	9° TYP.	.263 MAX.	.200 MAX.	9° TYP.	9° TYP.	.283 MAX.	.472 MAX.	.026 MAX.	.050 TYP.	.018 MAX.
SL3A	.074 .082	.043 .051	.023 .031	12°	12°	12°	.253 .279	.122 .200	12°	12°	.253 .279	.472 MAX.	.016 MAX.	.050 TYP.	.018 MAX.

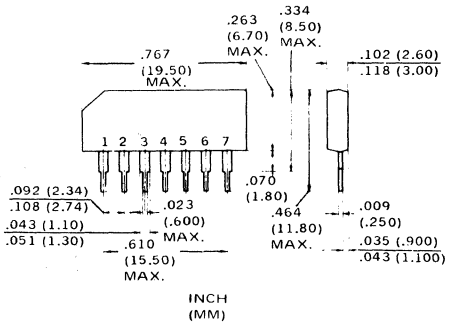
SL8D



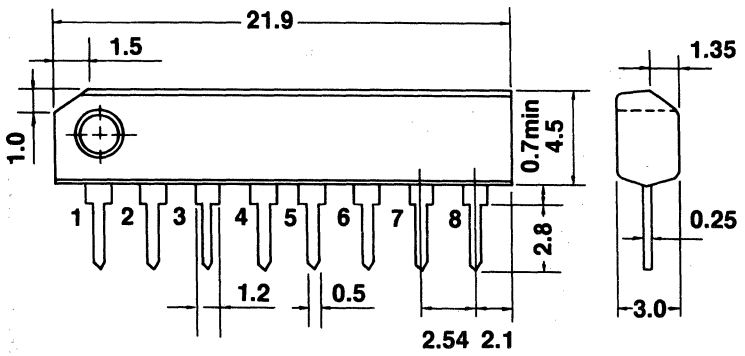
SL4B



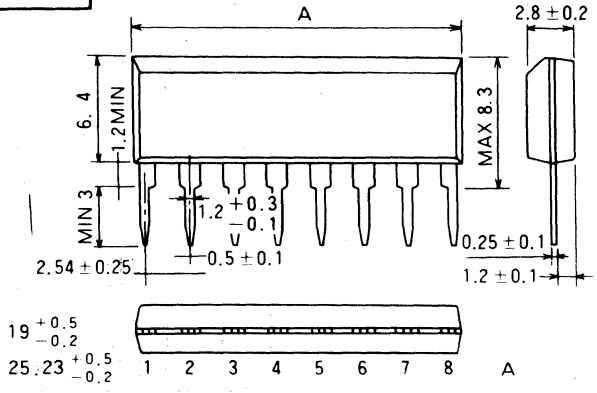
SL7A



SL8B

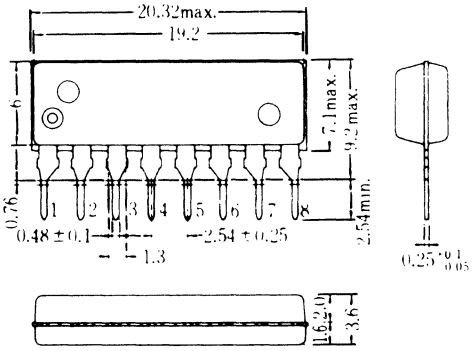


SL10A

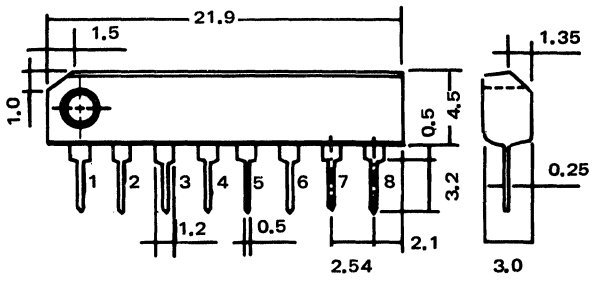


30. OUTLINE DRAWINGS

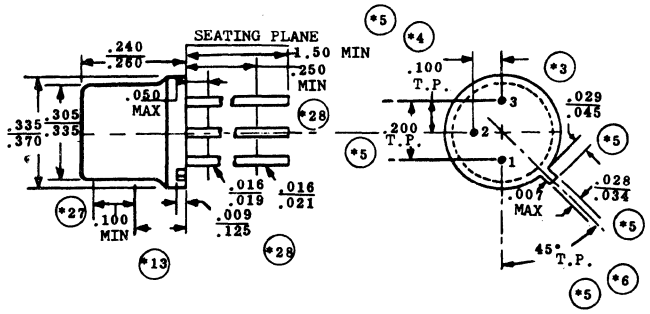
SL8A



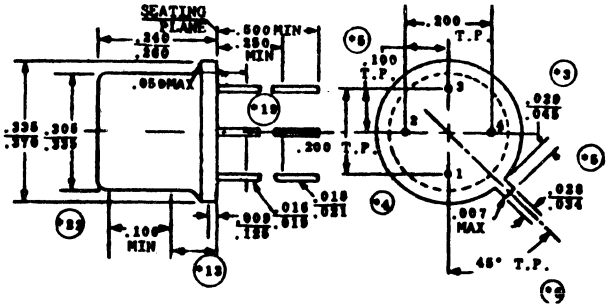
SL8C



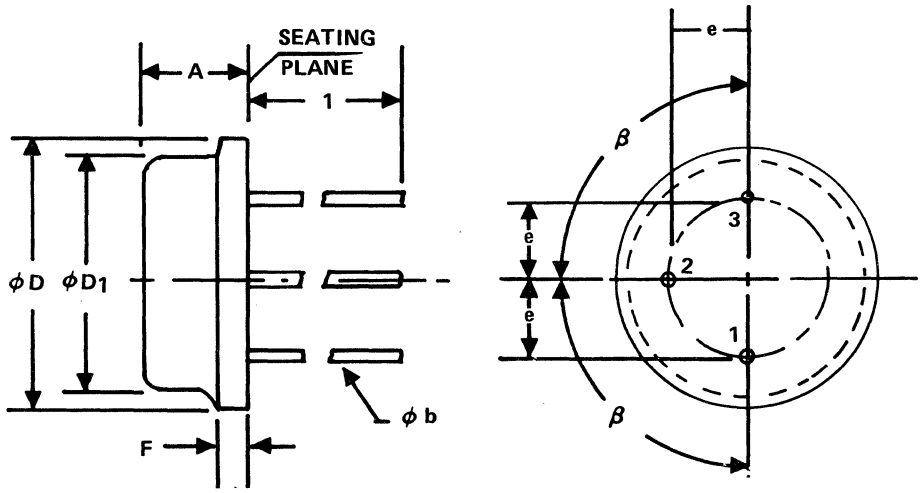
TO5



TO12



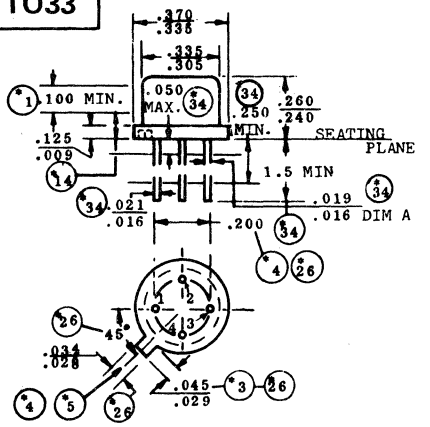
TO8



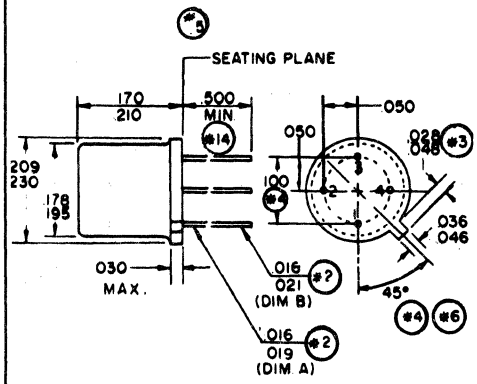
SYMBOL	INCHES MIN.	INCHES MAX.	MILLMETERS MIN.	MILLMETERS MAX.	NOTES
A	.270	.330	6.86	8.38	
b	.027	.033	.686	.838	1
D	.550	.650	13.97	16.51	
D_1	.444	.524	11.28	13.31	
e	.136	.146	3.45	3.71	
F		.115		2.92	
1	.360	.440	9.14	11.18	1
	90° NOMINAL				

30. OUTLINE DRAWINGS

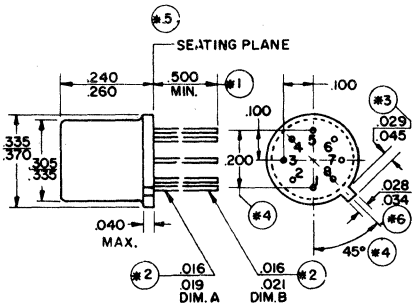
TO33



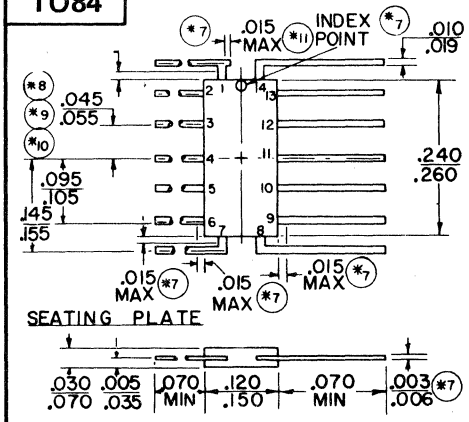
TO72



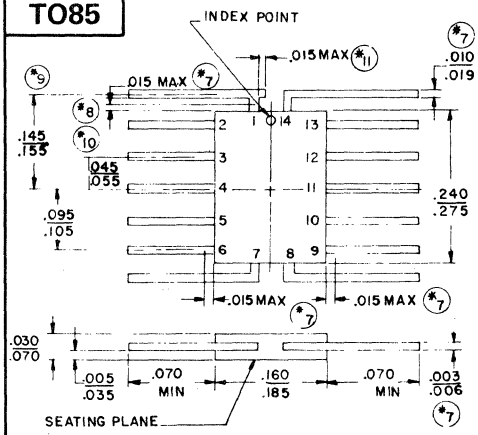
TO77



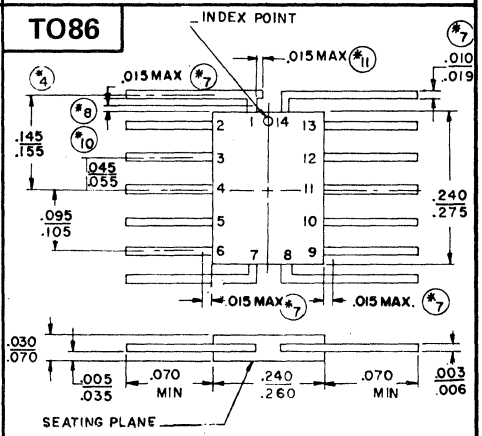
TO84



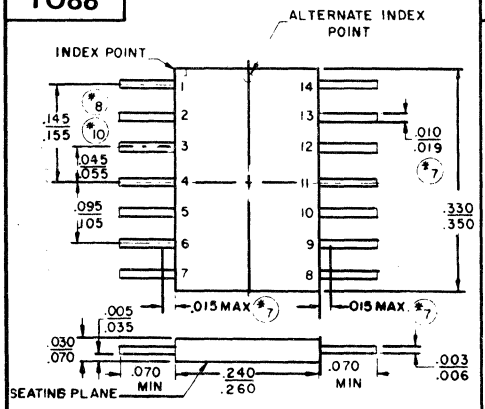
TO85



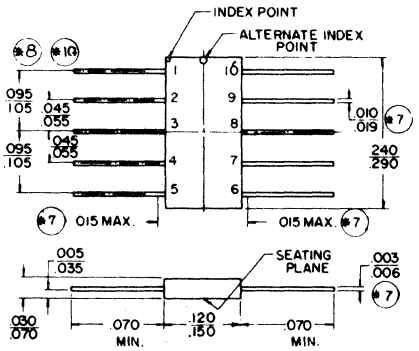
TO86



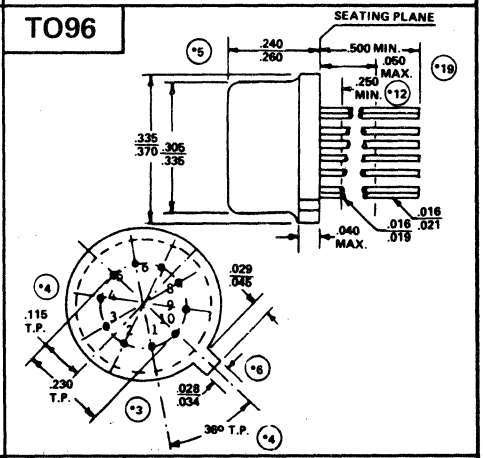
TO88



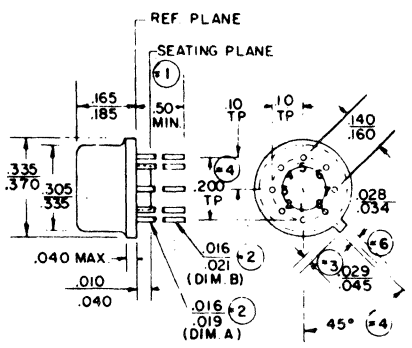
TO89



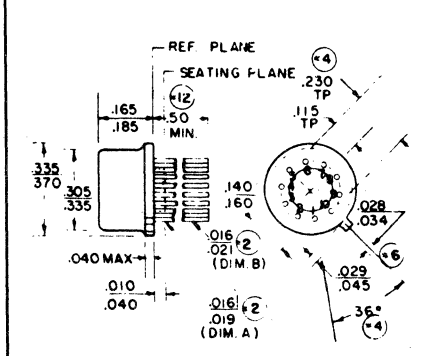
TO96



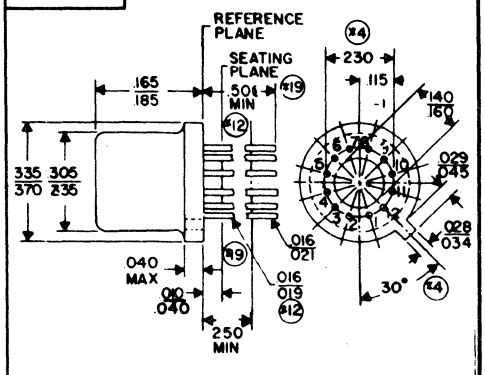
TO99



TO100

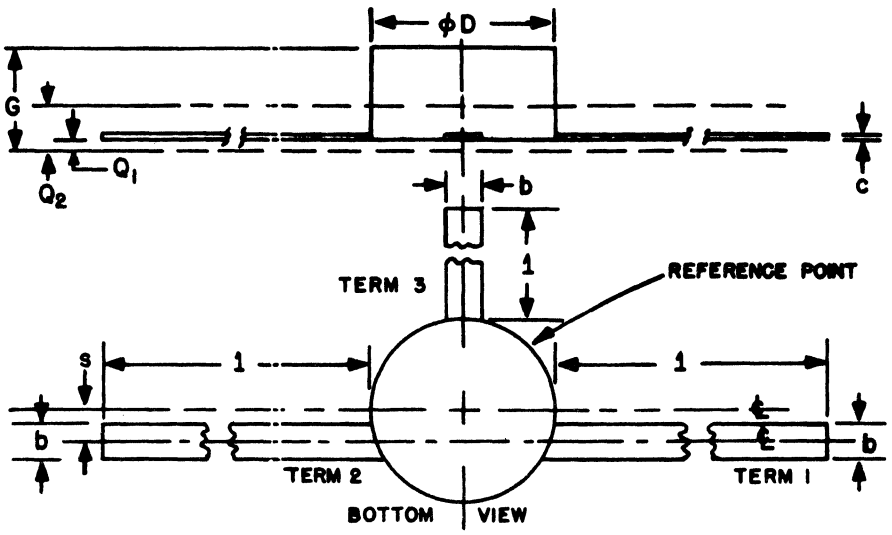


TO101



30. OUTLINE DRAWINGS

TO50



SYMBOL	INCHES MIN.	INCHES MAX.	MILLIMETERS MIN.	MILLIMETERS MAX.	NOTES
b	.015	.028	.381	.711	
c	.003	.005	.076	.127	
⌀D	.180	.215	4.57	5.46	2
G	.040	.060	1.02	1.52	
1	.250		6.35		
Q_1		.010		.254	1
Q_2		.025		.635	1
s	.015	.035	.381	.889	1

NOTES:
1. LEADS SHALL EMERGE FROM THE ⌀D DIMENSION WITHIN THE LIMITS INDICATED BY THE s, Q_1 AND Q_2 DIMENSIONS.
2. MINIMUM AND MAXIMUM DIMENSIONS BOTH APPLY TO THE MAJOR (LARGEST) DIAMETER ONLY.

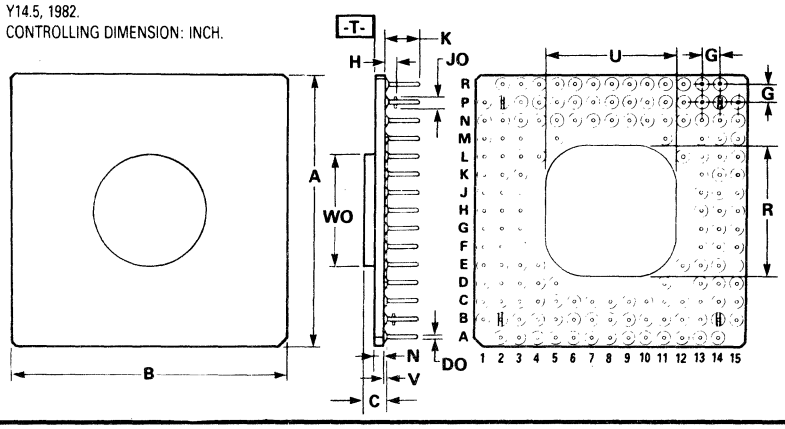
PG112

NOTES:
1. A AND B ARE DATUMS AND -T- IS A DATUM PLANE.
2. POSITIONAL TOLERANCE FOR LEADS:

⌖	ϕ 0.13 (0.005) Ⓜ	T	A Ⓢ	B Ⓢ

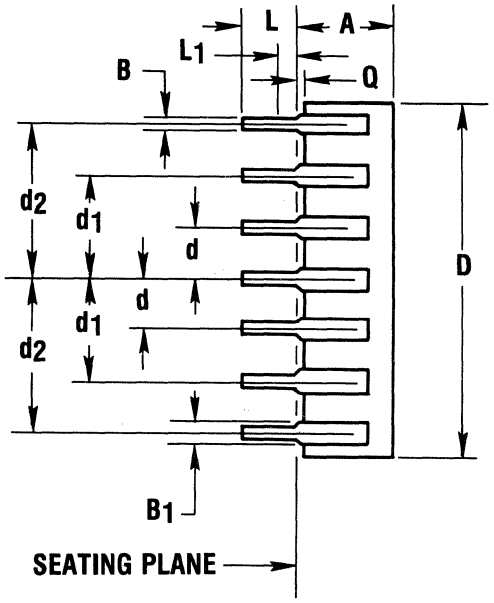
3. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1982.
4. CONTROLLING DIMENSION: INCH.

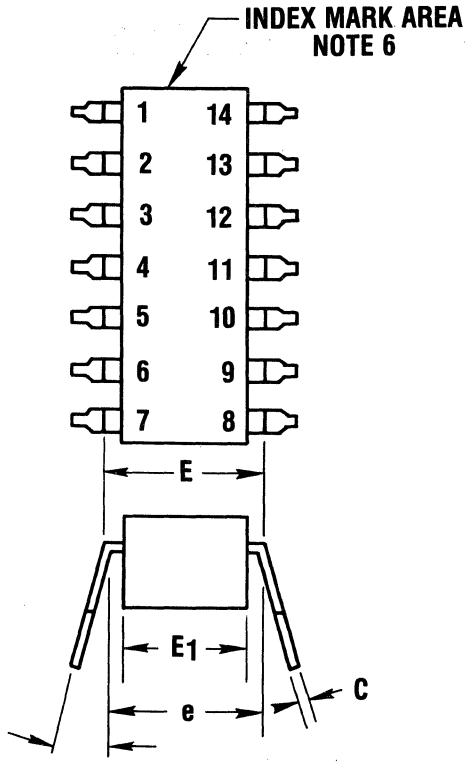
DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	37.85	38.60	1.490	1.520
B	37.85	38.60	1.490	1.520
C	2.64	3.55	0.104	0.140
D	0.43	0.48	0.017	0.019
G	2.54 BSC		0.100 BSC	
H	1.14	1.39	0.045	0.055
J	1.14	1.39	0.045	0.055
K	4.19	4.69	0.165	0.185
N	1.37	1.67	0.054	0.066
R	17.65	17.90	0.695	0.705
U	17.65	17.90	0.695	0.705
V	0.277	0.340	0.0109	0.0134
W	15.62	16.12	0.615	0.635



30. OUTLINE DRAWINGS

TO116

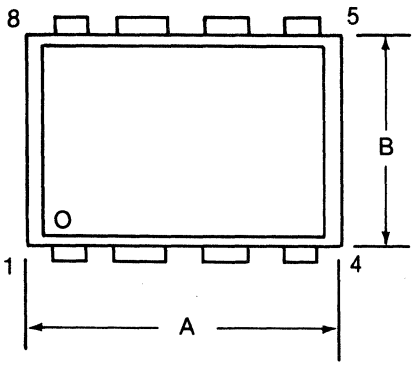




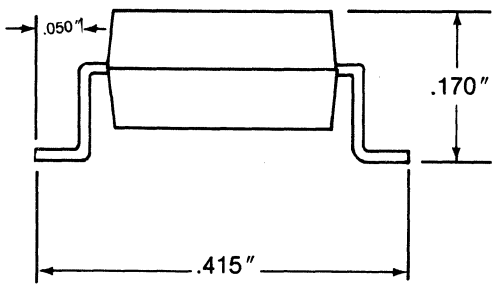
MILLIMETER DIMENSIONS ARE DERIVED FROM BASIC INCH DIMENSIONS

SYMBOL	INCHES MIN.	INCHES MAX.	MILLIMETERS MIN.	MILLIMETERS MAX.	NOTES
A	–	.200	–	5.08	
B	.015	.023	.381	.584	3,7
B_1	.030	.070	.77	1.77	3,7
C	.008	.015	.204	.381	3
D	.660	.785	17.4	19.9	
d	.090	.110	2.29	2.79	1
d_1	.190	.210	4.83	5.33	1
d_2	.290	.310	7.37	7.87	1
E	–	.325	–	8.25	5
E_1	.220	.280	5.59	7.11	
e	.290	.310	7.37	7.87	4
L	.100	–	2.540	–	1,3
L_1	–	.030	–	.76	2
Q	.020	–	.51	–	
a	0°	15°	0°	15°	

FP8



DIM.	INCHES MIN.	INCHES MAX.
A	.360	.400
B	.240	.260



30. OUTLINE DRAWINGS

JEDEC "MO" DRAWING NOTES

1. Refer to rules for dimensioning axial lead product outlines.
2. Refer to rules for dimensioning peripherial lead outlines.
3. Leads within .005 radius of true position (TP) at gauge plane with maximum material condition and unit installed.
4. Leads within .003 or .007 radius of true position (TP) at gauge plane with maximum material condition.
5. Apply in zone measured .000 to .030 when unit installed. Leads within .005 radius of (TP) at gauge plane with maximum material condition.
6. Applies to spread leads prior to installation.
7. Dimension .016 to .019 applies between dimensions .000 to .050 and .250 to .500. Dimension .016 to .021 applies between dimensions .250 to .500 and .500 from seating plane. Diameter is uncontrolled in dimension .000 to .050 and beyond dimension .500.
8. Measured from maximum diameter of device.
9. These dimensions determine a zone within which all body and lead irregularities lie.
10. Body stand off four places, spherical radius on seating surface. Terminal lead stand offs omitted.
11. The body stand off group is centered on the module and the stand offs shall be within a .010 radius of their TP measured at gauge plane.
12. Mechanical index.
13. Radius three sides.
14. Draft four sides.
15. Either numeric or Alpha-numeric terminal lead designation system may be used for this outline. Alpha-numeric system is preferred.
16. Terminal lead stand off, four places. Centered on pin within .006. Body stand offs omitted.
17. Contour within dotted outline optional.
18. The dimension .016 to .019 applies between the dimensions .025 max and .070 min. Diameter is uncontrolled within the .025 dimension.
19. When base of body is to be attached to heat sink, terminal lead stand offs are not required and Dim. B equals 0. When Dim. B equals 0, the leads emerge from the body with the D dim. and reduce to the C dim. above the seating plane.
20. Contour optional.
21. Pin spacing is .100 TP except for outer most rows where spacing is 1.5x.100 TP. (For example - spacing between pin #64 and #1 is .150 TP, where as spacing between pin #1 and #2 and #3, etc. is .100 TP.)
22. Typical all sides.
23. Terminal lead shall be within .203 mm radius of their TP measured at gauge plane.
24. Visual index position relates to JEDEC outline TO-69. Visual index located within index area is preferred.
25. Distance between lead centerlines.

JEDEC "TO" DRAWING NOTES

ZB NOTES

ZB No.	CIRCUIT BOARDS	CANS	FLAT PACKS	MODULES
165			TO 86 TO 88	

1. Maximum number of leads omitted in this outline, Three (3). The number and position of present are indicated in the product registration. Outline designation determined by the location and minimum angular spacing of any two adjacent leads.
2. (All leads) Diameter is uncontrolled to .050 from seating plane and beyond minimum tolerance of lead length (1.5 or .5) from seating plane. Dim. A applies between .050 and .250 from seating plane. Dim. B applies between .250 and minimum tolerance of lead length from seating plane.
3. Measured from maximum diameter of the actual device.
4. Leads having maximum diameter .019 (.483MM) measured in gaging plane .054 (1.37MM) - .001 (.025MM) - .000 (.00MM) below the seating plane of the product shall be within .007 (.178MM) of their true position relative to a maximum width tab.
5. The product may be measured by direct methods or by gage.
6. Tab centerline.
7. Lead dimensions uncontrolled in this zone to allow for body and lead finish irregularities.
8. Leads missing from their designated positions shall also be counted when numbering leads for specific applications.
9. Spacing and angle of the end leads at the point of emergence of body is not controlled.
10. Leads spacing shall be measured within .030 (.762MM) from the point of emergence from the body or, as in the case of end lead, from the point where the extension of the body outline intersects the end leads.
11. Mechanical index, optional.
12. Maximum number of leads omitted in this outline, One (1). The number and position of leads actually present are indicated in the product registration. Outline designation determined by the location and minimum angular spacing of any two adjacent leads.
13. Irregularity in body outline not controlled in this zone.
14. Maximum number of leads omitted in this outline, None (0). The number and position of leads actually present are indicated in the product registration. Outline designation determined by the location and minimum angular or linear spacing of any two adjacent leads.
15. Overall installed width.
16. Index to be visible from top, this end only.
17. Lead transition geometry from .015/.023 to .030/.070 optional on body side of seating plane.
18. Installed position of lead centers.
19. (All leads) .016/.019 applies between .050 max. and .250 min. .016/.021 applies between .250 min. and .500 (12.70MM) from reference plane. Diameter is uncontrolled in .050 max. and beyond .500 (12.70MM) from reference plane.
20. Contour of package beyond this zone optional, but must be confined with .310/.330 and .120/.240.
21. Contour and orientation of fixed terminal lugs are undefined.
22. The body and terminals of the device, with the exception of the extended lug length .650 max and .575 max, lies within the cylinder defined by 1.227 max. and length 1.810 max.
23. A chamfer (or undercut) on one or both ends of the hexagonal portions is optional.
24. Length of incomplete or undercut threads of dim. .425 min and .499 max.
25. Pitch dia. of 1/2-20UNF-2A (coated) threads (ASA B1.1-1960).
26. Minimum flat.
27. This zone is controlled for automatic handling. The variation in actual diameter within the zone shall not exceed .010 in.
28. (Three leads) Dimension .016 min. and .019 max. applies between .050 max. and .250 min. Dimension .016 min. and .021 max. applies between .250 min. and 1.5 in. from seating plane. Diameter is uncontrolled in .050 max. and beyond 1.5 in. from seating plane.
29. Three Leads.

MANUFACTURERS' CODES & NAMES

D.A.T.A. MFRS.' CODE		
AEIL		Marconi Electronic Devices, Ltd.
ALGG		Telefunken Electronic
AMD		Advanced Micro Devices, Inc.
AMR		American Microsemiconductor
ANA		Analog Devices, Inc.
BELI		Bharat Electronics Ltd.
BIT		Bipolar Integrated Technology
CCL		Cal Crystal Labs, Inc.
CSD		CSDC
CYP	★	Cypress Semiconductor Corp.
DAL		Dallas Semiconductor
DDD		Data Delay Devices, Inc.
ESAN		E-San Electronic Co., Ltd.
EXR		Exar Corp.
FCAJ		Fujitsu Limited
FERB		Ferranti Electronics Ltd.
FMI		Fujitsu Microelectronics, Inc.
FOX		Fox Electronics
FSC		Fairchild Semiconductor Corp.
GBL		GigaBit Logic, Inc.
GIC	★	General Instrument Corp.
HAC	★	Hughes Aircraft/Solid State
HAS		Harris Semiconductor
HBC	★	Hybrid Systems Corp.
HITJ		Hitachi Limited
HMI		Hytek Microsystems, Inc.
HMS		Harris Microwave Semiconductor
HUG	★	(See HAC)
IDT		Integrated Device Technology
IMTM		Industria Mexicana Toshiba S.A.
INL		Intersil, Inc.
ITL		Intel Corporation
LAT		Lattice Semiconductor
LDI		Logic Devices Inc.
LGT	★	Lightgate
LLC		LSI Logic Corp.
LSC		LSI Computer Systems Inc.
MATJ		Matsushita Electronics Corp.
MITA		Mitsubishi Electronics America, Inc.
MITC		Mitel Semiconductor
MITJ		Mitsubishi Elect. Corp.
MMI		Monolithic Memories, Inc.

D.A.T.A. MFRS.' CODE		
MOTA		Motorola Semiconductor Products Inc.
MPS		Micro Power Systems
MRL	★	Micrel
MTI		M-Tron Industries, Inc.
MULB		Mullard Limited
MXM	★	Maxim Integrated Products, Inc.
NCR		NCR Microelectronics Corp.
NECE	★	NEC Electronics USA, Inc.
NECJ		Nippon Electric Co.
NJRC		New Japan Radio Co., Ltd.
NSC		National Semiconductor
OKIJ		OKI Electric Industry Co., Ltd.
PCA	★	PCA Electronics
PHIN	*	Philips Electronic Components & Materials Div.
PLSB		Plessey Semiconductors
PSC	★	Performance Semiconductor Corporation
PUL		Pulse Engineering Products
RCA		RCA Corporation
RHB		Rhombus Industries, Inc.
RHM	★	ROHM Corp.
RSCB		R. S. Components Ltd.
RTCF	*	RTC-Compelec
RTN		Raytheon Company
SDI	★	SDI, Inc.
SGSI		SGS-ATES Componenti Electronici S.p.A.
SIC		Signetics Corp.
SIEG		Siemens Aktiengesellschaft
SIT	★	Siemens Corp.
SMC	★	Standard Microsystems Corp.
SOD		Solitron Devices, Inc.
SPR		Sprague Electronic Co.
SRT	★	Space Research Technology
SSE		Solid State Electronics Corp.
SSS		Sprague Solid State
STF	★	Stanford Telecommunications
STK		Statek Corporation
STX		Supertex, Inc.
TAI		Toko America, Inc.
THD	★	Third Domain, Inc.
THEF		Thomson-CSF/EFCIS
TII		Texas Instruments Inc.
TNL		Technitrol

* See Manufacturers' Sales Offices
★ Indicates New Manufacturer

MANUFACTURERS' CODES & NAMES

D.A.T.A. MFRS.' CODE	MANUFACTURER
TOSA	★ Toshiba America, Inc.
TOSJ	Toshiba Corp.
TRQ	★ Triquint Semiconductor
TRW	TRW-LSI Products
TSAJ	Sanyo Electric Co., Ltd.
TSC	Teledyne Semiconductor
UNV	Universal Semiconductor
USSR	V/O Electronzagranpostavka
VALG	Valvo GmbH
VLR	Valor Electronics, Inc.
VTC	VTC Incorporated
WDC	Western Digital Corp.
WET	Weitek Corp.
ZIL	Zilog Inc.

* See Manufacturers' Sales Offices
★ Indicates New Manufacturer

ADVANCED MICRO DEVICES, INC. – AMD
P.O. Box 3453
Sunnyvale, CA 94088
408/732-2400
Telex: 346306

Application Notes, Digital ICs, Interface ICs, Linear ICs, Memory ICs, Microprocessor ICs Microcomputer Systems

DEVICE NUMBERING KEY

IC DEVICES

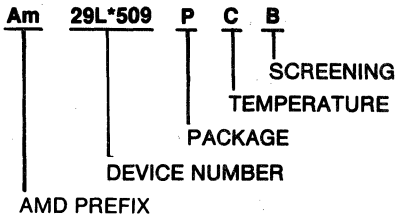
PACKAGE
- D – Top-Brazed
- L – Leadless Chip Carrier
- P – Plastic DIP

TEMPERATURE
- C – Commercial 10° C to 70° C)
- M – Military (-55° C to 125° C)

SCREENING
- No Designator – Standard Processing
- B – Burn-In

*L represents low power version
LS represents lower power schottky
S represents schottky

EXAMPLE



AMERICAN MICROSEMICONDUCTOR – AMR
133 Kings Rd.
Madison, NJ 07940
201/377-9566

Application Notes, Digital ICs, Diode, Microwave, Thyristor, Transistor Modules/Hybrids, Microcomputer Systems

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ANALOG DEVICES, INC. – ANA
P.O. Box 280
Norwood, MA 92062
617/329-4700
Telex: 174059

Application Notes, Audio/Video, ICs, Interface ICs, Linear ICs, Digital ICs, Microcomputer Systems, Modules/Hybrids, Power Supplies, Microprocessor ICs

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BHARAT ELECTRONICS, LTD. – BELI
Semiconductor Division
Bangalore 560 0130
India
Telex: 0845-244

Audio/Video ICs, Digital ICs, Diode, Linear ICs, Microwave, Transistor

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BIPOLAR INTEGRATED TECHNOLOGY – BIT
1050 NW Compton
Beaverton, OR 97006
503/629-5490
Telex: 263097

Digital ICs

CAL CRYSTAL LABS, INC. – CCL
1142 N. Gilbert Street
Anaheim, CA 92801
714/991-1580

Digital ICs

CSDC – CSD
87-A Jacksonville Rd.
Towaco, NJ 07082
201/335-6723

Diode, Transistor, Digital ICs

CYPRESS SEMICONDUCTOR CORP. – CYP
A Division of Cypress Electronics
3901 North First Street
San Jose, CA 95134
408/943-2600
Telex: 821032

Memory ICs

DALLAS SEMICONDUCTOR – DAL
4350 Beltwood Parkway South
Dallas, TX 75244
214/450-0400

Application Notes, Digital ICs, Linear ICs, Interface ICs, Memory ICs

---

DATA DELAY DEVICES, INC. – DDD
385 Lakeview Ave.
Clifton, NJ 07011
201/772-1106

Application Notes, Digital ICs, Interface ICs

E-SAN ELECTRONIC CO., LTD. – ESAN
2nd Fl. 62 Tientsin Street
Taipei, Taiwan, Republic of China
02/5516237
Telex: 28228

Digital ICs, Linear ICs

EXAR CORPORATION – EXR
750 Palomar Ave.
Sunnyvale, CA 94088
408/732-7970

Application Notes, Audio/Video ICs, Digital ICs, Interface ICs, Linear ICs, Modules/Hybrids

DEVICE NUMBERING KEY

IC DEVICES

DEVICE NUMBER
Up to 5 Spaces

GRADE

- M – Military Grade Part, Ceramic Package Only. All Military Grades have been processed to MIL-STD-883 Level C, and are guaranteed to operate over military temperature range.
- N – Prime Grade Part, Ceramic Package.
- P – Prime Grade Part, Plastic Package.
- CN – Commercial Grade Part, Ceramic Package.
- CP – Commercial Grade Part, Plastic Package.
- K – Kit

N, P, CN and CP parts are electrically identical and guaranteed to operate over 0°C to +75°C range unless otherwise stated. In addition, N and P parts generally have operating parameters more tightly controlled than the CN or CP parts.

PACKAGE

- N – Ceramic Dual-in-line
- P – Plastic Dual-in-line
- T – Metal can
- D – Chip (Dice)
- A – } Kit variations
- B – }
- W – Wafer

EXAMPLE

XR-2216 CN
- CN – PACKAGE
- 2216 – DEVICE NUMBER
- XR – EXAR PREFIX
- 2216 – GRADE

FAIRCHILD SEMICONDUCTOR CORP. – FSC

450 National Ave.
Mountain View, CA 94042
415/962-3874
Telex: 910-379-6435

FAIRCHILD
A Schlumberger Company

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microcomputer Systems, Microprocessor ICs, Microwave, Modules/Hybrids, Optoelectonics, Transistor

DEVICE NUMBERING KEY

IC DEVICES

DEVICE NUMBER
This group of alpha numeric characters defines the device including functional and electrical characteristics, alpha suffixes are added to further delineate electrical options.

PACKAGE
One alpha suffix represents the basic package style.

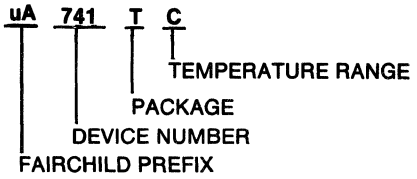
- D – Dual In-line (Hermetic, Ceramic)
- F – Flatpak (Hermetic)
- H – Metal Package
- J – Dual In-Line (Side Brazed)
- K – Metal Power Package (TO-3)
- P – Dual In-Line (Molded)
- R – 8-lead DIP (Hermetic, Ceramic)
- S – Metal Package (Hybrid only)
- T – 8-lead DIP (Molded)
- U – Power Package (Molded, TO-220)
- U1 – Power Package (Molded)
- W – Molded Package (TO-92 Outline)

Different outlines exist within each package style to accommodate various die sizes and number of leads.

TEMPERATURE RANGE
One alpha suffix represents one of the following three basic temperature grades in common use. Exact values and conditions are specified on the device data sheets.

- C – Commercial
  0°C to +70/75°C
- M – Military
  -55°C to +125°C
  -55°C to +85°C
- V – Industrial
  -20°C to 85°C
  -40°C to +85°C

EXAMPLE



DEVICE NUMBERING KEY

IC DEVICES

FAMILY
- 74 – Commercial
- 54 – Military
- 29 – Commercial or Military

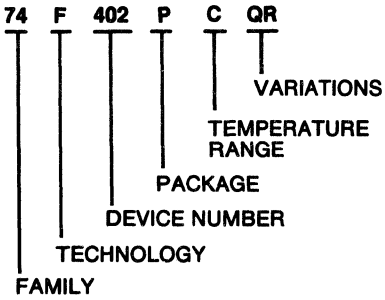
TECHNOLOGY
- F – AS TTL (FAST)
- AC – Advanced CMOS
- ACT – TTL Compatible Advanced CMOS

PACKAGE
- P – Plastic DIP
- SP – Slim Plastic DIP
- D – Ceramic DIP
- SD – Slim Ceramic DIP
- F – Flatpak
- L1 – Ceramic Leadless Chip Carrier
- Q – Plastic Leaded Chip Carriers
- S – Small Outline

TEMPERATURE RANGE
- C – Commercial
- M – Military

VARIATIONS
- QR – Commercial grade device with burn-in
- QB – Military grade device with environmental and burn-in processing
- T – Devices shipped in 7" reels
- X – Devices shipped in 14" reels
- TR – Commercial grade device with burn-in shipped in 7" reels
- XR – Commercial grade device with burn-in shipped in 14" reels

EXAMPLE



FERRANTI ELECTRONICS LTD. – FERB

Fields New Road
Chadderton
Oldham OL9 8NP England
Telex: 668038

FERRANTI semiconductors®

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microwave, Modules/Hybrids, Optoelectronics, Transistor

FOX ELECTRONICS – FOX
6225 Presidential Court
Fort Myers, FL 33907
800/237-8785

Digital ICs

FUJITSU LTD – FCAJ
Furukawa Sogo Bldg.
6-1, Marunouchi 2-Chome
Chiyoda-ku, Tokyo, Japan 100
03/216-3211
Telex: 3842122

Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microprocessor ICs, Microwave, Transistor

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FUJITSU MICROELECTRONICS, INC. – FMI
3320 Scott Blvd.
Santa Clara, CA 95054-3197
408/562-1000

FUJITSU MICROELECTRONICS INC

Application Notes, Audio/Video ICs, Digital ICs, Interface ICs, Memory ICs, Microprocessor ICs, Microwave, Optoelectronics

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GENERAL INSTRUMENT CORP. – GIC
600 West John Street
Hicksville, NY 11802
516/933-3000
Telex: 516-933-3236

Application Notes, Audio/Video ICs, Interface ICs, Linear ICs, Modules/Hybrids, Microcomputer Systems, Microprocessor ICs, Optoelectronics, Memory ICs

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GIGABIT LOGIC INC. – GBL
1908 Oak Terrace Lane
Newbury Park, CA 91320
805/499-0610

GBL GigaBit Logic

Application Notes, Diode, Digital ICs, Interface ICs, Linear ICs, Memory ICs

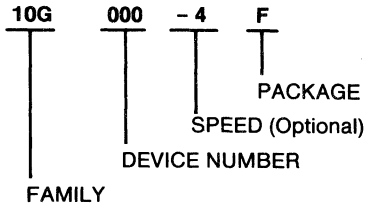
DEVICE NUMBERING KEY

I.C. DEVICES

FAMILY
- 10G
- 16G

PACKAGE
- L – 40 Pad Leadless Chip Carrier
- F – 36 Lead Flatpack
- X – Unpackaged Dice

EXAMPLE



HARRIS MICROWAVE SEMICONDUCTOR – HMS
1530 McCarthy Blvd.
Milpitas, CA 95035
408/433-2222
800/4 Harris

Application Notes, Digital ICs, Memory ICs, Microwave, Interface ICs

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HARRIS SEMICONDUCTOR – HAS
P.O. Box 883
Melbourne, FL 32901
305/724-7000
Telex: 5109596259

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microprocessor ICs

(continued)

HARRIS SEMICONDUCTOR Cont'd

DEVICE NUMBERING KEY

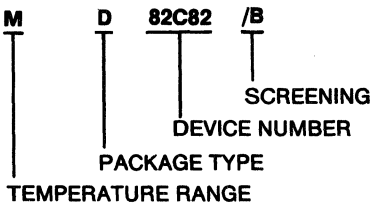
80CXX FAMILY DEVICES

TEMPERATURE RANGE
- C – Commercial
- I – Industrial
- M – Military
- X – 25°C

PACKAGE
- P – Plastic
- D – Ceramic
- X – Unpackaged Device
- R – Leadless Chip Carrier
- S – Plastic Leaded Chip Carrier

SCREENING
- B – Dash 8 Program
- \+ – Plus Program - 96 Hrs Burn-in

EXAMPLE



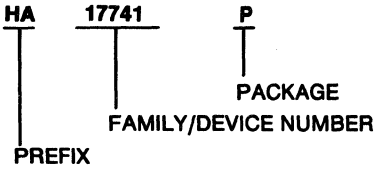
DEVICE NUMBERING KEY

IC DEVICES

PREFIX
- HA – Hitachi Analog
- HD – Hitachi Digital (including RAMs)
- HM – Hitachi RAMs
- HN – Hitachi ROMs

PACKAGE
- No – Ceramic DIP Designator
- G – Cerdip
- P – Plastic Dip
- F (FP) – SOP, FPP
- CG – LCC (8-bit microcomputer device)
- Y – PGA (16-bit microcomputer device)
- Z – LCC (16-bit microcomputer device)
- S – Shrink Type Plastic Dip

EXAMPLE



HITACHI LTD. – HITJ

a Division of Hitachi, Ltd., Japan

2210 O'Toole Ave.
San Jose, CA 95131
408/435-8300
Telex: 17 1581

Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microprocessor ICs, Microwave, Optoelectronics, Transistor, Thyristor

DEVICE NUMBERING KEY

IC DEVICES

PREFIX
- M – Indicates Military Grade
- I – Indicates Industrial Grade
- J – Indicates a JAN qualified device, but is for internal identification purposes only. All JAN devices must be ordered by M38510 part number (Example: M38510/42001 BQB), and will be marked in accordance with MIL-M-38510 specifications.
- L – Indicates extended operating temperature range (–40°C - 85°C) Express product with 168 ± 8 hrs. dynamic burn-in.
- Q – Indicates commercial temperature range (0°C - 70°C) Express product with 168 ± 8 hrs. dynamic burn-in.
- T – Indicates extended temperature range (–40°C to 85°C) Express product without burn-in.

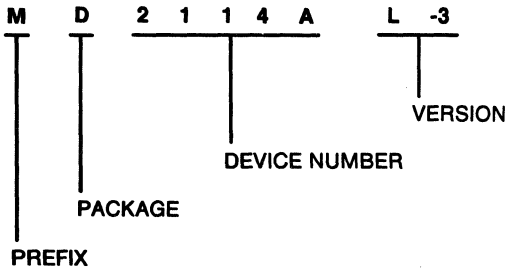
PACKAGE
- A – Ceramic, Pin Grid Array
- B – Hermetic Package, Type B
- C – Hermetic Package, Type C
- D – Hermetic Package, Type D
- N – Plastic Leaded Chip Carrier
- X – Unpackaged Device
- R – Hermetic Package, Leadless Chip Carrier
- G – Hermetic Package, Pin Grid Array
- L – Laminated Plastic
- P – Plastic Package

DEVICE NUMBER
Four or five characters per device type

VERSION
Up to three character modifier for power, speed, processing, etc.

NOTE
On military temperature devices, B suffix indicates MIL-STD-883 Level B processing. Suffix C indicates MIL-STD-883 Level C processing. "S" number suffixes must be specified when entering any order for military temperature devices. All orders requesting source inspection will be rejected by Intel.

EXAMPLE



(continued)

HITACHI LTD. Cont'd

DEVICE NUMBERING KEY

PACKAGE SUFFIX (MULTI-CHIP MICROCOMPUTER DEVICES ONLY):

OUTLINE
- D – DIP
- C – CC
- F – FLAT

MATERIALS
- P – Plastic
- G – Glass Sealed ceramic
- C – Ceramic

ADDITIONAL OUTLINE
- S – Shrink Type
- P – EPROM on the package type
- SP – EPROM on the shrink package type

PGA – 68
- PGA: PACKAGE
- 68: NUMBER OF PINS

*(Note) PGA packages of 16-bit microcomputer devices have a different indication.

EXAMPLE

D P -64 S
- D: OUTLINE
- P: MATERIALS
- -64: NUMBER OF PINS
- S: ADDITIONAL OUTLINE

HUGHES AIRCRAFT/SOLID STATE – HAC
200 No. Sepulveda
El Segundo, CA 90245
213/414-6111
Telex: 714-759-2727

Application Notes, Audio/Video ICs, Interface ICs, Microprocessor ICs, Microwave, Memory

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HYBRID SYSTEMS CORP. – HBC
22 Linnell Circle
Suburban Industrial Park
Billerica, MA 01821
616/982-3417

Application Notes, Interface ICs, Linear ICs, Modules/Hybrids

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HYTEK MICROSYSTEMS, INC. – HMI
980 University Ave.
Los Gatos, CA 95030
408/395-2300

Modules/Hybrids, Digital ICs, Microprocessor

INDUSTRIA MEXICANA TOSHIBA S.A. – IMTM
Calzada de Guadalupe
303 Cuautitlan
Edo de Mexico, Mexico
Telex: 017 725 60

Digital ICs, Diodes, Optoelectronics, Transistors, Linear ICs, Interface ICs, Thyristor

DEVICE NUMBERING KEY

C²MOS DEVICES

PART NO.
- 40H000 series are pin compatible with TTL 54/74 series.
- 40H000 SERIES
- 50H000 series are Toshiba original products.

EXAMPLE

TC 40 H 164 P
- TC: TOSHIBA C²MOS
- 40: 40H000 SERIES
- H: HIGH-SPEED SERIES
- 164: PART NO.
- P: PLASTIC PACKAGE

INTEGRATED DEVICE TECHNOLOGY – IDT
3236 Scott Blvd.
Santa Clara, CA 95051
408/727-6116

Application Notes, Digital ICs, Interface ICs, Memory ICs, Microprocessor ICs

INTEL CORPORATION – ITL
3965 Bowers Avenue
Santa Clara, CA 95051
408/967-8080
Telex: 346-372

Application Notes, Interface ICs, Digital ICs, Linear ICs, Memory ICs, Microcomputer Systems, Microprocessor ICs

DEVICE NUMBERING KEY

IC DEVICES

PREFIX
- H – Harris

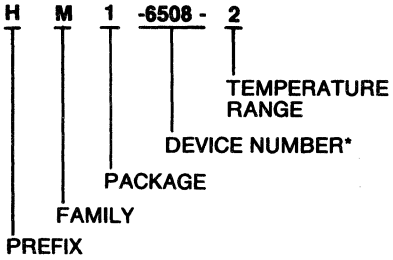
FAMILY
- A – Analog
- C – Communications
- D – Digital
- F – Filters
- I – Interface
- M – Memory (1)
- PL – Programmable Logic
- S – CICD
- V – Analog - High Voltage

Note: (1)
EXCEPT –
HPROM X-0512-X

PACKAGE
- 0 – Chip Form
- 1 – Ceramic DIP
- 1B – Brazed Seal
- 2 – TO5, Metal Can Type
- 3 – Epoxy CIP
- 4 – Leadless Carrier
- 5 – Ceramic Substrate
- 7 – Mini Dip, Ceramic
- 9 – Flatpack

TEMPERATURE RANGE
- 1 – -55°C to +200°C
- 2 – -55°C to +125°C
- 4 – -25°C to +85°C
- 5 – 0°C to 75°C
- 6 – 100% 25°C probe (Dice Only)
- 7 – Dash 7 Program High Reliability -5 Temperature Range
- 8 – Dash 8 program MIL-STD-883-B
- 9 – -40°C to +85°C
- 9+ – -40°C to +85°C With Burn-In
- RH – Radiation Hardened

EXAMPLE



*Alpha Suffix are defined in individual data sheets.

INTERSIL, INC. – INL
10600 Ridgeview Court
Cupertino, CA 95014
408/996-5000

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microcomputer Systems, Microprocessor ICs, Modules/Hybrids, Power Supplies, Transistor

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LATTICE SEMICONDUCTOR CORP. – LAT
15400 Northwest Greenbrier Parkway
Beaverton, OR 97006
503/629-2131

Digital ICs, Memory ICs, Microprocessor ICs

LIGHTGATE – LGT
6300 Telegraph Avenue
Oakland, CA 94609
415/653-8500

Digital ICs

LOGIC DEVICES INC. – LDI
628 East Evelyn Ave.
Sunnyvale, CA 94086
800/851-0767
408/720-8630
Telex: 172387

Application Notes, Microprocessor ICs, Digital ICs, Memory ICs

---

LSI COMPUTER SYSTEMS, INC. – LSC
1235 Walt Whitman Road
Melville, NY 11747
516/271-0400

Audio/Video ICs, Digital ICs, Interface ICs, Linear ICs, Microprocessor ICs, Application Notes

---

LSI LOGIC CORP. – LLC
1601 McCarthy Blvd.
Milpitas, CA 95035
408-263-9494
Telex: 172-153

LSI LOGIC CORPORATION

Application Notes, Digital ICs, Microcomputer Systems, Microprocessor ICs

---

MARCONI ELECTRONIC DEVICES, INC. – AEIL
45 Davids Drive
Haupauge, NY 11788
516/231-7710
Telex: 275801

Marconi

Diode, Digital ICs, Microwave, Interface ICs, Microprocessor ICs, Modules/Hybrids, Application Notes

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MATSUSHITA ELECTRONICS CORP. – MATJ
1 Kotari-Yakemachi
Nagaokakyo
Kyoto 617, Japan
Telex: J63461

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microprocessor ICs, Microwave, Modules/Hybrids, Optoelectronics, Power Supplies, Thyristor, Transistor

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MAXIM INTEGRATED PRODUCTS, INC. – MXM
510 North Pastoria Avenue
Sunnyvale, CA 94086
408/737-7600

Application Notes, Linear ICs

MICREL – MRL
1235 Midas Way
Sunnyvale, CA 94086
408-245-2500

Memory ICs

MICRO POWER SYSTEMS – MPS
3100 Alfred St.
Santa Clara, CA 95054
408/727-5350

MICRO POWER SYSTEMS

Application Notes, Digital ICs, Interface ICs, Linear ICs, Optoelectronics, Memory ICs, Transistor

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MITEL SEMICONDUCTORS – MITC
P.O. Box 13320
Kanata, Ontario, Canada
K2K 1X5
Telex: 0534596
613/592-2122

Application Notes, Interface ICs, Linear ICs, Memory ICs, Microprocessor ICs, Modules/Hybrids, Digital ICs

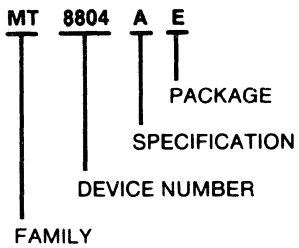
DEVICE NUMBERING KEY

SEMICONDUCTOR DEVICES

FAMILY
- MA – Array
- MD – Digital
- MH – Hybrid
- ML – Linear
- MT – Telecom
- CM – Module

PACKAGE
- C – Ceramic dual-in-line
- D – Ceramic dual-in-line (Side-Braze)
- E – Plastic dual-in-line
- H – Die in tray pack
- K – Ceramic leaded quad pack
- P – Plastic leaded quad pack
- W – Die in probed wafer form
- Y – Leadless chip carrier

EXAMPLE



MITSUBISHI ELECTRONICS AMERICA, INC. – MITA

1050 East Arques Ave.
Sunnyvale, CA 94086
408/730-5900
Telex: 172296

Audio/Video ICs, Diode, Digital ICs, Interface ICs, Memory ICs, Microprocessor ICs, Microwave, Linear ICs, Transistor, Thyristor

DEVICE NUMBERING KEY

ORIGINAL IC DEVICES

TEMPERATURE RANGE
- 5 – Industrial/consumer (Operating ambient temperature range is -20 to 75°C, or -20 to 85°C)
- 9 – High-reliability type

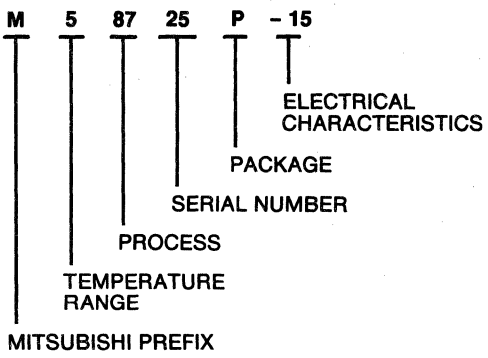
PROCESS
- 01-09 – CMOS
- 1 – Linear circuit
- 3 – TTL
- 10-19 – Linear circuit
- 32-33 – TTL (equivalent to the TI SN74 Family)
- 41-47 – TTL, others
- 48-49 – I^2L
- 84 – CMOS
- 85 – p-channel silicon gate MOS
- 86 – p-channel aluminum gate MOS
- 87 – n-channel silicon gate MOS
- 88 – p-channel aluminum gate ED-MOS
- 89 – CMOS
- 9 – DTL
- S0-S2 – Shottky TTL (equivalent to the TI SN74S family)

SERIAL NUMBER
This group consists of a two-digit serial number to indicate the type of circuit within the series.

PACKAGE
- D – Chip Carrier
- K – Low melting point glass sealed ceramic-type package
- P – Molded plastic
- S – Metal-sealed ceramic

ELECTRICAL CHARACTERISTICS
Uses one or two digits

EXAMPLE



SECOND SOURCE DEVICES

TEMPERATURE RANGE
- 5 – Standard industrial/commercial (0 to 70/75°C or -20 to 85°C)
- 9 – High reliability

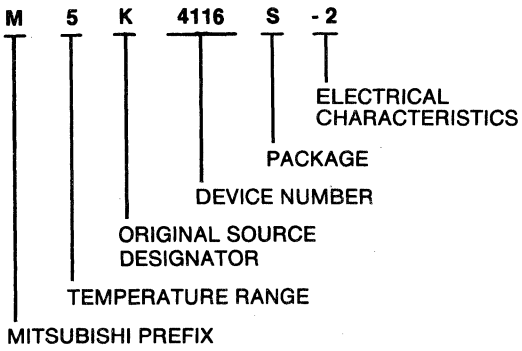
ORIGINAL SOURCE DESIGNATOR
Series designation of original source using 1 or 2 alphabetical characters.
- C – Motorola's MC series
- G – General Instrument's series
- K – Mostek's MK series
- L – Intel's series
- M – Mitsubishi Electric
- T – Texas Instruments' TMS series
- W – Western Digital's series

DEVICE NUMBER
Circuit function identification code of the original source type number.

PACKAGE
- K – Glass-sealed ceramic
- P – Molded plastic
- S – Metal-sealed ceramic

ELECTRICAL CHARACTERISTICS
Electrical characteristic identification code using 1 or 2 digits.

EXAMPLE



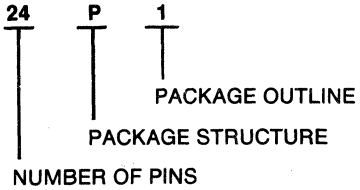
PACKAGE CODE (for ordering only)

Package style may be specified by using the following simplified alphanumeric code.

PACKAGE STRUCTURE
- D – Ceramic chip
- K – Glass-sealed ceramic
- P – Molded plastic
- S – Metal-sealed ceramic

PACKAGE OUTLINE
- 0 – Leadless
- 1 – DIL without fin
- 2 – Flat without fin
- 4 – DIL without fin (improved)
- 5 – SIL without fin
- 5A – ZIL without fin

EXAMPLE



MITSUBISHI ELECTRIC CORP. – MITJ

Kita-Itami Works
4-1 Mizuhara Itami Shi
Hyogo, Japan 664
0727-82-5131
Telex: 526408 KMELCO J

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microcomputer Systems, Microprocessor ICs, Microwave, Modules/Hybrids, Optoelectronics, Thyristor, Transistor

DEVICE NUMBERING KEY

ORIGINAL IC DEVICES

TEMPERATURE RANGE
- 5 – Industrial/consumer (Operating ambient temperature range is -20 to 75°C, standard)
- 9 – High-reliability type

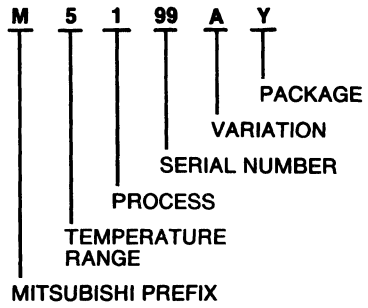
PROCESS
- 0 – CMOS
- 1-2 – Linear circuit
- 3 – TTL
- 10-19 – Linear circuit
- 32-33 – TTL (equivalent to the TI SN74 Family)
- 41-47 – TTL, others
- 48-49 – I^2L
- 84 – CMOS
- 85 – p-channel silicon gate MOS
- 86 – p-channel aluminum gate MOS
- 87 – n-channel silicon gate MOS
- 88 – p-channel aluminum gate ED-MOS
- 89 – CMOS
- S0-S2 – Shottky TTL (equivalent to the TI SN74S family)

SERIAL NUMBER
This group consists of a two-digit serial number to indicate the type of circuit within the series.

VARIATION
Consists of a single letter which indicates the difference of outer appearance or some part of the device specifications as listed below.
(1) For linear circuits, this is one letter of the alphabet, chosen in alphabetical order but not including I or O, which is used to flag devices for which parts of the specifications differ.
(2) For devices with identical specifications having only pin bending direction differences, an R is assigned to this group.
(3) When this group designation is not required, the next group is shifted to the left to follow the group (4) immediately.

PACKAGE
- B – Resin sealed ceramic-type package
- K – Low melting point glass sealed ceramic-type package
- L – Plastic molded SIL (single-in-line) package
- P – Plastic molded DIL (dual in-line) package
- S – Cermet package
- T – Can sealed glass-metal package (similiar to the TO-5 package)
- Y – Can sealed glass-metal package (similiar to the TO-3 package)

EXAMPLE



SECOND SOURCE DEVICES

TEMPERATURE RANGE
- 5 – Standard industrial/commercial (0 to 70/75°C or -20 to 85°C)
- 9 – High reliability

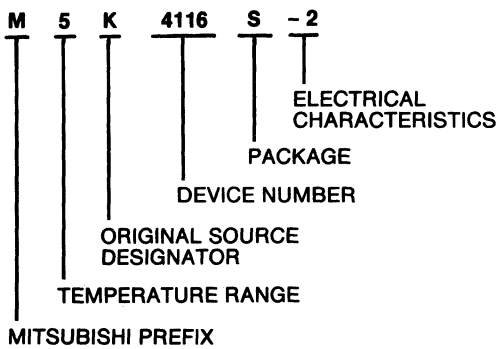
ORIGINAL SOURCE DESIGNATOR
Series designation of original source using 1 or 2 alphabetical characters.
- A – Advanced Micro Devices
- C – Motorola's MC series
- E – Signetics
- F – Fairchild
- G – General Instrument's series
- K – Mostek's MK series
- L – Intel's series
- N – National Semiconductors
- R – Raytheon
- T – Texas Instruments' TMS series
- W – Western Digital's series

DEVICE NUMBER
Circuit function identification code of the original source type number.

PACKAGE
- K – Glass-sealed ceramic
- P – Molded plastic
- S – Metal-sealed ceramic

ELECTRICAL CHARACTERISTICS
Electrical characteristic identification code using 1 or 2 digits.

EXAMPLE



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MITSUBISHI ELECTRIC CORP. Cont'd

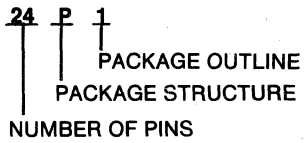
DEVICE NUMBERING KEY

PACKAGE CODE (for ordering only)
Package style may be specified by using the following simplified alphanumeric code.

PACKAGE STRUCTURE
- K - Glass-sealed ceramic
- P - Molded plastic
- S - Metal-sealed ceramic

PACKAGE OUTLINE
- 1 - DIL without fin
- 2 - Flat without fin
- 4 - DIL without fin (improved)
- 4B - Shrink DIL without fin
- 10 - DIL without fin and with quartz lid

EXAMPLE:



MONOLITHIC MEMORIES, INC. - MMI

2151 Mission College Blvd.
Santa Clara, CA 95054
408/970-9700
Telex: 910-338-4506

Application Notes, Digital ICs, Interface ICs, Memory ICs, Microprocessor ICs

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MOTOROLA SEMICONDUCTOR PRODUCTS, INC. - MOTA

3501 Ed Bluestein Blvd.
Austin, TX 78721
512/928-7675

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microcomputer Systems, Microprocessor ICs, Microwave, Modules/Hybrids, Optoelectronics, Thyristor, Transistor

DEVICE NUMBERING KEY

IC DEVICES

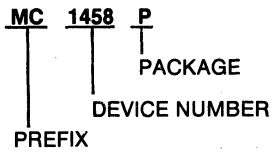
PREFIX
- MC - Packaged Integrated Circuits
- MCC - Unencapsulated Integrated Circuit chips
- MFC - Low cost Integrated Circuits packaged in Motorola's unique "Functional Circuits" plastic package. (Package suffix not used in this device series.)
- MCBC - Beam-lead Integrated Circuit chips
- MCB - Packaged Beam-lead Integrated Circuits. (Followed by F suffix when in flat pack.)
- MCCF - Flip-Chip Linear Integrated Circuits
- MLM - Pin-for-pin equivalent to Linear Integrated Circuits made by National Semiconductor
- MCH - Hybrid Integrated Circuit in hermetic package
- MHP - Hybrid Integrated Circuit in plastic package

DEVICE NUMBER

Body Number for Motorola Proprietary Devices
- 1500-1599 - Military temperature grade (-55 to +125°C) Linear ICs
- 1400-1499, 3400-3399 - Equivalent to devices above but with Industrial temperature range (0 to +70°C)
- 1300-1399, 3300-3399 - Linear ICs aimed at the Consumer industry

PACKAGE
- L - Ceramic dual in-line case (14 or 16 pin)
- G - Metal can package (TO-5 types)
- R - Metal power package (TO-66 type)
- K - Metal power package (TO-3 type)
- F - Flat package
- P - Plastic package
- P1,P2 - Used when an IC is available in more than one plastic package. i.e. P1 = 8 lead plastic DIP, P2 = 14 pin plastic DIP
- PQ - ICs packaged in staggered-lead plastic DIP packages (Consumer device types only)
- C - Designates limited temperature, or limited performance device. Followed by package designation suffix, i.e. MC1709CL
- A - Designates improved or modified IC type, followed by package suffix, i.e. MC1489AL.

EXAMPLE



M-TRON INDUSTRIES, INC. – MTI
P.O. Box 630
Yankton, SD 57078
605/665-9321

Digital ICs, Modules/Hybrids

MULLARD LTD. – MULB
New Road
Mitcham Surrey
England CR4 4XY
01-580-6633
Telex: 264341

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microcomputer Systems, Microwave, Microprocessor ICs, Modules/Hybrids, Optoelectronics, Thyristor, Transistor

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NATIONAL SEMICONDUCTOR CORP. – NSC
2900 Semiconductor Drive
Santa Clara, CA 95052-8090
408/721-5000
Telex: 246-253

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microwave, Modules/Hybrids, Microprocessor ICs, Optoelectronics, Transistor

DEVICE NUMBERING KEY

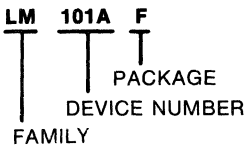
IC DEVICES

FAMILY
- AD – Analog to Digital
- AH – Analog Hybrid
- AM – Analog Monolithic
- CD – CMOS Digital
- DA – Digital to Analog
- DM – Digital Monolithic
- LF – Linear FET
- LH – Linear Hybrid
- LM – Linear Monolithic
- LX – Transducer
- MM – MOS Monolithic
- TBA – Linear Monolithic

DEVICE NUMBER
- 3, 4, or 5 Digit Number Suffix Indicators:
- A – Improved Electrical Specification
- C – Commercial Temperature Range

PACKAGE
- D – Glass/Metal Dual-In-Line Package
- F – Glass/Metal Flat Pack
- H – TO-5 (TO-99, TO-100, TO-46)
- J – Low Temperature Glass Dual-In-Line Package
- K – TO-3 (Steel)
- KC – TO-3 (Aluminum)
- N – Plastic Dual-In-Line Package
- P – TO-202 (D-40, Durawatt)
- S – "SGS" Type Power Dual-In-Line Package
- T – TO-220
- W – Low Temperature Glass Flat-Pack
- Z – TO-92

EXAMPLE



NCR MICROELECTRONICS CORP. – NCR
8181 Byers Rd.
Miamisburg, OH 45342
513/866-7471
Telex: 513-865-0995

Power Supplies, Memory ICs, Digital ICs, Application Notes, Linear ICs, Microprocessor ICs, Microcomputer Systems

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NEC ELECTRONICS USA, INC. – NECE
A Division of NEC Electronics GmbH – West Germany
401 Ellis Street
Mountain View, CA 94039-7241
415/960-6000
Telex: 415-965-6130

Application Notes, Audio/Video ICs, Diode, Interface ICs, Linear ICs, Modules/Hybrids, Microprocessor ICs, Microwave, Optoelectronics, Memory ICs, Transistor

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NEW JAPAN RADIO CO., LTD. – NJRC
1-22-14 Toranomon
Minato-ku, Tokyo 105 Japan

Diode, Microwave, Audio/Video ICs, Digital ICs, Linear ICs

NIPPON ELECTRIC CO., LTD. – NECJ
33-1 Shiba 5-chome
Minato-ku, Tokyo
Japan 108
454-1111
Telex: NECTOK J22686

NEC

Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microprocessor ICs, Microwave, Modules/Hybrids, Optoelectronics, Thyristor, Transistor

DEVICE NUMBERING KEY

IC DEVICES

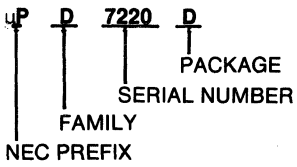
NEC PREFIX
Symbol indicating a semiconductor integrated circuit
(Abbreviation for MICRO PACK)

FAMILY
Symbol identifying one of the following type of circuits
A – Composite elements
B – Bipolar type digital circuit
C – Bipolar type analog circuit
D – Unipolar type digital circuit (MOS)

SERIAL NUMBER
Serial number assigned to each product for in-house registration
(based on major classifications by application)

PACKAGE
Symbol identifying one of the following types of packages
A – Metal can similar to TO-5
B – Flat pack (ceramic)
C – Dual in-line package (DIP) (plastic mold)
D – Dual in-line package (DIP) (ceramic)
G – Flat pack (plastic mold)
H – Single in-line package (SIP) (plastic mold)
J – Package similar to TO-92 (plastic mold)
M – MINI MOD Package (film-carrier type mold)
V – Vertical dual in-line package (VDIP)

EXAMPLE



OKI ELECTRIC INDUSTRY CO., LTD. – OKIJ
10-3 Shibaura, 4-chome
Minato-Ku
Tokyo 108, Japan
Telex: J22 627

OKI

Application Notes, Audio/Video ICs, Digital ICs, Interface ICs, Linear ICs, Memory ICs, Microprocessor ICs, Microwave, Optoelectronics

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OKI SEMICONDUCTOR – OKIJ
650 N. Mary
Sunnyvale, CA 94086
408/720-1900

OKI

Application Notes, Audio/Video ICs, Digital ICs, Interface ICs, Linear ICs, Memory ICs, Microwave, Optoelectronics, Microprocessor ICs

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PCA ELECTRONICS – PCA
16799 Schoenborn
Sepulveda, CA 91343
818/892-0761

Digital ICs

PERFORMANCE SEMICONDUCTOR CORPORATION – PSC
610 East Weddell Drive
Sunnyvale, CA 94089
408/734-9000
Telex: 6502715784

PERFORMANCE SEMICONDUCTOR CORPORATION

Interface ICs, Microprocessors ICs

PHILIPS ELECTRONICS – PHIN
Components & Materials Division
Elcoma Comm. Dept.
Eindhoven, Netherlands
Telex: 0772716

PHILIPS

Application Notes, Audio/Video ICs, Capacitors, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microprocessor ICs, Microwave, Modules/Hybrids, Optoelectronics, Power Supplies, Thyristor, Transistor

(continued)

PHILIPS ELECTRONICS Cont'd

DEVICE NUMBERING KEY

IC DEVICES

A basic number consists of:
THREE LETTERS FOLLOWED BY A SERIAL NUMBER

FAMILY
FIRST AND SECOND LETTER

1. DIGITAL FAMILY CIRCUITS
   The FIRST TWO LETTERS identify the FAMILY
2. SOLITARY CIRCUITS
   The FIRST LETTER divides the solitary circuits into:
   S-Solitary digital circuits
   T-Analogue circuits
   U-Mixed analogue/digital circuits
   The SECOND LETTER is a serial letter without any further significance except "H" which stands for hybrid circuits.
3. MICROPROCESSORS
   The FIRST TWO LETTERS identify microprocessors and correlated circuits as follows:
   - MA – Microcomputer Central processing unit
   - MB – Slice processor
   - MD – Correlated memories
   - ME – Other correlated circuits (interface, clock, peripheral controller, etc.)

TEMPERATURE RANGE
THIRD LETTER
It indicates the operating ambient temperature range.
The letters A to G give information about the temperature:

- A – temperature range not specified
- B – 0 to +70°C
- C – 55 to +125°C
- D – 25 to +70°C
- E – 25 to +85°C
- F – 40 to +85°C
- G – 55 to +85°C

If a circuit is published for another temperature range, the letter indicating a narrower temperature range may be used or the letter "A".

SERIAL NUMBER
This may be either a 4-digit number assigned by Pro Electron, or the serial number (which may be a combination of figures and letters) of an existing company type designation of the manufacturer.

To the basic type number may be added:

VERSION
Indicates a minor variant of the basic type or the package. Except for "Z", which means customized wiring, the letter has no fixed meaning. The following letters are recommended for package variants:

- C – for cylindrical
- D – for ceramic DIL
- F – for flat pack
- P – for plastic DIL
- Q – for QIL
- U – for uncased chip

PACKAGE
Alternatively a TWO LETTER SUFFIX may be used instead of a single package version letter, if the manufacturer (sponsor) wishes to give more information.

FIRST LETTER: General shape

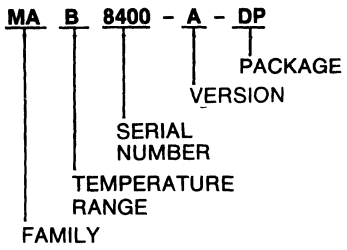
- C – Cylindrical
- D – Dual-in-line (DIL)
- E – Power DIL (with external heatsink)
- F – Flat (leads on 2 sides)
- G – Flat (leads on 4 sides)
- K – Diamond (TO-3 family)
- M – Multiple-in-line (except Dual-, Triple-, Quadruple-in-line)
- Q – Quadruple-in-line (QIL)
- R – Power QIL (with external heatsink)
- S – Single-in-line
- T – Triple-in-line

SECOND LETTER: Material

- C – Metal-ceramic
- G – Glass-ceramic (cerdip)
- M – Metal
- P – Plastic

A hyphen precedes the suffix to avoid confusion with a version letter.

EXAMPLE



IC DEVICES

FAMILY
PC – High speed CMOS

TEMPERATURE RANGE
54 – Extended temperature range –55°C to 125°C (Cerdip only)
74 – Standard temperature range –40°C to 85°C or –40°C to 125°C

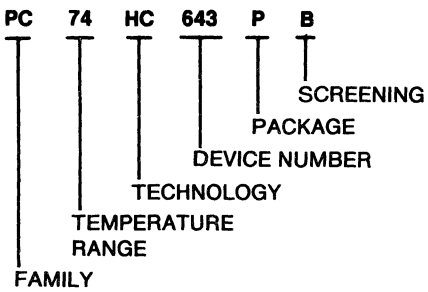
TECHNOLOGY
HC – CMOS input switching levels; supply voltage 2V to 6V; fully buffered
HCT – TTL input switching levels; supply voltage 4.5V to 5.5V; fully buffered
HCU – CMOS input switching levels; supply voltage 2V to 6V; Unbuffered (Single stage device)

DEVICE NUMBER
Up to five digits

PACKAGE
D – Ceramic (Cerdip)
P – Plastic
T – Plastic mini-pack (SO)

SCREENING (OPTIONAL)
B – Burn-In

EXAMPLE



PLESSEY SEMICONDUCTORS – PLSB
Cheney Manor
Swindon, Wiltshire
England, SN2 2QW
Telex: 079336251

Application Notes, Audio/Video ICs, Digital ICs, Interface ICs, Linear ICs, Microprocessor ICs, Microcomputer Systems, Transistor

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PULSE ENGINEERING PRODUCTS – PUL
7250 Convoy Court
San Diego, CA 92112
619/268-2400

Digital ICs

RAYTHEON COMPANY – RTN
350 Ellis Street
Mountain View, CA 94043
415/968-9211
Telex: 910-379-6484

Application Notes, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microwave, Optoelectronics, Transistor

DEVICE NUMBERING KEY

PACKAGE DESCRIPTIONS

BM – 16-Pin Epoxy-B DIP
CJ – 14-Pin Ceramic Flatpak
CL – 16-Pin Ceramic Flatpak
CK – 14-Pin Ceramic Flatpak
D – 14-Pin Metal DIP
DB – 14-Pin Epoxy-B DIP
DC – 14-Pin Ceramic DIP
DD – 16-Pin Ceramic DIP
DE – 8-Pin Ceramic DIP
DM – 16-Pin Ceramic DIP
DZ – 40-Pin Ceramic DIP
F – Flatpak
FV – 28-Pin Ceramic Flatpak
FZ – 42-Pin Ceramic Flatpak
H – 3,8 or 10-Pin Metal Can
J – 14 or 16-Pin Ceramic DIP
K – TO-3 Power Pack
MB – 16-Pin Epoxy-B DIP
ML – 16-Pin Ceramic DIP, Side Brazed
MS – 20-Pin Ceramic DIP, Side Brazed
MZ – 40-Pin Ceramic DIP, Side Brazed
N – 24-Pin Glass/Metal Flatpak
N – Epoxy-B DIP (LM Series)
NB – 8-Pin Epoxy-B DIP
PS – 20-Pin Epoxy-B DIP
PU – 24-Pin Epoxy-B DIP
PV – 28-Pin Epoxy-B DIP
PZ – 40-Pin Epoxy-B DIP
Q – 10-Pin Flatpak (¼" x ¼")
R – 24-Pin Ceramic DIP
T – 3,8,10 or 12-Pin Metal Can
TK – 9-Pin TO-66 Power Pack
W – 14-Pin Ceramic Flatpak

LOW POWER SCHOTTKY DEVICES

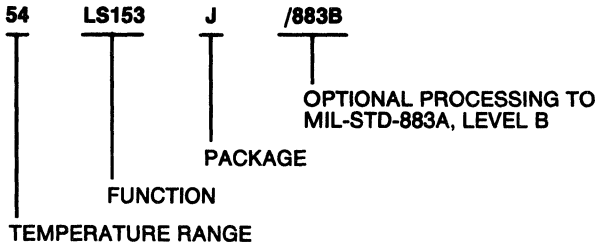
TEMPERATURE RANGE
- 25 – Com'l 0 to +70°C
- 25 – Mil -55 to +125°C
- 54 – -55 to +125°C
- 74 – 0 to 75°C

PACKAGE
- J – Ceramic DIP
- W – Ceramic Flatpack
- CH – Gold-backed chip, visually inspected to MIL-STD-883A, method 2012, and packaged in waffle pack.

OPTIONAL PROCESSING TO MIL-STD-883A, LEVEL B

Notes:
1. All standard 54/74LS products will be branded 9/54 LS and 9/74 LS.
2. For MIL-M-38510 device types, order by the JAN part numbering system.

EXAMPLE



(continued)

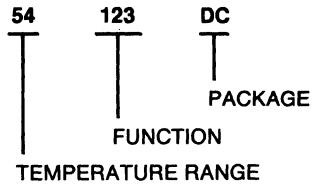
RAYTHEON COMPANY Cont'd

DEVICE NUMBERING KEY

54/7400 SSI AND MSI SERIES

TEMPERATURE RANGE
54 – -55 to +125°C
74 – 0 to +70°C
PACKAGE
See Package Descriptions

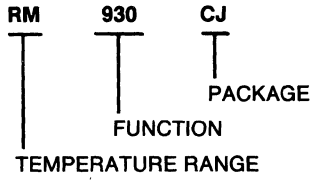
EXAMPLE



930 DTL SERIES

TEMPERATURE RANGE
RC – 0 to 70°C
RM – -55 to +125°C
PACKAGE
See Package Descriptions

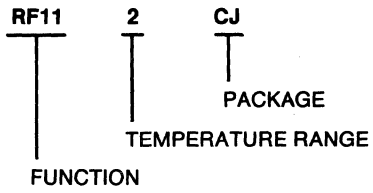
EXAMPLE



RAY I, II AND III TTL SERIES

TEMPERATURE RANGE
0 or 1 – -55 to +125°C
2 or 3 – 0 to +70°C
PACKAGE
See Package Descriptions

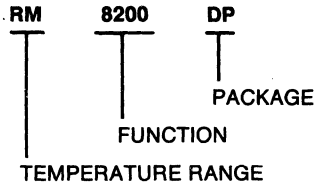
EXAMPLE



8200 MSI SERIES

TEMPERATURE RANGE
RC – 0 to +70°C
RM – -55 to +125°C
PACKAGE
See Package Descriptions

EXAMPLE



RCA CORPORATION – RCA
Solid State Division
Route 202
Somerville, NJ 08876
201/685-6423
Telex: 685-6621

Application Notes, Audio/Video ICs, Digital ICs, Interface ICs, Linear ICs, Memory ICs, Microcomputer Systems, Microprocessor ICs, Modules/Hybrids, Optoelectronics, Thyristor, Transistor Microwave

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RHOMBUS INDUSTRIES, INC. – RHB
15801 Chemical Lane
Huntington Beach, CA 92649
714/898-0960

Digital ICs

ROHM CORP. – RHM
P.O. Box 19515
Irvine, CA 92713
714/855-2131

Diode, Microwave, Optoelectronics, Transistor

R. S. COMPONENTS LTD., – RSCB
P.O. Box 99
Corby, Northants
England NN17 9RS

Application Notes, Audio/Video ICs, Digital ICs, Interface ICs, Linear ICs, Microprocessor ICs, Thyristor Memory ICs, Optoelectronics

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RTC-COMPELEC – RTCF
130 Ave. Ledru-Rollin
75540 Paris Cedex 11
France
43 38 8000
Telex: 680495

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microprocessor ICs, Modules/Hybrids, Microwave, Optoelectronics, Thyristor, Transistor, Microcomputer Systems

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SANYO ELECTRIC CO., LTD. – TSAJ
Oizumimachi Oragun
Gumma, Japan
201/825-8080

Audio/Video ICs, Diode, Interface ICs, Linear ICs, Digital ICs, Modules/Hybrids, Microprocessor ICs, Microcomputer Systems, Microwave, Power Supplies, Memory ICs, Transistor, Thyristor

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SDI, INC. – SDI
11 Executive Park Drive
North Billerica, MA 01862
617/667-7700
Telex: 951-592

Diode, Microwave

SGS-ATES COMPONENTI ELECTTRONICI S.P.A. – SGSI
Via C. Olivetti 2,-20041 Agrate Brianza
Milan, Italy
2-8244131
Telex: 330131

Application Notes, Audio/Video ICs, Diode, Digital ICs, Interface ICs, Linear ICs, Memory ICs, Microcomputer Systems, Microprocessor ICs, Modules/Hybrids, Transistor

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SIEMENS AKTIENGESELLSCHAFT – SIEG
Balanstr 73
D-8000
Munchen 80
West Germany
089/ 41440
Telex: 52108-30

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microcomputer Systems, Microprocessor ICs, Microwave, Optoelectronics, Thyristor, Transistor

(continued)

SIEMENS AKTIENGESELLSCHAFT Cont'd

DEVICE NUMBERING KEY

IC DEVICES

FAMILY

The code consists of three letters followed by a serial number

First two letters

A. Solitary circuits
The first letter identifies the circuit as:
S–Solitary digital circuit
T–Analog circuit
U–Mixed analog/digital circuit
The second letter has no special significance, except the letter H which stands for hybrid circuits.

B. Family circuits
These are digital circuits related in their specifications and primarily designed to be mutually connected.
The first two letters identify the family.

TEMPERATURE RANGE

The third letter: indicates the operational temperature range or exceptionally, another significant characteristic.

A – No temperature range specified
B – 0 to 70°C
C – 55 to 125°C
D – 25 to 70°C
E – 25 to 85°C
E – 25 to 85°C
F – 40 to 85°C

If a circuit is designed for a wider temperature range, but does not qualify for a higher classification, the code letter for the narrower temperature range is used.

SERIAL NUMBER

The serial number may either be a 4-digit number (assigned by PRO ELECTRON) or the serial number (combining figures and perhaps numbers) of an existing company number. Company numbers consisting of less than four digits are extended to a four-digit number by adding zeroes (0) in front.

VERSION

A version letter may be added to indicate a variation of the basic type. Thus, slight changes of the basic type or the package may be designated. Version-letters have no fixed significance with the exception of the letter Z: Connection as specified by customer ("customized wiring").

PACKAGE

FIRST LETTER: General shape

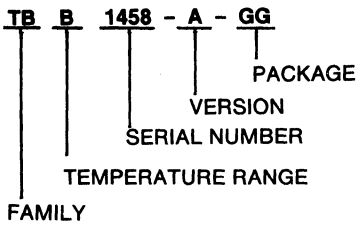
C–Cylindrical
D–Dual-in-line (DIL)
E–Power DIL (with external heatsink)
F–Flat (leads on 2 sides)
G–Flat (leads on 4 sides)
K–Diamond (TO-3 family)
M–Multiple-in-line (except Dual, Triple, Quadruple-in-line)
Q–Quadruple-in-line (QIL)
R–Power QIL (with external heatsink)
S–Single-in-line
T–Triple-in-line

SECOND LETTER: Material

C – Metal-ceramic
G – Glass-ceramic (cerdip)
M – Metal
P – Plastic

A hyphen precedes the suffix to avoid confusion with a version letter.

EXAMPLE



DEVICE NUMBERING KEY

FORMER IC PRODUCT CODE

FAMILY
First two letters: same as new code.
(Refer to SIEG "IC DEVICES")

FUNCTION
The third letter: indicates the function

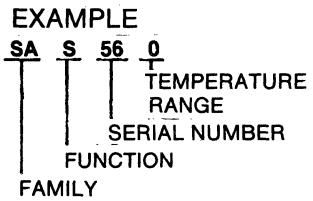
H – Combinatorial circuit
J – Bistable or multistable sequential circuit (static)
K – Monostable sequential circuit
L – Level converter (dynamic)
N – Bi-metastable or multi-stable sequential circuit
Q – Read-write memory
R – Read-only memory
S – Sense amplifier with digital output
Y – Miscellaneous circuits not covered by H to S

SERIAL NUMBER/TEMPERATURE RANGE

The third digit (of the serial number of three digits) indicates the operating temperature range

0 – No temperature range specified
1 – 0 to 70°C
2 – –55 to 125°C
3 – –10 to 85°C
4 – 15 to 55°C
5 – –25 to 70°C
6 – –40 to 85°C

EXAMPLE



SIEMENS CORP. – SIT
2191 Laurelwood Road
Santa Clara, CA 95043
408/980-4500
Telex: 989791

SIEMENS

Audio/Video ICs, Interface ICs, Linear ICs, Microprocessor ICs, Memory ICs

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SIGNETICS CORP. – SIC
A Subsidiary of U.S. Philips Corp.
811 E. Arques Avenue
P.O. Box 3409
Sunnyvale, CA 94088-3409
408/991-3604
Telex: 991-3581

signetics

Application Notes, Audio/Video ICs, Digital ICs, Interface ICs, Linear ICs, Memory ICs, Microprocessor ICs, Microcomputer Systems, Modules/Hybrids, Transistors

DEVICE NUMBERING KEY

QUALIFIED LOGIC DEVICES
JAN QUALIFIED PRODUCTS

EXAMPLE 1:

JM38510 / 07801 B J B

- JM38510 – JAN QUALIFIED
- 07801 – SLASH SHEET NUMBER (DEVICE NUMBER)
- B – CLASS "B"
- J – PACKAGE
- B – LEAD FINISH

EXAMPLE 2:

J B 54S181 F

- J – JAN QUALIFIED
- B – CLASS "B"
- 54S181 – DEVICE
- F – PACKAGE

(NON-JAN) MIL-STD-883 PRODUCTS

EXAMPLE 1:

S 54S181 F 883 B

- S – MILITARY TEMPERATURE RANGE (–55 TO 125°C)
- 54S181 – DEVICE NUMBER
- F – PACKAGE
- 883 – MIL-STD-883
- B – LEVEL "B"

EXAMPLE 2:

RB 54S181 F

- RB – MIL-STD-883, LEVEL "B"
- 54S181 – DEVICE NUMBER
- F – PACKAGE

PACKAGE
F – Ceramic DIP
I – Ceramic DIP
G – Ceramic Leadless Chip Carrier
W – Ceramic Flatpack

CMOS DEVICES

TEMPERATURE RANGE
C – Full
F – Limited

PACKAGE
P – Plastic
D – Ceramic (Cerdip)
T – Plastic SO mini-pack

SCREENING
B – Burn-In

EXAMPLE

HE F 4512 B D B

- HE – FAMILY
- F – TEMPERATURE RANGE
- 4512 – DEVICE NUMBER
- B – JEDEC "B" SERIES CMOS SPECIFICATION
- D – PACKAGE
- B – SCREENING

SIGNETICS CORP. Cont'd

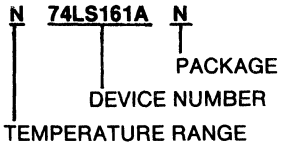
DEVICE NUMBERING KEY

TTL DEVICES

TEMPERATURE RANGE
- N – Commercial range 0°C to 70°C (0°C to 75°C for 8200 and 9300)
- S – Military range -55°C to 125°C

PACKAGE
- F – Ceramic DIP
- N – Plastic DIP
- D – SO Plastic
- I – Ceramic DIP
- Q – Ceramic flatpack
- W – Ceramic Flatpack
- G – Ceramic leadless chip carrier

EXAMPLE



SOLID STATE ELECTRONICS CORP. – SSE
18646 Parthenia
Northridge, CA 91324
818/993-8257

Digital ICs, Linear ICs, Modules/Hybrids, Transistor

SOLITRON DEVICES, INC. – SOD
1177 Blue Heron Blvd.
Riviera Beach, FL 33404
800/327-8462
Telex: 510-952-7610

Application Notes, Digital ICs, Diode, Interface ICs, Memory ICs, Microwave, Linear ICs, Modules/Hybrids, Thyristor, Transistor

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SPACE RESEARCH TECHNOLOGY – SRT
2323 South Voss Road
Suite 123
Houston, TX 77057
713/782-2244

Digital ICs

SPRAGUE ELECTRIC COMPANY – SPR
A Unit of the Penn Central Corporation
115 Northeast Cutoff
Worcester, MA 01606
617/853-5000
800/247-2976

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Optoelectronics, Power Supplies, Thyristor, Transistor

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SPRAGUE SOLID STATE – SSS
3900 Welsh Road
Willow Grove, PA 19090
215/657-8400
Telex: 510-661-7267

Application Notes, Digital ICs, Interface ICs, Memory ICs

DEVICE NUMBERING KEY

CMOS DEVICES

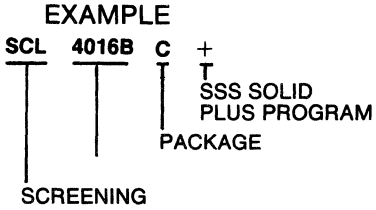
SCREENING
- SCL – Standard
- 883/ – MIL-STD-883 Level B
- CCL – MIL-STD-883 Level C
- JCL – 38510

DEVICE NUMBER
- Consists of four numerals plus one or two letters

PACKAGE
- C – Cerdip (Frit-Seal Ceramic)
- D – Ceramic (Welded-Seal or Side-Brazed)
- E – Epoxy (Plastic)
- F – Metal Flat Pack
- H – Chip
- K – Flat Pack (Cerpack)
- L – Leadless

SSS SOLID PLUS PROGRAM
- No Designator – Standard
- \+ – Solid + Program

EXAMPLE



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SPRAGUE SOLID STATE Cont'd

PACKAGING INFORMATION

Devices in the 4000 Series are available in a variety of package types and temperature ranges. The single-letter package designator appears as a suffix to the device type.

DESIGNATOR SCL	DESIGNATOR 883/	TYPE	STYLE	TEMPERATURE RANGE
C	C	Cerdip (Frit-Seal)	Dual-in-Line (DIP)	−55°C to +125°C
	D	Ceramic (Welded-Seal or Side-Brazed)	Dual-in-Line (DIP)	−55°C to +125°C
E		Epoxy (Plastic)	Dual-in-Line (DIP)	−40°C to +85°C
	F	Metal	Flat Pack	−55°C to +125°C
H	H	Chip	—	−55°C to +125°C
	K	Cerpack	Flat Pack	−55°C to +125°C
	L	Ceramic Chip Carrier	Leadless	−55°C to +125°C

STANDARD MICROSYSTEMS CORP. – SMC
35 Marcus Blvd.
Hauppauge, NY 11788
516/273-3100

Application Notes, Interface ICs, Linear ICs, Microprocessor ICs, Microcomputer Systems, Memory ICs

STANFORD TELECOMMUNICATIONS – STF
2421 Mission College Blvd.
Santa Clara, CA 95054
408/748-1010

Digital ICs, Microprocessor ICs

STATEK CORP. – STK
512 No. Main
Orange, CA 92668
714/639-7810
Telex: 67-8394

Application Notes, Digital ICs, Microprocessor ICs, Modules/Hybrids

SUPERTEX, INC. – STX
1350 Bordeaux Drive
Sunnyvale, CA 94088
408/744-0100
Telex: 3106B39143 SUPTX

Audio/Video ICs, Digital ICs, Interface ICs, Linear ICs, Memory ICs, Transistor, Application Notes

TECHNITROL – TNL
1952 East Allegheny Ave.
Philadelphia, PA 19134
215/426-9105

Digital ICs, Interface ICs

TELEDYNE SEMICONDUCTOR CORP. – TSC
1300 Terra Bella Avenue
Mountan View, CA 94039
415/968-9241

Application Notes, Digital ICs, Diodes, Interface ICs, Linear ICs

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TELEDYNE SEMICONDUCTOR CORP. Cont'd

DEVICE NUMBERING KEY

CMOS ICs

ELECTRICAL PERFORMANCE GRADE (Optional)
- R - Reversed Pin Layout

TEMPERATURE RANGE
- M - Military Temperature Range (-55°C to +125°C)
- I* - Industrial Temperature Range (-25°C to +85°C)
- C - Commercial Temperature Range (0°C to +70°C)
- * - May Be -40°C to +85°C. Refer to Specific Device Specification

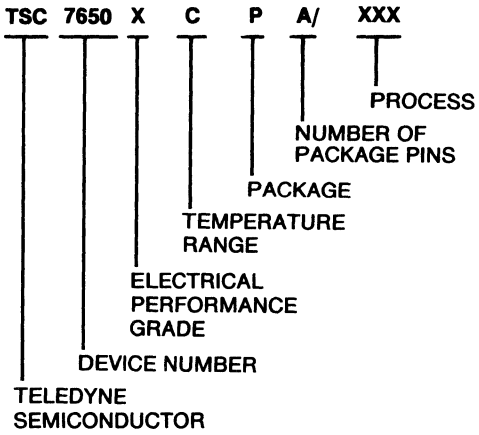
PACKAGE
- J - CerDIP Dual-In Line (non side brazed)
- P - Plastic Dual-In-Line
- T - TO-99 Type (round metal can)
- B - Plastic Flat Package (formed leads)
- S - Plastic Flat Package (unformed (straight) leads)
- O - Plastic "SO" Surface Mount
- L - Plastic Leaded Chip Carrier (PLCC)

NUMBER OF PACKAGE PINS
- A - 8
- D - 14
- E - 16
- F - 22
- N - 18
- G - 24
- I - 28
- L - 40
- Y - 8 (pin 4 connected to case)
- Q - 60
- S - 68
- W - 44

PROCESS
- 883 - MIL-STD-883B. Class B Processing**
- BI - 100% Burn-In at 125°C for 160 Hours

**Contact manufacturer for MIL-STD-883C status.

EXAMPLE

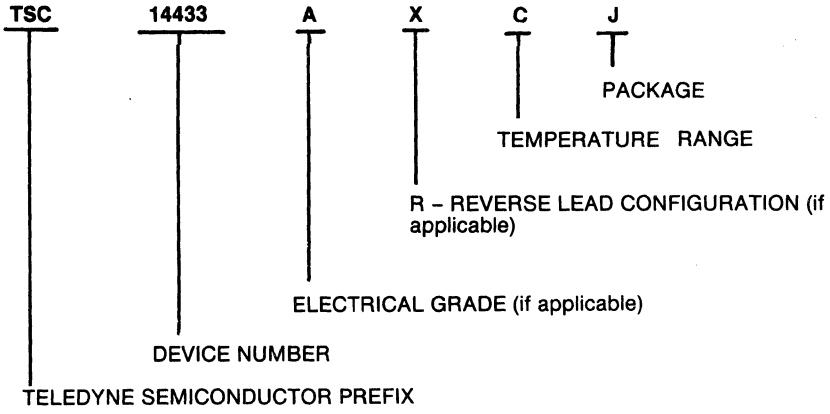


87XX/94XX/14433 SERIES CMOS

TEMPERATURE RANGE
- C - Commercial Temperature Range (0-70°C)
- E - Extended Temperature Range (-40 to +85°C)
- B - Military Temperature Range (-55 to +125°C)

PACKAGE
- J - Plastic Package
- N - Ceramic Package
- L - CerDIP
- Y - Dice
- E - Metal Can (TO-99)
- M - Metal Can (TO-18)

EXAMPLE



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TELEDYNE SEMICONDUCTOR CORP. Cont'd

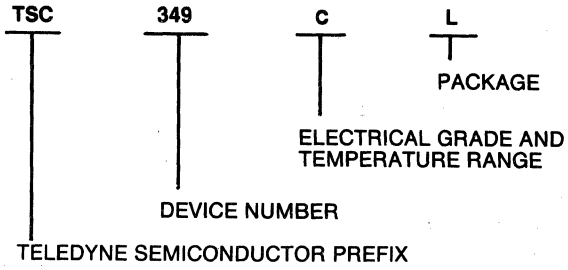
DEVICE NUMBERING KEY

BIPOLAR LOGIC - 300 SERIES

ELECTRICAL GRADE AND TEMPERATURE RANGE
- A - Industrial Temperature Range, 15 V, (-30 to +70°C)
- B - Military Temperature Range, 12 V, (-55 to +125°C)
- C - Industrial Temperature Range, 12 V, (-30 to +85°C)
- M - Military Temperature Range, 15 V, (-55 to +125°C)

PACKAGE
- G - Metal Can (TO-8)
- H - Flatpack
- J - Plastic Package
- L - Ceramic Package (CerDIP)
- Y - Dice

EXAMPLE



TELEFUNKEN ELECTRONIC GmbH - ALGG

Semiconductor
Theresienstrasse 2
Heilbronn D-7100 West Germany
07131-67-0
Telex: 7-28-746

Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Microwave, Transistor, Application Notes, Optoelectronics, Microprocessor ICs, Digital ICs

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TEXAS INSTRUMENTS, INC. - TII

Literature Response Center
P.O. Box 401560
Dallas, TX 75240
214/995-6611
Telex: 73324

Application Notes, Audio/Video ICs, Digital ICs, Interface ICs, Linear ICs, Memory ICs, Microcomputer Systems, Microprocessor ICs, Microwave, Modules/Hybrids, Optoelectronics, Thyristor, Transistor

DEVICE NUMBERING KEY

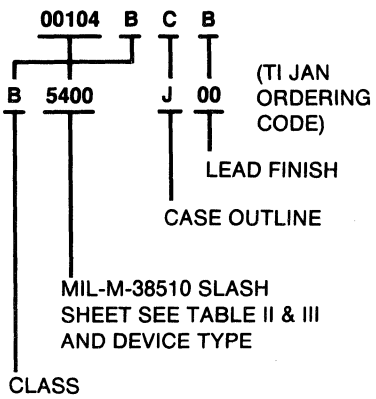
MILITARY PRODUCTS

CLASS JAN CODE	JEDEC STD.	MACH-IV
S	-	-
B	J	C
C	-	M

LEAD FINISH JAN	TYPE	TI
A	SOLDER DIP	10
B	TIN-PLATE	00
C/D	GOLD-PLATE	00
X	OPTIONAL	

JAN QUALIFIED - JM38510/ JAN

EXAMPLE



CASE OUTLINE

JAN CODE	38510 APP.C	DESCRIPTION	TI CODE
A	F-1	14 PIN F/P ¼" x ⅛"	-
B/T	F-3	14 PIN F/P $^3/_{16}$" x ¼"	T
C	D-1	14 PIN C DIP	J
D	F-2	14 PIN F/P ¼" x $^3/_8$"	W
E	D-2	16 PIN C DIP	J
F	F-5	16 PIN F/P ¼" x $^3/_8$"	W
G	A-1	8 PIN CAN (TO-99)	L
H	F-4	10 PIN F/P ¼" x ¼"	-
I	A-2	10 PIN CAN (TO-100)	-

JAN CODE	38510 APP.C	DESCRIPTION	TI CODE
J	D-3	24 PIN C DIP	J
K	F-6	24 PIN F/P $^3/_8$" x $^5/_8$"	W
M	A-3	8 PIN C DIP	-
P	D-4	40 PIN C DIP	JG
Q	D-5	20 PIN C DIP	-
R	D-8	18 PIN C DIP	J
V	D-6	22 PIN C DIP	-
W	D-7		-

(continued)

TEXAS INSTRUMENTS, INC. Cont'd

DEVICE NUMBERING KEY

MOS MEMORIES

PREFIX
- TMS – For MOS Memories, and MOS Microprocessors, and Associated Circuits
- SMJ – JEDEC Standard MIL-STD-883B

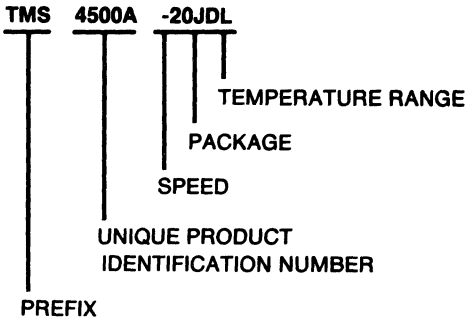
SPEED
- -3 – 35ns max access time
- -4 – 45ns max access time
- -5 – 55ns max access time
- -7 – 70ns max access time
- -10 – 100ns max access time
- -12 – 120ns max access time
- -15 – 150ns max access time
- -20 – 200ns max access time
- -25 – 250ns max access time
- -30 – 300ns max access time
- -35 – 350ns max access time
- -40 – 400ns max access time
- -45 – 450ns max access time
- -50 – 500ns max access time

PACKAGE
- J – Ceramic dual-in-line
- JD – Side-brazed ceramic
- N – Plastic dual-in-line
- FE – Multilayer chip carrier
- FG – Multilayer chip carrier
- FP – Plastic Chip Carrier
- MC – Chip-on-board

TEMPERATURE RANGE
- L – 0° to 70°C
- C – -25°C to 85°C
- M – -55°C to 125°C
- S – -55° to 100°C
- E – -40°C to 85°C

*Note: Inclusion of an "L" in product identification indicates the device operates at low power.

EXAMPLE



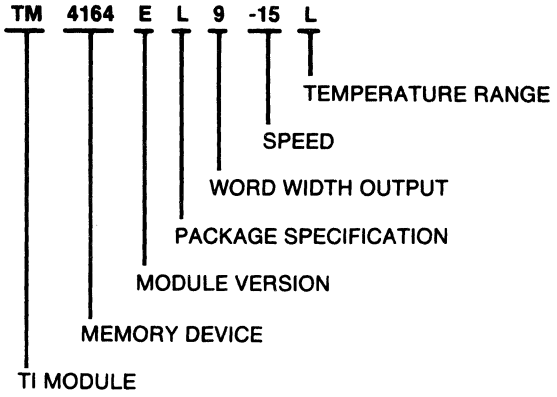
IC DEVICES

PACKAGE SPECIFICATION
- (76,2 x 16,5 mm)
- (3.0 x 0.65 inches)

SPEED
- Max Access
- -12 120 ns
- -15 150 ns
- -20 200 ns

TEMPERATURE RANGE
- L – 0°C to 70°C

EXAMPLE



THIRD DOMAIN, INC. – THD
P.O. Box 35400
Tucson, AZ 85740
602/792-3204
Telex: 275008

Audio/Video ICs, Digital ICs, Linear ICs, Microprocessor ICs

THOMSON CSF/EFCIS – THEF
45 Avenue de L'Europe
78140, Velizy Villacoublay
France
3-946-97-19
Telex: 204780F

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microcomputer Systems, Microprocessor ICs, Microwave, Modules/Hybrids, Optoelectronics, Thyristor, Transistor

(continued)

THOMSON CSF/EFCIS Cont'd

DEVICE NUMBERING KEY

IC DEVICES

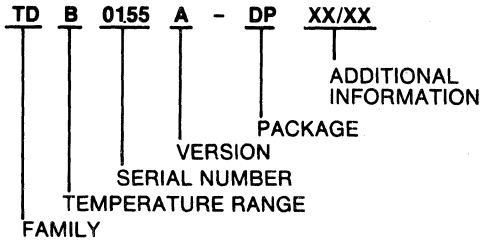
FAMILY
Three letters:
First: S – Digital IC
T – Analogue circuit
U – Mixed digital/Analogue circuit
Second: Any except A,B,C or H
Third: Operating Temperature range

TEMPERATURE RANGE
A – unspecified
B – 0°C to 70°C
C – 55°C to +125°C
D – 25°C to +70°C
E – 25°C to +85°C
F –40°C to +85°C

Second letter: material
B –Beryllia-ceramic
C –Ceramic
G –Glass-ceramic (Cerdip)
M – Metal
P –Plastic
X –Others

ADDITIONAL INFORMATION (OPTIONAL)
If necessary two numbers the first of them shows the number of leads.
The second, separated by a stroke is a serial number.

EXAMPLE



SERIAL NUMBER
At least four characters designating original source or Pro-Electron allocated number.

VERSION
Version digit: indicates minor electrical changes from basic types

PACKAGE
After a dash two letters indicate package variant if any
First letter: general shape
C – Cylindrical
D – Dual in line
E – Power dual in line (with external heatsink)
F – Flat pack (2 sides)
G – Flat pack (4 sides)
K – TO-3 family (diamond)
M – Multiple in line (more than 4 rows)
Q – Quadruple in line
R – Power quadruple in line (with external heatsink)
S – Single in line
T – Triple in line

TOKO AMERICA, INC. – TAI
1250 Feehanville Dr.
Mt. Prospect, IL 60056
312/677-3640

Audio/Video ICs, Power Supplies, Linear ICs, Digital ICs

TOSHIBA AMERICA, INC. – TOSA
2692 Dow Avenue
Tustin, CA 92680
714/832-6300
Telex: 314138

SANYO

Optoelectronics

TOSHIBA CORPORATION – TOSJ
c/o Microelectronics Center
1 Komukai,
Toshiba s/o Sai
Kawasaki 210, Japan
457-3495
Telex: J22587

Toshiba

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microcomputer Systems, Microprocessor ICs, Microwave, Modules/Hybrids, Optoelectronics, Thyristor, Transistor

(continued)

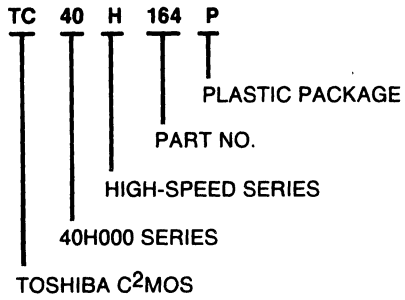
TOSHIBA CORPORATION Cont'd

DEVICE NUMBERING KEY

C^2MOS DEVICES

PART NO.
40H000 series are pin compatible with TTL 54/74 series.
40H000 SERIES
50H000 series are Toshiba original products.

EXAMPLE



TRIQUINT SEMICONDUCTOR – TRQ
A Tektronix Company
P.O. Box 4935
Beaverton, OR 97076
503/629-4227

TriQuint SEMICONDUCTOR

Digital ICs

TRW LSI PRODUCTS – TRW
P.O. Box 2472
La Jolla, CA 92038
619/457-1000

TRW

Digital ICs, Interface ICs, Linear ICs, Memory ICs, Microprocessor ICs, Application Notes Optoelectronics

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UNIVERSAL SEMICONDUCTOR – UNV
1925 Zanker Rd.
San Jose, CA 95112
408/279-2830

Digital ICs, Interface ICs, Microprocessor ICs, Microcomputer Systems

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VALOR ELECTRONICS, INC. – VLR
6750 Nancy Ridge Dr.
San Diego, CA 92121
619/458-1471

Digital ICs

VALVO GMBH – VALG
P.O. Box 106323
D-2000 Hamburg 1
West Germany
040-3296-0
Telex: 2161891

VALVO

Application Notes, Audio/Video ICs, Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microprocessor ICs, Microwave, Modules/Hybrids, Optoelectronics, Thyristor, Transistor, Power Supplies, Microcomputer Systems

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V/O ELECTRONZAGRANPOSTAVKA – USSR
24/2 U1 Ulitsa Usievicha
Moscow 125315 U.S.S.R.
251-39-46
Telex: 7586

Digital ICs, Diode, Interface ICs, Linear ICs, Memory ICs, Microwave, Optoelectronics, Transistor

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VTC INCORPORATED – VTC
2401 E. 86th Street
Minneapolis, MN 55420
800/352-6789

Application Notes, Digital ICs, Interface ICs, Linear ICs

WEITEK CORP. – WET
1060 E. Arques
Sunnyvale, CA 94086
408/738-8400

WEITEK
VLSI SYSTEMS AND TECHNOLOGY

Digital ICs, Memory ICs, Microcomputer Systems, Microprocessor ICs

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WESTERN DIGITAL CORPORATION – WDC
2455 McCabe Way
Irvine, CA 92714
714/863-0102

Application Notes, Digital ICs, Interface ICs, Linear ICs, Microcomputer Systems, Microprocessor ICs, Memory ICs, PC Board Connecters, Audio/Video ICs

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ZILOG, INC. – ZIL
An Affiliate of EXXON Corporation
210 Hacienda
Campbell, CA 95008
408/370-8000
Telex: 171-980

Zilog

Application Notes, Digital ICs, Microcomputer Systems, Microprocessor ICs

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DIGITAL INTEGRATED CIRCUITS – INTERPRETER
SYMBOLS & CODES EXPLAINED

★ SYMBOLS & CODES COMMON TO MORE THAN ONE SECTION

LINE NO.

▼ – New type
◆ – Revised specification

TYPE NUMBER

(A) – Advance Information – This information was derived from an advanced-release data sheet. Components may have not reached commercial production.

(1) A D.A.T.A.-assigned suffix to indicate that
(2) the device is also listed in another volume
(3) of the D.A.T.A. library.

Example:

Part No.	Volume	Category
74LS37DP (1)	Digital ICs	Gate
74LS37DP (2)	Interface ICs	Buffer

NOTES

The serial numbers of all DIPs, QUIPs, and SOs are the same as their pin count. The symbol to the right of any drawing number indicates that the dimensioned drawing is not yet available and that the serial number coincides with the pin count.

As processing and technology improve, many manufacturers refine their packages to offer new opportunities to component users. While the illustrations on the following pages are suitable for most reference, users requiring more accurate or more current packaging documentation are referred to their supplier.

All drawings shown are referenced in the Technical Sections of this D.A.T.A.BOOK and, with the exception of JEDEC-registered outlines, are reproduced from manufacturer literature. The "MO-" and "TO-" series drawings are reproduced from JEDEC Publication No. 95: JEDEC Registered and Standard Outlines for Solid State Products.

MANUFACTURER CODE

△ – Indicates multiple manufacturers

VIH MIN

△ – Maximum
T – 3-state device
⌀ – Open collector

VIL MAX

C – Indicates values given are for output
* – Minimum

MAXIMUM NOISE REJECTION

† – Typical
* – Minimum

F MAX

† – Typical

TECHNOLOGY

BIP – Bipolar, Type Not Specified
CDL – Capacitor Diode Logic
CMS – CMOS
CTL – Capacitor Transistor Logic
DDL – Diode Logic
DTL – Transistor Diode Logic
ECL – Emitter-Coupled Logic
ECT – Emitter Coupled Transistor Logic
GA – Gallium Arsenide
HNL – Hi Noise Immunity Logic
IIL – Integrated Injection Logic
ITL – Transformer Coupled Transistor Logic
MON – Monolithic Substrate
MOS – MOS, Type Not Specified
MTL – Core Transistor Logic
NCH – NMOS
PCH – PMOS
RCT – Resistor Capacitor Transistor Logic
RDL – Resistor Diode Logic
RTL – Resistor Transistor Logic
TFT – Thin Film Transistor Logic
TTL – Transistor Coupled Logic
VTL – Variable Threshold Logic

OUTLINE DRAWING COLUMN (Letter Prefix)

The outline drawings are arranged by package type, serial number and variations. The following is an example:

FL 16 a
Package Type Serial Variation

CH – Unpackaged Die or Chip
CN – Metallic Can
DIP – Dual-Inline Package (DIP)
FP – Flatpack and Small Outline (SO)
LC – Leaded and Leadless Chip Carriers (LDCC and LLCC)
MD – Proprietary Modular Package
MO – JEDEC-Registered MO-series Package
MS – JEDEC-Registered MS-series Package
QUIP – Quad-Inline Package (QUIP)
PGA – Pin Grid Array (PGA)
SL – Single-Inline Package (SIP)
TO – JEDEC-Registered TO-series Package

MAXIMUM FAN OUT (Per Circuit)

NOTE: Fan Out computed at rated output sink current, based on following unit loading factors:

a – 1.6mA (TTL unit load)
b – 2.0mA (S-TTL unit load)
c – .80mA
d – .36mA (LS-TTL unit load)
e – .18mA (L-TTL unit load)
f – 5.0pF U.L. (Prop delay specified at max. F.O.)
g – 250uA

POWER DISSIPATION

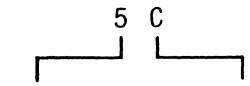
† – Typical
Q – Quiescent power dissipation

OPERATING TEMPERATURE CODE

0 – 0 up to 9
1 – 10 up to 19
2 – 20 up to 29
3 – 30 up to 39
4 – 40 up to 49
5 – 50 up to 59
6 – 60 up to 69
7 – 70 up to 79
8 – 80 up to 89
9 – 90 up to 99
A – 100 up to 109
B – 110 up to 119
C – 120 up to 129
D – 130 up to 139
E – 140 up to 149
F – 150 up to 159
G – 160 up to 169
H – 170 up to 179
J – 180 up to 189
K – 190 up to 199
X – Not specified

▼ – Used in negative column to indicate both temps are positive

Example of Operating Temp Range Code



Min value lies between -50°C and -59°C

Max value lies between +120°C and +129°C

LC1

INCLUDES: D-type
JK-type
RS-type
RST-type
T-type

TYPE NUMBER The manufacturer designated type number for the device.
TECHNOLOGY The main bipolar or MOS semiconductor technology of the device.
CKTS PER PKG The number of basic independent identical circuits contained per package.
f MAX The maximum input frequency the device will reliably function at.
CLEAR Indicates (Yes/No) the availability of a CLEAR input.
PRESET Indicates (Yes/No) the availability of a PRESET input.
OUTPUT CONFIGURATION A two-letter code indicating the output driver configuration, e.g. open-collector, three-state, etc.
t_{pd} The time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
SUPPLY VOLTAGE, RATED, NEG The maximum allowable negative voltage (with respect to ground) that may be applied to the (–) supply terminal and still guarantee proper device operation.
SUPPLY VOLTAGE, RATED, POS The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
VIH MIN The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
VIL MAX The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
PD RATED MAX The maximum allowable power dissipation of the entire device.
TEMP LOW Minimum allowable ambient operating temperature.
TEMP HI Maximum allowable ambient operating temperature.
CIRCUIT DWG NO. Indicates where schematic or logic diagram may be found.
OUTLINE DWG NO. Indicates where device packaging information may be found.

4. FLIP-FLOPS – JK-type (Cont'd)

IN ORDER OF: (1) CKTS PER PKG (2) f MAX & (3) TYPE NUMBER

LINE No.	[3] TYPE NUMBER	TECH	[1] CKTS PER PKG	[2] f, MAX	CLEAR	PRE SET	OUTP CONF	tpd MAX (s)	SUPPLY VOLTAGE, RATED NEG (V)	SUPPLY VOLTAGE, RATED POS (V)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	PD, RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
✪		✪		✪			✪				✪	✪	✪	✪	✪	✪	✪

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

SECTION 5 — GATES — SECTION 5

INCLUDES:

AND	NAND
AND-OR	NOR
AND-OR-Invert	OR
Exclusive OR	OR-AND
Exclusive NOR	
Multifunction	

TYPE NUMBER The manufacturer designated type number for the device.

TECHNOLOGY The main bipolar or MOS semiconductor technology of the device.

TYPE OF GATE The basic gate type. When both true and complimented functions are available on the circuit, as in many ECL technology devices, only the true function is cited.

INPUTS PER GATE The number of inputs, excluding expander inputs, per gate.

FEATURES Indicates special gate features such as open-collector or complimentary outputs, or expandability.

VIH MIN The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.

VIL MAX The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.

FAN OUT The number of loads that a given device can drive within its logic family.

SUPPLY VOLTAGE RATED, NEG The maximum allowable negative voltage (with respect to ground) that may be applied to the (–) supply terminal and still guarantee proper device operation.

SUPPLY VOLTAGE RATED, POS The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.

tpd MAX The time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.

PD RATED MAX The maximum allowable power dissipation of the entire device.

NOISE REJECT The difference between the maximum allowable input low and maximum output low voltage or the difference between the minimum allowable high input and minimum high output of the device.

TEMP LOW Minimum allowable ambient operating temperature.

TEMP HI Maximum allowable ambient operating temperature.

CKTS PER PKG The number of basic independent identical circuits contained per package.

LOGIC DWG NO. Indicates where schematic or logic diagram may be found.

OUTLINE DWG NO. Indicates where device packaging information may be found.

5. GATES

IN ORDER OF: (1) TYPE (2) INPUTS PER CKT (3) CKTS PER PKG (4) tpd MAX & (5) TYPE NO.

LINE No.	[5] TYPE NUMBER	TECH	[1] TYPE OF GATE	[2] INPUTS PER GATE	FEATURES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	[4] tpd MAX (s)	PD RATED MAX (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪	✪	(4)		(6)	(7)	✪	✪				✪	✪	✪	✪		✪	✪

(4)
- AND – AND
- ANDOR – AND-OR
- AOI – AND-OR-Invert
- EXNOR – Exclusive NOR
- EXOR – Exclusive OR
- MULT – Multifunction Gate
- NAND – NAND
- NOR – NOR
- OR – OR
- OR-AND – OR-AND

(6)
- CO – Complimentary ouput(s) available
- OC – Open collector output
- XI – Expander input(s) available
- XO – Expander outputs(s) available

(7)
- △ – Maximum

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

INCLUDES: Binary Decoder
BCD to 1-of-10 Decoder
Excess-3 Decoder
Excess-3-Gray Decoder

TYPE NUMBER The manufacturer designated type number for the device.
TECHNOLOGY The main bipolar or MOS semiconductor technology of the device.
DECODES FROM-TO The basic arithmetic codes (from and to) translated by the device.
VIH MIN The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
VIL MAX The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
NO. OF LINES IN The number of input lines available
NO. OF LINES OUT The number of decoded output lines.
SUPPLY VOLTAGE RATED, NEG The maximum allowable negative voltage (with respect to ground) that may be applied to the (–) supply terminal and still guarantee proper device operation.
SUPPLY VOLTAGE RATED, POS The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
tpd MAX The time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
OUTPUT tr MAX The interval between the time the instantaneous amplitude rises from 10% to 90% of the peak pulse amplitude.
OUTPUT tf MAX The interval between the time at which the instantaneous amplitude drops from 90% to 10% of the peak pulse amplitude.
PD RATED MAX The maximum allowable power dissipation of the entire device.
NOISE REJECT The difference between the maximum allowable input low and maximum output low voltage or the difference between the minimum allowable high input and minimum high output of the device.
TEMP LOW Minimum allowable ambient operating temperature.
TEMP HI Maximum allowable ambient operating temperature.
CKTS PER PKG The number of basic independent identical circuits contained per package.
LOGIC DWG NO. Indicates where schematic or logic diagram may be found.
OUTLINE DWG NO. Indicates where a device packaging information may be found.

6. DECODERS

IN ORDER OF: (1) DECODES FROM (2) DECODES TO (4) CKTS PER PKG & (5) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	DECODES [1] FROM (ROM)	DECODES [2] TO	INPT LOGIC LEVELS VIH MIN (V)	INPT LOGIC LEVELS VIL MAX (V)	NUMBER OF LINES IN	NUMBER OF LINES OUT	SUPPLY VOLTAGE RATED NEG (V)	SUPPLY VOLTAGE RATED POS (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	[3] CKTS PER PKG	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪	✪	(4)	(5)	✪	✪						(13)	(14)	✪	✪	✪	✪		✪	✪

(4)(5)
1 – Binary
2 – Binary-Coded Decimal
3 – Excess 3
4 – Excess 3 Gray
5 – Quinary (1-of-6)
8 – Octal (1-of-8)
10 – Decimal (1-of-10)
12 – Biquinary (1-of-12)
16 – Hexadecimal (1-of-16)
21 – One of "x" number of lines
22 – Two of "x" number of lines
23 – Three of "x" number of lines
V – Device as coded above has latching capability

(13)(14)
† – Typical

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

SECTION 10 — TIME DELAYS — SECTION 10

INCLUDES: Fixed Delay Line
Digitally Programmable Delay Line
Tapped Delay Line
Variable Delay Line
Programmable Pulse Generator

TYPE NUMBER The manufacturer designated type number for the device.
TECHNOLOGY The main bipolar or MOS semiconductor technology of the device.
TYPE DELAY A three-letter code indicating delay type.
VIH MIN The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
VIL MAX The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
FAN IN The number of input lines available
FAN OUT The number of loads that a given device can drive within a given logic family.
SUPPLY VOLTAGE RATED, NEG The maximum allowable negative voltage (with respect to ground) that may be applied to the (–) supply terminal and still guarantee proper device operation.
SUPPLY VOLTAGE RATED, POS The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
tpd MAX The time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
OUTPUT tr RISE TIME The interval between the time the instantaneous amplitude rises from 10% to 90% of the peak pulse amplitude.
OUTPUT tf FALL TIME The interval between the time at which the instantaneous amplitude drops from 90% to 10% of the peak pulse amplitude.
PD RATED MAX The maximum allowable power dissipation of the entire device.
NOISE REJECT The difference between the maximum allowable input low and maximum output low voltage or the difference between the minimum allowable high input and minimum high output of the device.
TEMP LOW Minimum allowable ambient operating temperature.
TEMP HI Maximum allowable ambient operating temperature.
CKTS PER PKG The number of basic independent identical circuits contained per package.
LOGIC DWG NO. Indicates where schematic or logic diagram may be found.
OUTLINE DWG NO. Indicates where device packaging information may be found.

10. TIME DELAYS

IN ORDER OF: (1) TYPE DELAY (2) CKTS PER PKG (3) TECH & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	3 TECH	1 TYPE DELAY (4)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	FAN IN	FAN OUT MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	tpd MAX (s) (11)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	2 CKTS PER PKG	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪	✪	✪ (4)	✪	✪	✪	✪			✪ (11)				✪	✪	✪		✪	✪

(4)
FIX – Fixed delay line
PTD – Digitally Programmable Time Delay
TAP – Tapped delay line
VAR – Variable Delay line
WID – Programmable Pulse Generator

(11)
△ – Maximum

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

INCLUDES: Binary, Hexadecimal Output
Binary, Other Modulus
Decade, BCD Output
Decade, 1-of-10 Output
Decade, 7-Segment Output
Octal, 1-of-8 Output
Modulo N
Special Feature Counter

TYPE NUMBER The manufacturer designated type number for the device.
TECHNOLOGY The main bipolar or MOS semiconductor technology of the device.
MODULUS The maximum count of the device.
CKTS PER PKG The number of basic independent indentical circuits contained per package.
MODE The count characteristic of the device, up, down, or both.
f MAX The maximum input frequency the device will reliably function at.
PRELOAD Indicates (Yes/No) the availability of PRELOAD inputs.
VIH MIN The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
VIL MAX The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
tpd MAX The time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
NOISE REJECT The difference between the maximum allowable input low and maximum output low voltage or the difference between the minimum allowable high input and minimum high output of the device.
SUPPLY VOLTAGE, NOMINAL The device nominal supply voltage, referenced to ground and representing a recommended operating condition or a test condition of the device's table of electrical characteristics. If the device requires multiple supplies, the one supplying the most current is cited.
PD RATED MAX The maximum allowable power dissipation of the entire device.
TEMP LOW Minimum allowable ambient operating temperature.
TEMP HI Maximum allowable ambient operating temperature.
LOGIC DWG NO. Indicates where schematic or logic diagram may be found.
OUTLINE DWG NO. Indicates where device packaging information may be found.

11. COUNTERS – Binary, Other Modulus (Cont'd)

IN ORDER OF: (1) MODULUS (2) CKTS/PKG (3) MODE (4) MAX FREQ & (5) TYPE NUMBER

LINE No.	[5] TYPE NUMBER	TECHN	[1] MODULUS	[2] CKTS PER PKG	[3] MODE	[4] f MAX (Hz)	PRE-LOAD	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	tpd MAX (s)	NOISE REJECT MAX (V)	SUPP. VOLT NOM (V)	PD RATED MAX (W)	OPER TEMP RANGE	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪	✪	✪		✪			✪	✪		✪		✪	✪	✪	✪

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

SECTION 12 CLOCKS/MULTIVIBRATORS SECTION 12

INCLUDES: Astable Multivibrator
Monostable Multivibrator
Voltage-Controlled Oscillator
Crystal-Controlled Oscillator

TYPE NUMBER The manufacturer designated type number for the device.
TECHNOLOGY The main bipolar or MOS semiconductor technology of the device.
TYPE OF MV A three-letter code indicating multivibrator type.
f MAX The maximum input frequency the device will reliably function at.
VIH MIN The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
VIL MAX The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
CLEAR Indicates (Yes/No) the availability of a CLEAR input.
FAN OUT The number of loads that a given device can drive within a given logic family.
SUPPLY VOLTAGE RATED, NEG The maximum allowable negative voltage (with respect to ground) that may be applied to the (–) supply terminal and still guarantee proper device operation.
SUPPLY VOLTAGE RATED, POS The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
tpd MAX The time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
OUTPUT tr MAX The interval between the time the instantaneous amplitude rises from 10% to 90% of the peak pulse amplitude.
OUTPUT tf MAX The interval between the time at which the instantaneous amplitude drops from 90% to 10% of the peak pulse amplitude.
PD RATED MAX The maximum allowable power dissipation of the entire device.
NOISE REJECT The difference between the maximum allowable input low and maximum output low voltage or the difference between the minimum allowable high input and minimum high output of the device.
TEMP LOW Minimum allowable ambient operating temperature.
TEMP HI Maximum allowable ambient operating temperature.
CKTS PER PKG The number of basic independent identical circuits contained per package.
LOGIC DWG NO. Indicates where schematic or logic diagram may be found.
OUTLINE DWG NO. Indicates where device packaging information may be found.

12. CLOCKS/MULTIVIBRATORS

IN ORDER OF: (1) TYPE MV (2) CKTS PER PKG (3) f MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	1 TYPE MV	3 f MAX (Hz)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	CLEAR	FAN OUT MAX.	SUPPLY VOLTAGE RATED NEG (V)	SUPPLY VOLTAGE RATED POS (V)	tpd MAX (s)	OUTPUT tr MAX (s)	OUTPUT tf MAX (s)	PD RATED MAX (W)	MAX. NOISE REJECT (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	2 CKTS PER PKG	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪	✪	④	✪	✪	✪	✪				⑫	⑬	⑭	✪	✪	✪	✪		✪	✪

④
AST – Astable multivibrator
MON – Monostable multivibrator
VCO – Voltage-controlled oscillator
XCO – Crystal-controlled oscillator

⑫ △ – Maximum

⑬ † – Typical
⑭ # – Minimum input pulse width

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

INTERPRETER – DIGITAL INTEGRATED CIRCUITS
SYMBOLS & CODES EXPLAINED

SECTION 13 — FREQUENCY DIVIDERS — SECTION 13

INCLUDES: Baud Rate Generation
Fixed Modulus Divider
Programmable Divider
Rate Multiplier

TYPE NUMBER The manufacturer designated type number for the device.
TECHNOLOGY The main bipolar or MOS semiconductor technology of the device.
TYPE CODE 1-digit numeric code representing type of divider. (See code listing.)
MODULUS MAX The maximum divide-by ratio of the device; for programmable MIN dividers the minimum modulus is also shown.
f MAX The maximum input frequency the device will reliably function at.
NO. OF STAGES Number of counting stages (i.e., flip-flops)
VIH MIN The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
VIL MAX The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
I_{OL} TEST The current into the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output. The value shown is a test condition of V_{OL} MAX.
V_{OL} MAX The voltage level at the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output.
SUPPLY VOLTAGE RATED, NEG The maximum allowable negative voltage (with respect to ground) that may be applied to the (–) supply terminal and still guarantee proper device operation.
SUPPLY VOLTAGE RATED, POS The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
PD RATED MAX The maximum allowable power dissipation of the entire device.
TEMP LOW Minimum allowable ambient operating temperture.
TEMP HI Maximum allowable ambient operating temperature.
LOGIC DWG NO. Indicates where schematic or logic diagram may be found.
OUTLINE DWG NO. Indicates where device packaging information may be found.

13. FREQUENCY DIVIDERS

IN ORDER OF: (1) TYPE CODE (2) f MAX (3) MAXIMUM MODULUS & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	1 TYPE CODE	MODULUS 3 MAX	MODULUS MIN (Hz)	2 f MAX	NO. OF STAGES	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	VOL IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪	✪	(4)			✪	(8)	✪	✪	(11)				✪	✪	✪	✪	✪

(4) FIX – Fixed
PROG – Programmable
RATE – Rate Multiplier

(8) F – Number of frequency control lines

(11) † – Typical
⧄ – Rated maximum

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

INCLUDES: Adder/Subtracter
Full Adder
Subtracter

TYPE NUMBER The manufacturer designated type number for the device.
TECHNOLOGY The main bipolar or MOS semiconductor technology of the device.
TYPE CODE 1 bit numeric code indicating the type of addition the device can perform. (See list of codes.)
BITS The number of bits the device can simultaneously add.
tpd MAX The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
OPER MODE The input mode of the device, parallel, serial, or both.
VIH MIN The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
VIL MAX The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
I_{OL} TEST The current into the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output. The value shown is a test condition of V_{OL} MAX.
V_{OL} MAX The voltage level at the output terminal with input conditions applied that, according to the product specification, will establish á low level at the output.
SUPPLY VOLTAGE RATED, NEG The maximum allowable negative voltage (with respect to ground) that may be applied to the (–) supply terminal and still guarantee proper device operation.
SUPPLY VOLTAGE RATED, POS The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
PD RATED MAX The maximum allowable power dissipation of the entire device.
FEATURES Special device features or capabilities. (See abbreviations.)
TEMP LOW Minimum allowable ambient operating temperature.
TEMP HI Maximum allowable ambient operating temperature.
LOGIC DWG NO. Indicates where schematic or logic diagram may be found.
OUTLINE DWG NO. Indicates where device packaging information may be found.

15. ADDERS

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	1 TYPE CODE	2 BITS	3 tpd MAX (s)	OPER MODE	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪	✪	(4)			(7)		✪					✪	(15)	✪	✪	✪	✪

(4)
1 – Adder/Subtracter
2 – Full Adder
3 – Half Adder
4 – Subtracter

(7)
P – Parallel
S – Serial

(15)
BUFF – Buffered output
COMPL – Complementary
LACO – Look-ahead carry output
NBCD – Natural binary coded decimal

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

INCLUDES: Multipliers from 2 Bits Binary to 34 Bits Floating Point

TYPE NUMBER The manufacturer designated type number for the device.

TECHNOLOGY The main bipolar or MOS semiconductor technology of the device.

BIT ARRAY HI
BIT ARRAY LO Number of bits of the multiplier and multiplicand with the high number listed first.

tpd The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state; also specified as "multiply time".

MODE P = Parallel S = Serial S/P = Both

OUTPUT CONFIG The output drive structure, i.e., open collector, three-state, etc.

ARITHMETIC CAPABILITY The basic code multiplying capability of the device. (See list of abbreviations.)

VIH MIN The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.

VIL MAX The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.

I_{OL} TEST The current into the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output. The value shown is a test condition of V_{OL} MAX.

V_{OL} MAX The voltage level at the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output.

SUPPLY VOLTAGE RATED, NEG The maximum allowable negative voltage (with respect to ground) that may be applied to the (–) supply terminal and still guarantee proper device operation.

SUPPLY VOLTAGE RATED, POS The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.

PD RATED MAX The maximum allowable power dissipation of the entire device.

TEMP LOW Minimum allowable ambient operating temperature.

TEMP HI Maximum allowable ambient operating temperature.

LOGIC DWG NO. Indicates where schematic or logic diagram may be found.

OUTLINE DWG NO. Indicates where device packaging information may be found.

16. MULTIPLIERS – 2-Bit

IN ORDER OF: (1) BITS HI (2) BITS LO (3) tpd MAX & (4) TYPE NUMBER

LINE No.	[4] TYPE NUMBER	TECH	BIT ARRAY HIxLO [1] HI [2] LO	[3] tpd MAX (s)	MODE	OUTPUT CONFIG	ARITHMETIC CAPABILITY	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
✪	✪	✪	✪		(7)	(8)	(9)		✪					✪	✪	✪	✪	✪

(8)
OC – Open collector
TS – Three-state

(7)
P – Parallel
S – Serial
S/P – Serial/parallel

(9)
BCD – Binary coded decimal
BIN – Binary
BO – Binary offset
DP – Double precision
PDA – Product Accumulation
2SC – 2's complement
USM – Unsigned Magnitude

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

SECTION 17 MAGNITUDE COMPARATORS SECTION 17

INCLUDES: Address Comparator
Identity Comparator
Magnitude Comparator

TYPE NUMBER The manufacturer designated type number for the device.
ENABLE Indicates (Yes/No) the availability of a device enable pin.
TECHNOLOGY The main bipolar or MOS semiconductor technology of the device.
TYPE CODE Code representing the comparison capability of the device (see list of codes).
BITS The number of bits the device can compare.
tpd MAX The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
FEATURES Additional device architectural or operational features.
VIH MIN The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
VIL MAX The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
I_{OL} TEST The current into the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output. The value shown is a test condition of V_{OL} MAX.
V_{OL} MAX The voltage level at the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output.
SUPPLY VOLTAGE RATED, NEG The maximum allowable negative voltage (with respect to ground) that may be applied to the (–) supply terminal and still guarantee proper device operation.
SUPPLY VOLTAGE RATED, POS The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
PD RATED MAX The maximum allowable power dissipation of the entire device.
TEMP LOW Minimum allowable ambient operating temperature.
TEMP HI Maximum allowable ambient operating temperature.
LOGIC DWG NO. Indicates where schematic or logic diagram may be found.
OUTLINE DWG NO. Indicates where device packaging information may be found.

17. MAGNITUDE COMPARATORS

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	ENA-BLE	TECH	1 TYPE CODE	2 BITS	3 tpd MAX (s)	FEATURES	INPUTL OGIC LEVELS VIH MIN (V)	INPUTL OGIC LEVELS VIL MAX (V)	VOL IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪		✪	(5)				✪	✪					✪	✪	✪	✪	✪

(5) ——————————

A – Address Comparator
I – Identity Comparator
M – Magnitude Comparator
U – Comparator as coded above has Unified Bus application

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

INCLUDES: ALUs from 2 Bits Binary to 34 Bits Floating Point

TYPE NUMBER The manufacturer designated type number for the device.

TECHNOLOGY The main bipolar or MOS semiconductor technology of the device.

BITS The number of parallel bits the device can simultaneously add.

tpd MAX The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.

@ OPERATE MODE The mode of operation at which the propagation delay is specified.

NUMBER OF OPERATIONS LOGIC The number of logic operations performed; i.e., AND, OR, etc.

NUMBER OF OPERATIONS ARITHMETIC The number of arithmetic operations performed; i.e., ADD, SUBTRACT, etc.

VIH MIN The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.

VIL MAX The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.

I_{OL} TEST The current into the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output. The value shown is a test condition of V_{OL} MAX.

V_{OL} MAX The voltage level at the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output.

SUPPLY VOLTAGE RATED, NEG The maximum allowable negative voltage (with respect to ground) that may be applied to the (–) supply terminal and still guarantee proper device operation.

SUPPLY VOLTAGE RATED, POS The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.

PD RATED MAX The maximum allowable power dissipation of the entire device.

FEATURES See list of abbreviations.

TEMP LOW Minimum allowable ambient operating temperature.

TEMP HI Maximum allowable ambient operating temperature.

LOGIC DWG NO. Indicates where schematic or logic diagram may be found.

OUTLINE DWG NO. Indicates where device packaging information may be found.

18. ARITHMETIC LOGIC UNITS – 16-Bit (Cont'd)

IN ORDER OF: (1) BITS (2) tpd MAX & (3) TYPE NUMBER

LINE No.	(3) TYPE NUMBER	TECH	(1) BITS	(2) tpd, MAX (s)	@ OPER MODE (8)	NO. OF OPER. LOG	NO. OF OPER. ARITH.	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL, TEST (A)	VOL, MAX	SUPPLY VOLTAGE, RATED NEG. (V)	SUPPLY VOLTAGE, RATED POS. (V)	PD, RATED MAX (W)	FEATURES (16)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) CIRCUIT DRAWING	(SEE 'DRAWING INDEX' FOR PAGE NUMBER) OUTLINE DRAWING
✪	✪	✪						✪	✪					✪		✪	✪	✪	✪

(8)
- DIFF – Difference
- LOG – Logic
- SUM – Sum

(16)
- LACO – Look-ahead carry output
- LACG – Look-ahead carry generator
- LACGO – Look-ahead carry generator and output

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

SECTION 19 LOOK-AHEAD CARRY GENERATORS SECTION 19

INCLUDES: 4-Bit Devices

TYPE NUMBER The manufacturer designated type number for the device.
TECHNOLOGY The main bipolar or MOS semiconductor technology of the device.
BITS The number of adders or adder groups across which the generator can anticipate the carry.
tpd MAX The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
VIH MIN The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
VIL MAX The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
I_{OL} TEST The current into the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output. The value shown is a test condition of V_{OL} MAX.
V_{OL} MAX The voltage level at the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output.
SUPPLY VOLTAGE RATED, NEG The maximum allowable negative voltage (with respect to ground) that may be applied to the (–) supply terminal and still guarantee proper device operation.
SUPPLY VOLTAGE RATED, POS The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
PD RATED MAX The maximum allowable power dissipation of the entire device.
FEATURES Special features or capabilities of the device.
TEMP LOW Minimum allowable ambient operating temperature.
TEMP HI Maximum allowable ambient operating temperature.
CKTS PER PKG The number of basic independent identical circuits contained per package.
LOGIC DWG NO. Indicates where schematic or logic diagram may be found.
OUTLINE DWG NO. Indicates where device packaging information may be found.

19. LOOK-AHEAD CARRY GENERATORS

IN ORDER OF: (1) BITS (2) tpd MAX (3) TECH & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	3 TECH	1 BITS	2 tpd MAX (s)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	VOL IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG (V)	SUPPLY VOLTAGE RATED POS (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP RANGE CODE -	OPER. TEMP RANGE CODE +	CKTS PER PKG	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪	✪			(6)	✪					✪		✪	✪		✪	✪

(6) △ – Maximum

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

SECTION 25 PARITY GENERATORS/CHECKERS SECTION 25

INCLUDES: Devices from 4 to 16 Bits

TYPE NUMBER The manufacturer designated type number for the device.
TECHNOLOGY The main bipolar or MOS semiconductor technology of the device.
BITS The maximum input word length, data plus parity, of the generator.
tpd MAX The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
VIH MIN The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
VIL MAX The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
I_{OL} TEST The current into the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output. The value shown is a test condition of V_{OL} MAX.
V_{OL} MAX The voltage level at the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output.
SUPPLY VOLTAGE RATED, NEG The maximum allowable negative voltage (with respect to ground) that may be applied to the (–) supply terminal and still guarantee proper device operation.
SUPPLY VOLTAGE RATED, POS The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
PD RATED MAX The maximum allowable power dissipation of the entire device.
FEATURES Special features or capabilities of the device.
TEMP LOW Minimum allowable ambient operating temperature.
TEMP HI Maximum allowable ambient operating temperature.
CKTS PER PKG The number of basic identical circuits contained per package.
LOGIC DWG NO. Indicates where schematic or logic diagram may be found.
OUTLINE DWG NO. Indicates where device packaging information may be found.

25. PARITY GENERATORS/CHECKERS

IN ORDER OF: (1) BITS (2) tpd MAX (3) TECH & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	3 TECH	1 BITS	2 tpd MAX (s)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	VOL IOL TEST (A)	VOL MAX	SUPPLY VOLTAGE RATED NEG (V)	SUPPLY VOLTAGE RATED POS (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP RANGE CODE -	OPER. TEMP RANGE CODE +	CKTS PER PKG	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪	✪			✪	✪					✪		✪	✪		✪	✪

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

INCLUDES: D-type
RS-type

TYPE NUMBER	The manufacturer designated type number for the device.
TECHNOLOGY	The main bipolar or MOS semiconductor technology of the device.
BITS	The number of parallel bits the device can latch.
tpd MAX	The maximum time delay between the 50% points on the input and output waveforms when the output changes state due to a change of input state.
OUTPUT CONFIGURATION	A two-letter code indicating the output driver configuration (e.g., open collector, totem pole, etc.)
VIH MIN	The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
VIL MAX	The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
I_{OL} TEST	The current into the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output. The value shown is a test condition of V_{OL} MAX.
V_{OL} MAX	The voltage level at the output terminal with input conditions applied that, according to the product specification, will establish a low level at the output.
SUPPLY VOLTAGE RATED, NEG	The maximum allowable negative voltage (with respect to ground) that may be applied to the (–) supply terminal and still guarantee proper device operation.
SUPPLY VOLTAGE RATED, JAN	The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
PD RATED MAX	The maximum allowable power dissipation of the entire device.
FEATURES	See list of abbreviations for available device features.
TEMP LOW	Minimum allowable ambient operating temperature.
TEMP HI	Maximum allowable ambient operating temperature.
LOGIC DWG NO.	Indicates where schematic or logic diagram may be found.
OUTLINE DWG NO.	Indicates where device packaging information may be found.

26. LATCHES

IN ORDER OF: (1) TYPE CODE (2) BITS (3) tpd MAX & (4) TYPE NUMBER

LINE No.	4 TYPE NUMBER	TECH	2 BITS	3 tpd MAX (s)	1 OUTP CONF	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	IOL TEST (A)	VOL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	FEATURES	OPER. TEMP. RANGE CODE ·	OPER. TEMP. RANGE CODE +	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪	✪			✪	✪	✪					✪	(14)	✪	✪	✪	✪

(14)
ADDR – Addressable
MULT – Multimode
NOR – NOR gate logic
NAND – NAND gate logic
COMP – Complement output

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

INTERPRETER – DIGITAL INTEGRATED CIRCUITS
SYMBOLS & CODES EXPLAINED

SECTION 27 — SPECIAL DEVICES — SECTION 27

INCLUDES: Error Detection & Correction
Logic Block
Special Decoder/Encoder
Additional Digital Devices

TYPE NUMBER The manufacturers designated type number for the device.
TYPE CODE See List of Codes.
TECHNOLOGY The main bipolar or MOS semiconductor technology of the device.
f MAX The maximum input frequency the device will reliably function at.
VIH MIN The least positive (most negative) value of high level input voltage for which operation of the logic element within specification limits is guaranteed.
VIL MAX The most positive (least negative) value of low level input voltage for which operation of the logic element within specification limits is guaranteed.
SUPPLY VOLTAGE RATED, NEG The maximum allowable negative voltage (with respect to ground) that may be applied to the (–) supply terminal and still guarantee proper device operation.
SUPPLY VOLTAGE RATED, POS The maximum allowable positive voltage (with respect to ground) that may be applied to the (+) supply terminal and still guarantee proper device operation.
PD RATED MAX The maximum allowable power dissipation of the entire device.
TEMP LOW Minimum allowable ambient operating temperature.
TEMP HI Maximum allowable ambient operating temperature.
DESCRIPTION Listing of Device Capabilities or Features
LOGIC DWG NO. Indicates where schematic or logic diagram may be found.
OUTLINE DWG NO. Indicates where device packaging information may be found.

27. SPECIAL DEVICES

IN ORDER OF:(1)TYPE CODE(2)TECHNOLOGY (3)TYPE NUMBER

LINE No.	3 TYPE NUMBER	1 TYPE CODE	2 TECH	f MAX (Hz)	INPUT LOGIC LEVELS VIH MIN (V)	INPUT LOGIC LEVELS VIL MAX (V)	SUPPLY VOLTAGE RATED NEG. (V)	SUPPLY VOLTAGE RATED POS. (V)	PD RATED MAX (W)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	GENERAL DESCRIPTION	DRAWINGS CIRCUIT	DRAWINGS OUTLINE
✪	✪	(3)	✪	✪	✪	✪			✪	✪	✪	(13)	✪	✪

(3)
1 – Error Detection & Correction
2 – Logic Block
3 – Special Decoder/Encoder
7 – Additional Digital Devices

(13)

A – Gain
Acc – Accuracy
AMP – Amplifiers
B – Base
BCD – Binary-coded decimal
BD – Board
BIN – Binary
C – Collector
CKT – Circuit
CL – Clamped
CMS – CMOS
COM – Common
COMP – Complement
CONT – Contract
CONV – Converter
DEC – Decimal
DIG – Digits
E – Emitter
FLTG – Floating
Fo – Fan out
GRD – Ground
INT – Internally connected
INCL – Included
INV – Inverter
Io – Output current
LD – Load
MAT – Matrix
MUX – Multiplexer
NC – No connection
NCH – N-channel
NEG – Negative
OSC – Oscillator
PCH – P-channel
POS – Positive
PROP – Propagation
Rds – Drain-source On-resistance
RES – Resistor
RESP – Respectively
RT – Rating
SENS – Sensitivity
TC – Temp. Coeff.
tOFF – Turn off delay time
tON – Turn on delay time
tpd – Propagation time
trec – Recovery time
top – Operating time
tref – Release time
VIO – Input offset voltage
VoH – High output voltage
VoL – Low output voltage
SW – Switch
Vth – Differential input threshold voltage
W/ – With

✪ SYMBOLS & CODES AT TOP OF FIRST INTERPRETER PAGE

CIRCUIT DRAWINGS

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2-009	253	6-63P	260	40-37A	266	45-01A	272	54-60W	282	54-293W	289	54L78T	283
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3-01C	254	6-68P	260	40-40B	266	45-08B	273	54-73W	283	54-376W	290	54L86T	284
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3-03C	254	6-70P	260	40-43B	266	45-11B	273	54-75W	283	54-393W	291	54LS01W	278
3-04C	254	6-73P	260	40-44B	266	45-14B	273	54-77W	283	54-406	291	54LS21W	279
3-06C	254	6-75P	261	40-45	270	45-15B	273	54-80W	283	54-408W	291	54LS31W	277
3-11C	254	6-76P	260	40-46B	334	45-16B	273	54-82W	283	54-450W	296	54LS42W	280
3-12C	254	6-82P	260	40-47	266	45-18B	273	54-83	284	54-451W	297	54LS49W	277
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3-42C	255	9-31L	261	40-63B	270	45-029	334	54-105W	296	54ALS575	337	54LS163W	297
3-43C	255	9-33L	261	40-68B	267	45-30B	274	54-107F	285	54ALS577	293	54LS171W	296
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3-47C	255	9-39L	261	40-71B	267	45-34B	274	54-110W	285	54ALS632	330	54LS261	288
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3-71C	255	9-52L	262	40-77	270	45-53B	274	54-122	285	54ALS841	298	54LS294W	289
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4-05P	258	25WTY16	332	40-103B	263	47-27B	276	54-162W	287	54ALS29806N	299	54LS378W	290
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4-010	258	40-02B	263	40H000	264	54-02W	278	54-175W	287	54H11W	279	54LS385W	291
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4-15P	258	40-11B	264	40H020	265	54-20W	279	54-181	293	54H22W	279	54LS534W	291
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54S09W	278	74-83N	305	74-390N	314	74AS802	317	74HC7022	269	74LS491N	327	74S168N	310
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54S30W	280	74-90N	306	74-408P	315	74AS821N	333	74L54N	303	74LS521N	323	74S274	311
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54S113W	285	74-109N	306	74-422N	315	74AS841N	326	74LS24N	302	74LS569N	316	74S508N	328
54S114W	285	74-111N	307	74-450N	315	74AS842N	326	74LS31N	323	74LS573N	317	74S516N	328
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